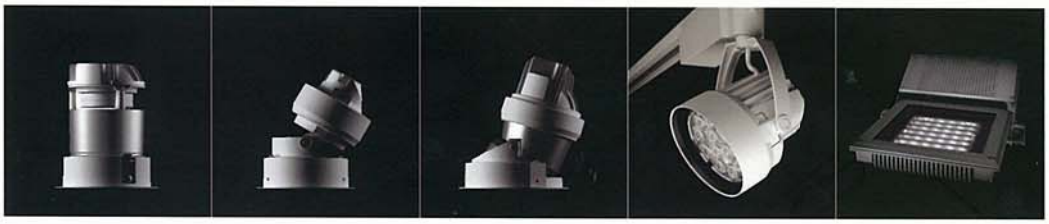
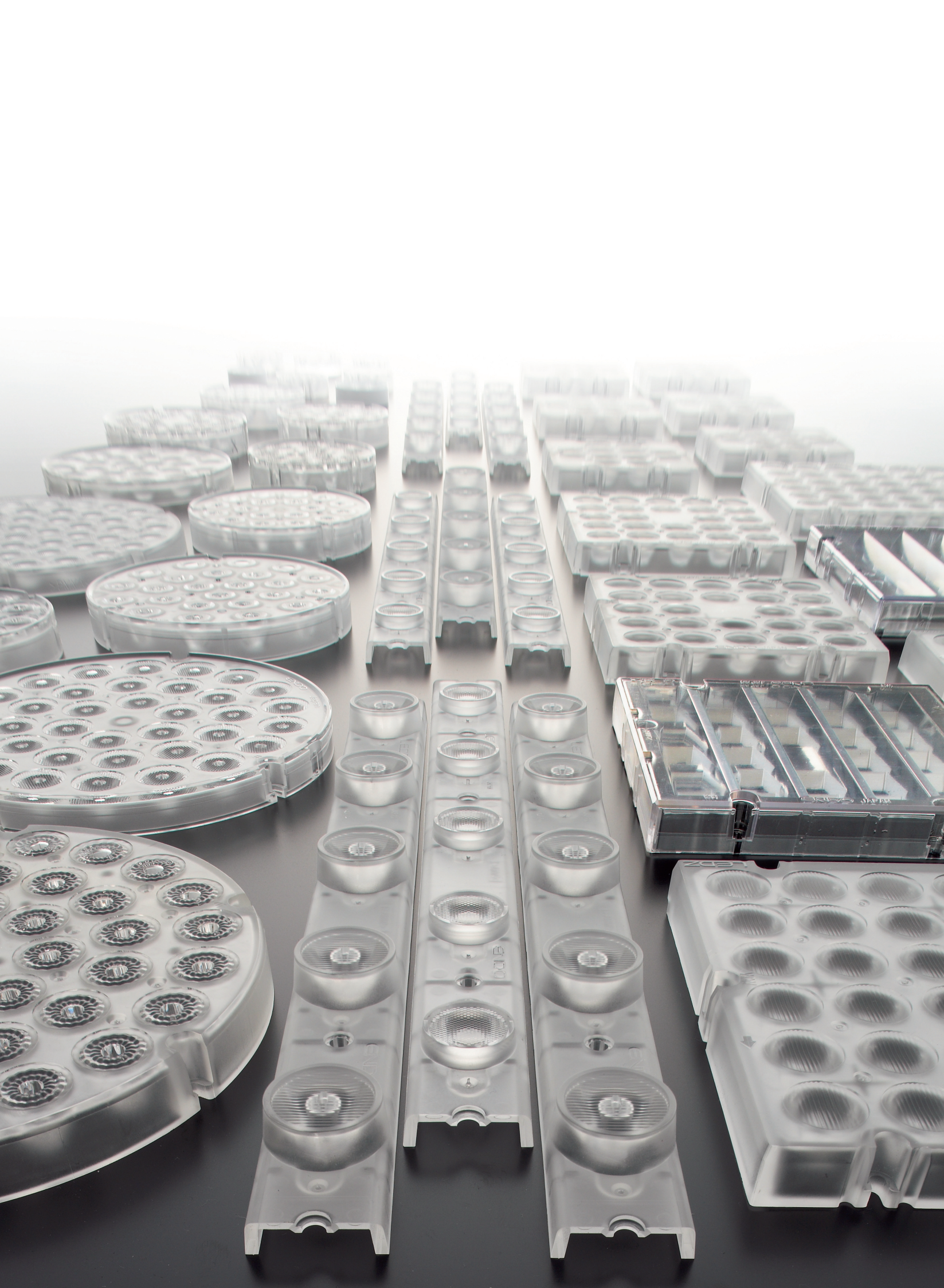
ENDO LEDZ™



Rs series



Creating the future of people-friendly & earth-friendly lighting

Light is indispensable because it energizes the mind and body.

Our need for lighting, however, does carry with it some disadvantages. For example, lighting consumes a great deal of energy and requires a large amount of valuable resources.

Today, people are becoming more aware of the importance of protecting the environment. Under these circumstances, we must conserve energy while at the same time working to create an affluent society.

Happily, however, an excellent light source has been developed that is helping to resolve these two contradictory issues: the LED.

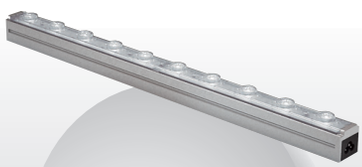
Supplanting halogen lamps and discharge lamps with LED light sources can help to greatly reduce the amount of electric power required for lighting. For example, replacing 10 million conventional illumination lamps with LEDs would reduce our baseload electric power demand by about 500,000kW. This represents the output of one reactor of a nuclear power facility.

In order to achieve a high-value-added lighting environment that consumes less energy, we will continue to realize the full potential of this technology through our line of ENDO products, which are both eco-friendly and people-friendly.

The name LEDZ® reflects our commitment to developing the full potential of LED light sources to the ultimate level, as suggested by the letter "Z."

Rs series

This series includes various standard products incorporating round modules. Our coming up new version Rs modules, which are 1.3 to 1.5 times brighter than standard modules, to this series to enhance the product line.



L series

This series includes various basic products with linear shapes that provide broad light distribution and are used exclusively in basic lighting fixtures. This series features great variety to the product line.

Ss series

This series includes various products with a square shape that provide asymmetrical distribution of light and can be used outdoors. Our Ss modules offer increased power, and all Ss modules provide excellent color rendering. For enhanced usability, this series has been expanded to include products offering a 5000K color temperature.

Public space

The Mind Museum at Taguig
Philippines

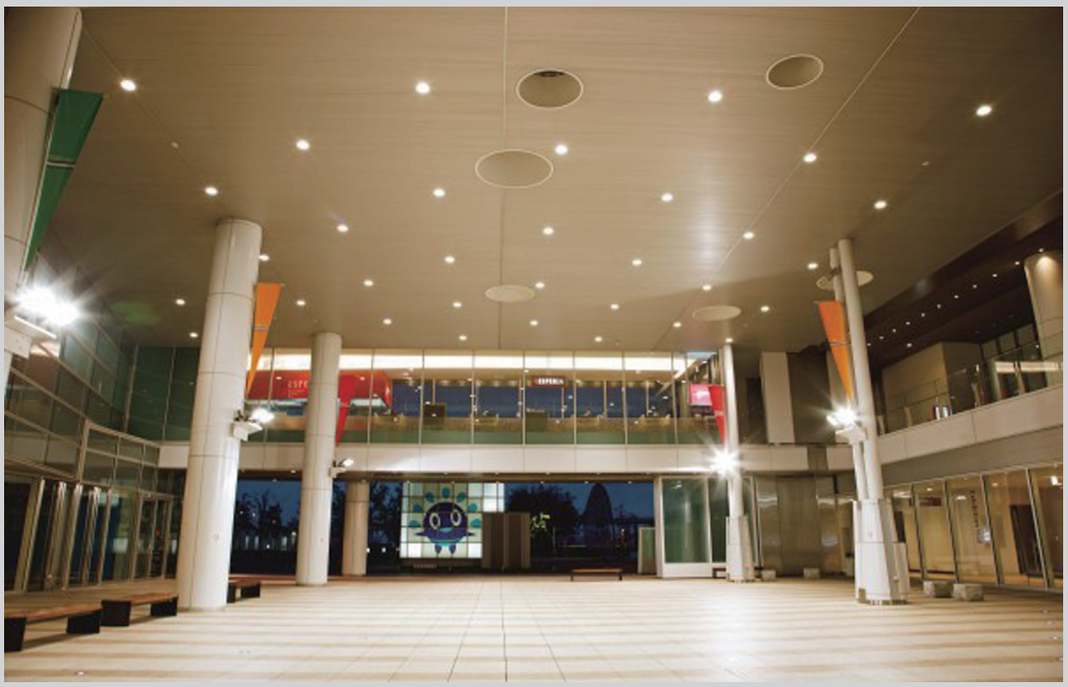
GERS3022W
R-12(23W) spotlight/3000K
CUSTOM MADE

Sipopo Congress Center Malabo
Equatorial Guinea

GERD1518S
R-36(66W)fixed.DL/3000K

Takamatsu Symbol Tower
Japan

ERD1050W
R-36(66W)fixed.DL/4000K



Hotel

Midas Hotel Manila
Philippines

ERD1194S
R18(34W)adj.DL/4000K

ERD1148S
R9(18W)fixed.DL/4000K

Diamond Hotel Manila
Philippines

ERD1162S
R24(44W)fixed.DL/4000K

Hotel / Restraunt

Ballroom of Crowne Plaza Hotel at Paragon Mall Semarang Indonesia

GERD1165S
R-24(44W)fixed.DL/3000K

Ootaya The Crystal Bangkok Thailand

ERD1013W
R7(14W)fixed.DL/3000K

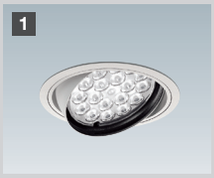
ERS3057W
R7(14W)spoylight/3000K

ERD1022W
R9(18W)fixed.DL/3000K

ERD1085W
R9(18W)adj.DL/3000K

Department Store

Daimaru Osaka
Japan



ERD1111WA+ERD1104WAx2
R18(34W)adj.DL/3500K+
R18(34W)adj.DL/3000K

ERD1104WA
R18(34W)adj.DL/4000K

JR Osaka Mitsukoshi Isetan
Japan

ERD1195W
R18(34W)fixed.DL/3000K

ERD1179W
R18(34W)adj.DL/3000K

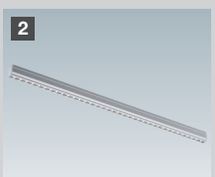
ERD1181S
R7(14W)adj.DL/3000K

Kalyana Kanchi Hyderabad
India

ERS3089B
R18(34W)spotlight/3500K

Takashimaya
Singapore

ERD1085W
R9(18W)adj.DL/3000K



ERX9008S
(18.8W)/3000K

ERD1022W
R9(18W)fixed.DL/3000K

Retail shop

BMW Italia Headquarters Milano
Italy

Architect : Franco Scaramuzza, Quoin Studio, Verona
Lighting Design : Piero Comparotto & Andrea Cristini, Arkilux, Verona
Photo Credits : Andrea Cristini, Arkilux, Verona

GRB-302W,303W+
GERS3130B
R-18(34W)MovingGyro/3000K

CINEMA XXI
Indonesia

GERD1052W
R-36(66W)fixed.DL/3000K

LA Gourme Florist Kuala Lumpur
Malaysia

ERS3002W
R5(11W)spotlight /3000K

Art of Scent Manila
Philippines

ERD1155S
R12(23W)fixed.DL /3000K

Maxvalu CDC Bangkok
Thailand

ERS3089B
R18(34W)spotlight /3000K
BLACK CUSTOM MADE

INDOOR LIGHT

Rs series

R Series

Conventional lamp ⟷ LED

Rs Series 1.3 to 1.5 times brighter at equivalent power consumption levels

LED ⟷ Conventional lamp

Equivalent to R-65

R Series (Conventional lamp)	Power consumption	R (LED)	Equivalent brightness	Rs (LED)	Power consumption	Rs Series (Conventional lamp)
HIE 250W	263W ➡ 70% lower	R-48	Equivalent to R-48	Rs-48	80% lower ⬅ 425W	HIE 400W
		78W	Equivalent brightness	84W		
HIE 150W	170W ➡ 66% lower	R-36	Equivalent to R-36	Rs-36	76% lower ⬅ 263W	HIE 250W
		58W	Equivalent brightness	63W		
TC-TEL 42W×2	90W ➡ 55% lower	R-30	Equivalent to R-30	Rs-30	69% lower ⬅ 170W	HIE 150W
		49W	Equivalent brightness	53W		
HIT 70W	80W ➡ 50% lower	R-24	Equivalent to R-24	Rs-24	53% lower ⬅ 90W	TC-TEL 42W×2
		40W	Equivalent brightness	43W		
HIT-TC 35W	45W ➡ 43% lower	R-18	Equivalent to R-18	Rs-18	59% lower ⬅ 80W	HIT 70W
TC-TEL 32W×2	70W ➡ 51% lower					
		30W	Equivalent brightness	33W		
HIT-PAR20 35W	45W ➡ 54% lower	R-12	Equivalent to R-12	Rs-12	50% lower ⬅ 45W	HIT-TC 35W
TC-DEL 26W×2	54W ➡ 62% lower				68% lower ⬅ 70W	TC-TEL 32W×2
		21W	Equivalent brightness	22.5W		
QR-CBC51 50W	50W ➡ 68% lower	R-9	Equivalent to R-9	Rs-9	62% lower ⬅ 45W	HIT-PAR20 35W
TC-TEL 32W×1	34W ➡ 53% lower					
TC-DEL 18W×2	40W ➡ 60% lower				68% lower ⬅ 54W	TC-DEL 26W×2
PAR38 120W	120W ➡ 80% lower					
		16W	Equivalent brightness	17.1W		
TC-TEL 26W×1	27W ➡ 53% lower	R-7	Equivalent to R-7	Rs-7	79% lower ⬅ 50W	QR-CBC51 50W
					59% lower ⬅ 34W	TC-TEL 32W×1
					65% lower ⬅ 40W	TC-DEL 18W×2
		12.7W (13.2W)	Equivalent brightness	14W	91% lower ⬅ 120W	PAR 120W
TC-DEL 18W×1	20W ➡ 55% lower	R-5	Equivalent to R-5	Rs-5	61% lower ⬅ 27W	TC-TEL 26W×1
QR-CBC51 35W	35W ➡ 75% lower					
		9W (9.7W)	Equivalent brightness	10.5W		
QR-CBC35 20W	20W ➡ 73% lower	R-3	Equivalent to R-3	Rs-3	65% lower ⬅ 20W	TC-DEL 18W×1
					80% lower ⬅ 35W	QR-CBC51 35W
		5.5W (6.5W)		7W		

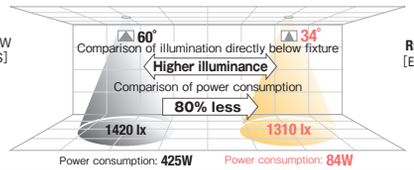
Values in parenthesis represent the power consumption of dimmable types at 100% illumination.

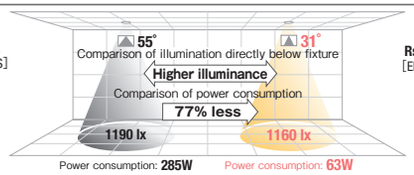
Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

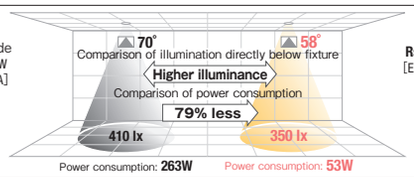
Brightness Comparison

Comparison of attenuation of luminous flux after 10,000 hours of operation under direct illuminance.(Illuminance on floor at ceiling height of 3,000 mm)
Note: Both calculations are our own.

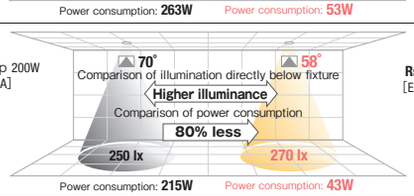
Conventional lamp ⟷ Rs Series

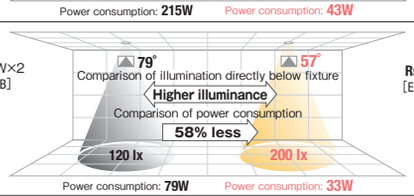


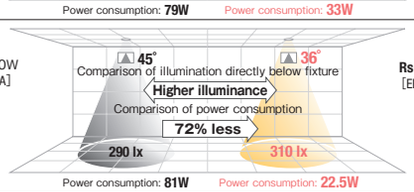


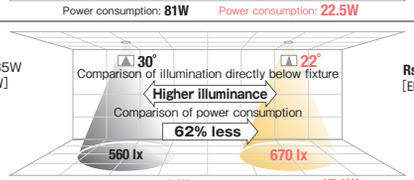


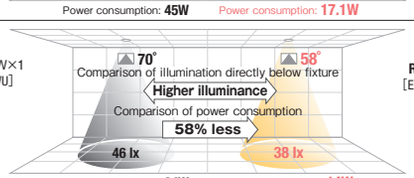
• Cost simulation shows comparison with Rs-30, although brightness (luminous flux) correlates to Rs-36.

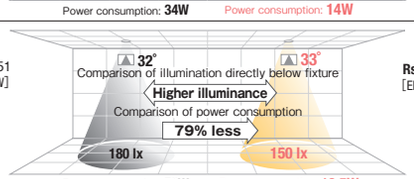


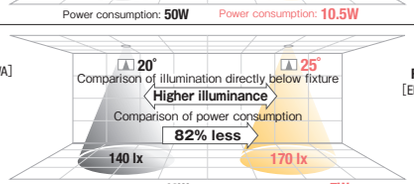










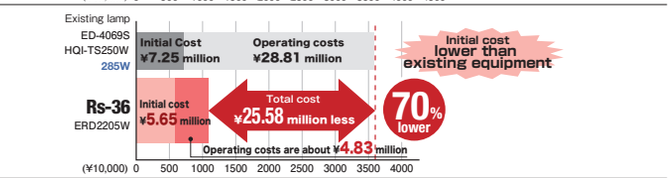


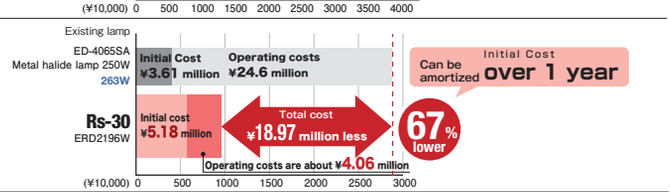
Cost simulation

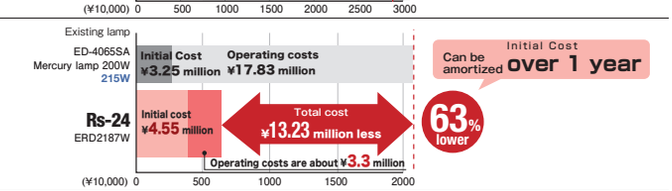
〈In case of Japan〉

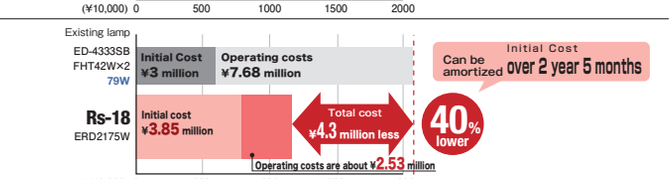
Assumptions:

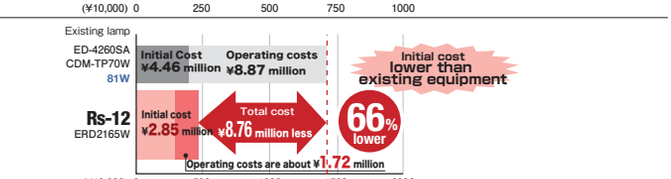
- 100 units in operation
- Time period: 10 hours × 365 days × 10 years = 36,500 hours
- Power cost ¥21/kWh (Excludes basic rate.)
- Initial cost: Purchase cost (fixtures + lamps + ballast, etc.). The cost is calculated without consideration for the amortization period.
- Operating costs: Electricity + replacement lamps

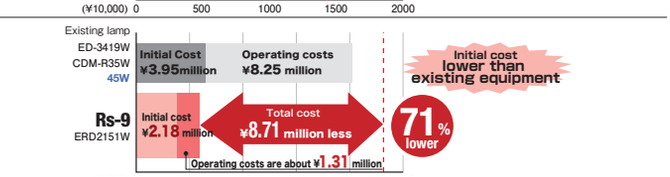


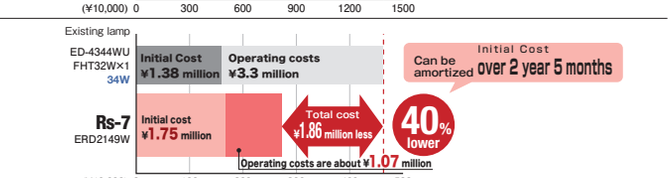


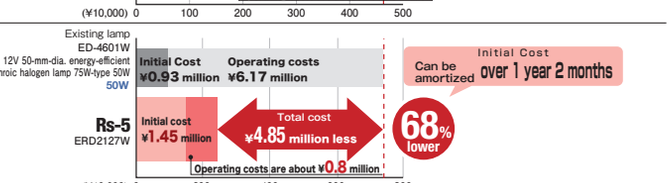


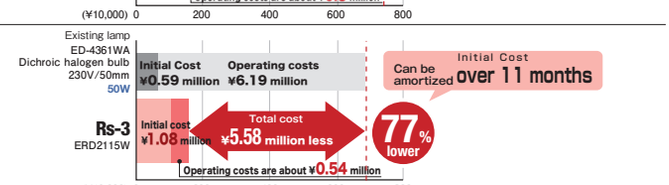












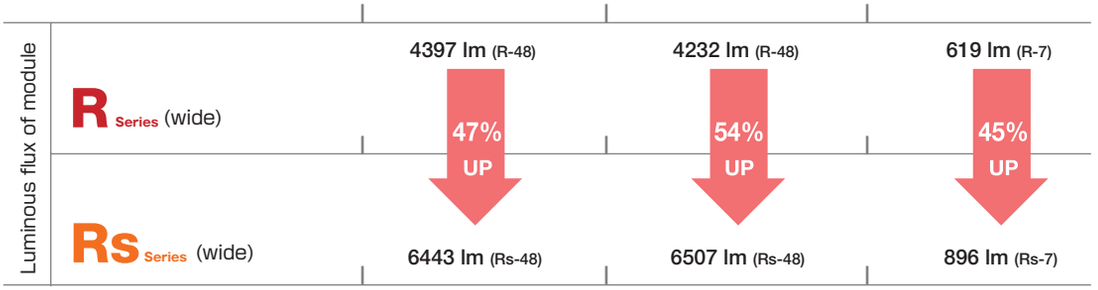
Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

Rs Series

1.3 to 1.5 times brighter with increased energy efficiency

The Rs Series provides a variety of color temperatures and 1.3 to 1.5 times greater brightness.

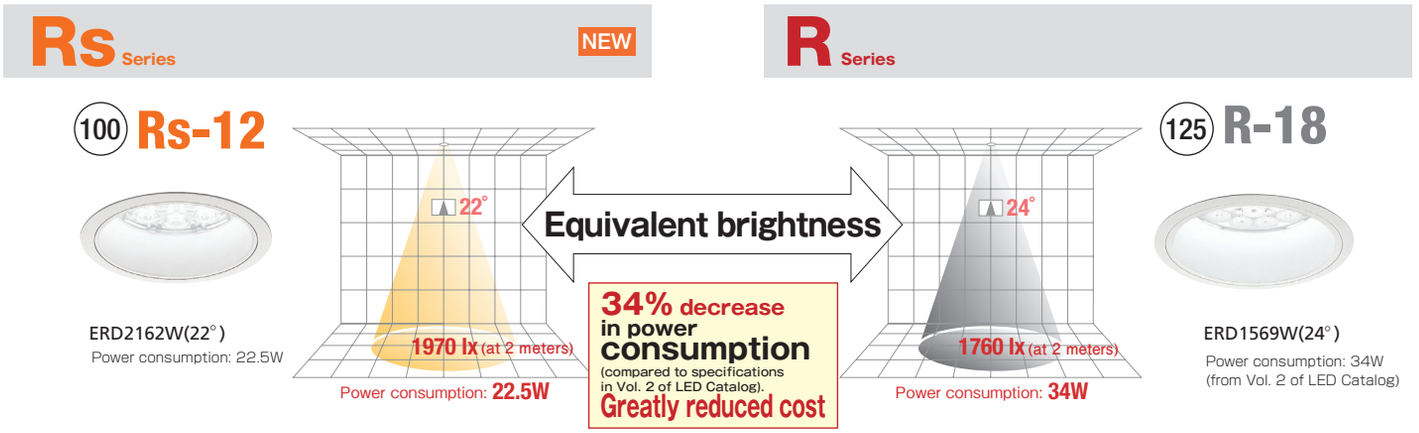
Rs Modules, part of the ENDO LEDZ flagship series, include a next-generation LED package developed with a combination of optical and thermal analysis techniques. Our high-performance R modules have now been further upgraded to provide 1.3 to 1.5 times greater brightness (luminous flux of the module) compared to the specifications R series.
Moreover, the 3000K and 2700K R modules offer a roughly 10% increase in luminous flux compared to the specifications R series.



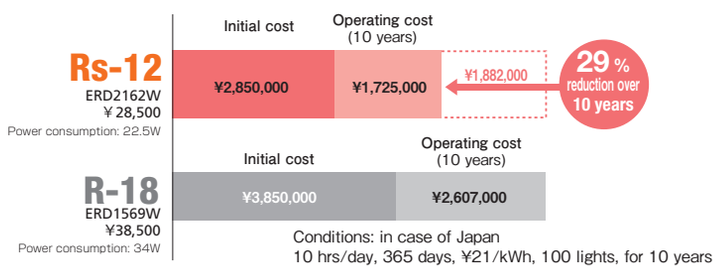
Notes:
• An increase in the luminous flux of the module can lead to a simple increase in average illumination.
• The luminous flux of the module and that of the fixture are different.

The Rs Series provides increased levels of brightness.

The Rs Series has achieved an even higher level of brightness — now 1.3 to 1.5 times greater. The initial cost and power consumption are significantly reduced as well. The result is high-power lighting from units featuring an even more compact design.



Comparison of cost simulations

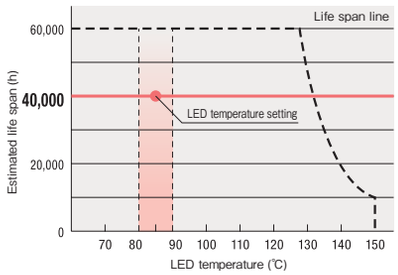


Conditions: in case of Japan
10 hrs/day, 365 days, ¥21/kWh, 100 lights, for 10 years

40,000-hour service life provides increased reliability.

A long service life is assured thanks to the ample operating margins we have designed into our products. This innovation also contributes to the increased overall reliability of our products.

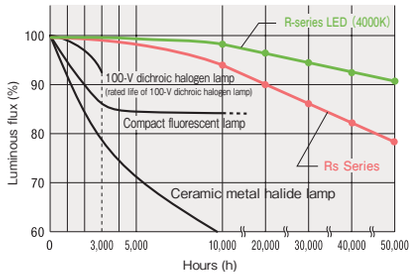
Relationship between LED temperature and service life



Reliability of luminous flux maintenance

R-series LEDs maintain their brightness throughout their service life and exhibit higher luminous flux maintenance ratio than conventional lamps.

Comparative data on luminous flux maintenance ratio

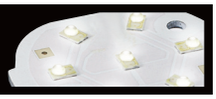


Replaceable modules are available as maintenance parts.

Our LED modules are replaceable. See p. 122 for a list of the modules available as maintenance parts.

Note: If an LED module or power supply unit fails to function within 5 years of purchase, we will replace it at no charge.
(This warranty applies to parts only; replacement labor is not included.)

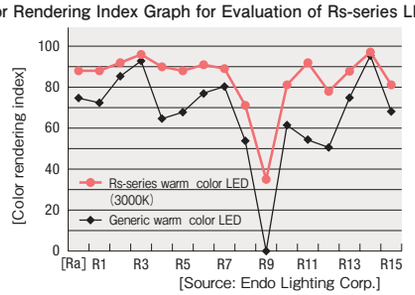
Ra 85+ + UV&IR Free



Excellent color rendering

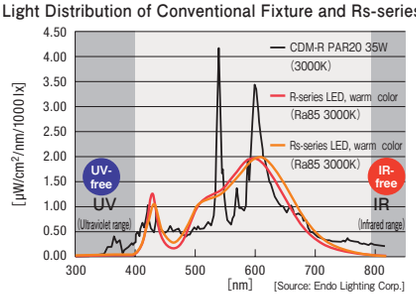
Endo uses LED chips with excellent color rendering properties that increase the color fidelity of the illuminated target object. When illuminating trees, plants, and other greenery, this light preserves the natural and distinct colors of the vegetation, and imparts less harmful infrared radiation.

Color Rendering Index Graph for Evaluation of Rs-series LEDs



[Source: Endo Lighting Corp.]

Comparison of Light Distribution of Conventional Fixture and Rs-series LED Modules

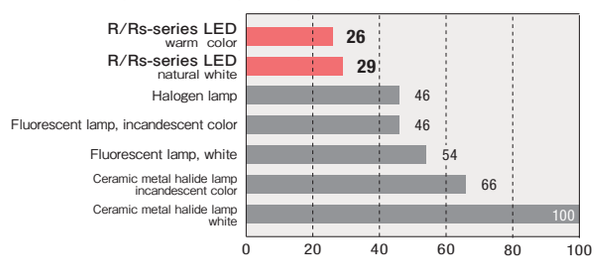


[Source: Endo Lighting Corp.]

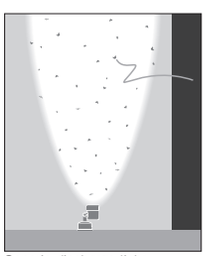
Insect Repellency

The reduced UV radiation emitted by these fixtures creates an insect-repelling effect.

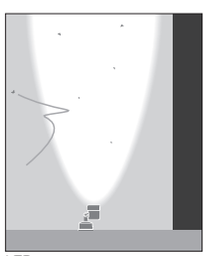
Graph of insect repellency ratio



※Note: The white value produced by a ceramic metal halide lamp is assigned an index value of 100.
(Source: Endo Lighting Corp.)



Generic discharge light



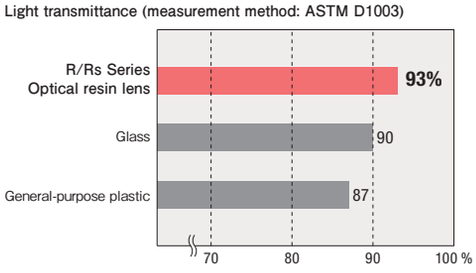
LED

optical LENS

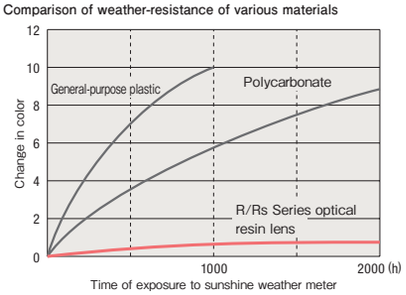
Features a highly weather-resistant lens

Designed for exposure to sunlight and general outdoor use, this optical lens incorporates a special weather-resistant plastic that also resists yellowing over time. As a result, it retains its original color and brightness throughout its long service life.

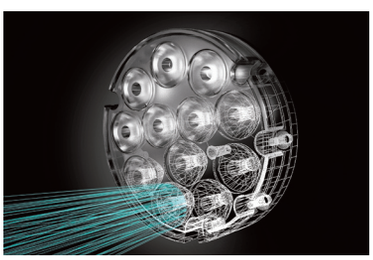
Light transmittance (measurement method: ASTM D1003)



Comparison of weather-resistance of various materials



Time of exposure to sunshine weather meter

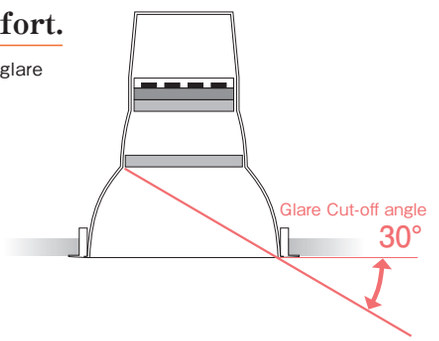


LED optical control lens

Rs series GLARE-LESS DOWN LIGHT

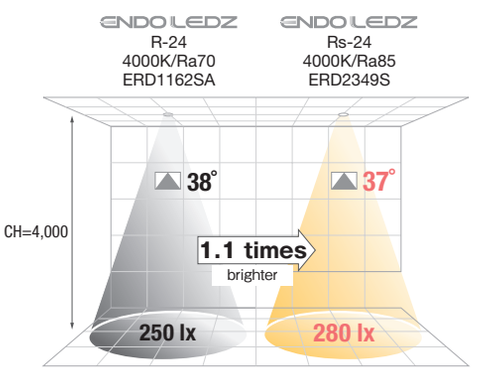
We design our fixtures for glare-free comfort.

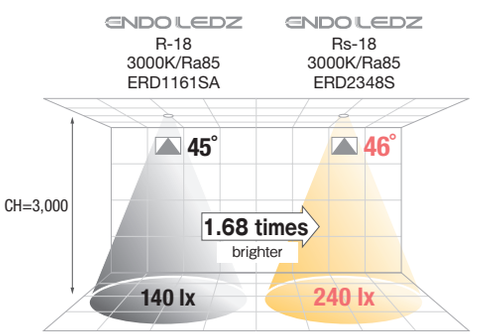
With a glare cut-off angle of 30°, this fixture eliminates unpleasant glare for a concealed appearance.



The Rs Series features increased brightness.

This series provides up to 1.6 times the brightness of the conventional R Series.

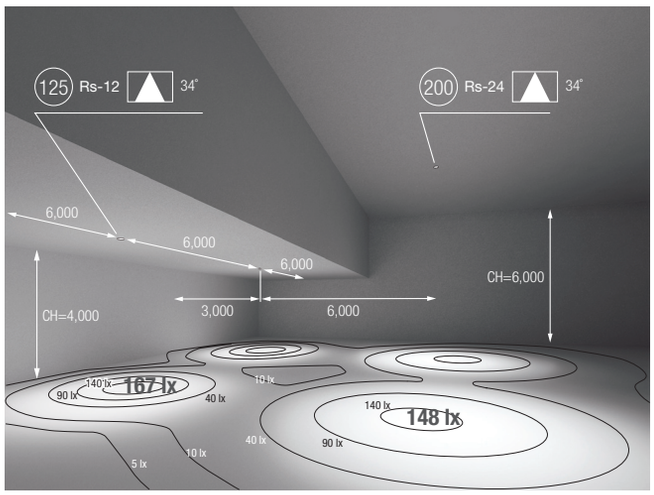




	Natural white 4000K/Ra85	Warm color 3000K/Ra85	Warm color 2700K/Ra85
(250) **Rs-36** ▶p.25	37° 49° Dimmable/Non-dimmable	–	–
(250) **Rs-30** ▶p.24	37° 49° Dimmable/Non-dimmable	37° 49° Dimmable/Non-dimmable	–
(200) **Rs-24** ▶p.23	37° 49° Dimmable/Non-dimmable	37° 49° Dimmable/Non-dimmable	–
(150) **Rs-18** ▶p.22	35° 46° Dimmable/Non-dimmable	35° 46° Dimmable/Non-dimmable	–
(125) **Rs-12** ▶p.21	34° 47° Dimmable/Non-dimmable	34° 47° Dimmable/Non-dimmable	–
(125) **Rs-9** ▶p.20	34° 47° Dimmable/Non-dimmable	34° 47° Dimmable/Non-dimmable	–
(100) **Rs-7** ▶p.19	20° 37° Dimmable/Non-dimmable	–	19° 35° Dimmable/Non-dimmable
(75) **Rs-5** ▶p.18	19° 35° Dimmable/Non-dimmable	–	20° 37° Dimmable/Non-dimmable

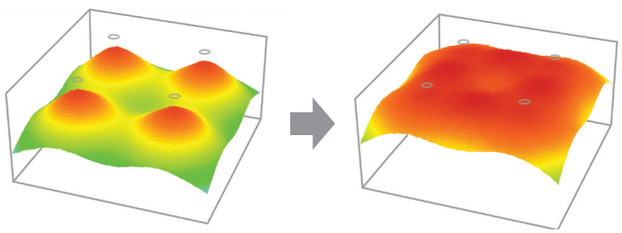
A wide selection of diameters and light distribution characteristics

We offer products with many different diameters, light intensities and light distribution characteristics for use in a wide range of interiors. This variety allows you to maintain the same brightness in interiors with different ceiling heights.



Uniform light distribution allows for uniform spatial representation

Our highly uniform Glare-less Fixed Downlight results from the incorporation of two types of lenses. In addition, the adoption of LED optical control lenses provides dual control with the goal of increased brightness, while the base light distribution control lens enhances light diffusion. The resulting flat, soft beam delivers beautifully blended gradations along its periphery.



Generic downlight

R-series Glare-less Fixed Downlight

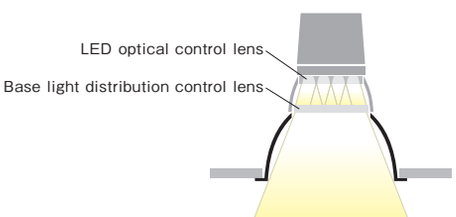
Dual control lenses provide a beautifully contoured beam

When only the cone is designed with substantial depth in order to provide a large glare cut-off angle, uneven lighting can result due to the characteristics of multiple LED lenses. The incorporation of a downlight distribution control lens softens any uneven lighting and eliminates any unappealing scallop effect in the illuminated area.

Glare-less Fixed Downlight with base light distribution control lens

Without downlight distribution control lens

LED optical control lens



We warrant our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement). For details, see p. 121.

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

Rs-5 (Equivalent to R-7 Module)

Equivalent to TC-TEL 26W

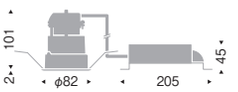
75 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 0.6 kg
Non-dimmable

Installation requires 140 mm
of unobstructed area above ceiling.



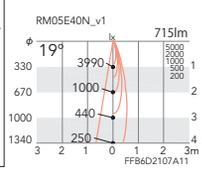
Non-dimmable

19° 35°

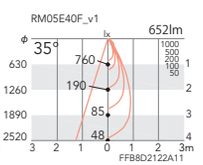
Natural white (4000K)

Ra 85

ERD2315S



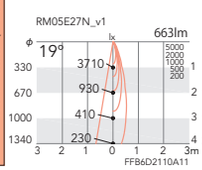
ERD2321S



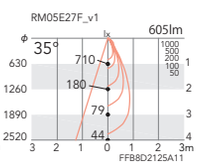
Warm color (2700K)

Ra 85

ERD2317S



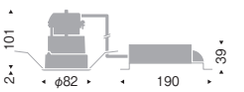
ERD2323S



Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
with connecting wire
Weight: 0.6 kg



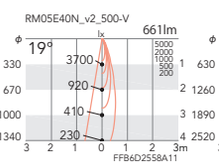
Dimmable

19° 35°

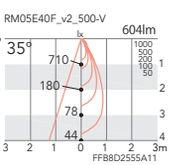
Natural white (4000K)

Ra 85

GERD2315S-V-T



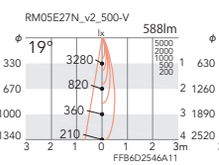
GERD2321S-V-T



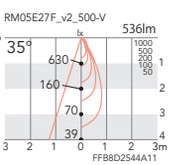
Warm color (2700K)

Ra 85

GERD2317S-V-T



GERD2323S-V-T



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

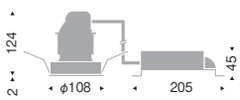
Rs-7 (Equivalent to R-9 Module)

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 0.7 kg
Non-dimmable



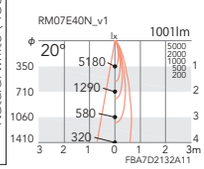
Non-dimmable

20° 37°

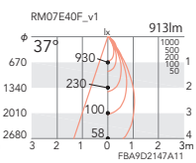
Natural white (4000K)

Ra 85

ERD2324S



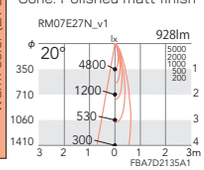
ERD2330S



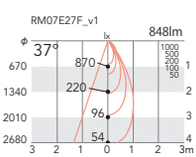
Warm color (2700K)

Ra 85

ERD2326S
Cone: Polished matt finish



ERD2332S
Cone: Polished matt finish



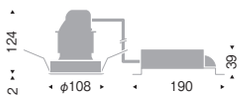
Equivalent to QR-CBC51 50W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
with connecting wire
Weight: 0.7 kg



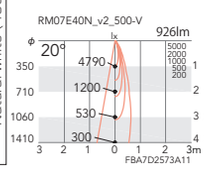
Dimmable

20° 37°

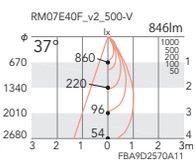
Natural white (4000K)

Ra 85

GERD2324S-V-T



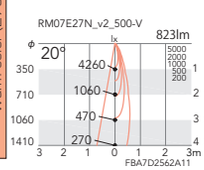
GERD2330S-V-T



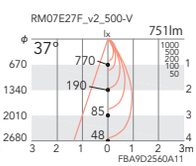
Warm color (2700K)

Ra 85

GERD2326S-V-T



GERD2332S-V-T



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs-9 (Equivalent to R-12 Module)

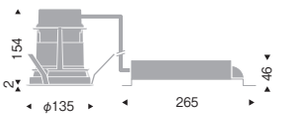
Equivalent to TC-DEL 26W×2

125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 1.0 kg
Non-dimmable



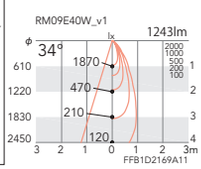
Non-dimmable

34° 47°

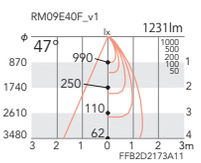
Natural white (4000K)

Ra 85

ERD2335S



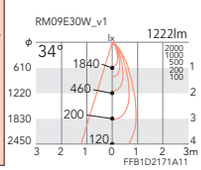
ERD2337S



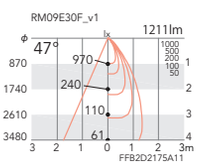
Warm color (3000K)

Ra 85

ERD2336S



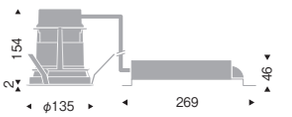
ERD2338S



Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
with connecting wire
Weight: 1.2 kg



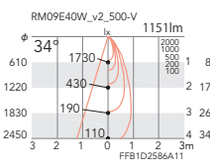
Dimmable

34° 47°

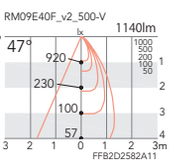
Natural white (4000K)

Ra 85

GERD2335S-V-T



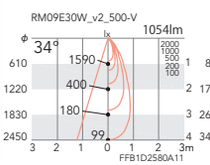
GERD2337S-V-T



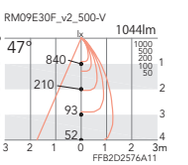
Warm color (3000K)

Ra 85

GERD2336S-V-T



GERD2338S-V-T



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

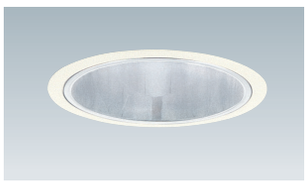
▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs-12 (Equivalent to R-18 Module)

Equivalent to TC-TEL 32W×2

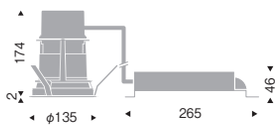
125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending



Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 1.2 kg
Non-dimmable



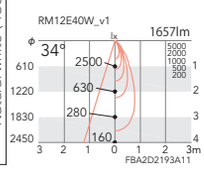
Non-dimmable

34° 47°

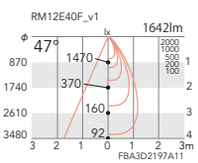
Natural white (4000K)

Ra 85

ERD2341S



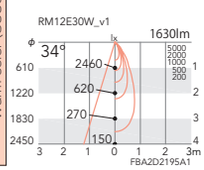
ERD2343S



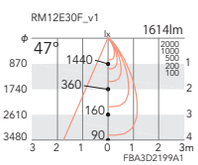
Warm color (3000K)

Ra 85

ERD2342S



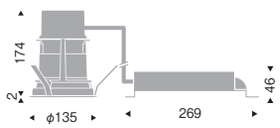
ERD2344S



Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
with connecting wire
Weight: 1.4 kg



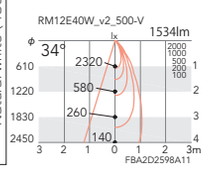
Dimmable

34° 47°

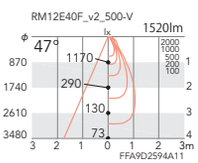
Natural white (4000K)

Ra 85

GERD2341S-V-T



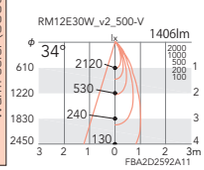
GERD2343S-V-T



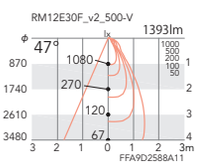
Warm color (3000K)

Ra 85

GERD2342S-V-T



GERD2344S-V-T



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs-18 (Equivalent to R-24 Module)

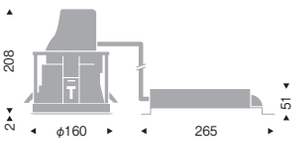
Equivalent to HIT 70W

150 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with driver
Frame: Die-cast aluminum (matte white)
Cone: Die-cast aluminum (polished matte finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 2.2 kg
Non-dimmable



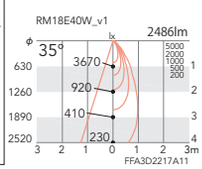
■ Non-dimmable

35° 46°

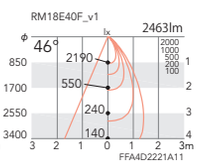
Natural white (4000K)

Ra 85

ERD2345S



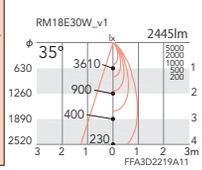
ERD2347S



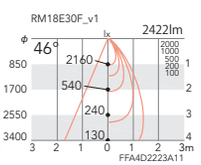
Warm color (3000K)

Ra 85

ERD2346S



ERD2348S



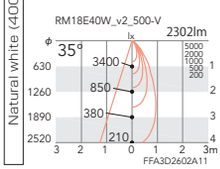
■ Dimmable

35° 46°

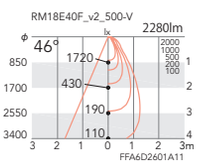
Natural white (4000K)

Ra 85

GERD2345S-V-T



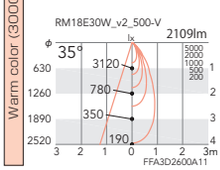
GERD2347S-V-T



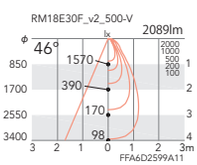
Warm color (3000K)

Ra 85

GERD2346S-V-T



GERD2348S-V-T



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

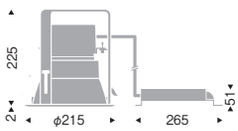
Rs-24 (Equivalent to R-30 Module)

200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with driver
Frame: Die-cast aluminum (matte white)
Cone: Die-cast aluminum (polished matte finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 2.8 kg (fixture only: 2.2 kg)
Non-dimmable



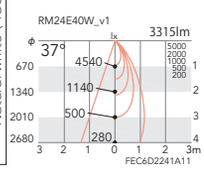
Non-dimmable

37° 49°

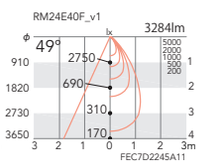
Natural white (4000K)

Ra 85

ERD2349S



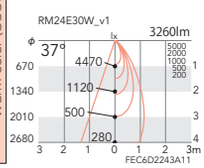
ERD2351S



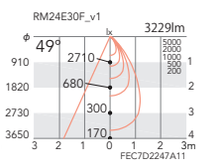
Warm color (3000K)

Ra 85

ERD2350S



ERD2352S



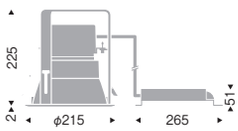
Equivalent to TC-TEL 42W×2

200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with driver
Frame: Die-cast aluminum (matte white)
Cone: Die-cast aluminum (polished matte finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
with connecting wire
Weight: 2.8 kg (fixture only: 2.2 kg)



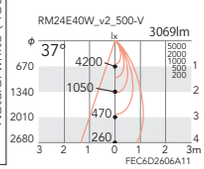
Dimmable

37° 49°

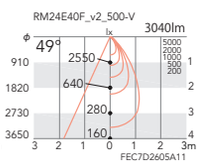
Natural white (4000K)

Ra 85

GERD2349S-V-T



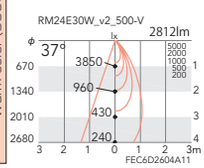
GERD2351S-V-T



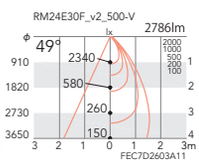
Warm color (3000K)

Ra 85

GERD2350S-V-T



GERD2352S-V-T



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

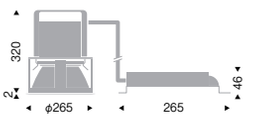
Rs-30 (Equivalent to R-36 Module)

Equivalent to HIE 150W

250 | Voltage range 100-242 | Glare Cut-off 30° | ø250 | Rated service life of LED: 40,000 hours

Rs-30 LED module
Power consumption: 56W

with driver
Frame: Die-cast aluminium, white (matt finish)
Cone: Die-cast aluminium (pure aluminium evaporation, matt finish)
Glass: Clear hard glass
Power supply unit packed separately.
For installation only with product-specific mounting bolts
Weight: 5.5 kg



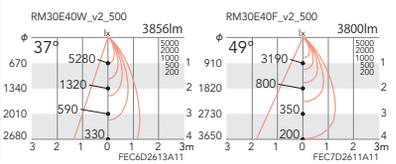
Non-dimmable

37° 49°

Natural white (4000K)

Ra 85

GERD3117S-T

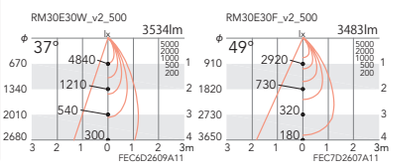


GERD3119S-T

Warm color (3000K)

Ra 85

GERD3118S-T

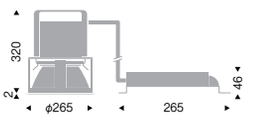


GERD3120S-T

150 | Dimmable | Voltage range 100-242 | Glare Cut-off 30° | ø250 | Rated service life of LED: 40,000 hours

Rs-30 LED module
Power consumption: 56W

with driver
Frame: Die-cast aluminium, white (matt finish)
Cone: Die-cast aluminium (pure aluminium evaporation, matt finish)
Glass: Clear hard glass
Power supply unit packed separately.
with connecting wire
Weight: 5.5 kg



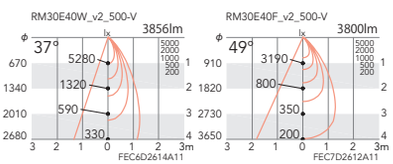
Dimmable

37° 49°

Natural white (4000K)

Ra 85

GERD3123S-V-T

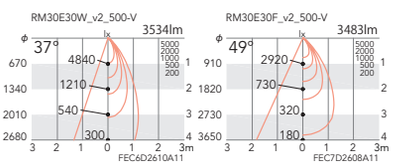


GERD3125S-V-T

Warm color (3000K)

Ra 85

GERD3126S-V-T



GERD3124S-V-T

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

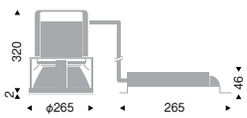
Rs-36 (Equivalent to R-48 Module)

Equivalent to HIE 250W

250 | Voltage range 100-242 | Glare Cut-off 30° | Ø250 | Rated service life of LED: 40,000 hours

Rs-36 LED module
Power consumption: 66W

with driver
Frame: Die-cast aluminium, white (matt finish)
Cone: Die-cast aluminium (pure aluminium evaporation, matt finish)
Glass: Clear hard glass
Power supply unit packed separately.
Weight: 5.5 kg



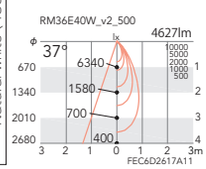
Non-dimmable

37° 49°

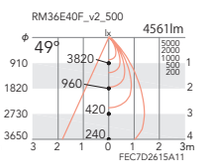
Natural white (4000K)

Ra 85

GERD3121S-T



GERD3122S-T



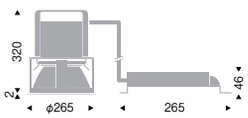
Warm color (3000K)

Dimmable

250 | Dimmable | Voltage range 100-242 | Glare Cut-off 30° | Ø250 | Rated service life of LED: 40,000 hours

Rs-36 LED module
Power consumption: 66W

with driver
Frame: Die-cast aluminium, white (matt finish)
Cone: Die-cast aluminium (pure aluminium evaporation, matt finish)
Glass: Clear hard glass
Power supply unit packed separately.
with connecting wire
Weight: 5.5 kg



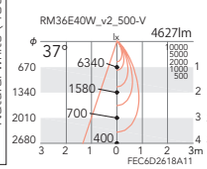
Dimmable

37° 49°

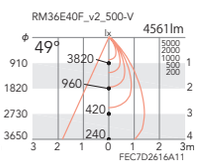
Natural white (4000K)

Ra 85

GERD3127S-V-T



GERD3128S-V-T

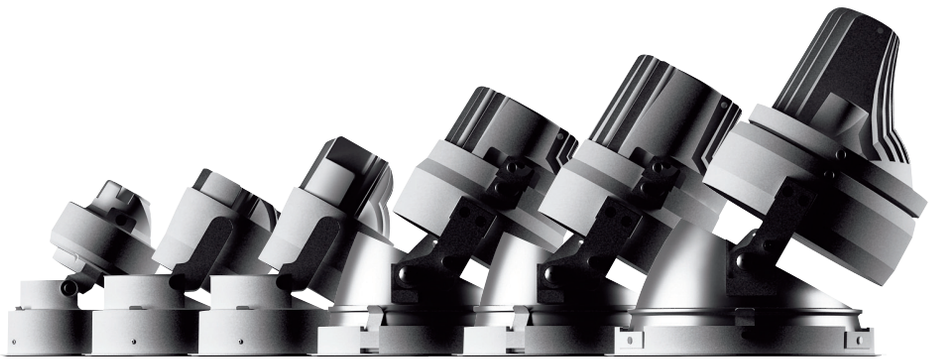


Warm color (3000K)

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs series GLARE-LESS DOWN LIGHT

GLARE-LESS ADJUSTABLE



Rs-3 (75) Rs-5 (100) Rs-7 (100) Rs-9 (125) Rs-12 (125) Rs-18 (150)

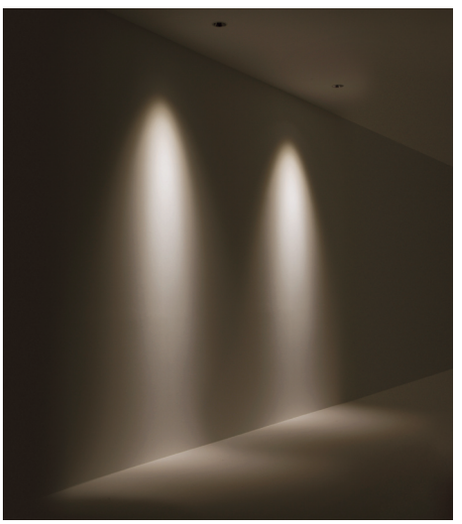
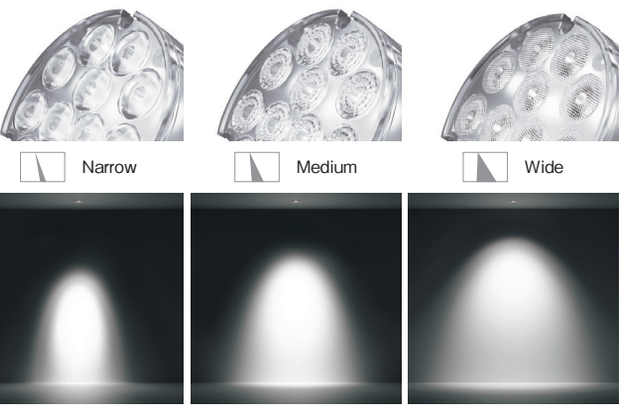


Photo enhanced

These adjustable downlights are very effective at controlling glare.

We offer a choice of two finishes for the cone — polished or white — as well as a wide selection of diameters and light distribution arrangements.



Narrow Medium Wide

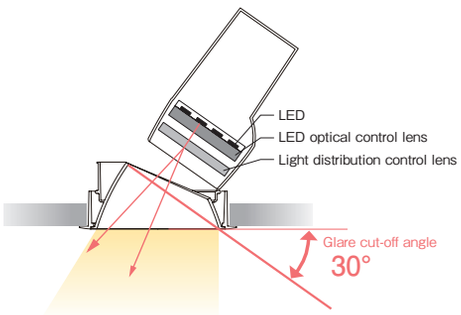
		Narrow			Medium			Wide			
		○ Natural white (4000K)	○ Warm color (3000K)	● Warm color (2700K)	○ Natural white (4000K)	○ Warm color (3000K)	● Warm color (2700K)	○ Natural white (4000K)	○ Warm color (3000K)	● Warm color (2700K)	
75	Rs-3	—	—	●ERD2272S	—	—	●ERD2275S	—	—	●ERD2278S	▶ P.28
100	Rs-5	—	—	●ERD2281S	—	—	●ERD2284S	—	—	●ERD2287S	▶ P.28
	Rs-7	—	—	●ERD2290S	—	—	●ERD2293S	—	—	●ERD2296S	▶ P.29
125	Rs-9	○ERD2297S	●ERD2298S	—	○ERD2299S	●ERD2300S	—	○ERD2301S	●ERD2302S	—	▶ P.29
	Rs-12	○ERD2303S	●ERD2304S	—	○ERD2305S	●ERD2306S	—	○ERD2307S	●ERD2308S	—	▶ P.30
150	Rs-18	○ERD2309S	●ERD2310S	—	○ERD2311S	●ERD2312S	—	○ERD2313S	●ERD2314S	—	▶ P.31

All modules are also available in a dimmable type.

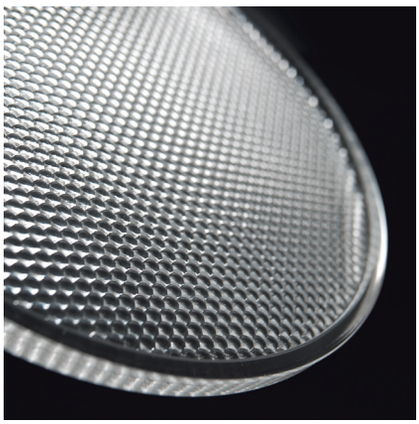
Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Achieve the presentation you envision with the ideal choice of illumination.

In addition to featuring dual lenses that produce light with softly contoured edges, these lights also adopt a hood and glare-less cone to control unneeded light. Choose the model that allows you to create the desired light presentation while providing attractive light distribution.

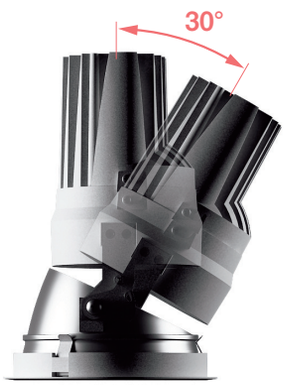


LED optical control lens

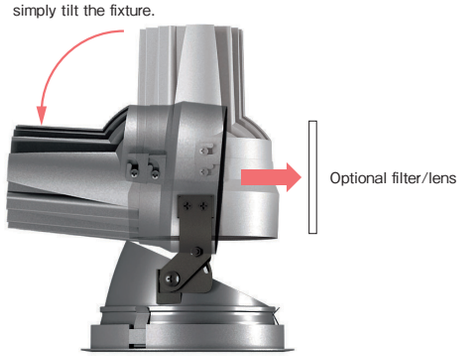

Light distribution control lens

The tilt angle range of 0° to 30° further increases functionality.

Our design provides a tilt angle range of 0° to 30° to accommodate the various forms of light presentation needed for different spaces.
For greater versatility and improved operation, an optional filter can be mounted.



To install an optional item, simply tilt the fixture.



OPTION

		75 *	100	125	150
Filter holder		B-776B	—	—	—
Color filter	Sky blue	B-755A	B-916A	B-919A	—
	Night blue	B-756A	B-917A	B-920A	—
	Amber	B-756U	B-917U	B-920U	—
	Red	B-756R	B-917R	B-920R	—
Spread lens		B-759F	B-918F	B-921F	—
Diffusion lens		RB-369F	RB-370F	RB-371F	—

* To mount filters or lenses on fixtures with a mounting hole diameter of 75 mm, use a filter holder.

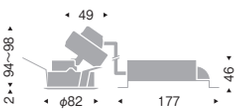
The colors and brightness depicted in this simulation are for explanatory purposes only and may differ from actual product specifications.

Rs-3 (Equivalent to R-5 Module) → Equivalent to QRCB51 35W

75 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | 35° | 355° | Rated service life of LED: 40,000 hours

Rs-3 LED Module included
Power consumption: 7W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium(polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 0.5kg
Non-dimmable



■ Non-dimmable

19° 26° 31°

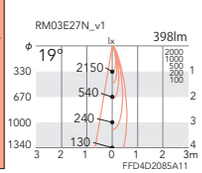
Natural white (4000K)

Warm color (3000K)

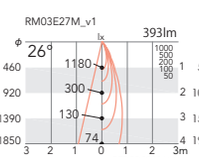
Warm color (2700K)

Ra 85

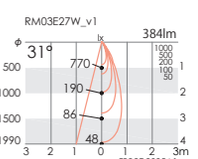
ERD2272S



ERD2275S



ERD2278S



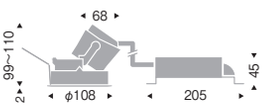
Rs-5 (Equivalent to R-7 Module) → Equivalent to QRCBC51 50W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | 35° | 355° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium(polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 0.7kg
Non-dimmable



■ Non-dimmable

19° 26° 31°

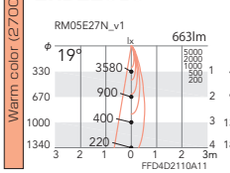
Natural white (4000K)

Warm color (3000K)

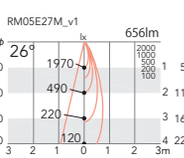
Warm color (2700K)

Ra 85

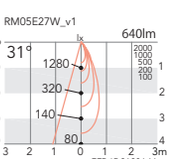
ERD2281S



ERD2284S



ERD2287S



OPTION

Diffusion lens
RB-369F

Spread lens
B-759F
Tempered clear glass
We recommend this lens be used in combination with the narrow-angle light distribution type.

Color filters
B-756A(Night blue)
B-755A(Sky blue)
B-756R(Red)
B-756U(Amber)
Tempered glass

Filter Holder
B-776B
Black

OPTION

Diffusion lens
RB-370F

Spread lens
B-918F
Tempered clear glass
We recommend this lens be used in combination with the narrow-angle light distribution type.

Color filters
B-917A(Night blue)
B-916A(Sky blue)
B-917R(Red)
B-917U(Amber)
Tempered glass

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

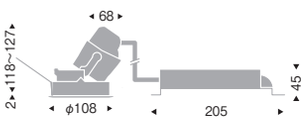
Rs-7 (Equivalent to R-9 Module) ⟶ Equivalent to PAR38 120W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 30° | 35° | 355° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium(polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 0.7kg
Non-dimmable



■ Non-dimmable

20° 25° 31°

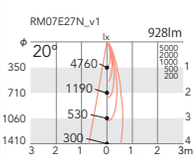
Natural white (4000K)

Warm color (3000K)

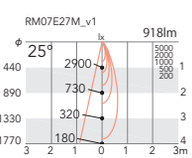
Warm color (2700K)

Ra 85

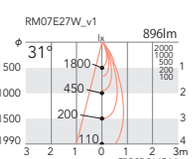
ERD2290S



ERD2293S



ERD2296S



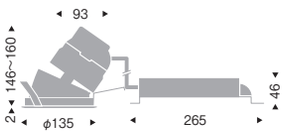
Rs-9 (Equivalent to R-12 Module) ⟶ Equivalent to HIT-PAR20 35W

125 | Eco Energy-Efficient | V Free 100-242 | Glare Cut-off 20° | 35° | 355° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 1.2kg
Non-dimmable



■ Non-dimmable

15° 23° 34°

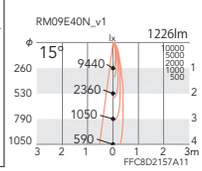
Natural white (4000K)

Warm color (3000K)

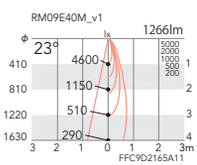
Warm color (2700K)

Ra 85

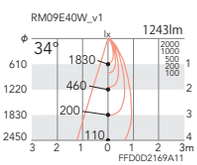
ERD2297S



ERD2299S

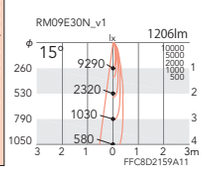


ERD2301S

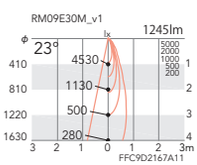


Ra 85

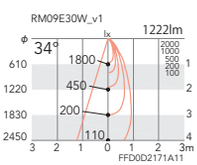
ERD2298S



ERD2300S



ERD2302S



OPTION

Diffusion lens
RB-371F

Spread lens
B-921F
Tempered clear glass
We recommend this lens be used in combination with the narrow-angle light distribution type.

Color filters
B-920A(Night blue)
B-919A(Sky blue)
B-920R(Red)
B-920U(Amber)
Tempered glass

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

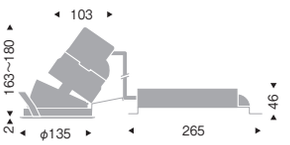
Rs-12 (Equivalent to R-18 Module) ⟶ Equivalent to HIT-TC 35W lamps

125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut 30° | 35° | 355° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium(polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 1.3 kg
Non-dimmable



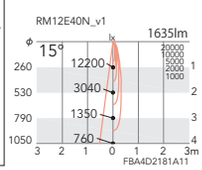
Non-dimmable

15° 23° 34°

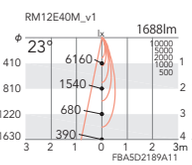
Natural white (4000K)

Ra 85

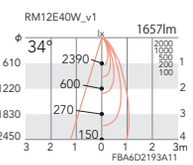
ERD2303S



ERD2305S



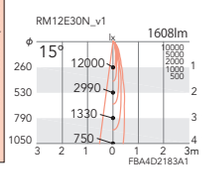
ERD2307S



Warm color (3000K)

Ra 85

ERD2304S



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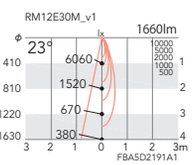

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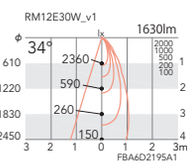


OPTION

Diffusion lens
RB-371F

Spread lens
B-921F
Tempered clear glass
We recommend this lens be used in combination with the narrow-angle light distribution type.

Color filters
B-920A(Night blue)
B-919A(Sky blue)
B-920R(Red)
B-920U(Amber)
Tempered glass

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

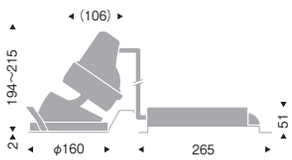
Rs-18 (Equivalent to R-24 Module) Equivalent to HIT 70W lamps

150 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut 30° | 35° | 355° | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium(polished matt finish)
Light distribution control lens: Frosted plastic
Power supply unit packed separately.
Weight: 1.9 kg
Non-dimmable



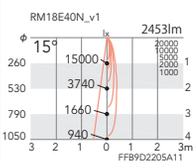
■ Non-dimmable

15° 24° 34°

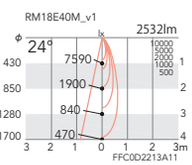
Natural white (4000K)

Ra 85

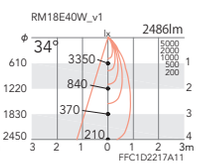
ERD2309S



ERD2311S



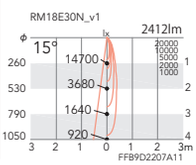
ERD2313S



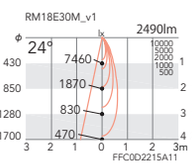
Warm color (3000K)

Ra 85

ERD2310S



ERD2312S



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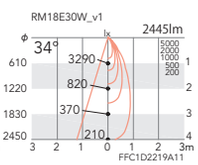
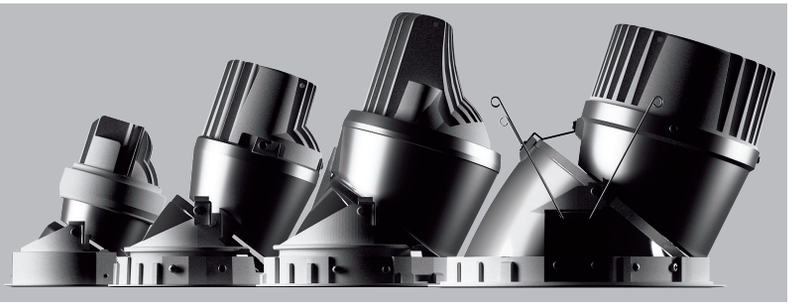
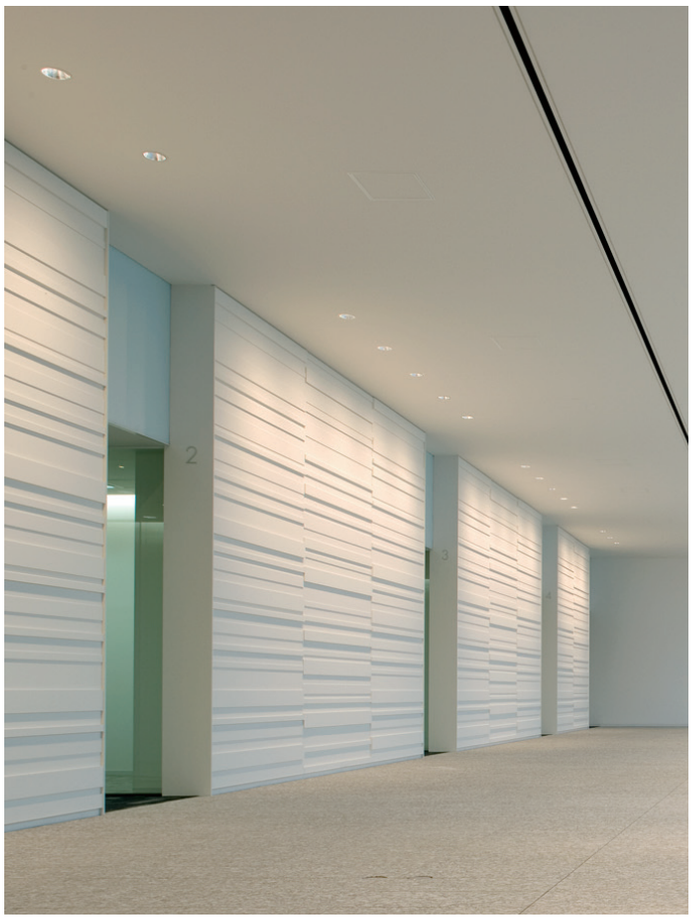


▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs series GLARE-LESS DOWN LIGHT

Glare-less Wall Washer Downlight





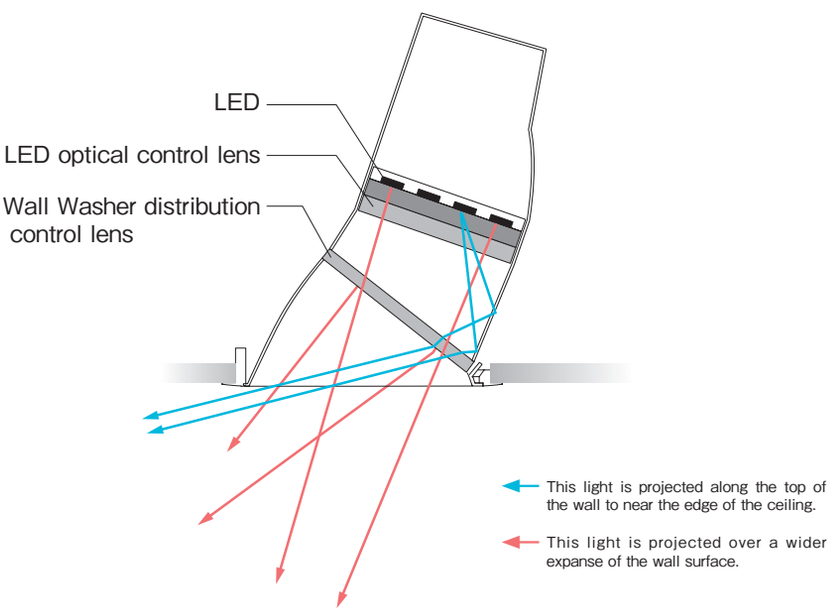
Simulated image

For comfortable architectural spaces

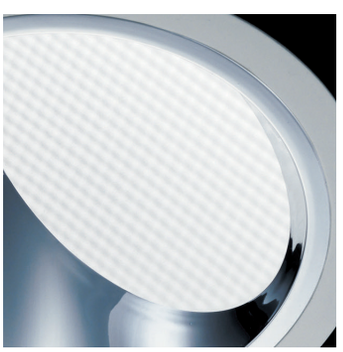
The Glare-less Wall Washer Series allows you to illuminate walls in a beautifully flat manner. These fixtures produce a very comfortable illuminated environment. With a product line that includes daylight 5000K (Rs-24) lamps and dimmable (Rs-7) lamps, you can select the optimal light for every application.

Designed with an emphasis on uniformity

The exceptionally uniform light distribution of the Glare-less Downlight series is achieved with dual lenses that provide advanced control. Compared to conventional wall light distribution that focuses attention on subjects to emphasize specific visual points, our Glare-less Downlights enable you to showcase the expressiveness and scale of your walls in their totality.



LED optical control lens

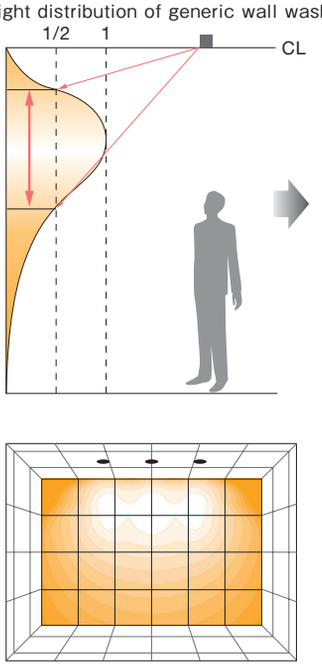


Wall Washer distribution control lens

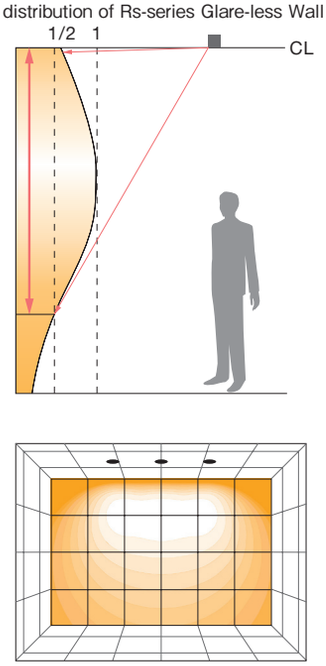
Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

■Light distribution of generic wall washer



■Light distribution of Rs-series Glare-less Wall Washer



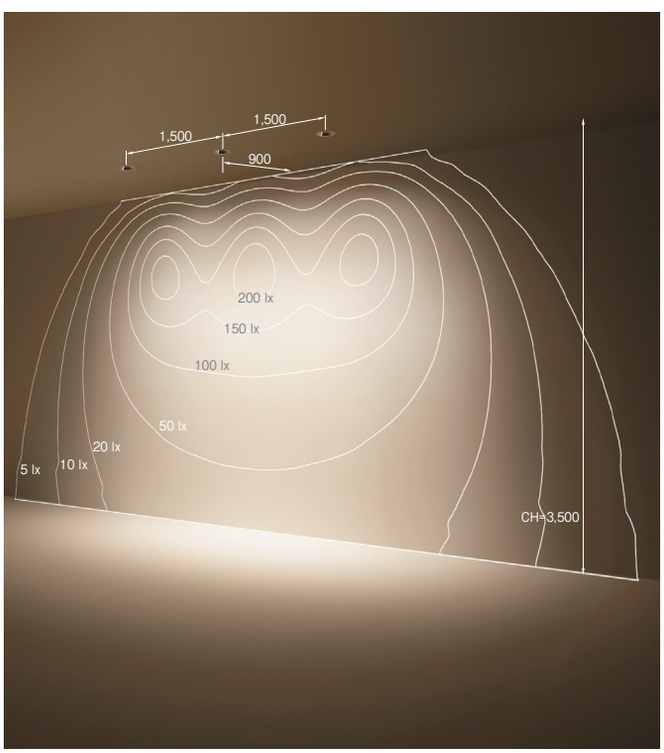


Illustration of light distribution provided with three Rs-12 Wall Washer lamps

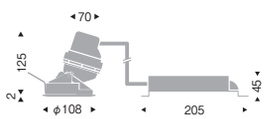
Rs-7 (Equivalent to R-9 Module)
Equivalent to TC-TEL 32W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 35° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Safety glass : Frosted hard glass
Power supply unit packed separately.
Weight: 0.8 kg
Non-dimmable



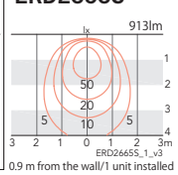
■ Non-dimmable

WW

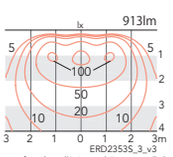
Natural white (4000K)

Ra 85

ERD2353S



0.9 m from the wall/1 unit installed

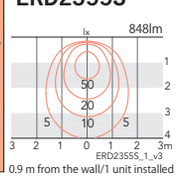


0.9 m from the wall/1.2 m pitch/3 units installed

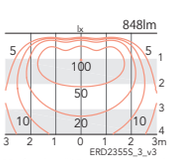
Warm color (2700K)

Ra 85

ERD2355S



0.9 m from the wall/1 unit installed



0.9 m from the wall/1.2 m pitch/3 units installed

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

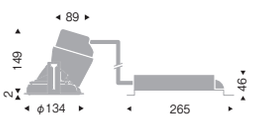
Rs-9 (Equivalent to R-12 Module)
Equivalent to TC-DEL 26W×2

125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Safety glass : Frosted hard glass
Power supply unit packed separately.
Weight: 1.3 kg
Non-dimmable



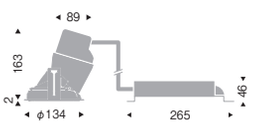
Rs-12 (Equivalent to R-18 Module)
Equivalent to TC-TEL 32W×2

125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Safety glass : Frosted hard glass
Power supply unit packed separately.
Weight: 1.3 kg
Non-dimmable



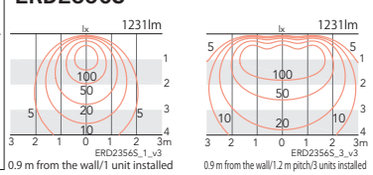
Non-dimmable

WW

Natural white (4000K)

Ra 85

ERD2356S

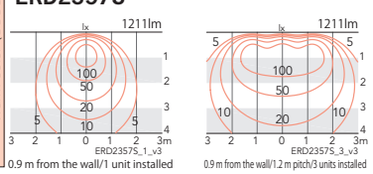


0.9 m from the wall/1 unit installed
0.9 m from the wall/1.2 m pitch/3 units installed

Warm color (3000K)

Ra 85

ERD2357S



0.9 m from the wall/1 unit installed
0.9 m from the wall/1.2 m pitch/3 units installed

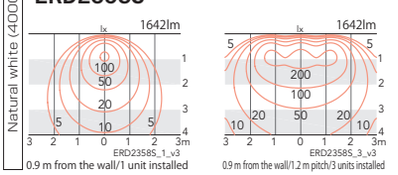
Non-dimmable

WW

Natural white (4000K)

Ra 85

ERD2358S

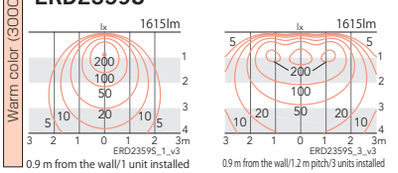


0.9 m from the wall/1 unit installed
0.9 m from the wall/1.2 m pitch/3 units installed

Warm color (3000K)

Ra 85

ERD2359S



0.9 m from the wall/1 unit installed
0.9 m from the wall/1.2 m pitch/3 units installed

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

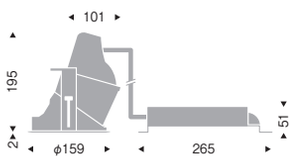
Rs-18 (Equivalent to R-24 Module)
Equivalent to HIT 70W

150 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Safety glass : Frosted hard glass
Power supply unit packed separately.
Weight: 2.1 kg
Non-dimmable



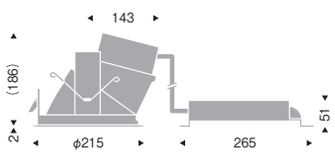
Rs-24 (Equivalent to R-30 Module)
Equivalent to TC-TEL 42W×2

200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Safety glass : Frosted hard glass
Power supply unit packed separately.
Weight: 2.5 kg
Non-dimmable



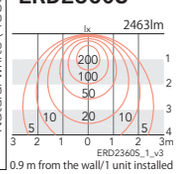
Non-dimmable

WW

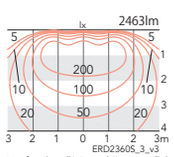
Natural white (4000K)

Ra 85

ERD2360S



0.9 m from the wall/1 unit installed

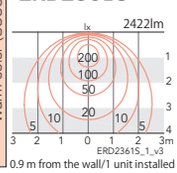


0.9 m from the wall/1.2 m pitch/3 units installed

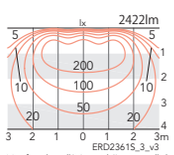
Warm color (3000K)

Ra 85

ERD2361S



0.9 m from the wall/1 unit installed



0.9 m from the wall/1.2 m pitch/3 units installed

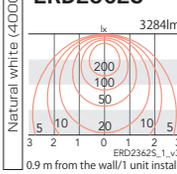
Non-dimmable

WW

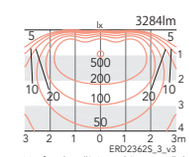
Natural white (4000K)

Ra 85

ERD2362S



0.9 m from the wall/1 unit installed

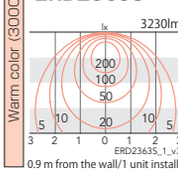


0.9 m from the wall/1.2 m pitch/3 units installed

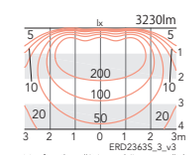
Warm color (3000K)

Ra 85

ERD2363S



0.9 m from the wall/1 unit installed



0.9 m from the wall/1.2 m pitch/3 units installed

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs series CONIC PIN-HOLE DOWN LIGHT

Conic Pin-hole Downlight

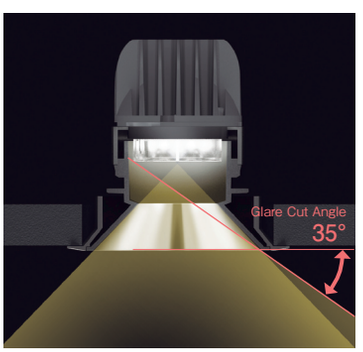
Softer lighting for more appealing interiors

The Conic Pinhole Downlight is a glare-less downlight incorporating a polished cone for enhanced control of light distribution. You can create a softer space with fixtures that strikingly highlight only the desired subjects while remaining unobtrusive.

Photo enhanced for clarity

Glare cut-off angle of 35°

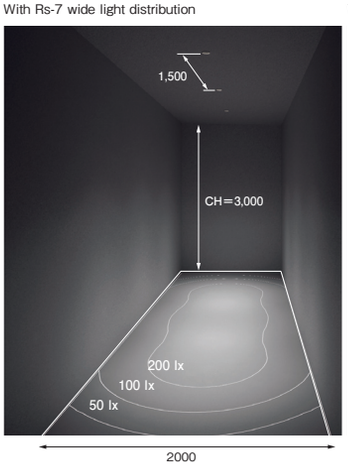
With precise glare-less cones incorporating a glare cut angle of 35°, these unobtrusive fixtures create a pleasant space while eliminating uncomfortable glare.



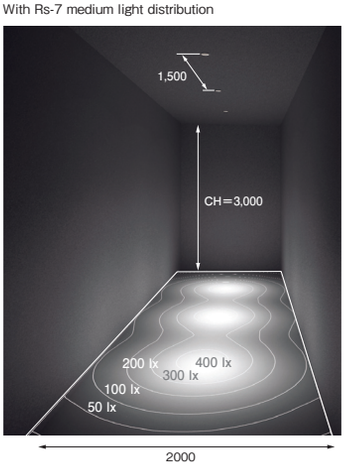
Two approaches to light distribution

We offer two choices of light distribution to meet a multitude of plans and interiors. These lights provide a variety of ways to produce beautiful glare-less spaces.

With Rs-7 wide light distribution



With Rs-7 medium light distribution

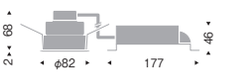


Rs-3 (Equivalent to R-3 Module) ⟷ Equivalent to QR-CBC51 35W

75 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 35° | Rated service life of LED: 40,000 hours

Rs-3 LED Module included
Power consumption: 7W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Frosted acrylic
Power supply unit packed separately.
Weight: 0.6 kg



Installation requires 90 mm of unobstructed area above ceiling.

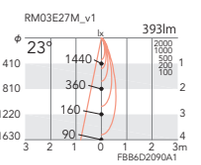
Non-dimmable

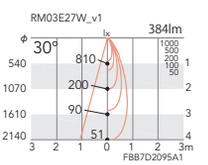
ERD2366S
Warm color (2700K)

ERD2369S
Warm color (2700K)

23° 30°

Warm color (2700K) Ra 85





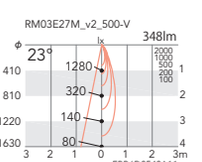
Dimmable

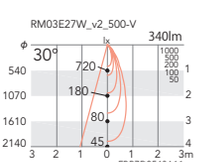
GERD2366S-V-T
Warm color (2700K)

GERD2369S-V-T
Warm color (2700K)

23° 30°

Warm color (2700K) Ra 85





▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

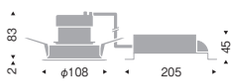
Rs-5 (Equivalent to R-7 Module) → Equivalent to TC-TEL 26W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 35° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Frosted acrylic
Power supply unit packed separately.
Weight: 0.6 kg



Installation requires 100 mm of unobstructed area above ceiling.

Non-dimmable

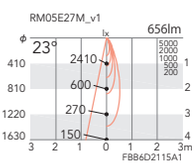
ERD2372S
Warm color (2700K)

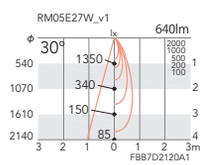
ERD2375S
Warm color (2700K)

23° 30°

Ra 85

Warm color (2700K)





Dimmable

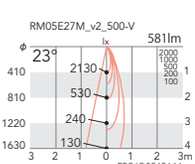
GERD2372S-V-T
Warm color (2700K)

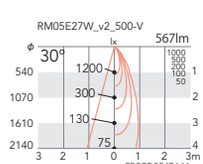
GERD2375S-V-T
Warm color (2700K)

23° 30°

Ra 85

Warm color (2700K)





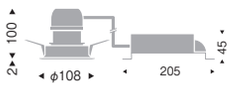
Rs-7 (Equivalent to R-9 Module) → Equivalent to QR-CBC51 50W

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 35° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (polished matt finish)
Power supply unit packed separately.
Weight: 0.7kg



Non-dimmable

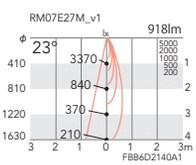
ERD2378S
Warm color (2700K)

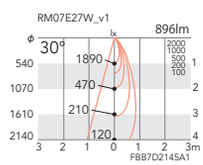
ERD2381S
Warm color (2700K)

23° 30°

Ra 85

Warm color (2700K)





Dimmable

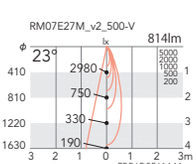
GERD2378S-V-T
Warm color (2700K)

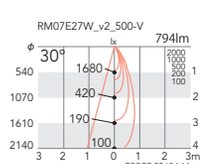
GERD2381S-V-T
Warm color (2700K)

23° 30°

Ra 85

Warm color (2700K)





▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs Series

1.3 to 1.5 times brighter with increased energy efficiency

- Ra85 high-color-rendering module reflects the full gamut of color variations.
- With the addition of the new daylight color type 5000K, we now offer a varied selection of four colors.

Natural white 4000K | Warm color 3000K | Warm color 2700K

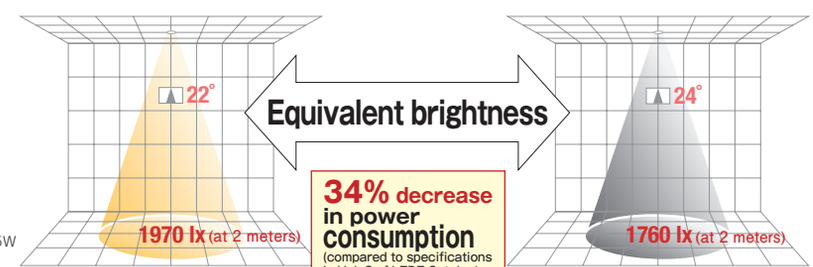
The Rs Series provides increased levels of brightness.

The Rs Series has achieved an even higher level of brightness — now 1.3 to 1.5 times greater. The initial cost and power consumption are significantly reduced as well. The result is high-power lighting from units featuring an even more compact design.

Rs Series NEW

100 Rs-12

ERD2162W(22°)
Power consumption: 22.5W

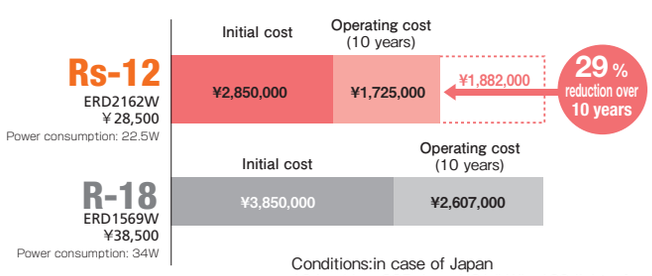


R Series

125 R-18

ERD1569W(24°)
Power consumption: 34W

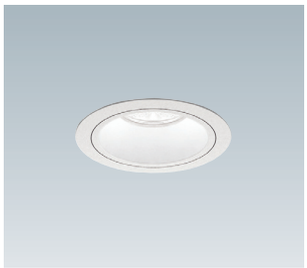
Comparison of cost simulations



Conditions:in case of Japan
10 hrs/day, 365 days, ¥21/kWh, 100 lights, for 10 years
(Compared to LEDZ Catalog Vol. 3)

Rs-3 (Equivalent to R-5 Module) ⟷ Equivalent to TC-DEL 18W

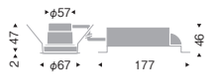
60 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours



Rs-3 LED Module included
Power consumption: 7W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.4 kg
Non-dimmable

■ Standard type



Installation requires 120 mm
of unobstructed area above ceiling.

■ Non-dimmable

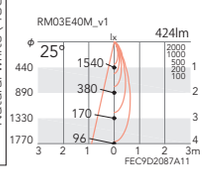
25° 33° 62° Includes underside diffusion cover

〈Plastic reflector type〉

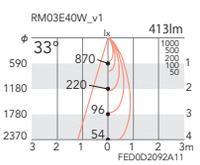
Natural white (4000K)

Ra 85

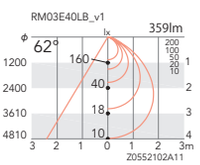
ERD2114W



ERD2117W



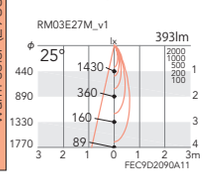
ERD2120W



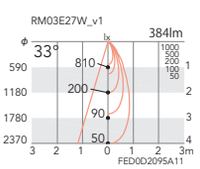
Warm color (2700K)

Ra 85

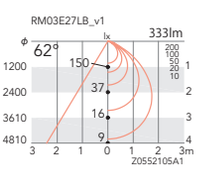
ERD2116W



ERD2119W



ERD2122W



Rs-5 (Equivalent to R-7 Module) ⟷ Equivalent to TC-TEL 26W

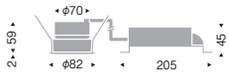
75 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.6 kg
Non-dimmable

■ Standard type



Installation requires 140 mm
of unobstructed area above ceiling.

■ Non-dimmable

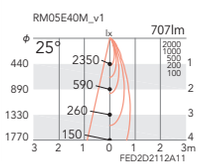
25° 33° 58° Includes underside diffusion cover

〈Plastic reflector type〉

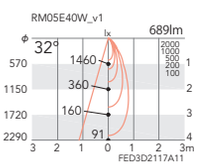
Natural white (4000K)

Ra 85

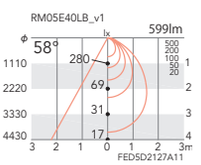
ERD2123W



ERD2126W



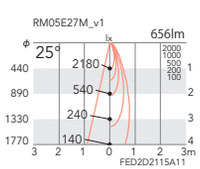
ERD2132W



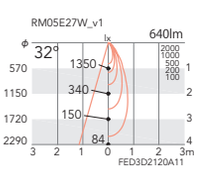
Warm color (2700K)

Ra 85

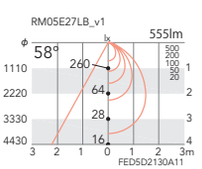
ERD2125W



ERD2128W



ERD2134W



OPTION

Diffusion Filter
RB-316F
Note: The Diffusion Filter cannot be used with the following model ranges:
ERD2120W–2122W

OPTION

Diffusion Filter
RB-317F
Note: The Diffusion Filter cannot be used with the following model ranges:
ERD2132W–2134W

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

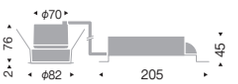
Rs-7 (Equivalent to R-9 Module) → Equivalent to PAR38 120W

75 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.7 kg
Non-dimmable



Installation requires 140 mm
of unobstructed area above ceiling.

Standard type

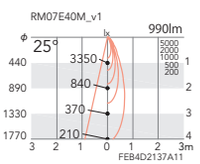
Non-dimmable

25° 33° 58° Includes underside diffusion cover

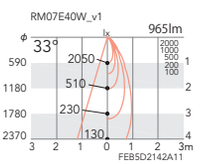
Natural white (4000K)

Ra 85

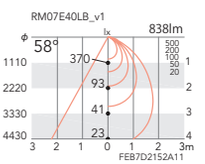
ERD2135W



ERD2139W



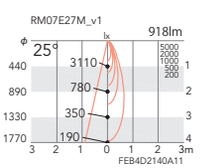
ERD2147W



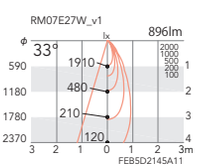
Warm color (3000K)

Ra 85

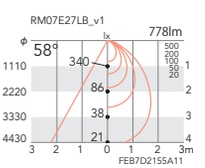
ERD2138W



ERD2142W



ERD2150W



Warm color (2700K)

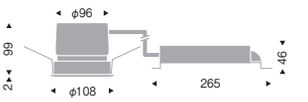
Rs-9 (Equivalent to R-12 Module) → Equivalent to TC-DEL 26W×2

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 1.0 kg
Non-dimmable



The three lenses in the center of this module, which is used in common with the R/Rs-12, are unused.

Installation requires 120 mm
of unobstructed area above ceiling.

Standard type

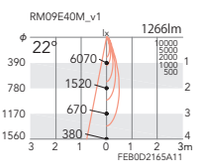
Non-dimmable

21° 36° 55°

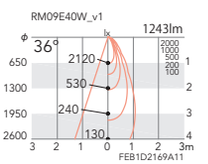
Natural white (4000K)

Ra 85

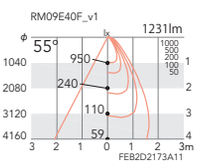
ERD2151W



ERD2154W



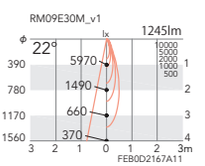
ERD2157W



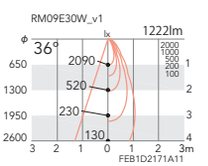
Warm color (3000K)

Ra 85

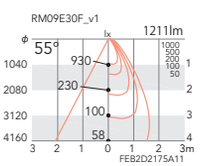
ERD2153W



ERD2156W



ERD2159W



Warm color (2700K)

OPTION

Diffusion Filter
RB-317F
Note: The Diffusion Filter cannot be used with the following model ranges:
ERD2147W,2149W.

OPTION

Diffusion Filter
RB-318F

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

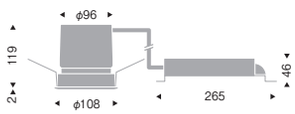
Rs-12 (equivalent to R-18 module) ⟷ Equivalent to TC-TEL 32W×2

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 1.2 kg
Non-dimmable



Installation requires 120 mm
of unobstructed area above ceiling.

■ Standard type

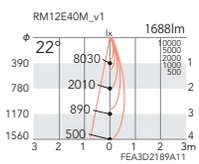
■ Non-dimmable

22° 36° 57°

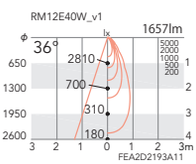
Natural white (4000K)

Ra 85

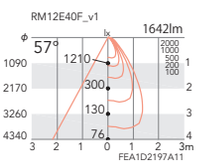
ERD2160W



ERD2163W



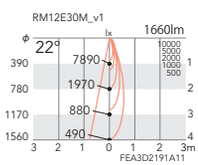
ERD2166W



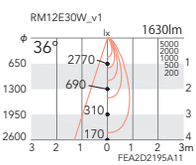
Warm color (3000K)

Ra 85

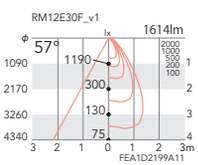
ERD2162W



ERD2165W



ERD2168W



Warm color (2700K)

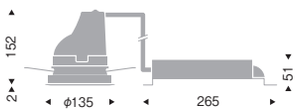
Rs-18 (equivalent to R-24 module) ⟷ Equivalent to HIT 70W×2

125 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 1.7 kg
Non-dimmable



■ Standard type

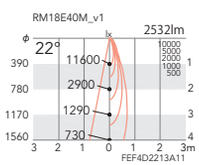
■ Non-dimmable

22° 36° 57°

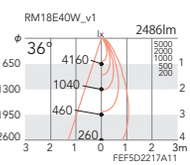
Natural white (4000K)

Ra 85

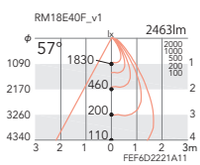
ERD2169W



ERD2172W



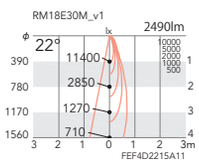
ERD2175W



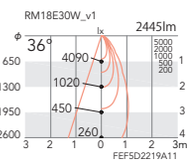
Warm color (3000K)

Ra 85

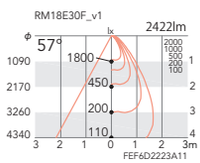
ERD2171W



ERD2174W



ERD2177W



Warm color (2700K)

OPTION

Diffusion Filter
RB-318F

OPTION

Diffusion Filter
RB-319F

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

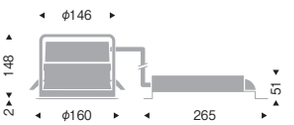
Rs-24 (equivalent to R-30 module) → Equivalent to TC-TEL 42W×2

150 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 2.0 kg
Non-dimmable



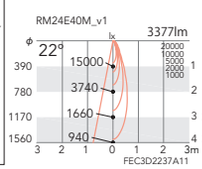
Non-dimmable type

22° 37° 58°

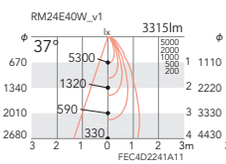
Natural white (4000K)

Ra 85

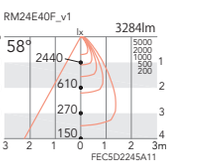
ERD2181W



ERD2184W



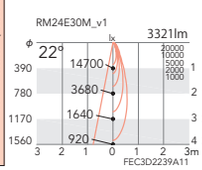
ERD2187W



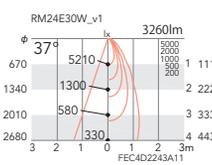
Warm color (3000K)

Ra 85

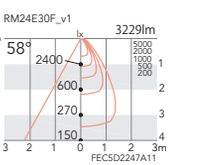
ERD2183W



ERD2186W



ERD2189W



Rs-30 (equivalent to R-36 module) → Equivalent to HIE 150W

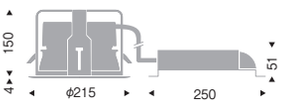
200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours | Installable with bolts

Patent pending

Rs-30 LED Module included
Power consumption: 53W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Aluminium (matt white)
Power supply unit packed separately.
Weight: 2.7 kg
Non-dimmable

The six lenses in the center of this module, which is used in common with the R/Rs-36, are unused.



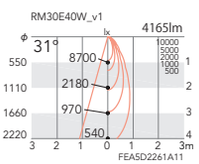
Non-dimmable type

31° 58°

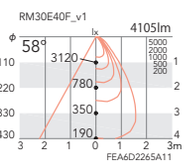
Natural white (4000K)

Ra 85

ERD2193W



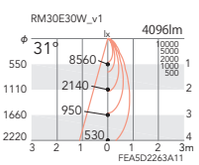
ERD2196W



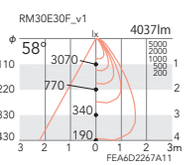
Warm color (3000K)

Ra 85

ERD2195W



ERD2198W



OPTION

Diffusion Filter
RB-321F

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

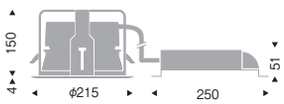
Rs-36 (equivalent to R-48 module) ⟷ Equivalent to HIE 250W lamp

200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-36 LED Module included
Power consumption: 63W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Aluminium (matt white)
Power supply unit packed separately.
Weight: 2.7 kg
Non-dimmable



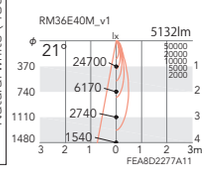
Non-dimmable type

21° 31° 63°

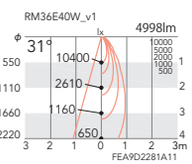
Natural white (4000K)

Ra 85

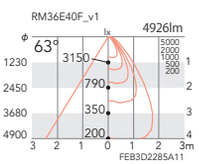
ERD2202W



ERD2205W



ERD2208W



Warm color (3000K)

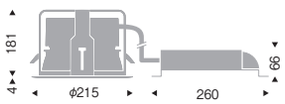
Rs-48 (equivalent to R-65 module) ⟷ Equivalent to HIE 400W lamp

200 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-48 LED Module included
Power consumption: 84W

with driver
Frame: Die-cast aluminium (matt white)
Cone: Aluminium (matt white)
Power supply unit packed separately.
Weight: 3.2 kg (Fixture only: 2.4 kg)
Non-dimmable



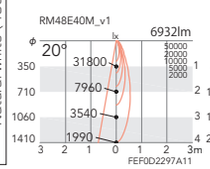
Non-dimmable type

20° 34° 59°

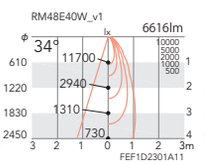
Natural white (4000K)

Ra 85

ERD2214W



ERD2217W



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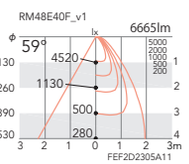


Warm color (3000K)

OPTION

Diffusion Filter
RB-321F

OPTION

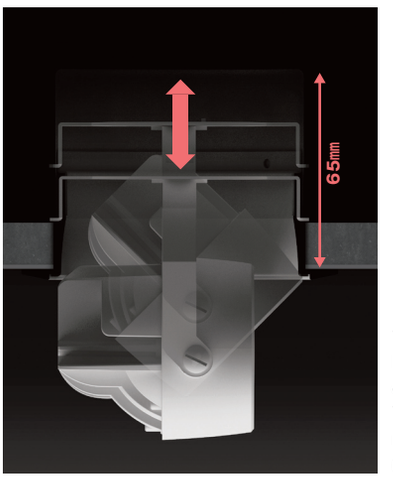
Diffusion Filter
RB-321F

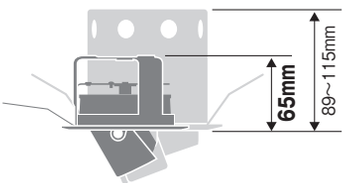
▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Now even brighter!
Rs Series

The low-profile design of Rs-5 fixture results in a height of only 65 mm

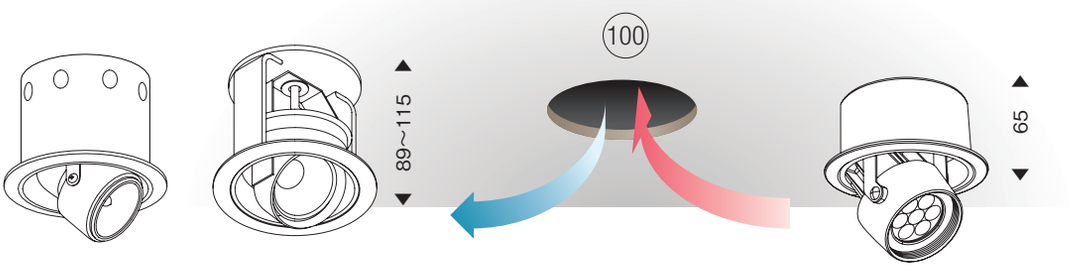




The Rs-5 fixture has been designed for a low-profile height of only 65 mm, less than the conventional height of most light fixtures.
This simplifies installation in locations with restricted space above the ceiling.
(Height of Rs-7 fixture: 94 mm)

Conserve energy easily while using existing openings.

For effective energy conservation, you can now install an LED fixture in an existing opening.
The low-profile design (of the Rs-5) requires only 65 mm for the fixture height inside the ceiling (pocket).



Conventional Dichroic Halogen adjustable Down Light

LED Down Spot (Rs-5)

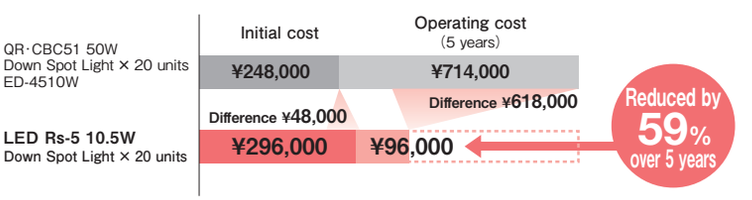
2700k coming up

We offer a 2700K color temperatures that is similar to the color of incandescent light.

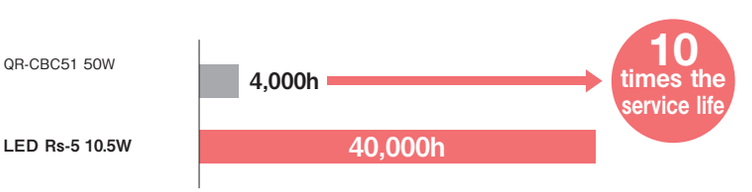
2700K

Excellent value

Considering the LED's long service life — with a rated life of 40,000 hours —very little lamp maintenance is required. For example, the Rs-5 reduces the operating cost to about 1/5th the cost of QR·CBC51 50W.



※ Assumptions: 12 hours/day, 360 business days/year
Power cost: ¥21/kWh (excludes base rate). Includes cost of lamp replacement. <in case of Japan>



Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

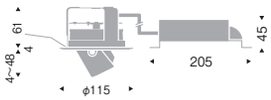
Rs-5 (Equivalent to R-7 Module) → Equivalent to TC-DEL 18W

100 | Eco Energy-Efficient | 65° | 350° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Aluminium (matt white)
Cone: Aluminium (matt white)
Power supply unit packed separately.
Weight: 0.7kg
Non-dimmable



Installation requires 100 mm of unobstructed area above ceiling.

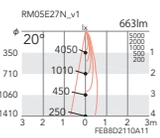
■ Non-dimmable

20° 25° 33° 47°

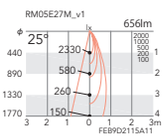
Warm color (2700K)

Ra 85

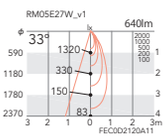
ERD2384W



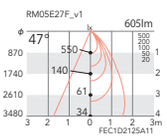
ERD2387W



ERD2390W



ERD2393W



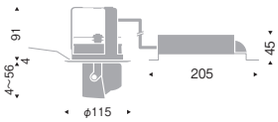
Rs-7 (Equivalent to R-9 Module) → Equivalent to QR-CBC51 50W

100 | Eco Energy-Efficient | 90° | 350° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Aluminium (matt white)
Cone: Aluminium (matt white)
Power supply unit packed separately.
Weight: 0.8kg
Non-dimmable



Installation requires 100 mm of unobstructed area above ceiling.

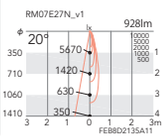
■ Non-dimmable

20° 25° 33° 47°

Warm color (2700K)

Ra 85

ERD2396W



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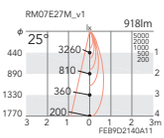
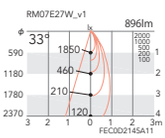
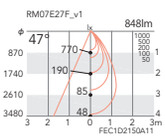


ERD2402W



ERD2405W



OPTION

Diffusion Filter
B-883B

Honeycomb Louver
B-785B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs Series

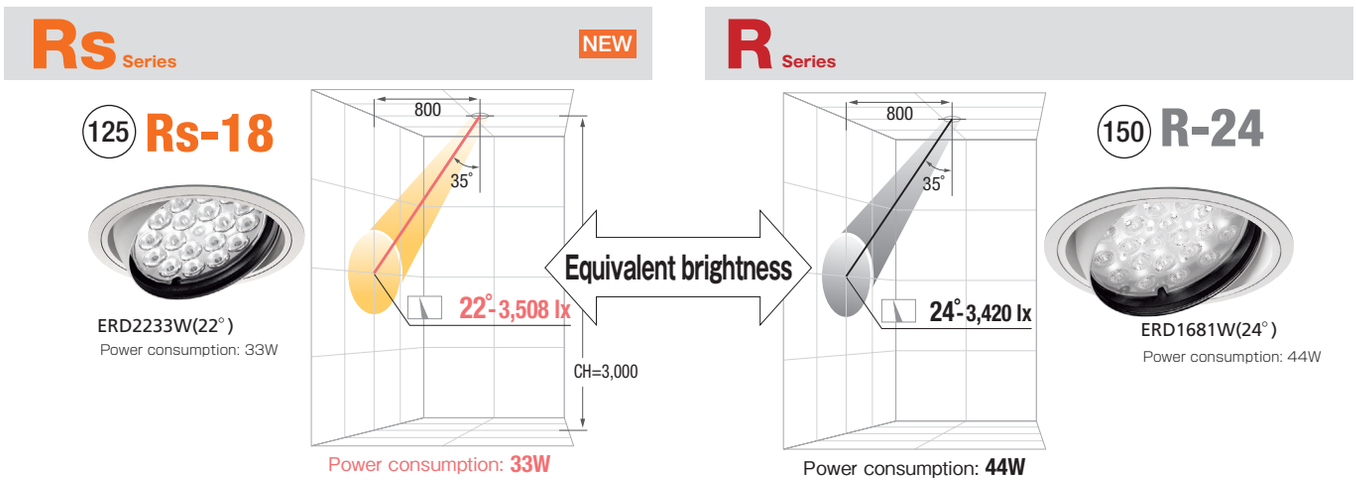
1.3 to 1.5 times brighter with increased energy efficiency

Ra85 high-color-rendering module reflects the full gamut of color variations.

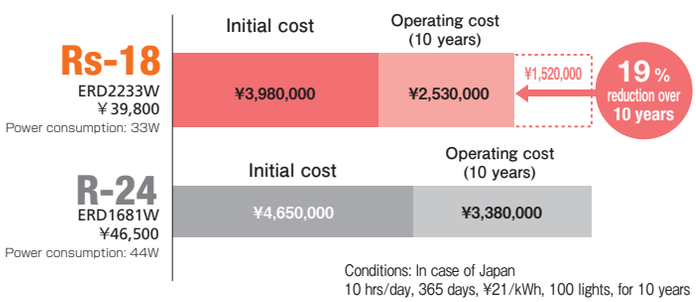
Natural white 4000K | Warm color 3000K | Warm color 2700K

The Rs Series provides increased levels of brightness.

The Rs Series has achieved an even higher level of brightness — now 1.3 to 1.5 times greater. The initial cost and power consumption are significantly reduced as well. The result is high-power lighting from units featuring an even more compact design.



Comparison of cost simulations



Conditions: In case of Japan
10 hrs/day, 365 days, ¥21/kWh, 100 lights, for 10 years

The Rs Series provides a variety of color temperatures and 1.3 to 1.5 times greater brightness.

Rs Modules, part of the ENDOLEDZ flagship series, include a next-generation LED package developed with a combination of optical and thermal analysis techniques. Our high-performance R modules have now been further upgraded to provide 1.3 to 1.5 times greater brightness.

■Color variations of Rs Series Adjustable Downlight

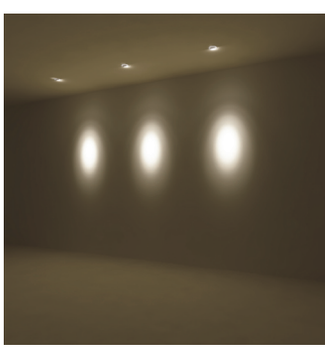
Luminous flux of module

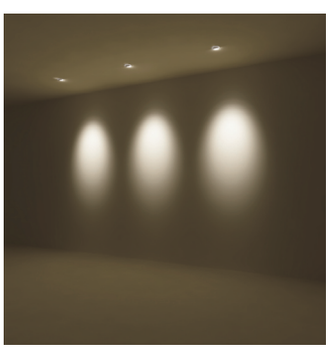
	○Natural white 4000K	●Warm color 3000K	●Warm color 2700K
R Series (Medium-angle)	2585 lm (R-24)	2116 lm (R-24)	619 lm (R-7)
	37% UP	57% UP	48% UP
Rs Series (Medium-angle)	3554 lm (Rs-24)	3321 lm (Rs-24)	918 lm (Rs-7)

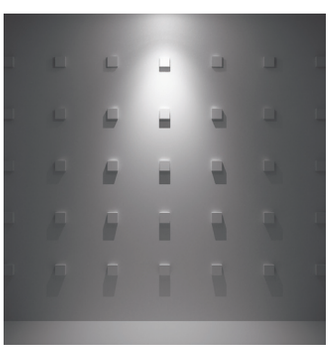
・An increase in the luminous flux of the module can lead to a simple increase in average illumination.
・The luminous flux of the module and that of the fixture are different.

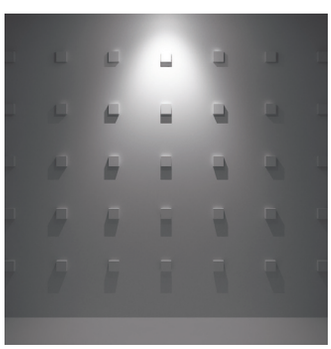
A variety of light distribution options are available to suit your application

Choose from our four light distribution options—narrow-angle, medium-angle, wide-angle and super-wide-angle—to meet the specific needs of your design.


Narrow-angle light distribution

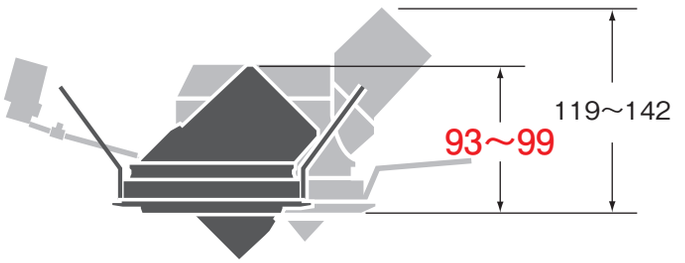

Medium-angle light distribution


Wide-angle light distribution


Super-wide-angle light distribution

The light fixture with the thinnest profile

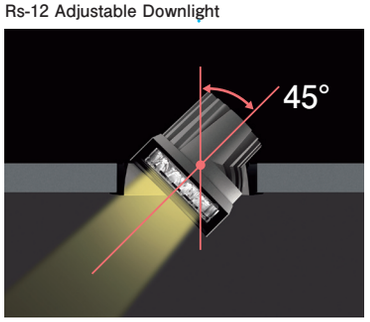
This light fixture achieves a significantly more compact design compared to a conventional fixture. The Rs-12 Type features a flush-mounted depth of only 93 to 99 mm and is the thinnest LED Adjustable Downlight.



A fixture design with a maximum tilt angle of 45° and unrestricted illumination

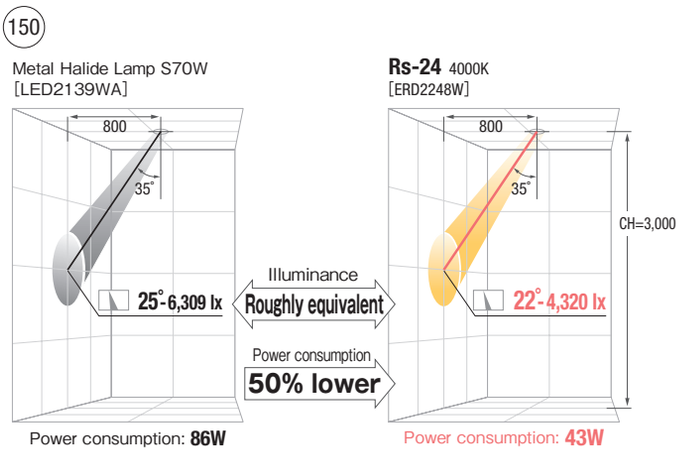
By optimizing the position of the axis of rotation, we have reduced any restriction to light distribution when the light is positioned at the maximum swing angle. This innovation contributes to a wider range of application for attractive precision lighting.

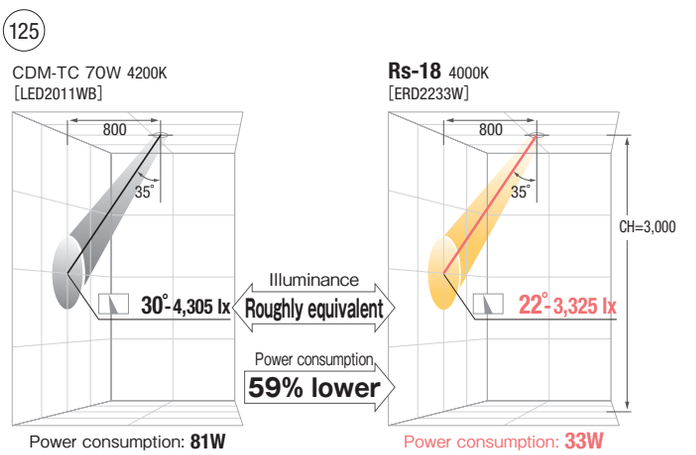
Rs-12 Adjustable Downlight



Featuring brightness equivalent to that of a conventional light fixture

This fixture provides wall surface illuminance roughly equivalent to that of a conventional lamp of the same size.



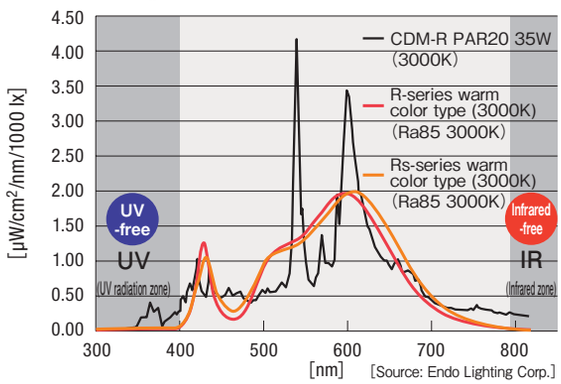


	150	125	125	125	100	100	75
	Rs-24	Rs-18	Rs-12	Rs-9	Rs-7	Rs-5	Rs-3
Narrow-angle	○ERD2242W ●ERD2244W	○ERD2227W ●ERD2229W	○ERD2461W ●ERD2463W	○ERD2446W ●ERD2448W	●ERD2433W	●ERD2420W	●ERD2408W
Medium-angle	○ERD2248W ●ERD2250W	○ERD2233W ●ERD2235W	○ERD2467W ●ERD2469W	○ERD2452W ●ERD2454W	●ERD2437W	●ERD2423W	●ERD2411W
Wide-angle	○ERD2251W ●ERD2253W	○ERD2236W ●ERD2238W	○ERD2470W ●ERD2472W	○ERD2455W ●ERD2457W	●ERD2441W	●ERD2426W	●ERD2414W
Super-wide-angle	○ERD2254W ●ERD2256W	○ERD2239W ●ERD2241W	○ERD2473W ●ERD2475W	○ERD2458W ●ERD2460W	●ERD2445W	●ERD2429W	●ERD2417W

Free from ultraviolet and infrared radiation

LED lights emit almost no infrared radiation and transmit only a slight amount of heat, even to items located close Rs- & R-series the fixture. And because the amount of ultraviolet radiation emitted is minuscule, effective lighting can be achieved without product degradation.

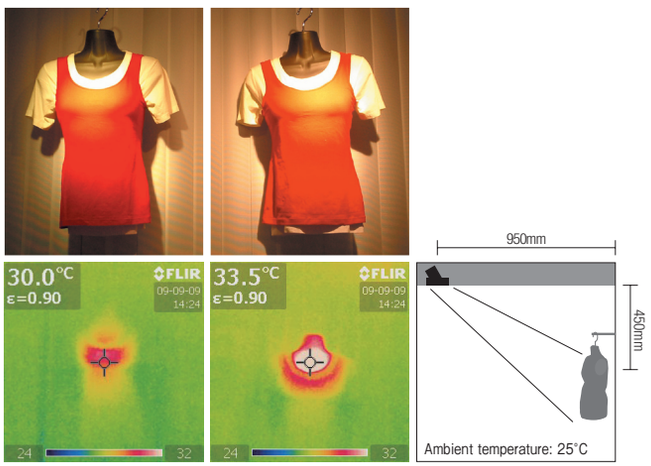
Comparison of Light Distribution of Rs- & R-series LED Modules



[Source: Endo Lighting Corp.]

Thermographic comparison of surface temperatures

R-series LED module CDM-R PAR20 35W



Modules are replaceable for easier maintenance

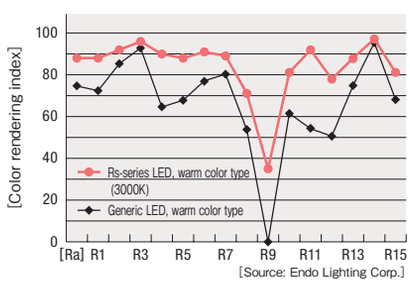
Our LED modules can be repaired and replaced.
See p.122 for a list of modules available as maintenance parts.

Note: We warrant our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement).

Excellent color rendering

Using LEDs with excellent color rendering increases the color fidelity of the illuminated target object.

Graph evaluating the color rendering index of Rs-series LEDs



[Source: Endo Lighting Corp.]

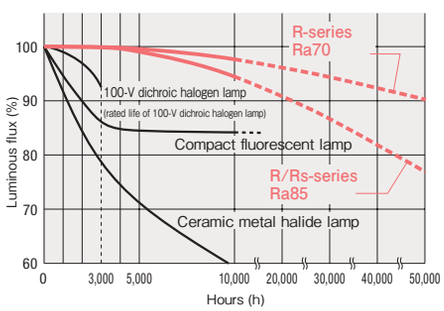
R-series LED module Generic LED

Photo enhanced for clarity

Reliability of luminous flux maintenance

R/Rs-series LEDs maintain their brightness throughout their service life and exhibit higher luminous flux maintenance ratio than conventional lamps.

Comparative data on luminous flux maintenance ratio



Rs-3 (Equivalent to R-5 Module) → Equivalent to QR-CBC51 35W

75 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-3 LED Module included
Power consumption: 7W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 0.5 kg
Non-dimmable

Installation requires 90mm of unobstructed area above ceiling.

Non-dimmable

20° 25° 33° 62°

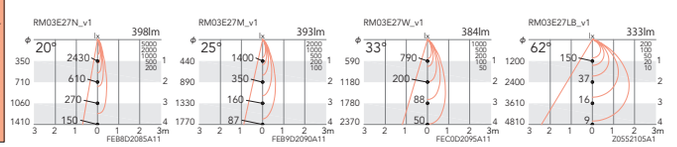
Natural white (4000K)

Warm color (3000K)

Warm color (2700K)

Ra 85

ERD2408W **ERD2411W** **ERD2414W** **ERD2417W**



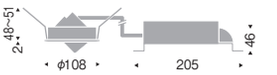
Rs-5 (Equivalent to R-7 Module) → Equivalent to TC-TEL 26W

100 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 0.6 kg
Non-dimmable



Installation requires 100mm of unobstructed area above ceiling.

Non-dimmable

20° 25° 33° 47°

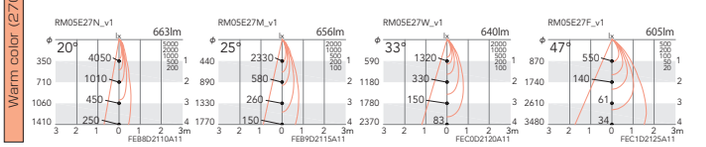
Natural white (4000K)

Warm color (3000K)

Warm color (2700K)

Ra 85

ERD2420W **ERD2423W** **ERD2426W** **ERD2429W**



OPTION

Diffusion Filter
B-905B

Honeycomb Louver
B-906B
Matt black

OPTION

Diffusion Filter
B-883B

Honeycomb Louver
B-785B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-7 (Equivalent to R-9 Module) ← Equivalent to QR-CBC51 50W

100 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 0.7kg
Non-dimmable

Installation requires 100mm of unobstructed area above ceiling.

■ Non-dimmable

20° 25° 33° 47°

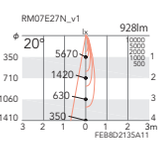
Natural white (4000K)

Warm color (3000K)

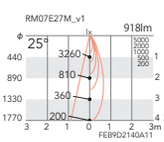
Warm color (2700K)

Ra 85

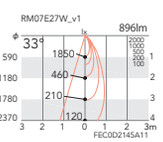
ERD2433W



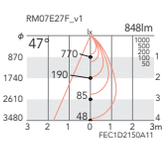
ERD2437W



ERD2441W



ERD2445W



Rs-9 (Equivalent to R-12 Module) ← Equivalent to HIT-PAR20 35W

125 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 1.0kg
Non-dimmable

The three lenses in the center of this module, which is used in common with the R/Rs-12, are unused.

Installation requires 90mm of unobstructed area above ceiling.

■ Non-dimmable

14° 22° 37° 60°

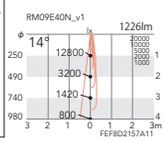
Natural white (4000K)

Warm color (3000K)

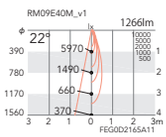
Warm color (2700K)

Ra 85

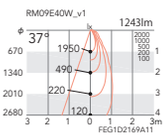
ERD2446W



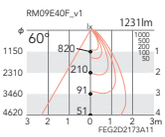
ERD2452W



ERD2455W

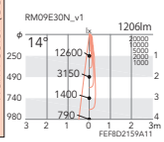


ERD2458W

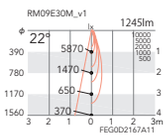


Ra 85

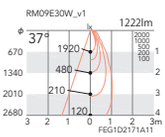
ERD2448W



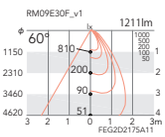
ERD2454W



ERD2457W



ERD2460W



OPTION

Diffusion Filter
B-883B

Honeycomb Louver
B-785B
Matt black

OPTION

Diffusion Filter
B-907B

Honeycomb Louver
B-908B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

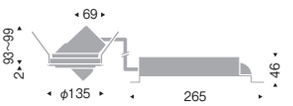
Rs-12 (Equivalent to R-18 Module) ⟷ Equivalent to HIT-TC 35W

125 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption:22.5W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 1.2kg
Non-dimmable



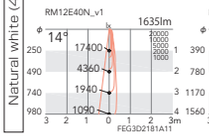
■ Non-dimmable

14° 22° 36° 61°

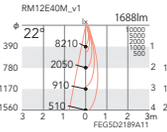
Ra 85

Natural white (4000K)

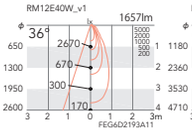
ERD2461W



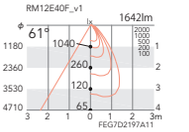
ERD2467W



ERD2470W



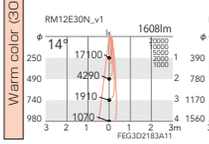
ERD2473W



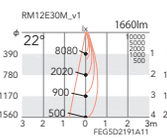
Ra 85

Warm color (3000K)

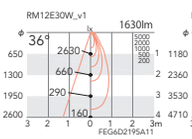
ERD2463W



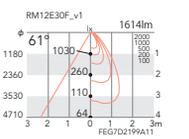
ERD2469W



ERD2472W



ERD2475W



OPTION

Diffusion Filter
B-907B

Honeycomb Louver
B-908B
Matt black

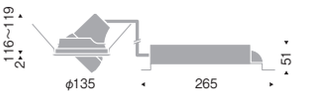
Rs-18 (Equivalent to R-24 Module) ⟷ Equivalent to HIT 70W

125 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption:33W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 1.6kg
Non-dimmable



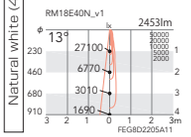
■ Non-dimmable

13° 22° 36° 60°

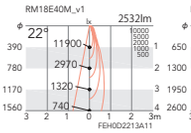
Ra 85

Natural white (4000K)

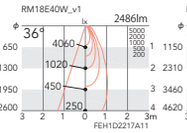
ERD2227W



ERD2233W



ERD2236W



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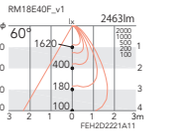
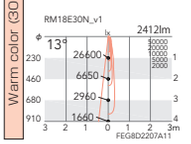


Ra 85

Warm color (3000K)

ERD2229W



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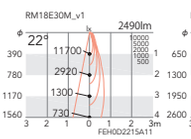

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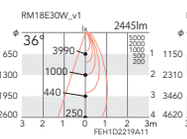
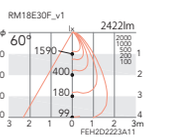


ERD2241W



OPTION

Diffusion Filter
B-925B

Honeycomb Louver
B-926B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

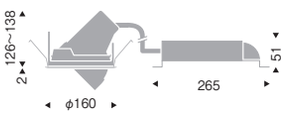
Rs-24 (Equivalent to R-30 Module) → Equivalent to TC-TEL 42W×2

150 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with driver
Frame: Die-cast Aluminium (matt white)
Cone: Die-cast Aluminium (matt white)
Power supply unit packed separately.
Weight: 2.0 kg
Non-dimmable



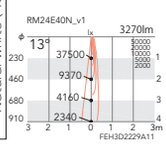
Non-dimmable

13° 22° 37° 60°

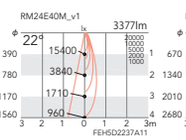
Natural white (4000K)

Ra 85

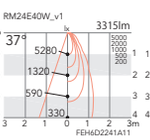
ERD2242W



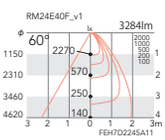
ERD2248W



ERD2251W



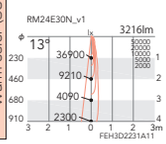
ERD2254W



Warm color (3000K)

Ra 85

ERD2244W



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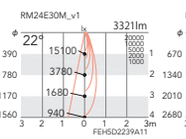
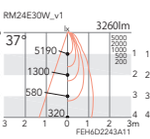
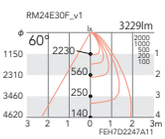


ERD2253W



ERD2256W



OPTION

Honeycomb Louver
RB-362B
Matt black

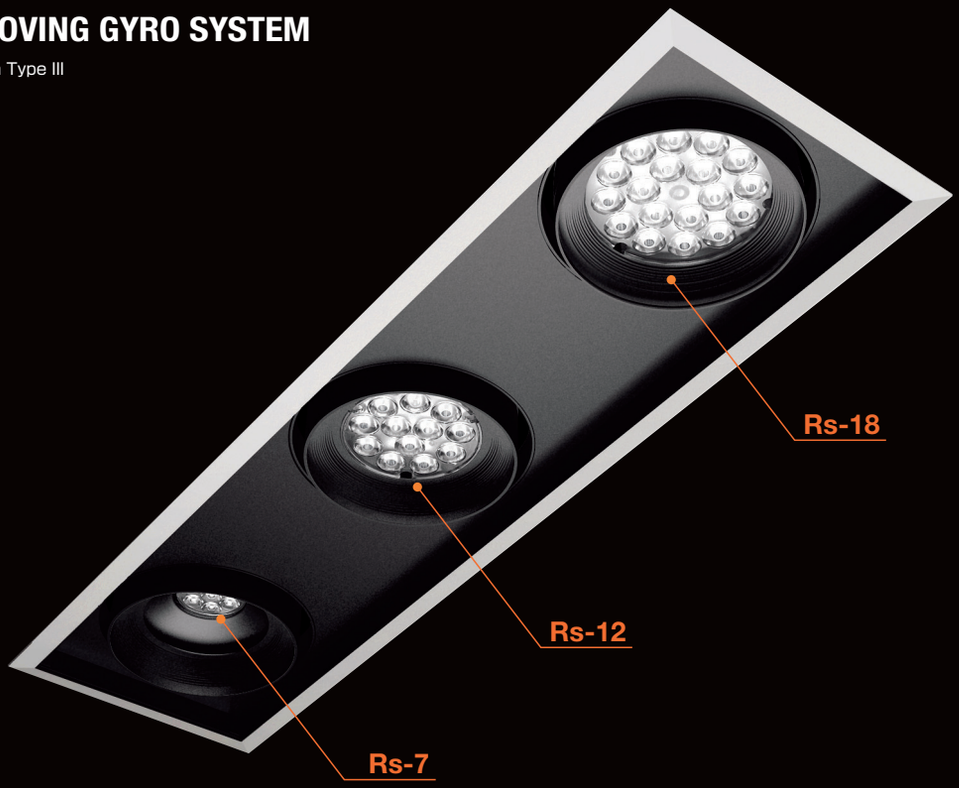
▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs series MOVING GYRO SYSTEM

Moving Gyro System Type III

Now even brighter!

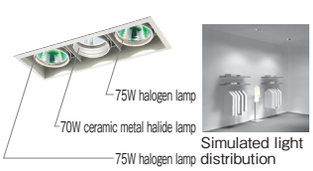
Rs Series

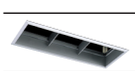


POWER LED + optical LENS

Cost simulation & illustration of light distribution

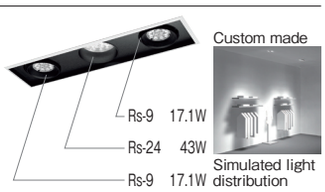
Application of a conventional Gyro



	Housing for 3 lamps ×9 units
	CDM-TC70W ×6 units
	QR-CBC51 50W ×21 units

Total power consumption: 2,061W

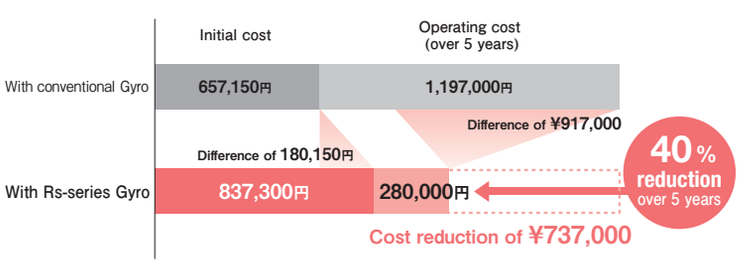
Application of Rs-series Gyro Type III



	Housing for 3 lamps × 9 units
	Rs-24 Fixed lamp × 6 units
	Rs-9 Adjustable lamp × 21 units

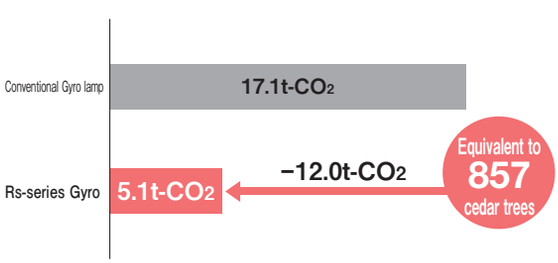
Total power consumption: 617.1W

Simulated Cost Comparison



※Assumptions: Operating 12 hours/day, 360 business days/year Power cost: ¥21/kWh (excludes base rate). Includes cost of lamp replacement. <in case of Japan>

Reduced CO_2 Emissions



Assumptions: Operating 12 hours/day, 360 business days/year, for five years

※CO_2 emissions factor: 0.384 kg-CO_2/kWh
Source: Data reported to the press by the Environment Ministry on Dec. 27, 2010

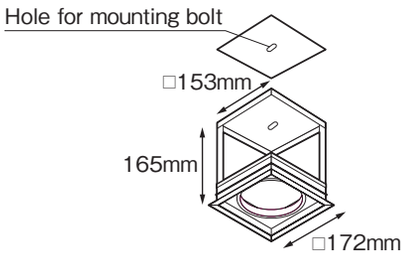
※Annual CO_2 absorption by a cedar tree: 14 kg-CO_2
Source: "Measures to Prevent Global Warming with Green Absorption Sources," Forestry Agency, Ministry of the Environment

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

Single-lamp housing

160



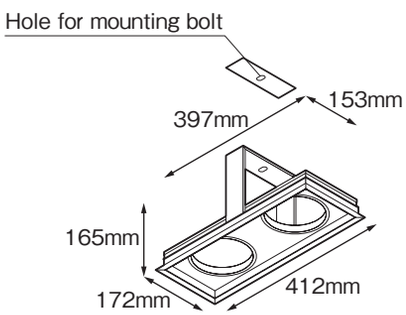
GRB-301B 〈Lamp unit sold separately〉

Frame: Aluminium (matt white)
Cone: Aluminium (matt black)
Weight: 0.9 kg
Lamp unit sold separately.
Install only with product-specific mounting bolts.

For compatible lamp units,
see p.58–59 for possible model number combinations.

2-lamp housing

160×400



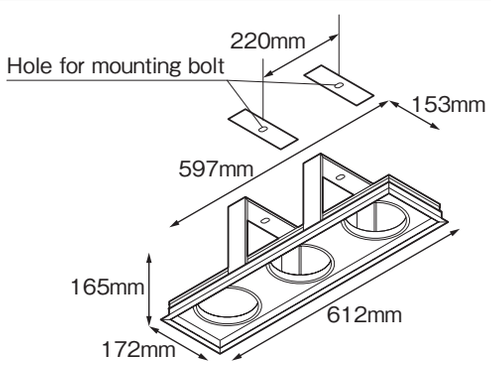
GRB-302B 〈Lamp unit sold separately〉

Frame: Aluminium (matt white)
Cone: Aluminium (matt black)
Weight: 1.4 kg
Lamp unit sold separately.
Install only with product-specific mounting bolts.

For compatible lamp units,
see p.58–59 for possible model number combinations.

3-lamp housing

160×600



GRB-303B 〈Lamp unit sold separately〉

Frame: Aluminium (matt white)
Cone: Aluminium (matt black)
Weight: 1.9 kg
Lamp unit sold separately.
Install only with product-specific mounting bolts.

For compatible lamp units,
see p.58–59 for possible model number combinations.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs-7 (equivalent to R-9 Module) ⟷ Equivalent to QR-CBC51 50W

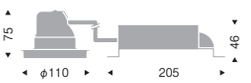
Eco Energy-Efficient | Voltage range 100-242 | 40° | Rated service life of LED: 40,000 hours

Patent pending

Adjustable unit

Rs-7 LED Module included
Power consumption: 14W

with driver
Body: Die-cast Aluminium (matt black interior surface)
Power supply unit packed separately.
Weight: 1.0 kg
Cannot be used as standalone unit.
Use only with housings listed on p.55
Non-dimmable



Non-dimmable

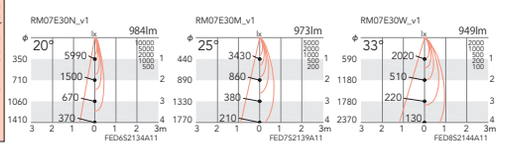
20° 25° 33°

Natural white (4000K)

Warm color (3000K)

Ra 85

ERS3735B **ERS3738B** **ERS3741B**



Rs-9 (equivalent to R-12Module) ⟷ Equivalent to HIT-PAR20 35W

Eco Energy-Efficient | Voltage range 100-242 | 40° | Rated service life of LED: 40,000 hours

Design registration pending

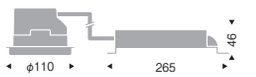
Patent pending

Adjustable unit

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Body: Die-cast Aluminium (matt black interior surface)
Power supply unit packed separately.
Weight: 0.9kg
Cannot be used as standalone unit.
Use only with housings listed on p.55
Non-dimmable

The three lenses in the center of this module, which is used in common with the R-12 module, are unused.



Non-dimmable

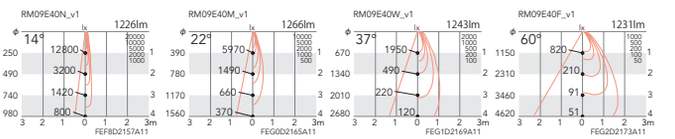
14° 22° 37° 60°

Natural white (4000K)

Warm color (3000K)

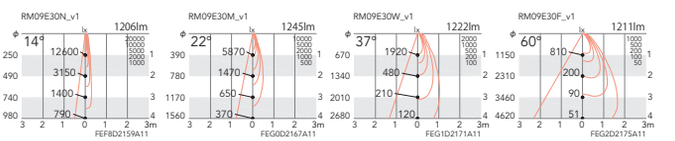
Ra 85

ERS3742B **ERS3746B** **ERS3748B** **ERS3750B**



Ra 85

ERS3743B **ERS3747B** **ERS3749B** **ERS3751B**



OPTION

Diffusion Filter
B-907B

Honeycomb Louver
B-908B
Matt black

OPTION

Diffusion Filter
B-877B

Honeycomb Louver
B-876B
Matt black

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Rs-12 (equivalent to R-18Module) ⟶ Equivalent to HIT-TC 35W

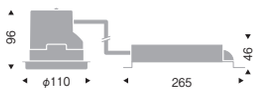
Eco Energy-Efficient | Voltage range 100-242 | 40° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Adjustable unit

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Body: Die-cast Aluminium (matt black interior surface)
Power supply unit packed separately.
Weight: 0.9kg
Cannot be used as standalone unit.
Use only with housings listed on p.55
Non-dimmable



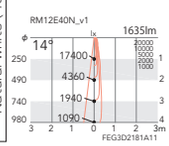
■ Non-dimmable

14° 22° 36° 61°

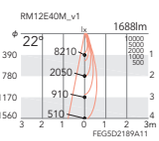
Natural white (4000K)

Ra 85

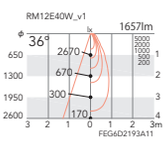
ERS3752B



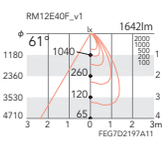
ERS3758B



ERS3761B



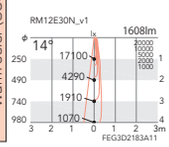
ERS3764B



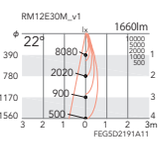
Warm color (3000K)

Ra 85

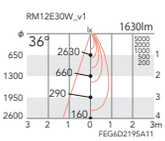
ERS3754B



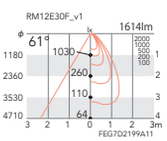
ERS3760B



ERS3763B



ERS3766B



Rs-18 (equivalent to R-24Module) ⟶ Equivalent to HIT 70W

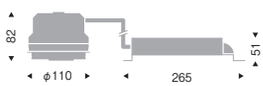
Eco Energy-Efficient | Voltage range 100-242 | 40° | Rated service life of LED: 40,000 hours

Patent pending

Adjustable unit

Rs-18 LED Module included
Power consumption: 33W

with driver
Body: Die-cast Aluminium (matt black interior surface)
Power supply unit packed separately.
Weight: 1.9kg
Cannot be used as standalone unit.
Use only with housings listed on p.55
Non-dimmable



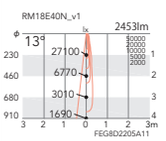
■ Non-dimmable

14° 22° 36° 60°

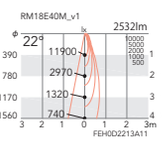
Natural white (4000K)

Ra 85

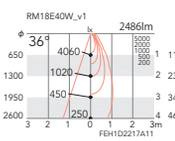
ERS3673B



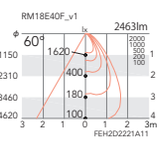
ERS3679B



ERS3682B



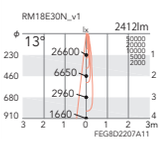
ERS3685B



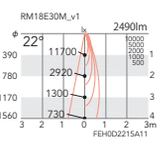
Warm color (3000K)

Ra 85

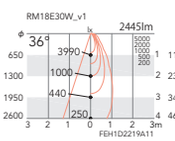
ERS3675B



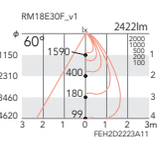
ERS3681B



ERS3684B



ERS3687B



OPTION

Diffusion Filter
B-877B

Honeycomb Louver
B-876B
Matt black

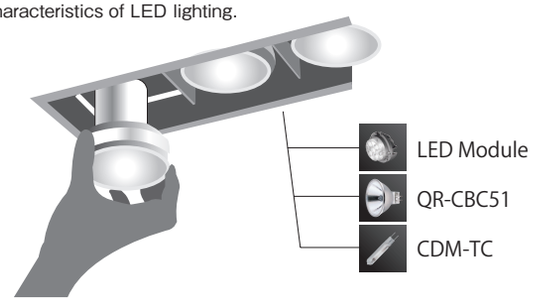
▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

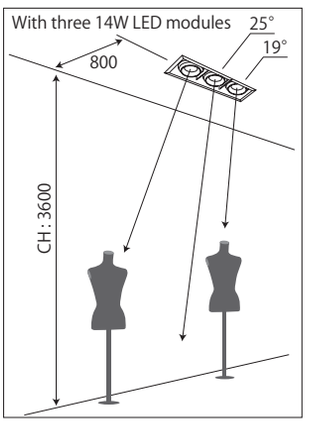
Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

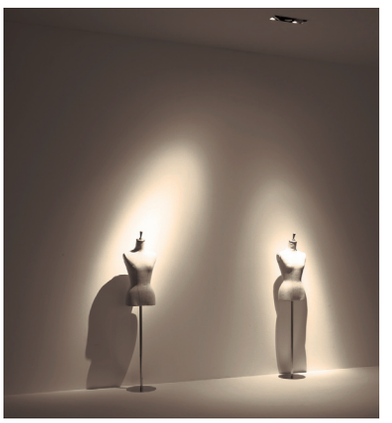
A number of LED modules have been added to the selection of lamp units available with the Gyro System, which is designed to provide optimal lighting. When used in combination with discharge lamps and halogen lamps, they contribute to increased energy efficiency and lower operating costs while expanding the potential of presentation styles.

The Gyro System

The special features of LED lighting — long service life, high efficiency, and low UV and IR radiation — are contributing to the emergence of new approaches to illumination. This new lighting system allows free integration of varied light sources and arrangements to meet particular requirements. With the added variety offered by Rs-7 Series LED modules, which provide light equivalent in brightness to dichroic halogen lamps, you can now take advantage of the exceptional characteristics of LED lighting.

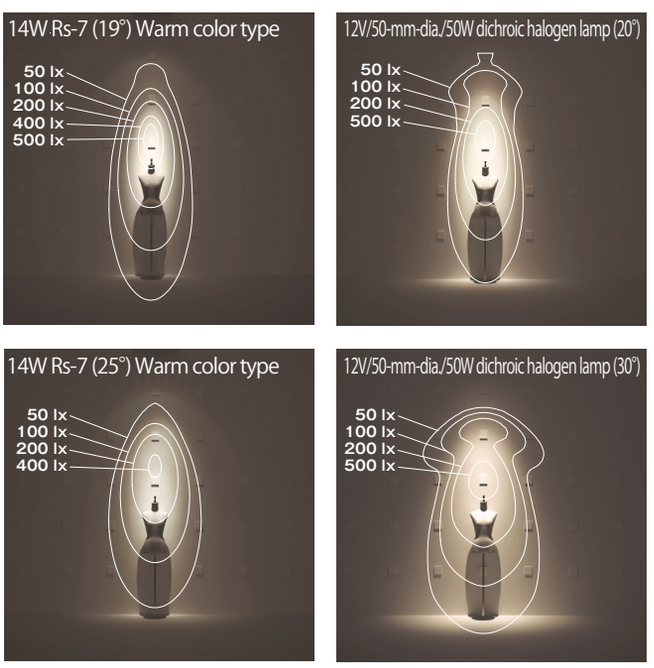






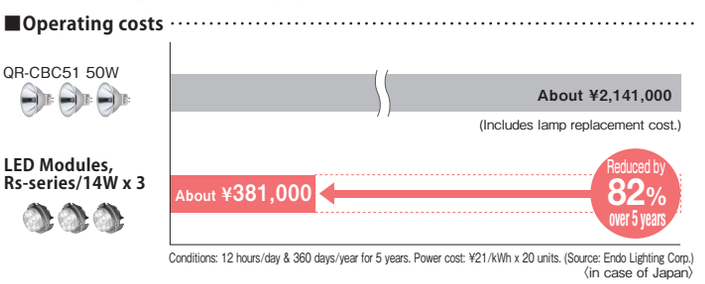
Brightness

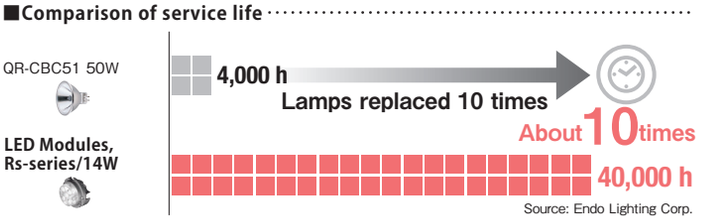
These lamps offer flexible illumination when used in combination with dichroic halogen bulbs (12V/50-mm-dia./75W-type 50W) of equivalent brightness and light distribution.



Excellent value

Because LEDs have a rated life of about 40,000 hours and clearly provide exceptionally long service, maintenance intervals can be greatly extended. They have an operating cost that is roughly 82% lower than that of QR-CBC51 50W.

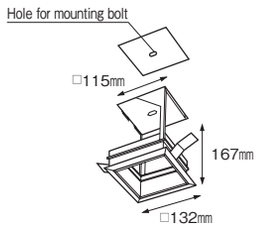




Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Single-lamp housing

120



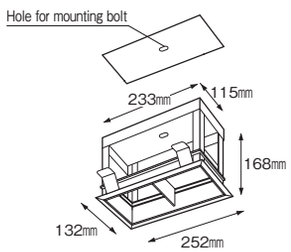
B-664WA
(Lamp unit sold separately)
Frame/Cone: Aluminium (matt white)

B-664BA
(Lamp unit sold separately)
Frame: Aluminium (matt white)
Cone: Aluminium (matt black)

Aluminium
Weight: 0.4 kg
Lamp unit sold separately
Product-specific ballast, transformer, and power supply unit sold separately (distinct prefix form).
Product-specific ballast, transformer, and power supply unit can be installed through hole for mounting bolts during installation.
Use mounting bolts when mounting to wall.

2-lamp housing

120×240



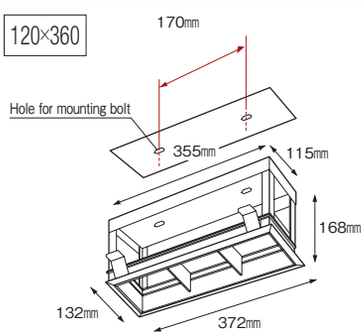
B-665WA
(Lamp unit sold separately)
Frame/Cone: Aluminium (matt white)

B-665BA
(Lamp unit sold separately)
Frame: Aluminium (matt white)
Cone: Aluminium (matt black)

Aluminium
Weight: 0.6 kg
Lamp unit sold separately
Product-specific ballast, transformer, and power supply unit sold separately (distinct prefix form).
Product-specific ballast, transformer, and power supply unit can be installed through hole for mounting bolts during installation.
Use mounting bolts when mounting to wall.

3-lamp housing

120×360



B-666WA
(Lamp unit sold separately)
Frame/Cone: Aluminium (matt white)

B-666BA
(Lamp unit sold separately)
Frame: Aluminium (matt white)
Cone: Aluminium (matt black)

Aluminium
Weight: 0.8 kg
Lamp unit sold separately
Product-specific ballast, transformer, and power supply unit sold separately (distinct prefix form).
Product-specific ballast, transformer, and power supply unit can be installed through hole for mounting bolts during installation.
Use mounting bolts when mounting to wall.

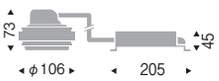
Rs-7 (equivalent to R-9 Module) ← Equivalent to QR-CBC51 50W

eco 省エネ | V Free 100-242V | 40° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with driver
Body: Die-cast Aluminium
Weight: 0.7 kg
Cannot be used as standalone unit.
Non-dimmable



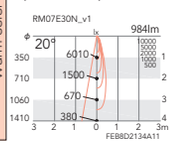
■ Non-dimmable

20° 25°

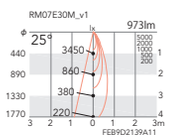
Warm color (3000K)

Ra 85

ERS3696W (matt white)
ERS3696B (matt black)



ERS3699W (matt white)
ERS3699B (matt black)



OPTION

Long hood

B-673W
Matt white
B-673B
Matt black

Die-cast Aluminium
Weight: 0.1 kg

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

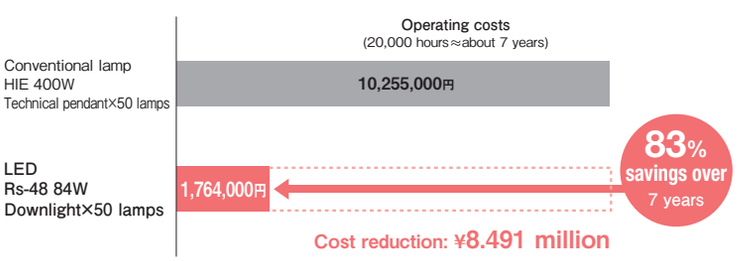
Rs series SURFACE MOUNTED BASE LIGHT

Surface Mounted Down Light

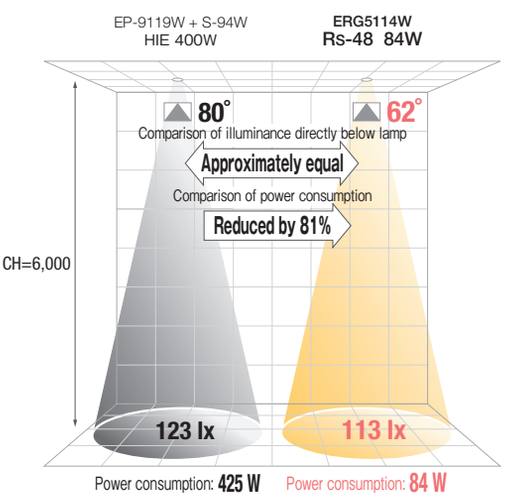
A high-intensity ceiling downlight that accommodates high ceilings

This surface mounted downlight has sufficient light intensity to serve as a base light for high ceilings. Depending on the conditions of the interior space, it can be used as a surface-mounted light or pendant light. The long service life of the LED light source offers the advantage of reduced maintenance. Because the power supply unit is built-in, no additional space is required for its installation.

■Comparative Cost Simulation



※Assumptions: Comparison against the 20,000-hour service life of a conventional light source: 10 hours/day, 300 days/year, representing about 7 years. Power cost: ¥21/kWh (excludes basic rate). Includes cost of replacement lamps. 〈in case of Japan〉



※Note: Retention of luminous flux after 20,000 hours of illumination (luminous flux retention rate)
Metal halide lamp: 62%
Rs Series LED: 90%

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

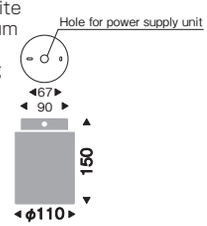
Rs-5 ⟷ Equivalent to TC-DEL26W

Eco (Energy-Efficient) | Voltage range 100-242 | Rated service life of LED: 40,000 hours | Glare Cut-off 15°

Patent pending

Rs-5 LED Module included
Power consumption: 9W

with integrated driver
Body: Matt white
Cone: Aluminium (matt white)
Weight: 0.6 kg
Non-dimmable



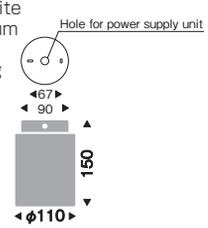
Rs-7 ⟷ Equivalent to TC-TEL 32W

Eco (Energy-Efficient) | Voltage range 100-242 | Rated service life of LED: 40,000 hours | Glare Cut-off 15°

Patent pending

Rs-7 LED Module included
Power consumption: 12.7W

with integrated driver
Body: Matt white
Cone: Aluminium (matt white)
Weight: 0.6 kg
Non-dimmable



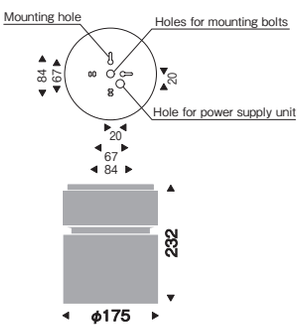
Rs-24 (Equivalent to R-36 module) ⟷ Equivalent to TC-TEL 42W×2

Eco (Energy-Efficient) | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with integrated driver
Body: Matt white
Cone: Aluminium (matt white)
Weight: 3.1 kg
Non-dimmable

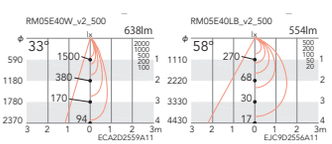


33° | 58° With bottom diffusion cover

Natural white (4000K)

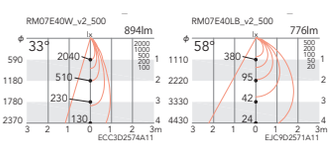
Ra 70

ERG5027WA **ERG5029WA**



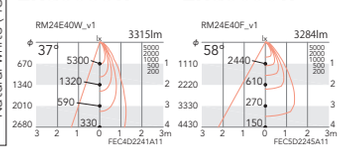
Ra 70

ERG5031WA **ERG5033WA**



Ra 85

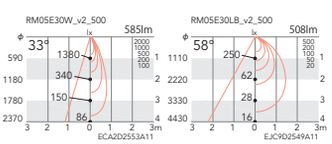
ERG5088W **ERG5090W**



Warm color (3000K)

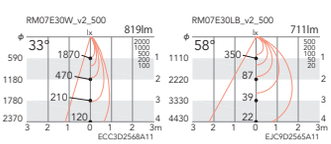
Ra 85

ERG5028WB **ERG5030WB**



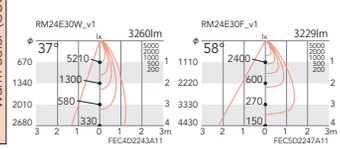
Ra 85

ERG5032WB **ERG5034WB**



Ra 85

ERG5089W **ERG5091W**



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

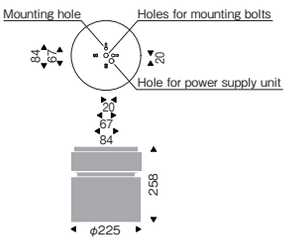
Rs-36 (Equivalent to R-48 Module) ⟷ Equivalent to HIE 250W

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-36 LED Module included
Power consumption: 63W

with integrated driver
Body: Matt white
Cone: Aluminium
(matt white)
Weight: 4.3 kg
Non-dimmable

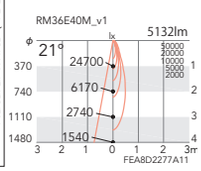


21° 31° 63°

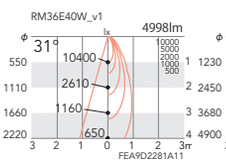
Natural white (4000K)

Ra 85

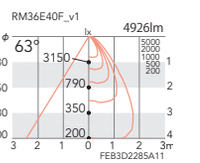
ERG5094W



ERG5096W

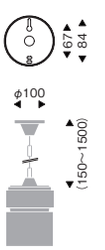


ERG5098W

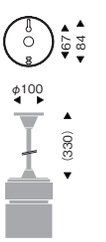


OPTION

Chain suspension bracket
RB-363W
Matt white
Weight 0.6 kg



Pipe suspension bracket
RB-364W
Matt white
Weight: 1.1 kg



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

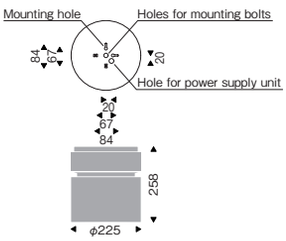
Rs-48 (Equivalent to R-65 Module) ⟶ Equivalent to HIE 400W

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-48 LED Module included
Power consumption: 84W

with integrated driver
Body: Matt white
Cone: Aluminium
(matt white)
Weight: 4.2 kg
Non-dimmable

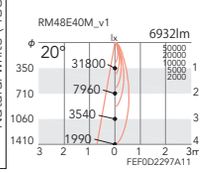


20° 34° 59°

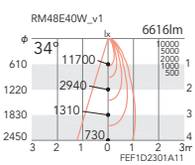
Natural white (4000K)

Ra 85

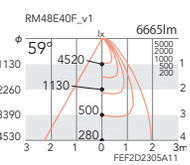
ERG5110W



ERG5112W

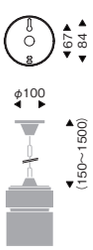


ERG5114W

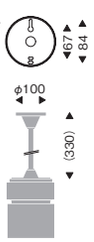


OPTION

Chain suspension bracket
RB-363W
Matt white
Weight 0.6 kg



Pipe suspension bracket
RB-364W
Matt white
Weight: 1.1 kg



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

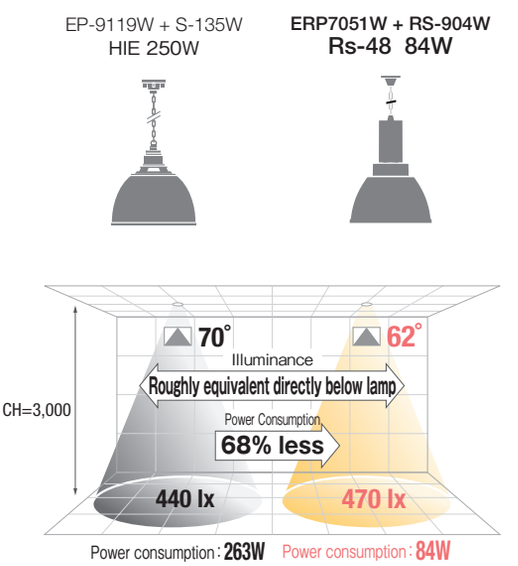
Rs-36/48 Technical Pendant

Rs-24/Rs-12 Technical Pendant

Offering a variety of shade variations

Typical application

The acrylic shade with opal ribs produces a lively mood adding an open presence and a bright atmosphere with a gentle light for any space.

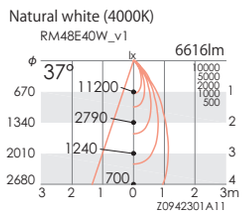


Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

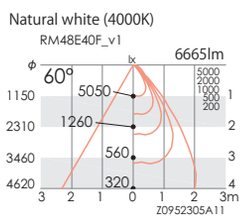
The Rs-48 Module now features increased power and an integrated design.

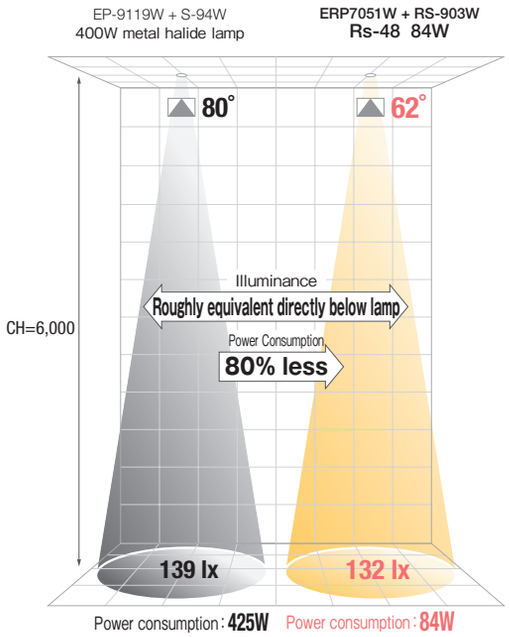
The high-power Technical Pendant for higher ceilings is ideal for factories, warehouses and other large spaces. Two types of light distribution are now available in order to accommodate various ceiling heights.

Rs-48 Module wide-angle light distribution
ERP7049W + RS-903W



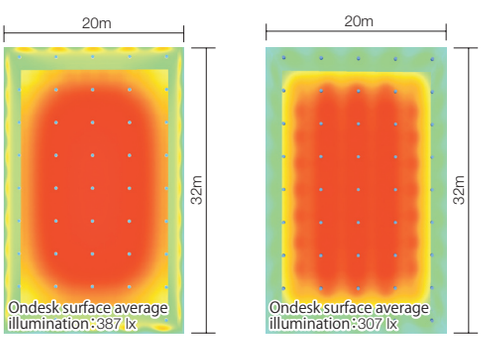
Rs-48 Module super-wide-angle light distribution
ERP7051W + RS-903W





Comparison of retention of illuminance after 10,000 hours of illumination
Luminous flux retention rate: Metal halide lamp: 62% LED: 94%

Simulated Cost Comparison

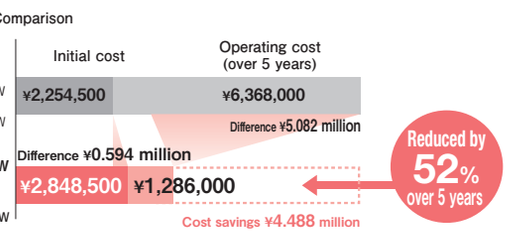


EP-9119W+S-94W
HIE 250W

ERP7043W + RS-903W
Rs-36 module 63W

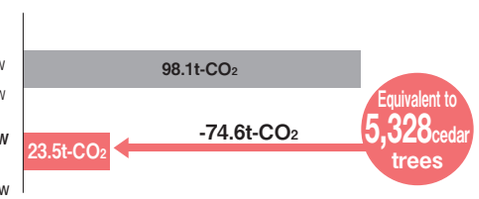
Comparison of retention of illuminance after 10,000 hours of illumination
Luminous flux retention rate:
Metal halide lamp: 62%
LED: 94%

■Simulated Cost Comparison



Assumptions: 12 business hours/day, 360 business days/year. Power cost: ¥21/kWh (excludes basic rate). Includes cost of lamp replacement.
〈In case of Japan〉

■ CO_2 Emissions



Assumptions: Operating 12 hours/day, 360 business days/year, for 5 years
※CO_2 emissions factor: 0.384 kg-CO_2 /kWh
Source: Data reported to the press by the Environment Ministry on Dec. 27, 2010
※Annual CO_2 absorption by one cedar tree: 14 kg-CO_2
Source: "Measures to Prevent Global Warming with Green Absorption Sources," Forestry Agency, Ministry of the Environment
〈In case of Japan〉

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

Rs-48 (equivalent to R-65 module)

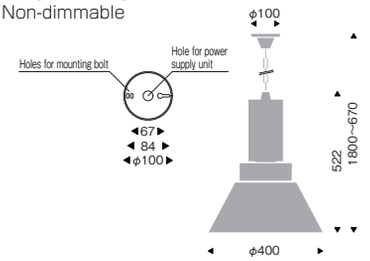
Equivalent to HIE 400W

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-48 with LED module
Power consumption 84W

with integrated driver
Body: Die-cast Aluminium (matt white)
Shade: Aluminium (matt white)
Weight: 5.0 kg
Non-dimmable



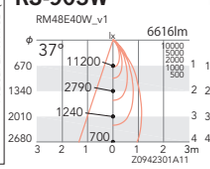
■ Non-dimmable

37° 60°

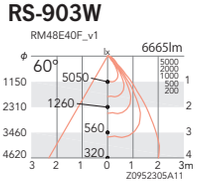
Natural white (4000K)

Ra 85

〈Body〉
ERP7049W
〈Shade〉
RS-903W



〈Body〉
ERP7051W
〈Shade〉
RS-903W

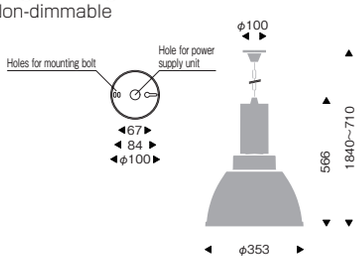


Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-48 with LED module
Power consumption 84W

with integrated driver
Body: Die-cast Aluminium (matt white)
Shade: Acrylic with opal ribs
Weight: 5.7 kg
Non-dimmable



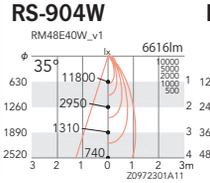
■ Non-dimmable

35° 62°

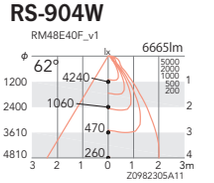
Natural white (4000K)

Ra 85

〈Body〉
ERP7049W
〈Shade〉
RS-904W



〈Body〉
ERP7051W
〈Shade〉
RS-904W



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Rs-36 (equivalent to R-48 module)

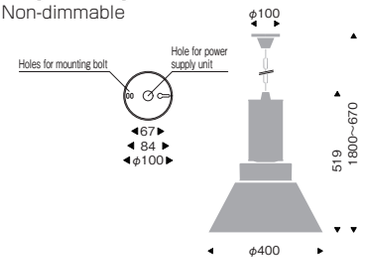
Equivalent to HIE 250W

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-36 with LED module
Power consumption 63W

with integrated driver
Body: Die-cast Aluminium (matt white)
Shade: Aluminium (matt white)
Weight: 5.0 kg
Non-dimmable



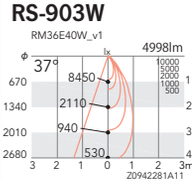
■ Non-dimmable

37° 60°

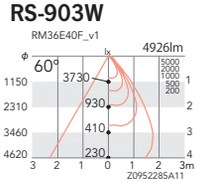
Natural white (4000K)

Ra 85

〈Body〉
ERP7043W
〈Shade〉
RS-903W



〈Body〉
ERP7045W
〈Shade〉
RS-903W

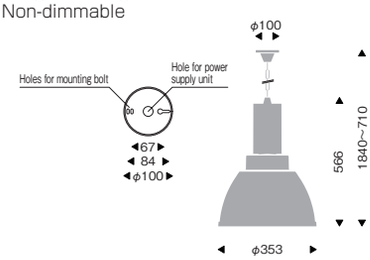


Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-36 with LED module
Power consumption 63W

with integrated driver
Body: Die-cast Aluminium (matt white)
Shade: Acrylic with opal ribs
Weight: 5.7 kg
Non-dimmable



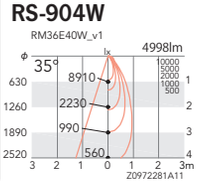
■ Non-dimmable

35° 62°

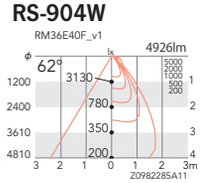
Natural white (4000K)

Ra 85

〈Body〉
ERP7043W
〈Shade〉
RS-904W



〈Body〉
ERP7045W
〈Shade〉
RS-904W



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Rs-24 (equivalent to R-30 module)

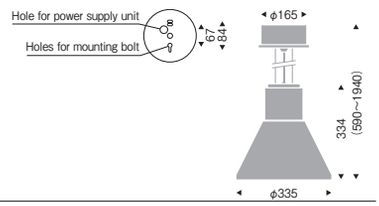
Equivalent to TC-TEL 42W×2

Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours

Patent pending

Rs-24 with LED module
Power consumption 43W

with integrated driver
Metallic finish (silver metallic)
Die-cast Aluminium
Weight: 4.8 kg
Non-dimmable
With wire adjuster
Can be flush-mounted



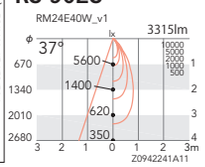
■ Non-dimmable

37° 60°

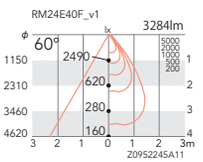
Natural white (4000K)

Ra 85

〈Body〉
ERP7029S
〈Shade〉
RS-902S



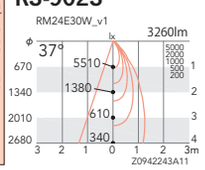
〈Body〉
ERP7031S
〈Shade〉
RS-902S



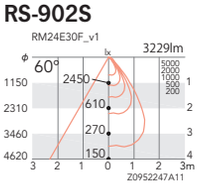
Warm color (3000K)

Ra 85

〈Body〉
ERP7030S
〈Shade〉
RS-902S



〈Body〉
ERP7032S
〈Shade〉
RS-902S

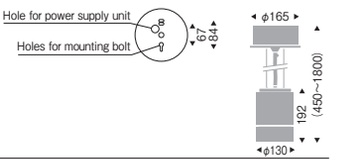


Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Patent pending

Rs-24 with LED module
Power consumption 43W

with integrated driver
Metallic finish (silver metallic)
Die-cast Aluminium
Weight: 3.4 kg
Non-dimmable
With wire adjuster
Can be flush-mounted



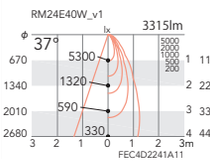
■ Non-dimmable

37° 58°

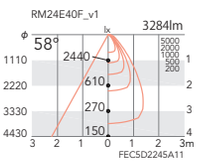
Natural white (4000K)

Ra 85

ERP7029S



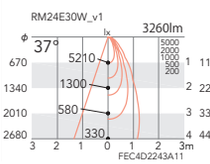
ERP7031S



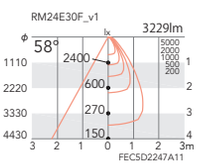
Warm color (3000K)

Ra 85

ERP7030S



ERP7032S



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Rs-12 (equivalent to R-18 module)

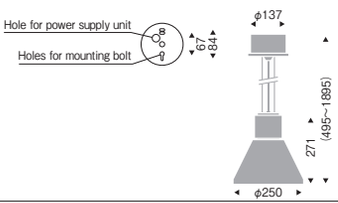
Equivalent to TC-TEL 32W×2

Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 40° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 with LED module
Power consumption 21W

with integrated driver
Metallic finish (silver metallic)
Die-cast Aluminium
Weight: 2.7 kg
Non-dimmable
With wire adjuster
Can be flush-mounted



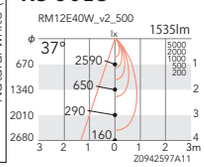
■ Non-dimmable

37° 60°

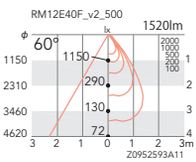
Natural white (4000K)

Ra 70

〈Body〉
ERP7001SA
〈Shade〉
RS-901S



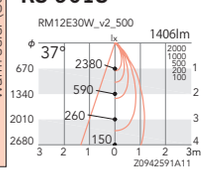
〈Body〉
ERP7003SA
〈Shade〉
RS-901S



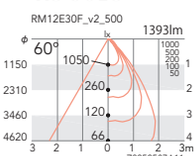
Warm color (3000K)

Ra 85

〈Body〉
ERP7002SB
〈Shade〉
RS-901S



〈Body〉
ERP7004SB
〈Shade〉
RS-901S

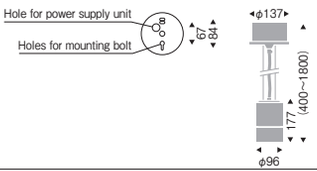


Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 with LED module
Power consumption 21W

with integrated driver
Metallic finish (silver metallic)
Die-cast aluminium
Weight: 2.0 kg
Non-dimmable
With wire adjuster
Can be flush-mounted



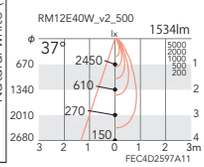
■ Non-dimmable

37° 58°

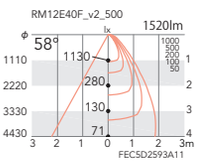
Natural white (4000K)

Ra 70

ERP7001SA



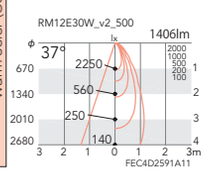
ERP7003SA



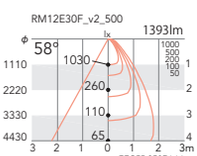
Warm color (3000K)

Ra 85

ERP7002SB



ERP7004SB



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Rs series SPOT LIGHT

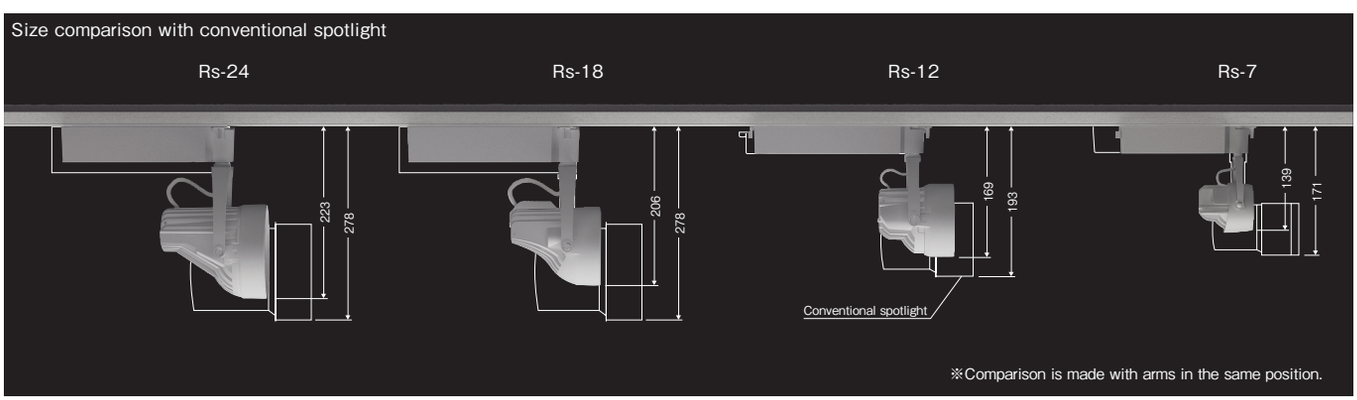
Spot Light

Now even brighter!

Rs Series

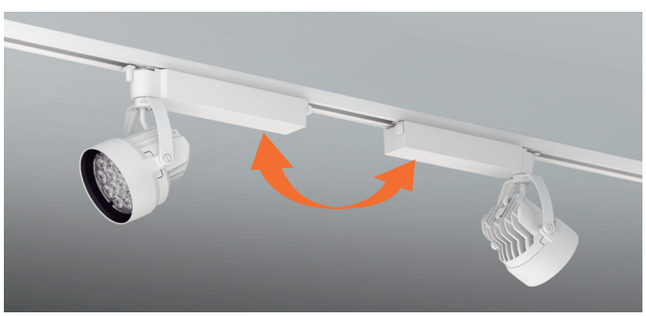
Compact body with duct-rail-mounted power supply case

With its improved heat sink design and duct-rail-mounted power supply case, this product line features a body and case that are more compact than conventional LED spotlights.



Mountable in either orientation

We have improved the plug component to enable mounting on the duct rail in either orientation. Now you can easily install the fixture with no limitations about the mounting orientation.



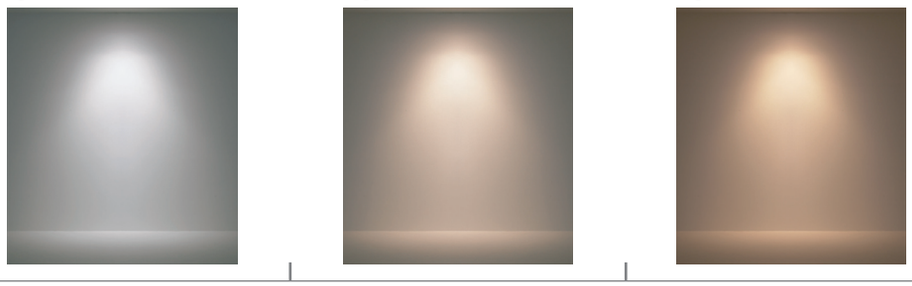
Replaceable modules

This fixture has been designed with replaceable LED modules for easier maintenance.
We warranty our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement).

For details, see Catalog p. 121.

The Rs Series provides a variety of color temperatures and 1.3 to 1.5 times greater brightness.

Rs Modules, part of the LED flagship series, include a next-generation LED package developed from a combination of optical and thermal analysis techniques. High-performance R modules have been further upgraded and now provide 1.3 to 1.5 times greater brightness (luminous flux of the module) compared to that indicated R series.



■Increased luminous flux of Rs-24 Module

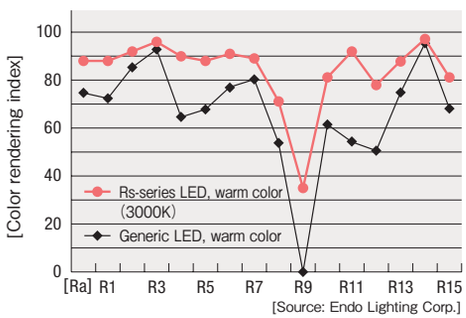
Luminous flux of module

	Natural white 4000K	Warm color 3000K	Warm color 2700K
R Series (Medium-angle light distribution)	2585 lm (R-24)	2116 lm (R-24)	619 lm (R-7)
	31% UP	57% UP	48% UP
Rs Series (Medium-angle light distribution)	3377 lm (Rs-24)	3321 lm (Rs-24)	918 lm (Rs-7)

Notes: ※An increase in the luminous flux of the module can lead to a simple increase in average illumination.
※The luminous flux of the module and that of the fixture are different.

Excellent color rendering Ra 85

Graph evaluating the color rendering of Rs-series LEDs

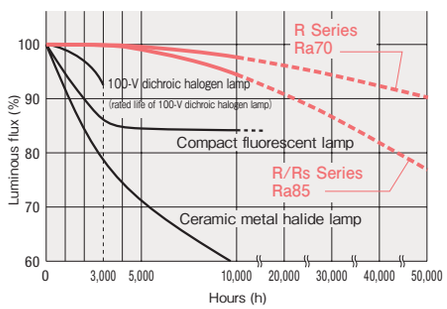


[Source: Endo Lighting Corp.]

Reliable Retention of Luminous Flux

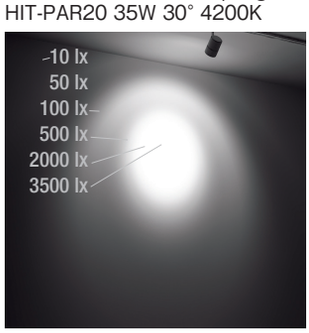
Rs Series LEDs maintain their brightness from the beginning to the end of their service life. Compared with conventional lamps, they maintain a high luminous flux retention rate.

Comparative data on luminous flux maintenance ratio

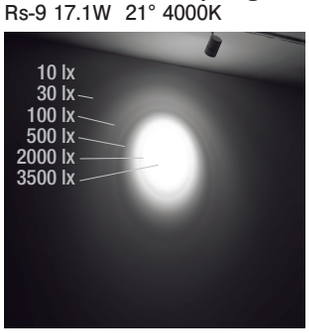


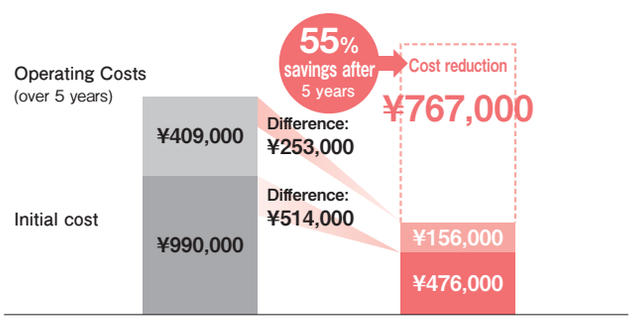
Illuminance Comparison & Cost Simulation

LES8014W conventional spotlight
HIT-PAR20 35W 30° 4200K



ERS3322W LED Spotlight
Rs-9 17.1W 21° 4000K

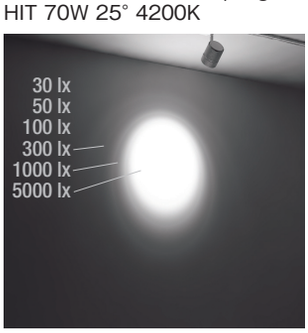




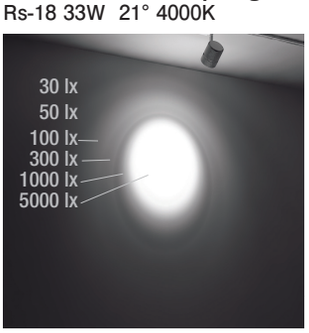
LES8014W conventional spotlight
HIT-PAR20 35W (Power consumption: 45W) × 20 units

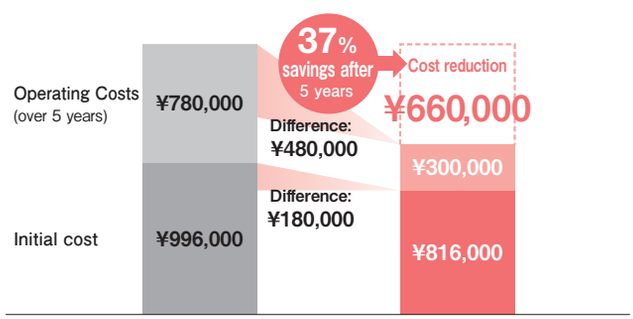
ERS3322W LED Spotlight
Rs-9 17.1W × 20 units

LES8023W conventional spotlight
HIT 70W 25° 4200K



ERS3349W LED Spotlight
Rs-18 33W 21° 4000K





LES8023W conventional spotlight
HIT 70W (Power consumption: 81W) × 20 units

ERS3349W LED Spotlight
Rs-18 33W × 20 units

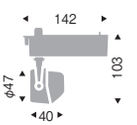
※Assumptions: Operating 12 hours/day, 360 business days/year Power cost: ¥21/kWh (excludes base rate). Includes cost of lamp replacement.
〈in case of Japan〉

Rs-3 (Equivalent to R-5 Module) — Equivalent to QR-CBC51 35W

Eco Energy-Efficient | 220-240V | 130° | 360° | Rated service life of LED: 40,000 hours

Rs-3 LED Module included
Power consumption: 7W

with integrated driver
Weight: 0.3kg
Non-dimmable
LED not replaceable



Non-dimmable

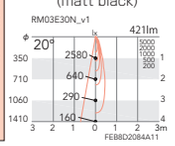
20° | 25° | 33°

Warm color (3000K)

Ra 85

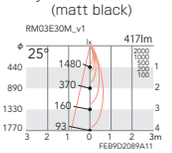
ERS3374W
Body: Die-cast aluminium (matt white)

ERS3374B
Body: Die-cast aluminium (matt black)



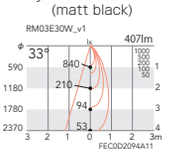
ERS3376W
Body: Die-cast aluminium (matt white)

ERS3376B
Body: Die-cast aluminium (matt black)



ERS3378W
Body: Die-cast aluminium (matt white)

ERS3378B
Body: Die-cast aluminium (matt black)



Warm color (2700K)

OPTION

Diffusion Filter
B-905B

Honeycomb Louver
B-906B
Matt black

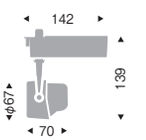
Rs-5 (Equivalent to R-7 Module) — Equivalent to QR CBC51 50W

Eco Energy-Efficient | 220-240V | 130° | 360° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 0.5kg
Non-dimmable
LED not replaceable



Non-dimmable

20° | 25° | 33°

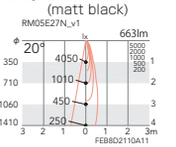
Warm color (3000K)

Warm color (2700K)

Ra 85

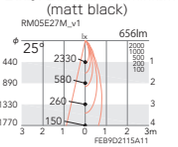
ERS3380W
Body: Die-cast aluminium (matt white)

ERS3380B
Body: Die-cast aluminium (matt black)



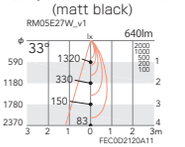
ERS3382W
Body: Die-cast aluminium (matt white)

ERS3382B
Body: Die-cast aluminium (matt black)



ERS3384W
Body: Die-cast aluminium (matt white)

ERS3384B
Body: Die-cast aluminium (matt black)



OPTION

Honeycomb Louver
B-785B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

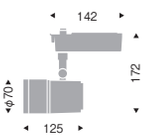
Rs-5 (Equivalent to R-12 Module) ⟶ Equivalent to TC-TEL 26W

Eco Energy-Efficient | 220-240V | 120° | 350° | Rated service life of LED: 40,000 hours

Patent pending

Rs-5 LED Module included
Power consumption: 10.5W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 0.7kg
Non-dimmable



■ Non-dimmable

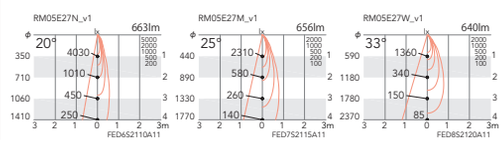
20° | 25° | 33°

Warm color (3000K)

Warm color (2700K)

Ra 85

ERS3471W **ERS3474W** **ERS3477W**



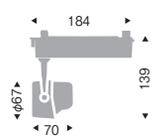
Rs-7 (Equivalent to R-9 Module) ⟶ Equivalent to QR-CBC51 50W

Eco Energy-Efficient | 220-240V | 130° | 360° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 2.7kg
Non-dimmable
LED not replaceable



■ Non-dimmable

20° | 33°

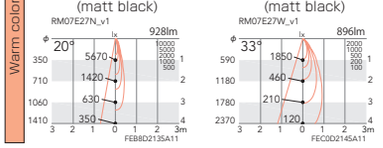
Warm color (3000K)

Warm color (2700K)

Ra 85

ERS3386W
Body: Die-cast aluminium (matt white)
ERS3386B
Body: Die-cast aluminium (matt black)

ERS3390W
Body: Die-cast aluminium (matt white)
ERS3390B
Body: Die-cast aluminium (matt black)



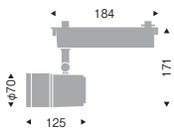
Rs-7 Equivalent to QR-CBC51 50W

Eco Energy-Efficient | 220-240V | 120° | 350° | Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 14W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 0.9kg
Non-dimmable



■ Non-dimmable

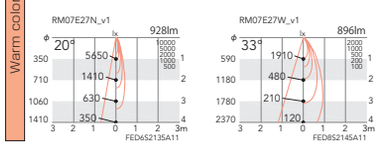
20° | 33°

Warm color (3000K)

Warm color (2700K)

Ra 85

ERS3480W **ERS3486W**



OPTION

Diffusion Filter
RB-305B

Honeycomb Louver
RB306B
Matt black

OPTION

Honeycomb Louver
B-785B
Matt black

OPTION

Diffusion Filter
RB-305B

Honeycomb Louver
RB306B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs-9 (equivalent to R-12 Module)

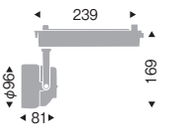
Equivalent to HIT-PAR20 35W

Eco Energy-Efficient | 220-240V | 130° | 360° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-9 LED Module included
Power consumption: 17.1W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 1.0kg
Non-dimmable



The three lenses in the center of this module, which is used in common with the R/Rs-12 module, are unused.

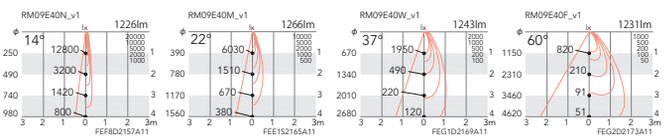
■ Non-dimmable

14° 22° 37° 60°

Natural white (4000K)

Ra 85

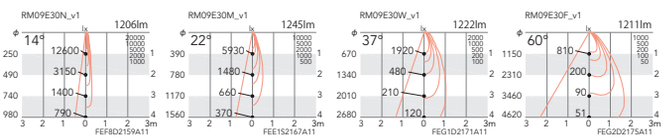
ERS3318W **ERS3322W** **ERS3324W** **ERS3326W**



Warm color (3000K)

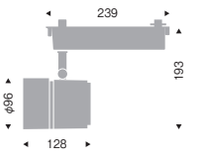
Ra 85

ERS3319W **ERS3323W** **ERS3325W** **ERS3327W**



Rs-9 LED Module included
Power consumption: 17.1W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 1.3kg
Non-dimmable



The three lenses in the center of this module, which is used in common with the Rs-12 module, are unused.

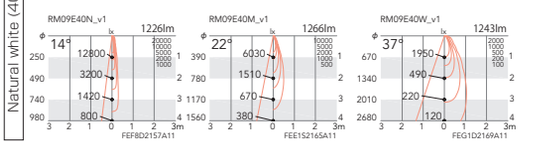
■ Non-dimmable

14° 22° 37°

Natural white (4000K)

Ra 85

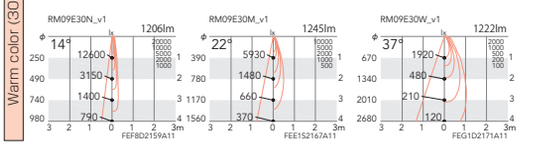
ERS3487W **ERS3489W** **ERS3491W**



Warm color (3000K)

Ra 85

ERS3488W **ERS3490W** **ERS3492W**



OPTION

Diffusion Filter
B-907B

Honeycomb Louver
B-908B
Matt black

OPTION

Diffusion Filter
RB-307B

Honeycomb Louver
RB-357B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-12 (equivalent to R-18 Module)

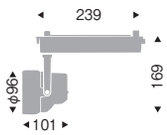
Equivalent to HIT-TC 35W

Eco Energy-Efficient | 220-240V | 130° | 360° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 1.1 kg
Non-dimmable

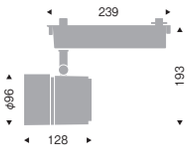


Eco Energy-Efficient | 220-240V | 120° | 350° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with integrated driver
Body: Die-cast aluminium
(matt white)
Weight: 1.3 kg
Non-dimmable



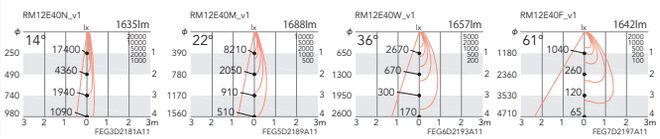
Non-dimmable

14° 22° 36° 61°

Natural white (4000K)

Ra 85

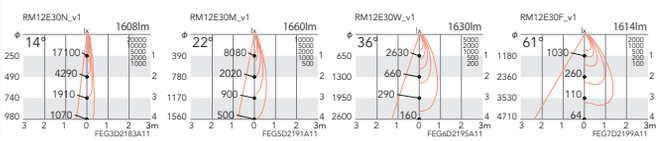
ERS3328W **ERS3334W** **ERS3337W** **ERS3340W**



Warm color (3000K)

Ra 85

ERS3330W **ERS3336W** **ERS3339W** **ERS3342W**



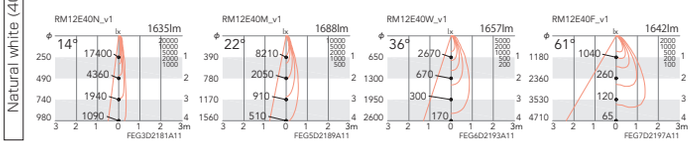
Non-dimmable

14° 22° 36° 61°

Natural white (4000K)

Ra 85

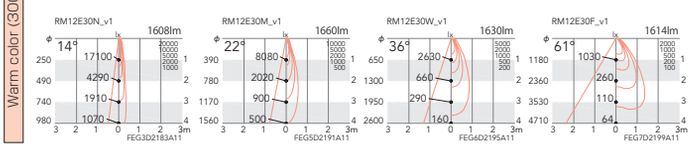
ERS3495W **ERS3497W** **ERS3499W** **ERS3501W**



Warm color (3000K)

Ra 85

ERS3496W **ERS3498W** **ERS3500W** **ERS3502W**



OPTION

Diffusion Filter
B-907B

Honeycomb Louver
B-908B
Matt black

OPTION

Diffusion Filter
RB-307B

Honeycomb Louver
RB-357B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs-18 (Equivalent to R-24 Module)

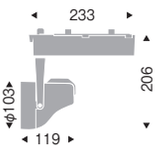
Equivalent to HIT 70W

Eco Energy-Efficient | 100V | 130° | 360° | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 1.6 kg
Non-dimmable



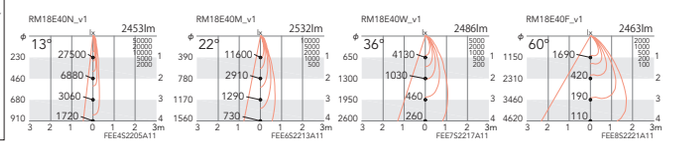
Non-dimmable

13° 22° 36° 60°

Natural white (4000K)

Ra 85

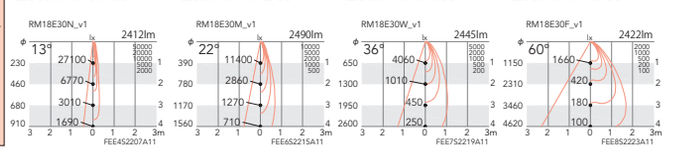
ERS3343W **ERS3349W** **ERS3352W** **ERS3355W**



Warm color (3000K)

Ra 85

ERS3345W **ERS3351W** **ERS3354W** **ERS3357W**



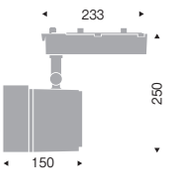
OPTION

Diffusion Filter
B-925B

Honeycomb Louver
B-926B
Matt black

Rs-18 LED Module included
Power consumption: 33W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 2.6 kg
Non-dimmable



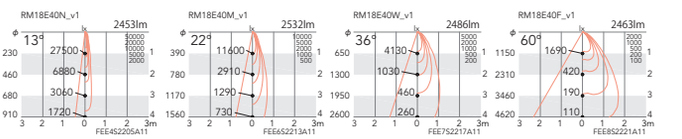
Non-dimmable

13° 22° 36° 60°

Natural white (4000K)

Ra 85

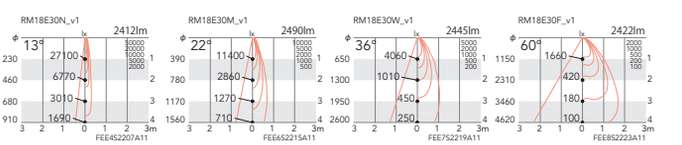
ERS3503W **ERS3505W** **ERS3507W** **ERS3509W**



Warm color (3000K)

Ra 85

ERS3504W **ERS3506W** **ERS3508W** **ERS3510W**



OPTION

Diffusion Filter
RB-309B

Honeycomb Louver
RB-358B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-24 (Equivalent to R-30 Module)

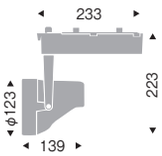
Equivalent to TC-TEL 42W×2

Eco Energy-Efficient | 100V | 130° | 360° | Rated service life of LED: 40,000 hours

Patent pending

Rs-24 LED Module included
Power consumption: 43W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 2.2 kg
Non-dimmable



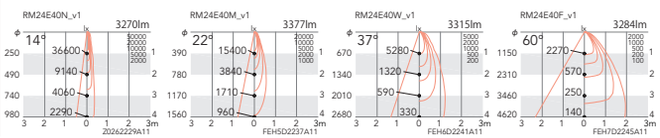
Non-dimmable

14° 22° 37° 60°

Natural white (4000K)

Ra 85

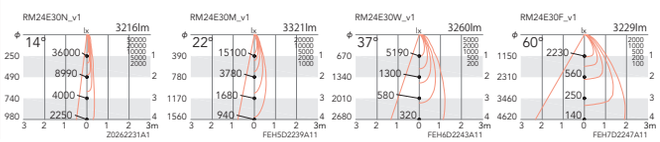
ERS3358W **ERS3364W** **ERS3367W** **ERS3370W**



Warm color (3000K)

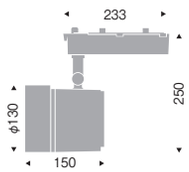
Ra 85

ERS3360W **ERS3366W** **ERS3369W** **ERS3372W**



Rs-24 LED Module included
Power consumption: 43W

with integrated driver
Body: Die-cast aluminium (matt white)
Weight: 2.7 kg
Non-dimmable



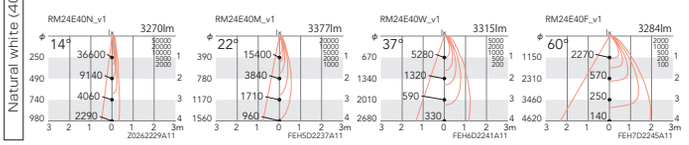
Non-dimmable

14° 22° 37° 60°

Natural white (4000K)

Ra 85

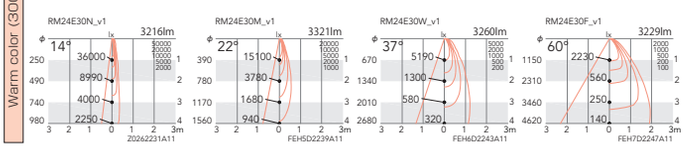
ERS3511W **ERS3513W** **ERS3515W** **ERS3517W**



Warm color (3000K)

Ra 85

ERS3512W **ERS3514W** **ERS3516W** **ERS3518W**



OPTION

Honeycomb Louver
RB-362B
Matt black

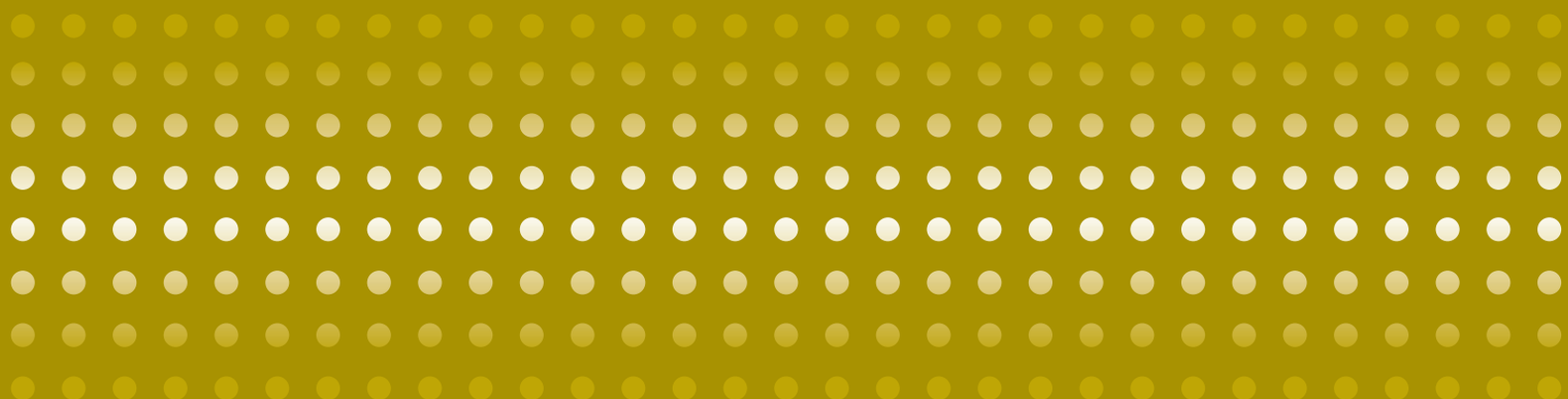
OPTION

Diffusion Filter
RB-309B

Honeycomb Louver
RB-358B
Matt black

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.



SPECIAL ENDO LEDZ

Spot Light for illuminating fresh food products

A spotlight designed to emphasize the freshness of food helps to highlight the appeal and presentation of various types of foodstuffs.
We offer a range of color temperatures that complement the specific type of food being presented. Because our lights irradiate the food with much less of the heat and UV radiation that tend to accelerate food spoilage, you can present your foods with brighter lights that provide higher color rendering characteristics.

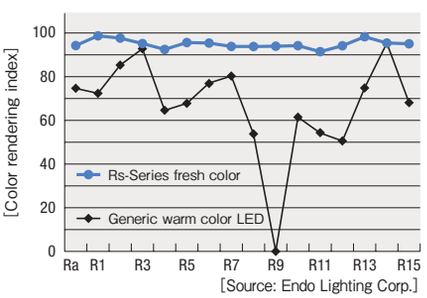
We've added new colors as well as mixed-color lamps with high color rendering characteristics

In addition to offering light colors designed for fresh food, we provide natural-looking light colors for use with general foodstuffs. Now you can further enhance color reproduction by combining LEDs of different color temperatures.

[Fresh color]
The pink in this light color highlights red-toned foodstuffs.
This mix of color temperatures (4000K+3000K) spans the basic light colors.

[Natural fresh color]
This pale pink light emphasizes the natural colors and beautifully natural appearance of fresh foodstuffs.
The basic color of this light is slightly whiter than the fresh type.

Color rendering index graph for evaluation of R Series LEDs



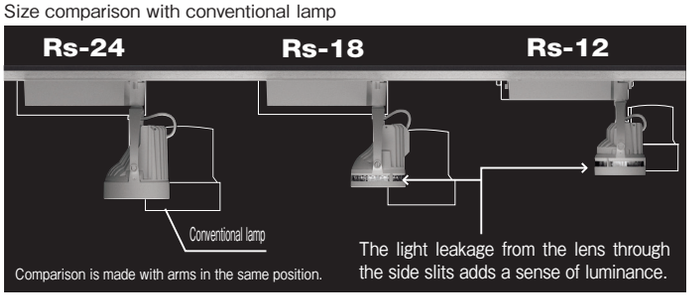
[Source: Endo Lighting Corp.]

A compact new lamp that creates a lively impression

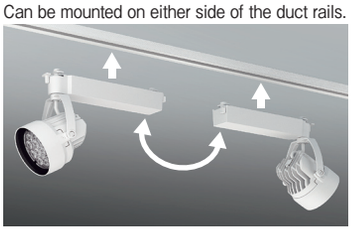
※Typical installation

With this lamp redesign, we sought to produce a lightweight compact lamp and power supply box. Models Rs-18, -12, and -7 feature slits on the side of the lamp that present a more dynamic atmosphere. We have also added the new model Rs-24 to our product line.

Size comparison with conventional lamp



Can be mounted on either side of the duct rails.



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

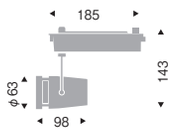
Rs-7

Eco Energy-Efficient | 220-240V | 90° | 350°

Patent pending

Rs-7 LED Module included
Power consumption: 12.7W

with integrated driver
Body: Die-cast aluminium
Weight: 0.7 kg
Non-dimmable



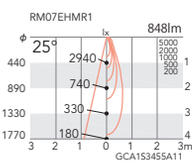
■ Non-dimmable

25°

Ra 93 | Rated service life of LED: 30,000 hours

ERS3898W
Matt white
ERS3898B
Matt black

Fresh Color



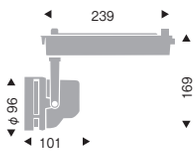
Rs-12

Eco Energy-Efficient | 220-240V | 130° | 360°

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 21W

with integrated driver
Body: Die-cast aluminium
Weight: 1.1 kg
Non-dimmable



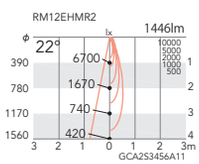
■ Non-dimmable

22°

Ra 95 | Rated service life of LED: 30,000 hours

ERS3895W
Matt white
ERS3895B
Matt black

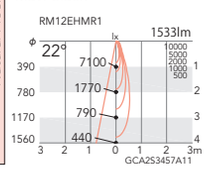
Fresh Color



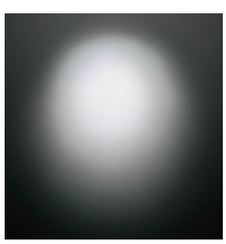
Ra 96 | Rated service life of LED: 30,000 hours

ERS3896W
Matt white
ERS3896B
Matt black

Natural Fresh Color



[Fresh color]
The pink in this light color highlights red-toned foodstuffs.
This mix of color temperatures (4000K+3000K) spans the basic light colors.



[Natural fresh color]
This pale pink light emphasizes the natural colors and beautifully natural appearance of fresh foodstuffs.
The basic color of this light is slightly whiter than the fresh type.

LED module (maintenance part, sold separately) ▶p.122

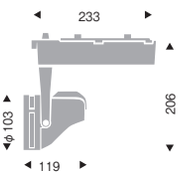
Rs-18

Eco Energy-Efficient | 220-240V | 130° | 360°

Design registration pending
Patent pending

Rs-18 LED Module included
Power consumption: 30W

with integrated driver
Body: Die-cast aluminium
Weight: 1.6 kg
Non-dimmable



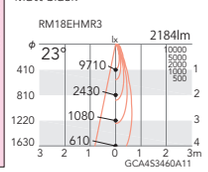
■ Non-dimmable

23°

Fresh Color

Ra 95 | Rated service life of LED: 30,000 hours

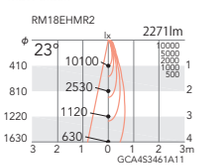
ERS3889W
Matt white
ERS3889B
Matt black



Natural Fresh Color

Ra 96 | Rated service life of LED: 30,000 hours

ERS3890W
Matt white
ERS3890B
Matt black



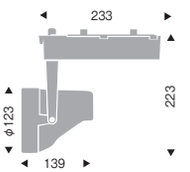
Rs-24

Eco Energy-Efficient | 220-240V | 130° | 360°

Patent pending

Rs-24 LED Module included
Power consumption: 40W

with integrated driver
Body: Die-cast aluminium
Weight: 2.2 kg
Non-dimmable



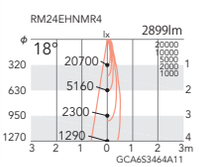
■ Non-dimmable

18°

Fresh Color

Ra 95 | Rated service life of LED: 30,000 hours

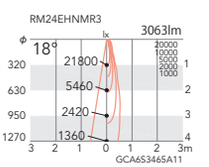
ERS3880W
Matt white
ERS3880B
Matt black



Natural Fresh Color

Ra 96 | Rated service life of LED: 30,000 hours

ERS3881W
Matt white
ERS3881B
Matt black



Vivid Value, Kamibun Store
Client: Mamai Co., Ltd.

LED module (maintenance part, sold separately) ▶p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

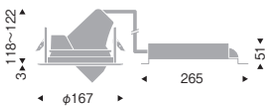
Rs-18

150 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242

Patent pending

Rs-18 LED Module included
Power consumption: 30W

with integrated driver
Body: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 1.7 kg
Non-dimmable



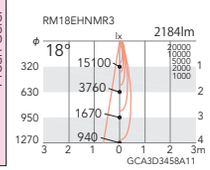
Non-dimmable

18°

Fresh Color

Ra 95 Rated service life of LED: 30,000 hours

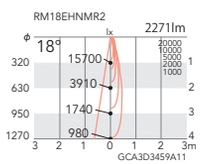
ERD3003W



Natural Fresh Color

Ra 96 Rated service life of LED: 30,000 hours

ERD3004W



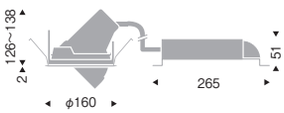
Rs-24

150 | Eco Energy-Efficient | 45° | 355° | Voltage range 100-242

Patent pending

Rs-24 LED Module included
Power consumption: 40W

with integrated driver
Body: Die-cast aluminium (matt white)
Cone: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 2.0 kg
Non-dimmable



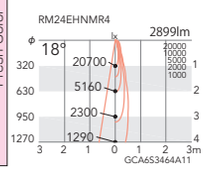
Non-dimmable

18°

Fresh Color

Ra 95 Rated service life of LED: 30,000 hours

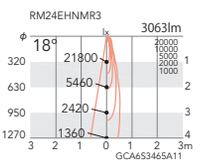
ERD2997W



Natural Fresh Color

Ra 96 Rated service life of LED: 30,000 hours

ERD2998W



[Fresh color]
The pink in this light color highlights red-toned foodstuffs.
This mix of color temperatures (4000K+3000K) spans the basic light colors.

[Natural fresh color]
This pale pink light emphasizes the natural colors and beautifully natural appearance of fresh foodstuffs.
The basic color of this light is slightly whiter than the fresh type.

LED module (maintenance part, sold separately) ▶p.122
Dedicated power supply unit (maintenance part, sold separately) ▶p.123

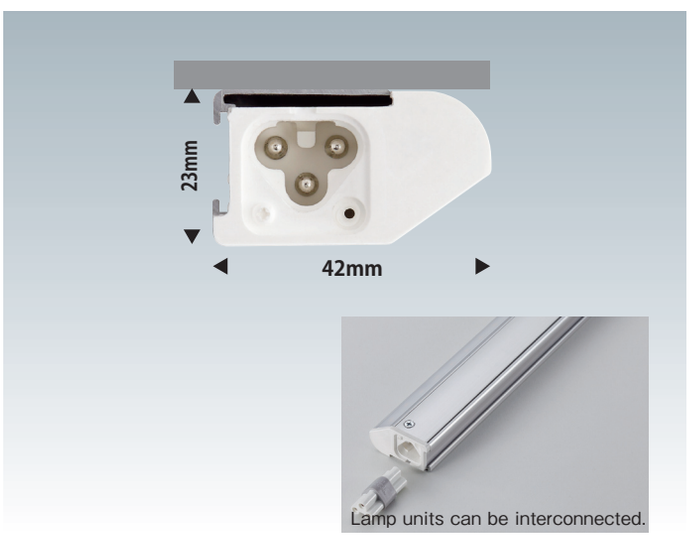
Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

DISPLAY LIGHT

Display Light (Shelf Lighting)

Compact & low-profile

This low-profile fixture measures only 42-mm wide by 23-mm high.
It is ideal for adding lighting wherever space is limited.

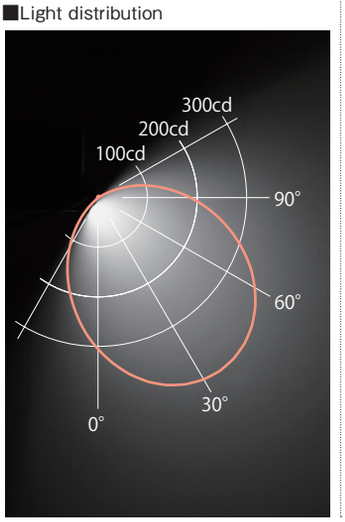


Two approaches to product presentation

■Opal cover

The opal front cover provides diffusivee light distribution.
It is effective for presenting soft textures such as leather goods and clothing.

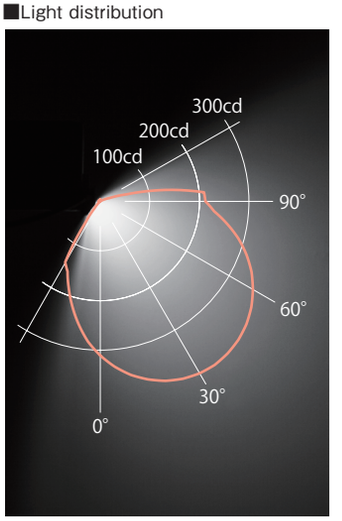
■Light distribution



■Clear cover

The clear cover type provides high illuminance directly below the fixture. It delivers ample luminance, making it ideal for adding brilliance to products such as accessories and glass items.

■Light distribution



Two color temperatures available

Two color temperatures allow you to select the optimal color for a variety of applications.

■Natural white (4000K)

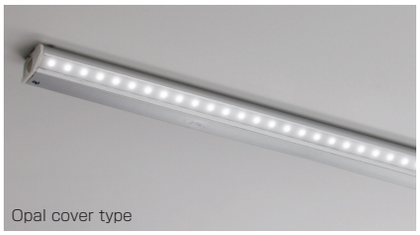
■Warm color (3000K)

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

LED Line Unit

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending



Aluminium (anodized finish)
Plastic (polycarbonate/opal)
Non-dimmable
LED not replaceable

Featuring a switch with an integrated pilot lamp, this LED cannot be fully extinguished.

■ Non-dimmable

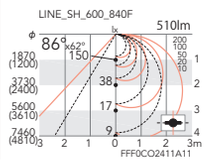
89°×62°

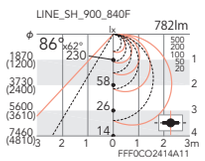
560 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 8W
Weight: 0.5 kg
With easy mounting bracket (2 pc.)

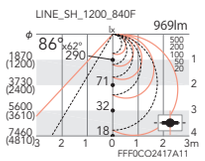
836 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 12W
Weight: 0.7 kg
With easy mounting bracket (2 pc.)

1,112 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 15W
Weight: 0.9 kg
With easy mounting bracket (2 pc.)

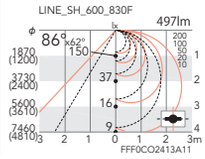
Natural white (4000K)

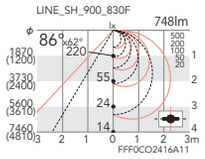
Ra 80 **ERX9081S**


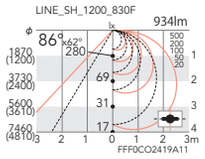
Ra 80 **ERX9084S**


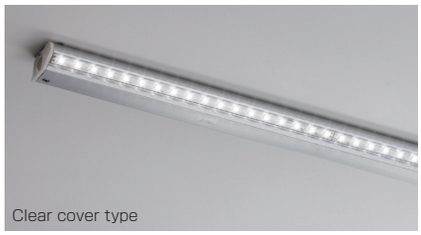
Ra 80 **ERX9087S**


Warm color (3000K)

Ra 80 **ERX9083S**


Ra 80 **ERX9086S**


Ra 80 **ERX9089S**




Aluminium (anodized finish)
Plastic (polycarbonate/clear)
Non-dimmable
LED not replaceable

Featuring a switch with an integrated pilot lamp, this LED cannot be fully extinguished.

■ Non-dimmable

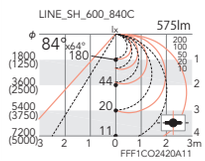
86°×64°

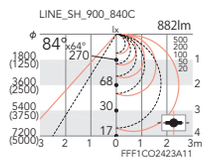
560 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 8W
Weight: 0.5 kg
With easy mounting bracket (2 pc.)

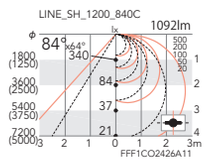
836 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 12W
Weight: 0.7 kg
With easy mounting bracket (2 pc.)

1,112 mm-long type
with integrated driver
LED Line Unit included
Power consumption: 15W
Weight: 0.9 kg
With easy mounting bracket (2 pc.)

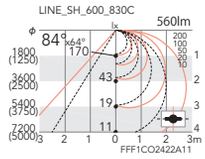
Natural white (4000K)

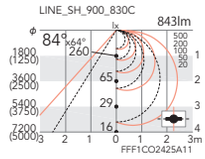
Ra 80 **ERX9090S**


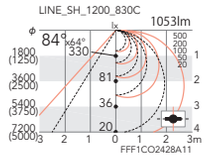
Ra 80 **ERX9093S**


Ra 80 **ERX9096S**


Warm color (3000K)

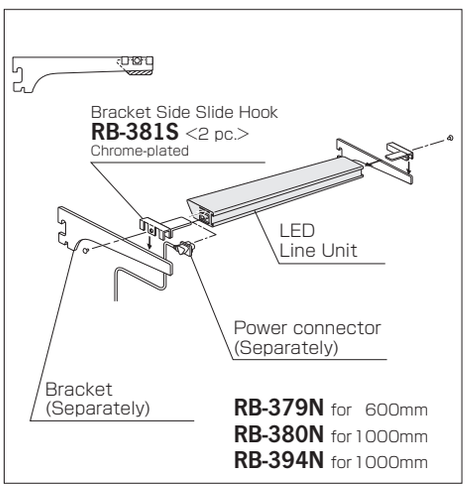
Ra 80 **ERX9092S**


Ra 80 **ERX9095S**


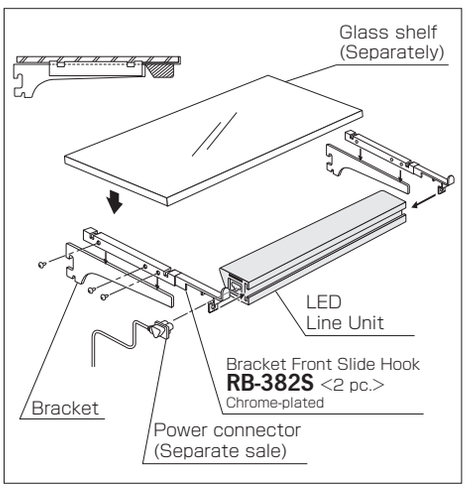
Ra 80 **ERX9098S**


Under-shelf bracket mounting method

■Mounting with side brackets

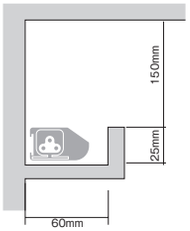


■ Mounting to front with bracket (with glass stopper)



Usable as an indirect lighting fixture

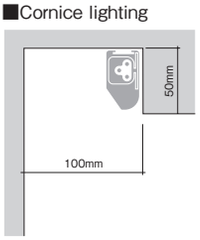
■Cove lighting



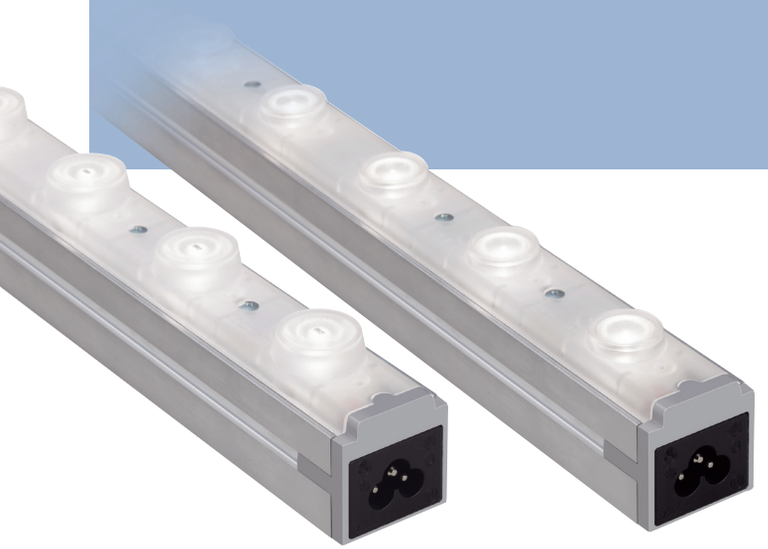
Bracket for Surface Mounting
(for end unit)
RB-391N
<1 pair, Both end>

Bracket for Surface Mounting
(for in-line interconnection)
RB-392N
<1 pc.>

■Cornice lighting

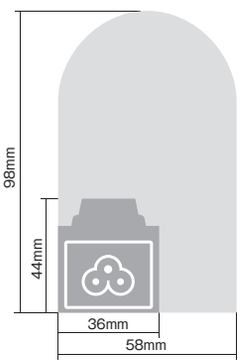


Bracket for Vertical Surface Mounting
(for end unit or in-line interconnection)
RB-395N
<1 pc.>



L-series Indirect Lights are compact LED Line Units with a light intensity equivalent to that of conventional fluorescent indirect lights. They produce direct ambient lighting as well as lighting through various other usage and installation methods.

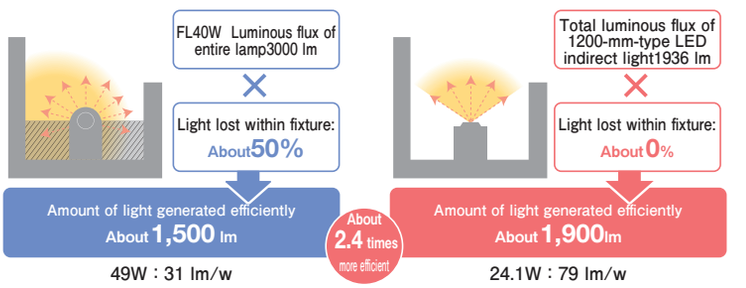
The fixture's cross-sectional area is only about 30% that of a conventional indirect fixture.



This model features a cross-sectional area only about one-third that of a conventional indirect fluorescent lighting fixture.
As a result, integrated lighting fixtures can be reduced to one-half the size or less.

High-efficiency illumination

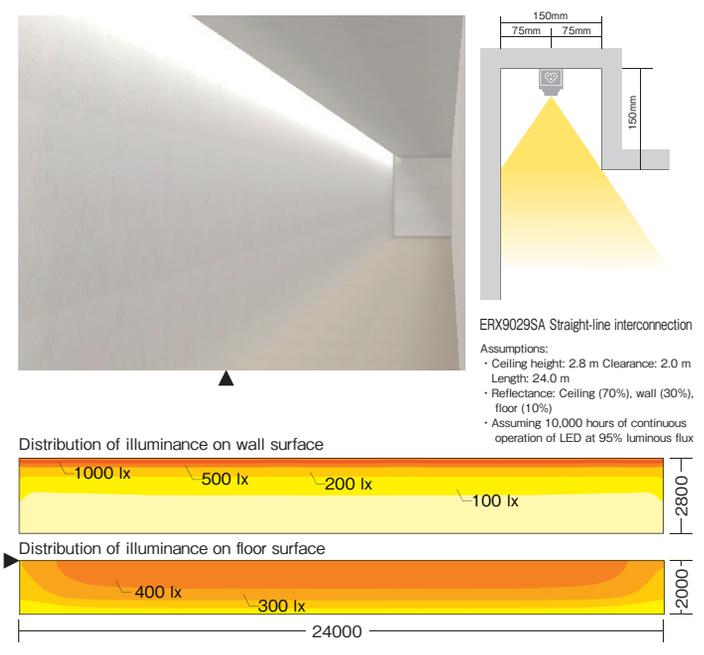
Compared with fixtures having conventional light sources, LED indirect light units with controlled light distribution produce light effectively at low power consumption levels.



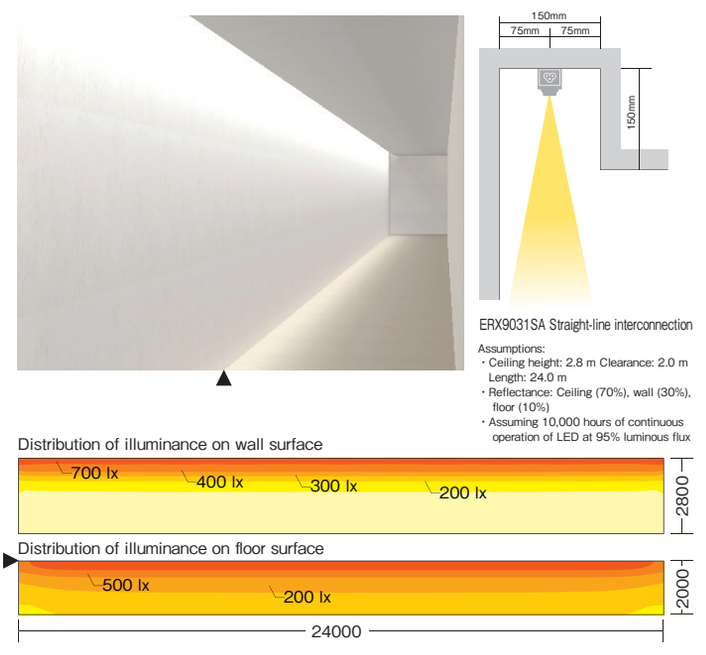
Simulation 1

Illustration of indirect lighting in hall cornice

■Base light distribution



■Rectangular light distribution



We warrant our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement). For details, see Catalog p. 121.

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

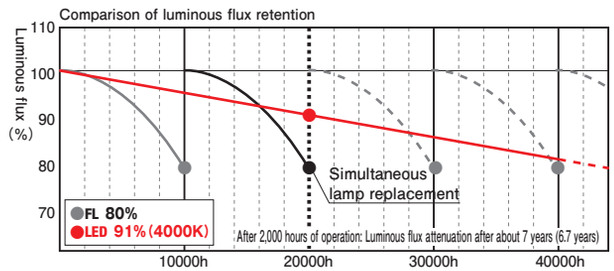
Rich color variations and high color rendering

We offer a full line of color temperatures that expand the range of interior presentations. Our high-color-rendering types reproduce interior colors with great fidelity. Choose from clear white (5000K) to warm color (3000K) to meet your interior requirements.

Color Temperature/ Color Quality	Base Light Distribution	Rectangular Light Distribution
4000K For high efficiency Ra70	○	○
3000K For accurate color renderingRa70	●	●

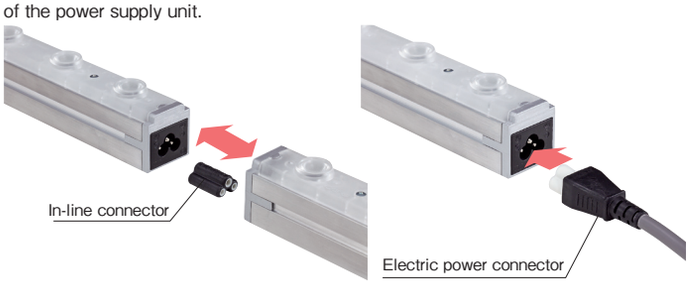
Reduced lamp maintenance requirements

Because LED lamps boast about four times the service life of conventional fluorescent lamps, the need for lamp replacement is greatly reduced. This is especially advantageous for difficult installations such as indirect lighting applications.



Integrated Power Supply

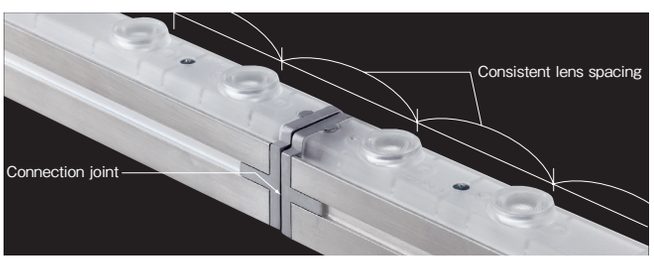
The built-in power supply unit is self-adapting to voltages ranging between 100V and 242V. This avoids the difficulty of securing a separate location for the mounting of the power supply unit.



Seamless, one-touch assembly

※Comparison with wholesale replacement of conventional light sources after 10,000 hours of operation

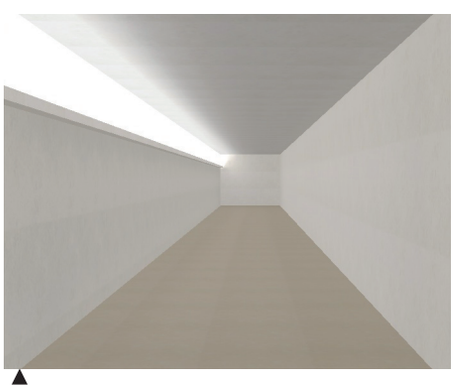
To ensure uniform light is produced at the joints, LED (lens) intervals are arranged to produce a continuous linear light.

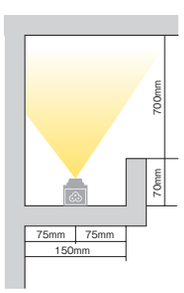


Simulation 2

Illustration of indirect lighting from a hallway cove

■Illumination from cove on one wall: Base light distribution

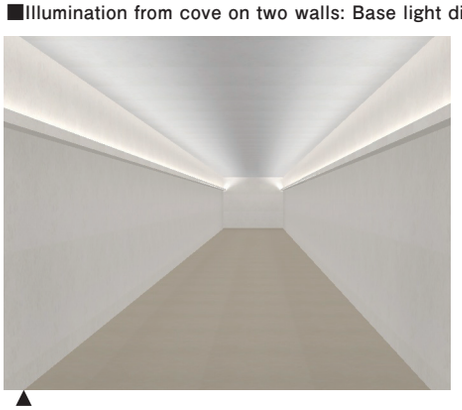


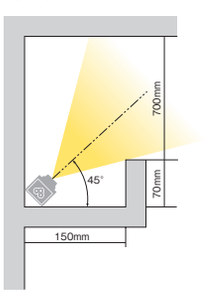


ERX9029SA Straight-line interconnection

Assumptions:
- Ceiling height: 3.0 m Clearance: 3.5 m Length: 24.0 m
- Reflectance: Ceiling (70%), wall (30%), floor (10%)
- Assuming 10,000 hours of continuous operation of LED at 95% luminous flux

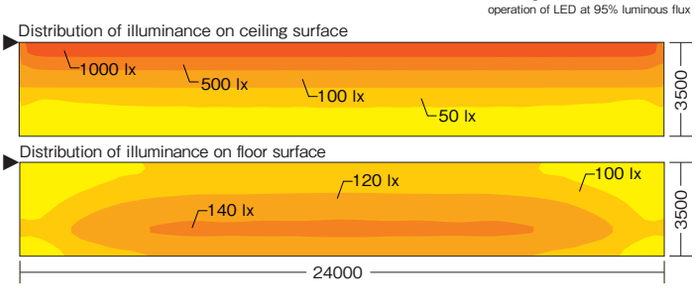
■Illumination from cove on two walls: Base light distribution

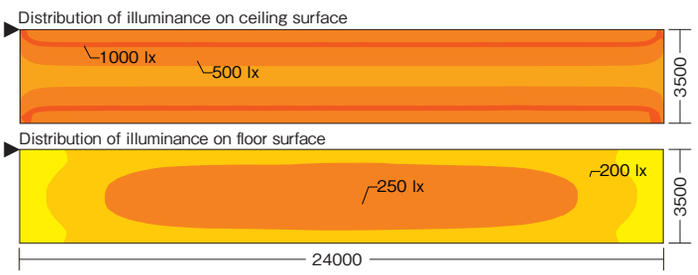




ERX9029SA Straight-line interconnection
(RB-355N interconnected and mounted at 45° angle)

Assumptions:
- Ceiling height: 3.0 m Clearance: 3.5 m Length: 24.0 m
- Reflectance: Ceiling (70%), wall (30%), floor (10%)
- Assuming 10,000 hours of continuous operation of LED at 95% luminous flux





Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

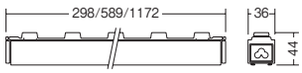
Non-dimmable

Eco Energy-Efficient

Voltage range 100-242

Rated service life of LED: 40,000 hours

Integrated Driver



54°
Base Light Distribution

Design registration pending

L20L

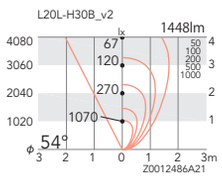
Ra 85

Ra 70

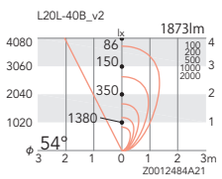
L=1172mm
LED Line Unit
Power consumption : 24.1W
Weight: 1.0 kg / Simple mounting bracket included as accessory (3 per box).

Aluminium (anodized finish)
Non-replaceable LED
Non-dimmable
With in-line connector
Requires optional electrical connector (RB-353N/RB-356N)

ERX9030SB
with integrated driver
Warm color (3000K)
L20L-H30B



ERX9029SA
with integrated driver
Natural white (4000K)
L20L-40B



L10M

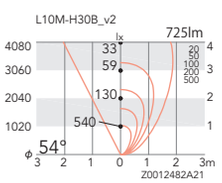
Ra 85

Ra 70

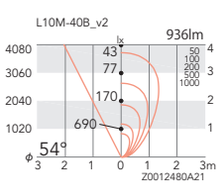
L=589mm
LED Line Unit
Power consumption : 12.3W
Weight: 0.6 kg / Simple mounting bracket included as accessory (2 per box).

Aluminium (anodized finish)
Non-replaceable LED
Non-dimmable
With in-line connector
Requires optional electrical connector (RB-353N/RB-356N)

ERX9024SB
with integrated driver
Warm color (3000K)
L10M-H30B



ERX9023SA
with integrated driver
Natural white (4000K)
L10M-40B



L5S

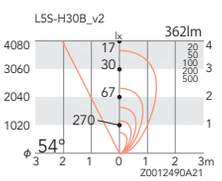
Ra 85

Ra 70

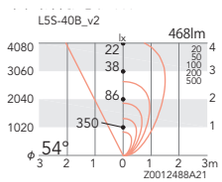
L=298mm
LED Line Unit
Power consumption : 6.6W
Weight: 0.4 kg / Simple mounting bracket included as accessory (2 per box).

Aluminium (anodized finish)
Non-replaceable LED
Non-dimmable
With in-line connector
Requires optional electrical connector (RB-353N/RB-356N)

ERX9018SB
with integrated driver
Warm color (3000K)
L5S-H30B



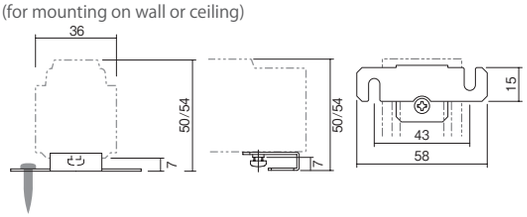
ERX9017SA
with integrated driver
Natural white (4000K)
L5S-40B



OPTION

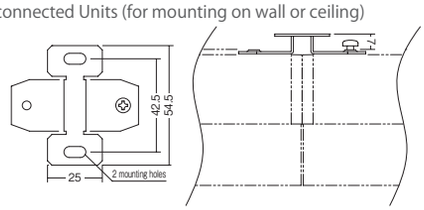
Mounting Bracket (for mounting on wall or ceiling)

RB-375N
<1 pair>



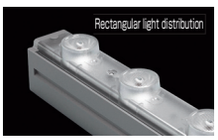
Mounting Bracket for Interconnected Units (for mounting on wall or ceiling)

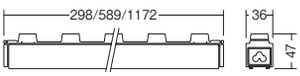
RB-387N
<1 pair>



We warrant our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement). For details, see Catalog p. 121.

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

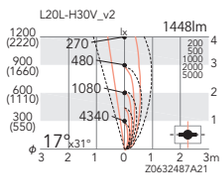




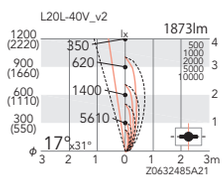
17°×31°
Rectangular
Light Distribution
Design registration pending
Patent pending

L20L Ra 85 / Ra 70

ERX9032SB
with integrated driver
Warm color (3000K)
L20L-H30V

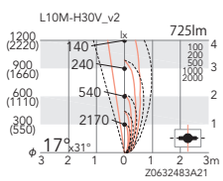


ERX9031SA
with integrated driver
Natural white (4000K)
L20L-40V

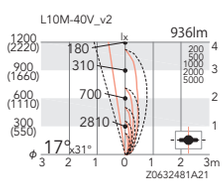


L10M Ra 85 / Ra 70

ERX9026SB
with integrated driver
Warm color (3000K)
L10M-H30V

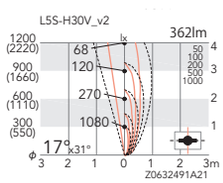


ERX9025SA
with integrated driver
Natural white (4000K)
L10M-40V

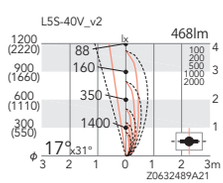


L5S Ra 85 / Ra 70

ERX9020SB
with integrated driver
Warm color (3000K)
L5S-H30V



ERX9019SA
with integrated driver
Natural white (4000K)
L5S-40V

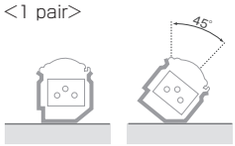


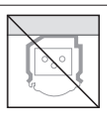
〈Interconnection Limits〉

- Use only the link connector provided for interconnections.
- Self-adapting power supply accommodates 100 V–242 V.
- Do not exceed the input current limit of 2.0 A (total for all interconnected units).

Model No.	Length		Interconnection Limit	Input Current/ Unit
ERX9029SA / ERX9030SB ERX9031SA / ERX9032SB	1172mm	200V	14 units	128mA
ERX9023SA / ERX9024SB ERX9025SA / ERX9026SB	589mm	200V	28 units	66mA
ERX9017SA / ERX9018SB ERX9019SA / ERX9020SB	298mm	200V	40 units	41mA

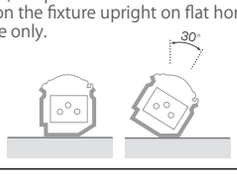
Simplified Mounting Bracket
(compatible with 45° tilt mounting)
RB-355N
<1 pair>



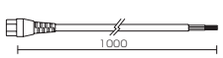


Not for use on wall or ceiling. Position the fixture upright on flat horizontal surface only.

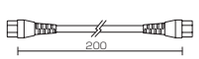
Simplified Mounting Bracket included with fixture (compatible with 30° tilt mounting). Position the fixture upright on flat horizontal surface only.



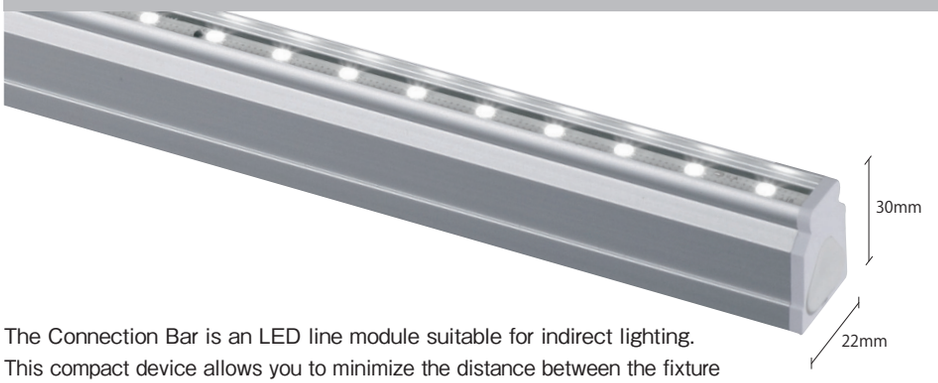
Power Supply Cable Connector (feed wire type)
RB-353N
L=1000
250V/2.5A



In-line Connection Cable
RB-354N
L=200
250V/2.5A



INDIRECT LIGHT
Connection Bar

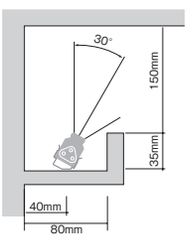


Hotel Elsereine Osaka
Design: Nikken Sekkei Ltd.
Construction: Takenaka Corporation
Lighting Design: STYLE MA'TEC., Ltd.

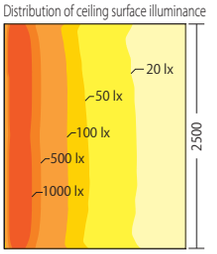
The Connection Bar is an LED line module suitable for indirect lighting. This compact device allows you to minimize the distance between the fixture and the ceiling surface.
Moreover, with an optional mounting bracket (providing a 30° tilt angle), you can set the amount of surface exposed to light in order to suit your application.

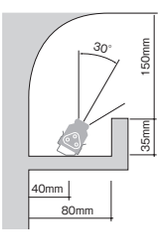
Cove lighting

With this indirect lighting method, soft light is diffused across the ceiling surface from behind a baffle that extends along the top of the wall. This approach has been widely adopted for hallways, lobbies, and public halls.

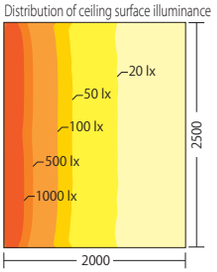


Distribution of ceiling surface illuminance



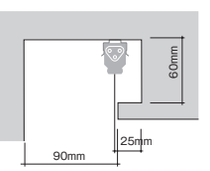


Distribution of ceiling surface illuminance

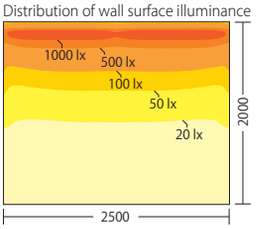


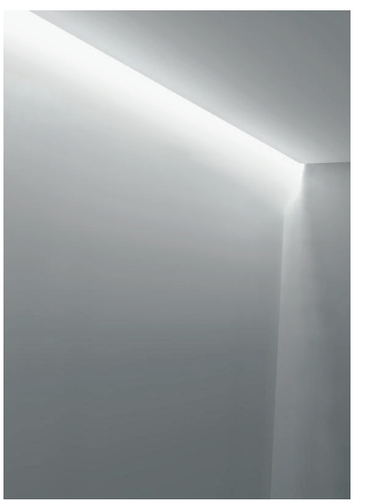
Cornice lighting

This method hides the fixture by creating a parallel light projection zone on the ceiling that illuminates the wall surface below. This approach is suitable for use in areas such as under counters, along hallways, and in elevator lobbies.



Distribution of wall surface illuminance

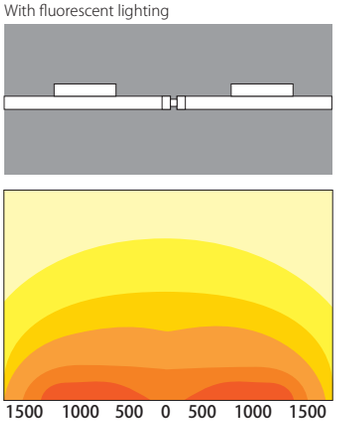




Pleasing, uniform light without socket shadows

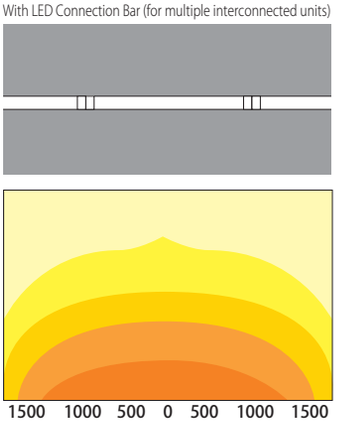
The Connection Bar can be installed in a confined space. It effectively produces a uniform light on ceilings, even those located in small spaces.

With fluorescent lighting



Conventional fluorescent lighting produces a shadow between fixtures, depending on the difference in height between the fixture and lamp.

With LED Connection Bar (for multiple interconnected units)



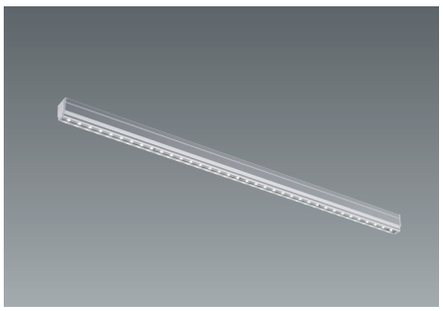
Because the LED connection bar contributes to uniform light coverage, it eliminates any irregularities in the appearance of the light.

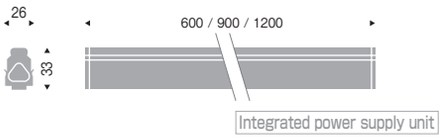
〈Interconnection Limits for LED Line Units〉

- Use only the link connector provided for interconnections.
- Self-adapting power supply accommodates 100 V–242 V.
- Do not exceed the input current limit of 2.5 A (total for all interconnected units).

Model No.	Length		Interconnection Limit	Input Current/ Unit
ERX9110S / ERX9008SB	1200mm	100V when input	12 units	200mA
		200V when input	24 units	100mA
ERX9109S / ERX9007SB	900mm	100V when input	16 units	150mA
		200V when input	31 units	78mA
ERX9108S / ERX9006SB	600mm	100V when input	24 units	100mA
		200V when input	48 units	50mA

We warrant our LED modules and power supply units against malfunctions such as failure to light for five years, free of charge (excluding labor cost for installation or replacement). For details, see Catalog p. 121.





Economy Models

Connection Bar

Aluminium (anodized finish)
Non-replaceable LED
With in-line connector

Ra 80

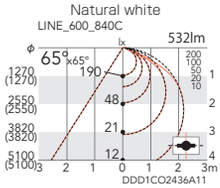
Eco Energy-Efficient | 220-240V | Rated service life of LED: 40,000 hours

Featuring a switch with an integrated pilot lamp, this LED cannot be fully extinguished.

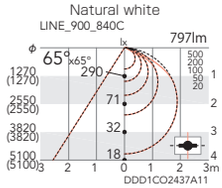
65°×65°

L=600mm	L=900mm	L=1200mm
ERX9108S with integrated driver ○ Natural white (4000K)	**ERX9109S** with integrated driver ○ Natural white (4000K)	**ERX9110S** with integrated driver ○ Natural white (4000K)
ERX9006SB with integrated driver ○ Warm color (3000K)	**ERX9007SB** with integrated driver ○ Warm color (3000K)	**ERX9008SB** with integrated driver ○ Warm color (3000K)
LED Line Unit Power consumption: 9W Weight: 0.4 kg Mounting brackets included (2 pair)	LED Line Unit Power consumption: 14W Weight: 0.6 kg Mounting brackets included (3 pair)	LED Line Unit Power consumption: 18W Weight: 0.8 kg Mounting brackets included (4 pair)

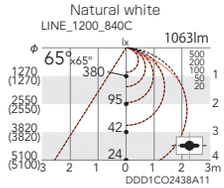
Natural white
LINE_600_840C
532lm



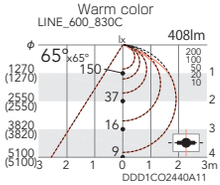
Natural white
LINE_900_840C
797lm



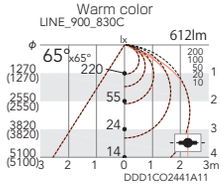
Natural white
LINE_1200_840C
1063lm



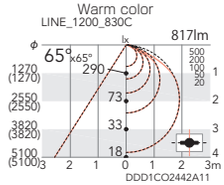
Warm color
LINE_600_830C
408lm



Warm color
LINE_900_830C
612lm

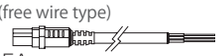


Warm color
LINE_1200_830C
817lm



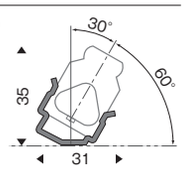
OPTION

Supply Cable Connection (free wire type)
RK-502N
Power rating: 250V/2.5A
〈L=1000mm〉



In-line Connection Cable
RK-501N
Power rating: 250V/2.5A
〈L=200mm〉

Mounting Bracket (30°)
RK-503N
1 pair
Tilt angle: 30°



Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

OUTDOOR LIGHT

S series OUTDOOR SPOT LIGHT

Outdoor Spot Light

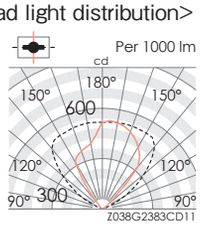
Committed to developing reliable fixtures.

Our proprietary LED light distribution control lens is driving the evolution of innovative new lighting.

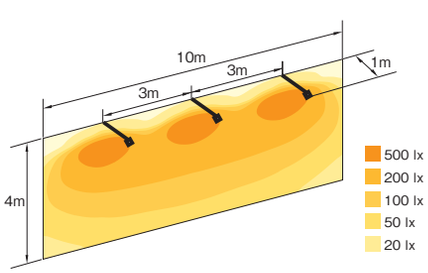
We offer a broad range of light distribution choices.

In addition to our horizontal and vertical light distribution offerings for illuminating walls and signs, we offer new horizontal long light distribution that provides even more illumination choices. In addition, the greater range of this horizontal light allows for increased spacing between fixtures. This horizontal light distribution can be used to uniformly illuminate a wider area, while vertical light distribution irradiates in a vertical direction. Simply choose the product that best suits the characteristics of the target object.

<Horizontal wide spread light distribution>

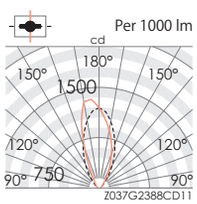


■ Distribution of illuminance on wall surface

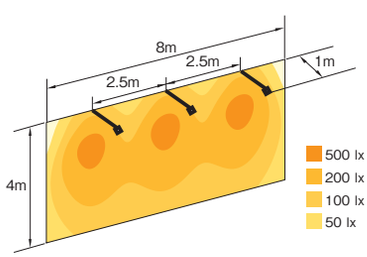


[ERS3415S + ARM]
Initial illuminance/1.0 m from wall/3-m pitch/3 units installed/18° swing

<Horizontal light distribution>

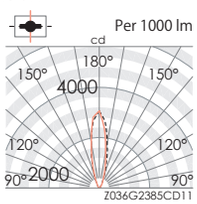


■ Distribution of illuminance on wall surface

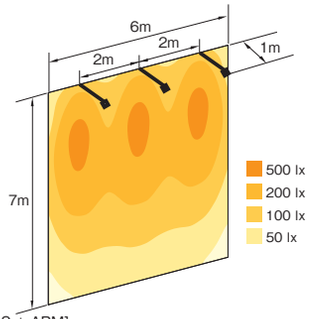


[ERS3639S + ARM]
Initial illuminance/1.0 m from wall/2.5-m pitch/3 units installed/20° swing

<Vertical light distribution>



■ Distribution of illuminance on wall surface

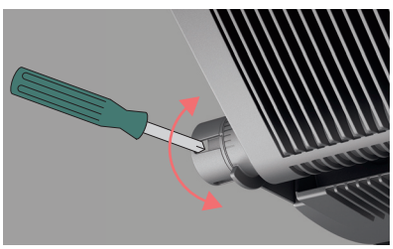


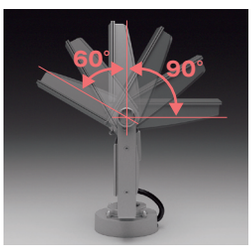
[ERS3641S + ARM]
Initial illuminance/1.0 m from wall/2.0-m pitch/3 units installed/15° swing

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Easy Installation

To adjust the swing angle of the lamp head, simply insert a screwdriver to loosen and retighten the knob.

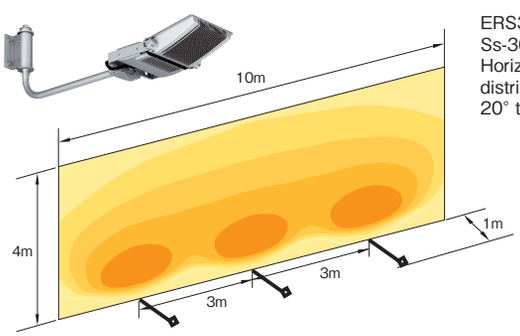




Modules are replaceable for easier maintenance.

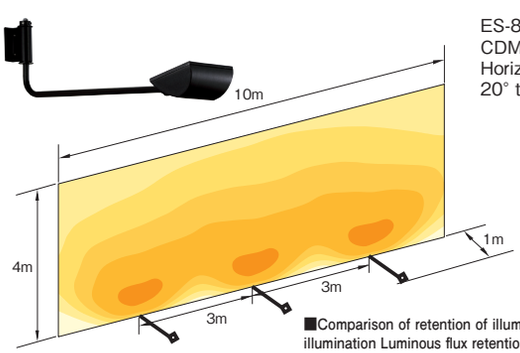
Our LED modules can be repaired and replaced. See Catalog p. 122 for a list of modules available as maintenance parts.
Note: We warranty our LED modules and power supply units against malfunctions, such as failure to light, for five years free of charge (excluding labor cost for installation or replacement). For details, see Catalog p. 121.

Cost Simulation



ERS3773S+ARM
Ss-36 63W × 3 units
Horizontal long light distribution
20° tilt setting

500 lx
200 lx
100 lx
50 lx
20 lx

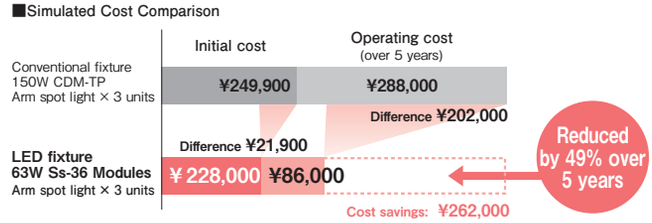


ES-8959H
CDM-TP 150W × 3 lamps
Horizontal light distribution
20° tilt angle

500 lx
200 lx
100 lx
50 lx
20 lx

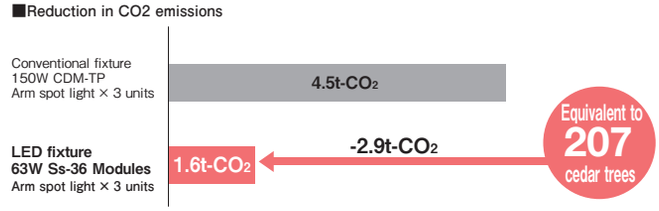
■Comparison of retention of illuminance after 10,000 hours of illumination Luminous flux retention rate: CDM-TP: 50% LED: 81%
(Luminous flux retention rate/including fixture maintenance rate)

■Simulated Cost Comparison



※Assumptions: Operating 12 business hours/day, 360 business days/year. Power cost: ¥21/kWh (excludes base rate). Includes cost of lamp replacement.
<in case of Japan>

■Reduction in CO2 emissions



※CO_2 emissions factor: 0.384 kg-CO_2/kWh
Source: Data reported to the press by the Environment Ministry on Dec. 27, 2010
※Annual CO_2 absorption by a cedar tree: 14 kg-CO_2
Source: "Measures to Prevent Global Warming with Green Absorption Sources," Forestry Agency, Ministry of the Environment

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

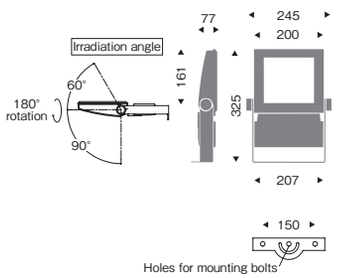
Ss-12 (Equivalent to S-18 Module)

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending

Ss-12 LED Module included
Power consumption: 22.5W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Resin (transparent polycarbonate)
Weight:3.1 kg
Can be mounted in any orientation.
Non-dimmable

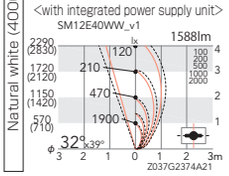


Non-dimmable

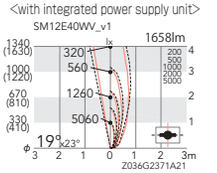
Horizontal | Vertical

Natural white (4000K)

Ra 85
ERS3631S
<with integrated power supply unit>
SM12E40WW_v1
1588lm

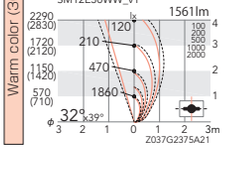


Ra 85
ERS3633S
<with integrated power supply unit>
SM12E40WV_v1
1658lm

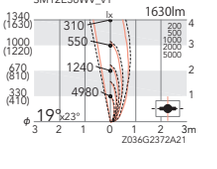


Warm color (3000K)

Ra 85
ERS3632S
<with integrated power supply unit>
SM12E30WW_v1
1561lm



Ra 85
ERS3634S
<with integrated power supply unit>
SM12E30WV_v1
1630lm



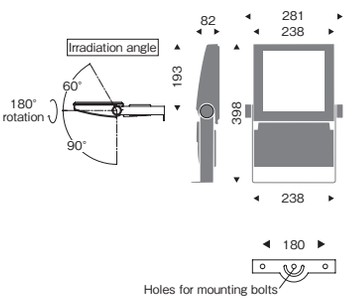
Ss-24 (Equivalent to S-30 Module)

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending

Ss-24 LED Module included
Power consumption:43W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Resin (transparent polycarbonate)
Weight:4.8 kg
Can be mounted in any orientation.
Non-dimmable

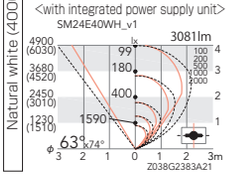


Non-dimmable

Horizontal wide spread

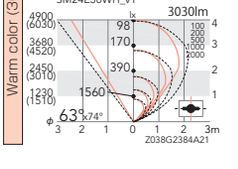
Natural white (4000K)

Ra 85
ERS3413S
<with integrated power supply unit>
SM24E40WH_v1
3081lm



Warm color (3000K)

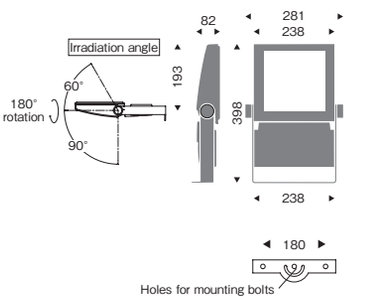
Ra 85
ERS3414S
<with integrated power supply unit>
SM24E30WH_v1
3030lm



Design registration pending

Ss-24 LED Module included
Power consumption:43W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Resin (transparent polycarbonate)
Weight:4.8 kg
Can be mounted in any orientation.
Non-dimmable

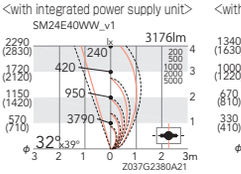


Non-dimmable

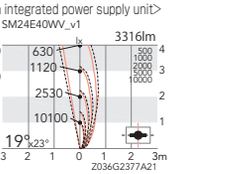
Horizontal | Vertical

Natural white (4000K)

Ra 85
ERS3635S
<with integrated power supply unit>
SM24E40WW_v1
3176lm

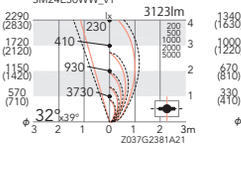


Ra 85
ERS3637S
<with integrated power supply unit>
SM24E40WV_v1
3316lm

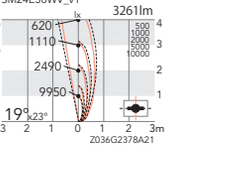


Warm color (3000K)

Ra 85
ERS3636S
<with integrated power supply unit>
SM24E30WW_v1
3123lm

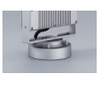


Ra 85
ERS3638S
<with integrated power supply unit>
SM24E30WV_v1
3261lm



OPTION

Arm as custom made
Metallic finish (silver metallic)



Flange as custom made
Metallic finish (silver metallic)

LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

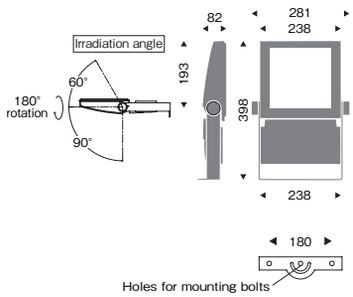
Ss-36 (Equivalent to S-48 Module)

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending

Ss-36 LED Module included
Power consumption: 63W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Resin (transparent polycarbonate)
Weight: 5.0 kg
Can be mounted in any orientation.
Non-dimmable



■ Non-dimmable

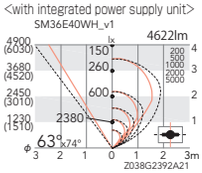
Horizontal wide spread

Natural white (4000K)

Ra 85

ERS3415S

<with integrated power supply unit>

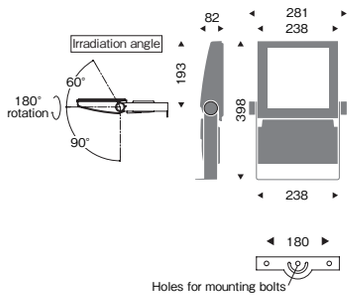


Warm color (3000K)

Design registration pending

Ss-36 LED Module included
Power consumption: 63W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Resin (transparent polycarbonate)
Weight: 5.0 kg
Can be mounted in any orientation.
Non-dimmable



■ Non-dimmable

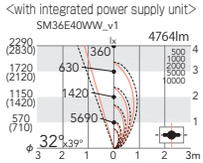
Horizontal | Vertical

Natural white (4000K)

Ra 85

ERS3639S

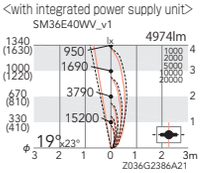
<with integrated power supply unit>



Ra 85

ERS3641S

<with integrated power supply unit>



Warm color (3000K)

OPTION

Arm as custom made
Metallic finish (silver metallic)

Flange as custom made
Metallic finish (silver metallic)

LED module (maintenance part, sold separately) ▶ p.122

All that's required for beautifully appealing illumination

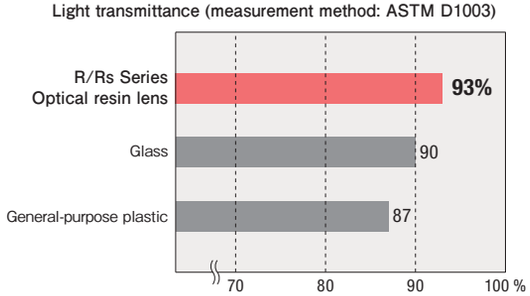
Designed for use in severe environments, our spotlights are expertly designed for excellent weather-resistance and high durability while offering all the benefits of LEDs. They are the ideal choice for beautiful landscape design.

optical LENS

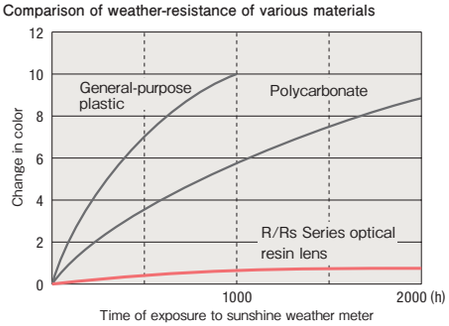
Features a highly weather-resistant lens

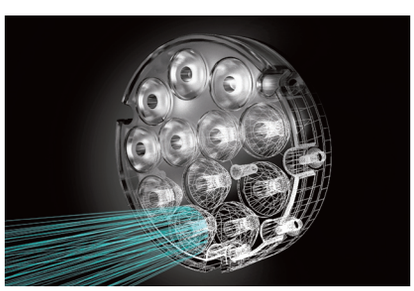
Designed for exposure to sunlight and general outdoor use, this optical lens incorporates a special weather-resistant plastic that also resists yellowing over time. As a result, it retains its original color and brightness throughout its long service life.

Light transmittance (measurement method: ASTM D1003)



Comparison of weather-resistance of various materials

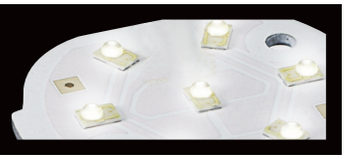




LED optical control lens

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

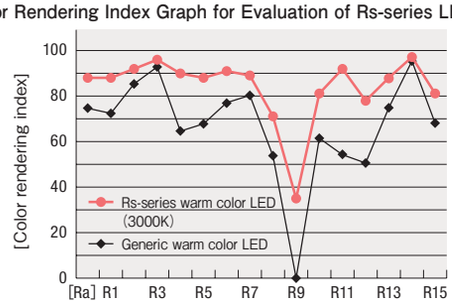
Ra 85+ + UV&IR Free



Excellent color rendering

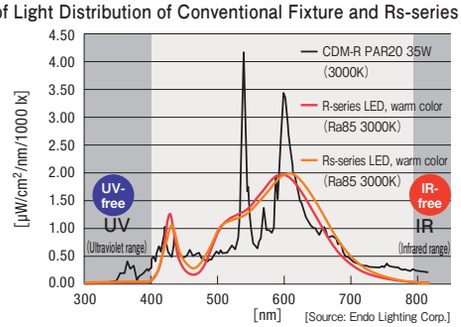
Endo uses LED chips with excellent color rendering properties that increase the color fidelity of the illuminated target object. When illuminating trees, plants, and other greenery, this light preserves the natural and distinct colors of the vegetation, and imparts less harmful infrared radiation.

Color Rendering Index Graph for Evaluation of Rs-series LEDs



[Source: Endo Lighting Corp.]

Comparison of Light Distribution of Conventional Fixture and Rs-series LED Modules

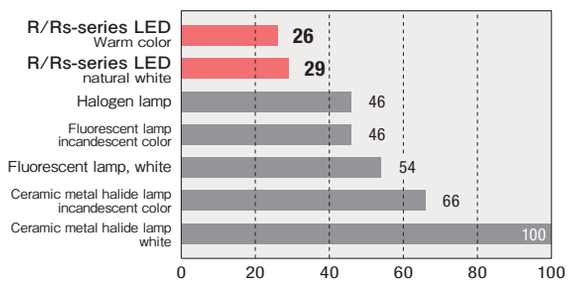


[Source: Endo Lighting Corp.]

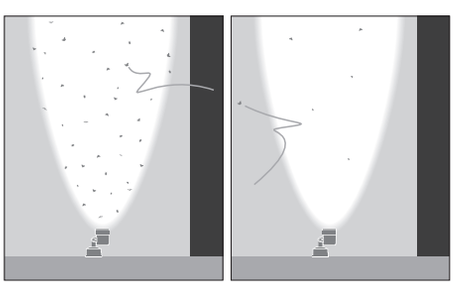
Insect Repellency

The reduced UV radiation emitted by these fixtures creates an insect-repelling effect.

Graph of insect repellency ratio



※Note: The white value produced by a ceramic metal halide lamp is assigned an index value of 100.
(Source: Endo Lighting Corp.)

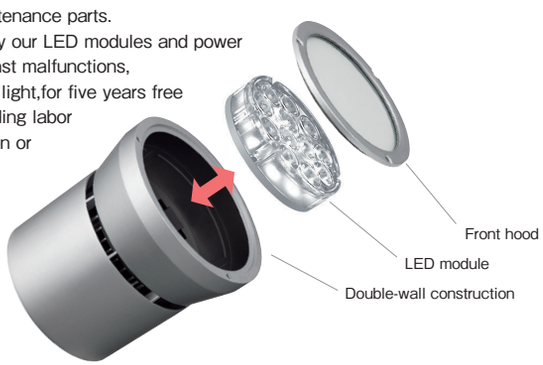


Generic discharge lamp LED

MAINTENANCE

LED modules are replaceable for easier maintenance.

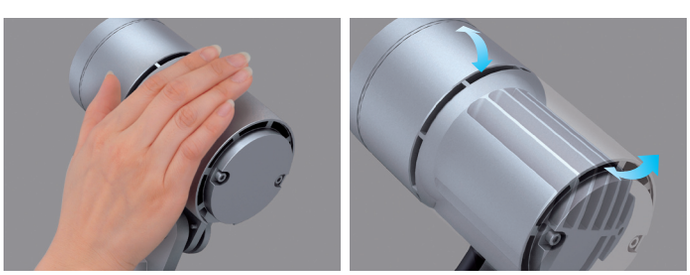
Our LED modules can be repaired and replaced.
See Catalog p. 122 for a list of modules available as maintenance parts.
Note: We warranty our LED modules and power supply units against malfunctions, such as failure to light,for five years free of charge (excluding labor cost for installation or replacement).



COOLing SYSTEM

Double-wall conduction for excellent heat dissipation

Endo's double-wall construction functions as a cooling system that dissipates heat from the LED, providing enhanced safety in case of physical contact.



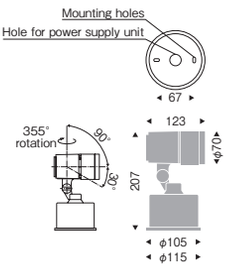
Rs-5 (equivalent to R-7 module)

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

Patent pending

Rs-5 LED Module included
Power consumption: 9W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Clear tempered glass
Weight: 1.2 kg
Can be mounted in any orientation.
Non-dimmable



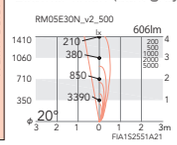
■ Non-dimmable

20° 25° 33°

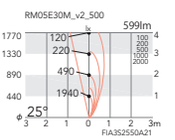
Warm color (3000K)

Ra 85

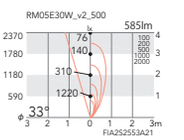
ERS3138SB
Metallic finish (silver metallic)
ERS3138HB
Leather finish (dark grey)

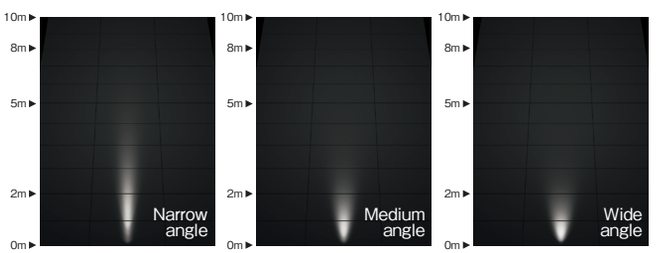


ERS3315SB
Metallic finish (silver metallic)
ERS3315HB
Leather finish (dark grey)



ERS3140SB
Metallic finish (silver metallic)
ERS3140HB
Leather finish (dark grey)





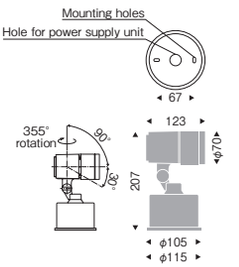
Rs-7 (equivalent to R-9 module)

Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

Patent pending

Rs-7 LED Module included
Power consumption: 12.7W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Clear tempered glass
Weight: 1.2 kg
Can be mounted in any orientation.
Non-dimmable



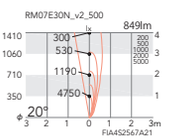
■ Non-dimmable

20° 25° 33°

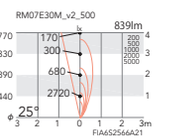
Warm color (3000K)

Ra 85

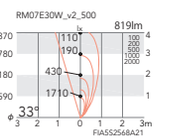
ERS3142SB
Metallic finish (silver metallic)
ERS3142HB
Leather finish (dark grey)

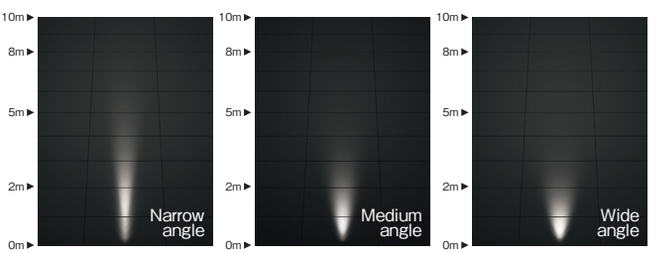


ERS3317SB
Metallic finish (silver metallic)
ERS3317HB
Leather finish (dark grey)



ERS3144SB
Metallic finish (silver metallic)
ERS3144HB
Leather finish (dark grey)

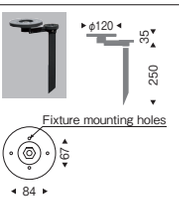




OPTION

Diffusion Filter
RB-305B

Honeycomb Louver
RB-306B
Matt black



Spike
B-489H
Leather finish (dark grey)
Die-cast aluminium
Weight: 1.0 kg
Compatible cable diameter: 8.5–10.5 mm
Weatherproof

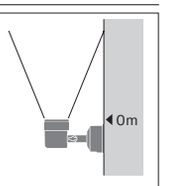


Illustration of spotlight illumination when mounted on wall

LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-9 (equivalent to R-12 module)

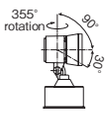
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

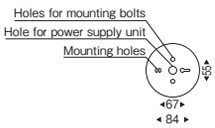
Design registration pending
Patent pending

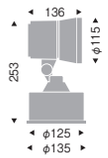
The three lenses in the center of this module, which is used in common with the R/Rs-12, are unused.

Rs-9 LED Module included
Power consumption: 16W

with integrated driver
Die-cast aluminium
Metallic finish
(silver metallic)
Clear tempered glass
Weight: 2.3 kg
Can be mounted in any orientation.
Non-dimmable







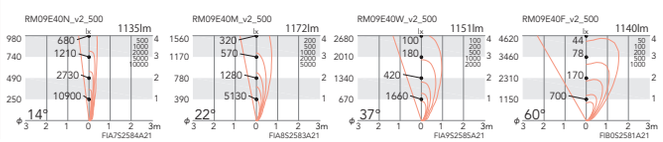
Non-dimmable

14° 22° 37° 60°

Natural white (4000K)

Ra 70

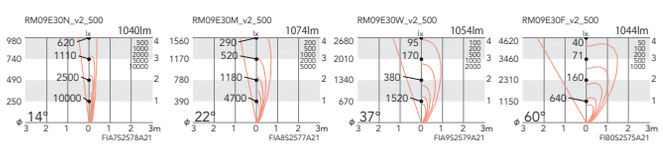
ERS3445SA 1135lm | **ERS3447SA** 1172lm | **ERS3449SA** 1151lm | **ERS3451SA** 1140lm

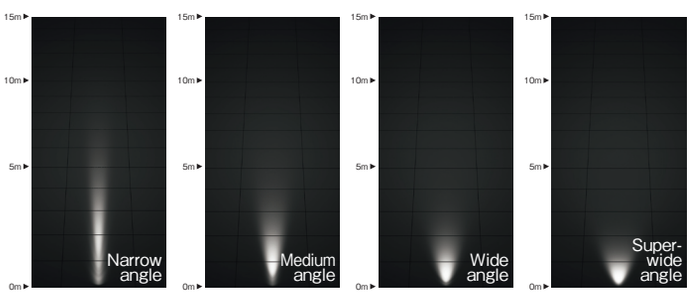


Warm color (3000K)

Ra 85

ERS3446SA 1040lm | **ERS3448SA** 1074lm | **ERS3450SA** 1054lm | **ERS3452SA** 1044lm





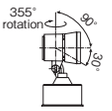
Rs-12 (equivalent to R-18 module)

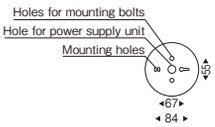
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

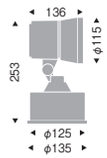
Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 21W

with integrated driver
Die-cast aluminium
Metallic finish
(silver metallic)
Clear tempered glass
Weight: 2.3 kg
Can be mounted in any orientation.
Non-dimmable







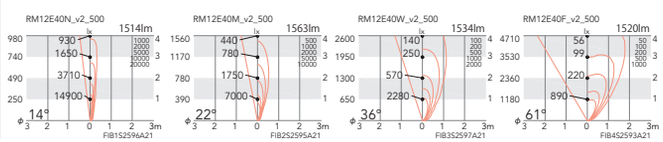
Non-dimmable

14° 22° 36° 61°

Natural white (4000K)

Ra 70

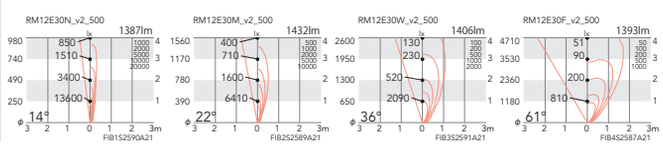
ERS3437SA 1514lm | **ERS3439SA** 1563lm | **ERS3441SA** 1534lm | **ERS3443SA** 1520lm

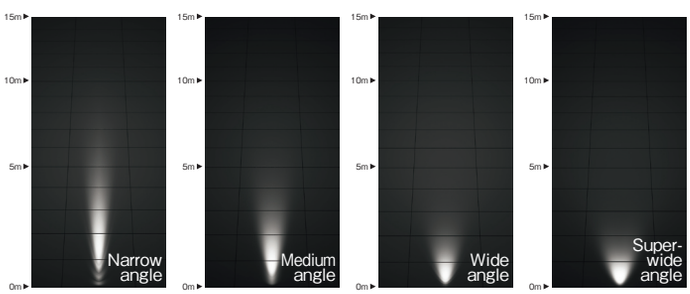


Warm color (3000K)

Ra 85

ERS3438SA 1387lm | **ERS3440SA** 1432lm | **ERS3442SA** 1406lm | **ERS3444SA** 1393lm





OPTION

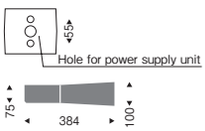
Diffusion Filter
RB-307B

Honeycomb Louver
RB-359B
Matt black

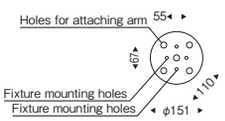
Spike
B-520HA
Leather finish (dark grey)
Die-cast aluminium
Weight: 3.0 kg
Compatible cable diameter: 8.5–10.5 mm
Weatherproof

Arm
B-658SA
Metallic finish (silver metallic)
Die-cast aluminium
Weight: 5.0 kg
Install with anchor bolts.
Can be mounted in any orientation.
Weatherproof

Model numbers ERS3437S through ERS3452S require an adapter (B-679BA) for installation on the arm (B-658SA).



Adapter
B-679BA
Matt black



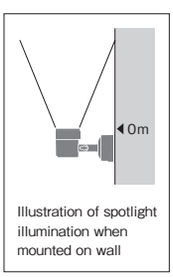


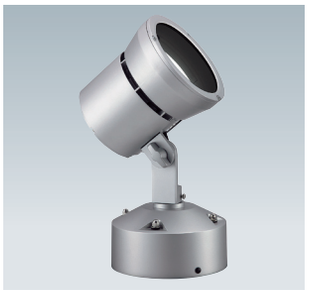
Illustration of spotlight illumination when mounted on wall

LED module (maintenance part, sold separately) ▶ p.122

Rs-18 (equivalent to R-24 Module)

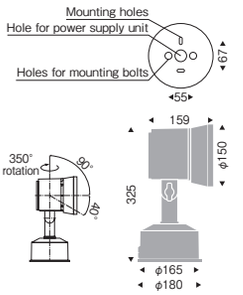
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

Patent pending



Rs-18 LED Module included
Power consumption: 33W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Clear tempered glass
Weight: 4.0 kg
Can be mounted in any orientation.
Non-dimmable



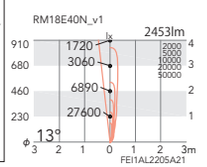
■ Non-dimmable

13° 22° 36° 60°

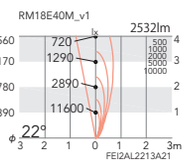
Natural white (4000K)

Ra 85

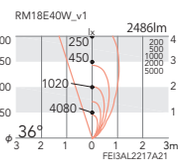
ERS3607S



ERS3609S



ERS3611S



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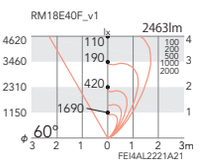
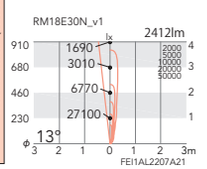


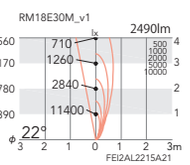
Warm color (3000K)

Ra 85

ERS3608S



ERS3610S



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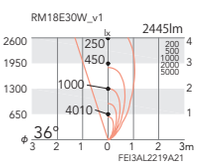

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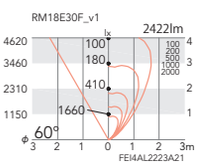
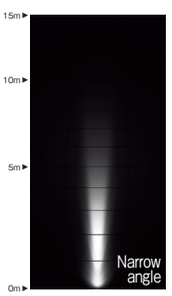
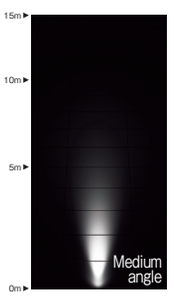
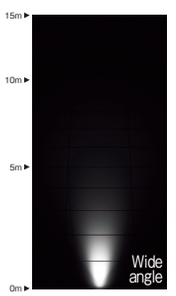
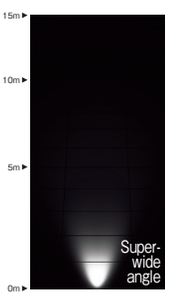
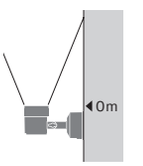












lustration of spotligh
lumination when
ounted on wall

OPTION

Diffusion Filter
RB-309B

Honeycomb Louver
RB-360B
Matt black

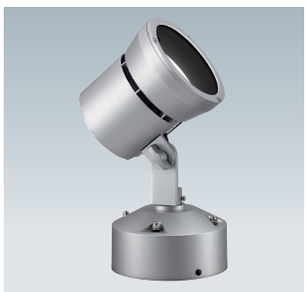
LED module (maintenance part, sold separately) ▶ p.122

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-24 (equivalent to R-30 Module)

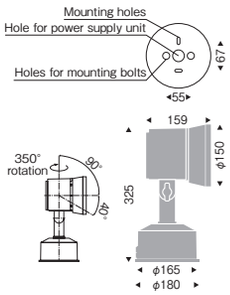
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 67

Patent pending



Rs-24 LED Module included
Power consumption: 43W

with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Clear tempered glass
Weight: 4.0 kg
Can be mounted in any orientation.
Non-dimmable



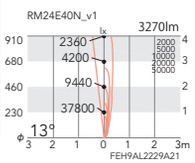
■ Non-dimmable

13° 22° 36° 60°

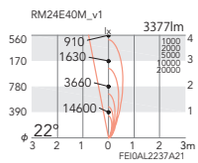
Natural white (4000K)

Ra 85

ERS3615S



ERS3617S



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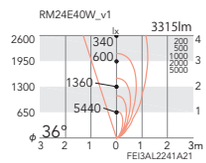
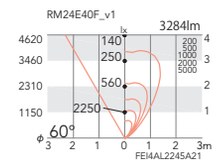


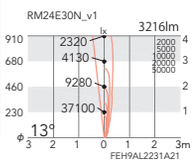
ERS3621S



Warm color (3000K)

Ra 85

ERS3616S



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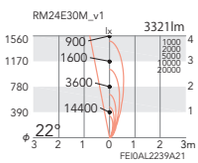

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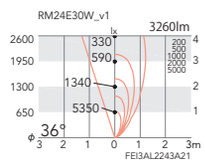

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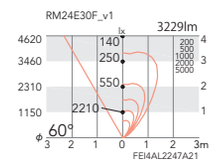
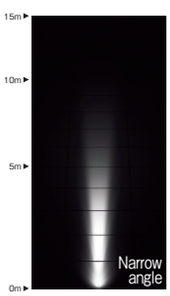
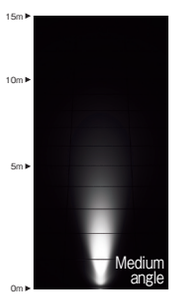
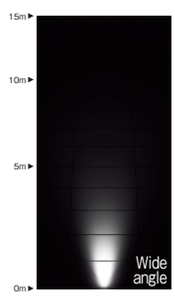
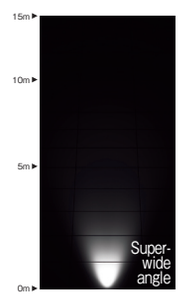
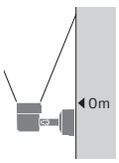












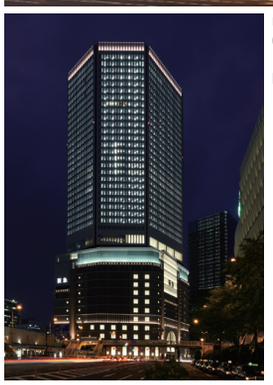
ustration of spotlight
umination when
ounted on wall

OPTION

Diffusion Filter
RB-309B

Honeycomb Louver
RB-360B
Matt black

LED module (maintenance part, sold separately) ▶ p.122

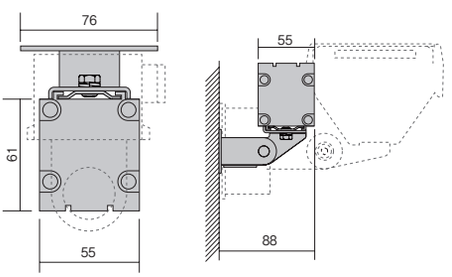


Umeda Hankyu Building
Client: Hankyu Corporation/Hankyu Hanshin Department Stores, Inc.
Design: Nikken Sekkei Ltd.

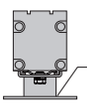
The Outdoor Spotlight provides a new approach to illuminated presentation as an innovative method of indirect lighting. The integration of the LED unit with light distribution control results in minimal size. It contributes to dramatic displays of outdoor lighting with continuous illumination.

Compact Size

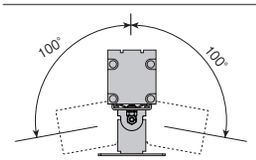
The slim design of the fixture — which measures only 55 mm wide and 61 mm high — makes it useful for installation in limited spaces in an outdoor environment.



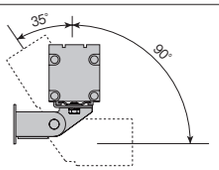
With a choice of mounting brackets to suit your application



Fixture bracket
(clamp)



Optional bracket
(surface-mount adjustable arm)
RB-368S

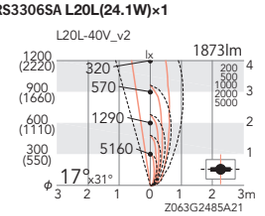


Optional bracket
(wall-mount adjustable arm)
RB-366S

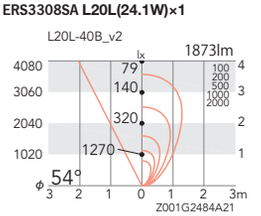
Multiple options for light distribution

Two types of light distribution are available: horizontal long rectangular light, and flat spread base light. These light distribution characteristics are optically designed for indoor indirect lighting, but they can also be used for outdoor spotlighting. This contributes to effective illumination in areas of limited space.

Rectangular light distribution
ERS3306SA L20L(24.1W)×1



Base light distribution
ERS3308SA L20L(24.1W)×1

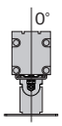


Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

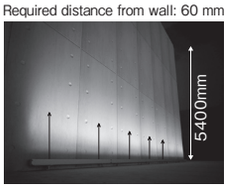
Simulation of light distribution

〈Rectangular light distribution 17°×31°〉

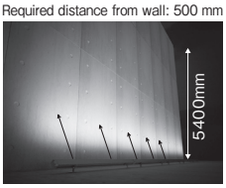
LED fixture
ERS3306SA+RB-368S
L20L (24.1W) ×1

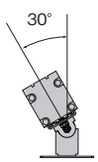


Required distance from wall: 60 mm



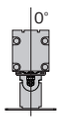
Required distance from wall: 500 mm



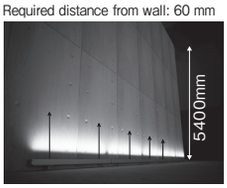


〈Base light distribution 54°〉

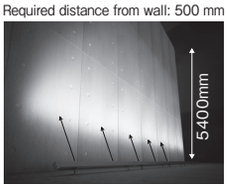
LED fixture
ERS3308SA+RB-368S
L20L (24.1W) ×1

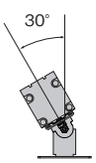


Required distance from wall: 60 mm

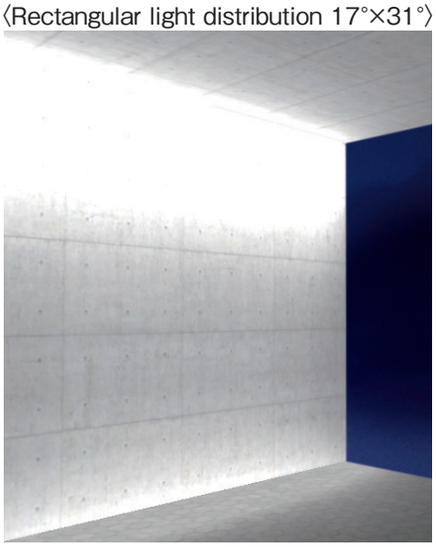


Required distance from wall: 500 mm



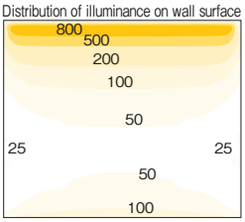


〈Rectangular light distribution 17°×31°〉

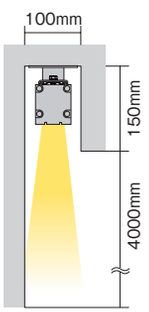


When using cornice illumination

Distribution of illuminance on wall surface



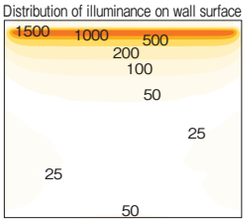
(lx)



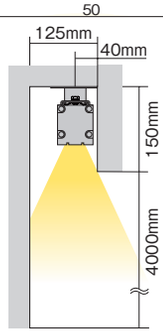
〈Base light distribution 54°〉

When using cornice illumination

Distribution of illuminance on wall surface

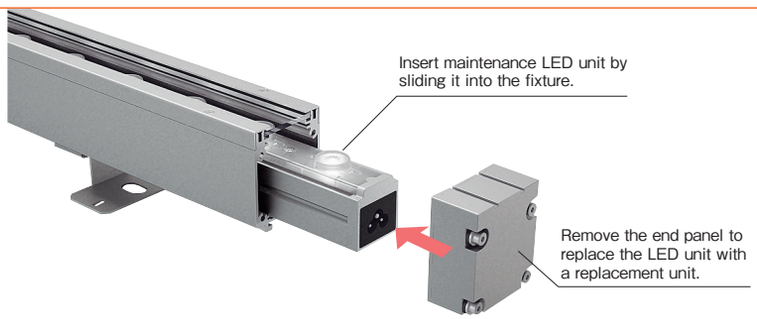


(lx)



LED Units are replaceable for easier maintenance.

Our LED Units incorporating indirect lighting units with integrated power supply units can be repaired and replaced. We warranty our LED modules and power supply units against malfunctions, such as failure to light, for five years free of charge (excluding labor cost for installation or replacement). For details, see Catalog p. 121.



L20L

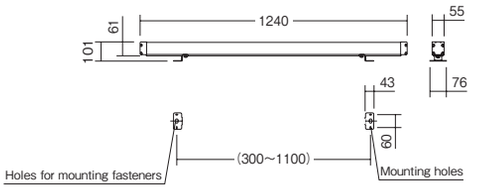
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending

LED Line Unit included
L20L×1
Power consumption: 24.1W

with integrated driver
Aluminium (silver metallic)
Tempered clear glass
Weight: 4.7 kg
Cabtyre cable included (0.5 m)
Mounting brackets included (1 pair)
Non-dimmable

LED Unit (maintenance part, sold separately).



Non-dimmable

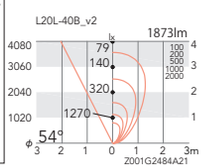
54° Wide beam angle

Natural white (4000K)

Ra 70

ERS3308SA

L20L-40B×1

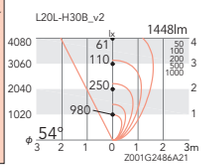


Warm color (3000K)

Ra 85

ERS3309SA

L20L-H30B×1



L10M

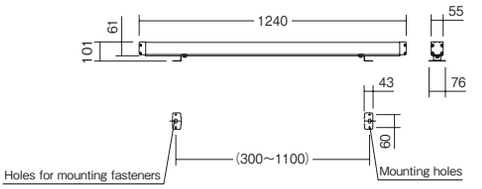
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending

LED Line Unit included
L10M×1
Power consumption: 12.3W

with integrated driver
Aluminium (silver metallic)
Tempered clear glass
Weight: 2.8 kg
Cabtyre cable included (0.5 m)
Mounting brackets included (1 pair)
Non-dimmable

LED Unit (maintenance part, sold separately).



Non-dimmable

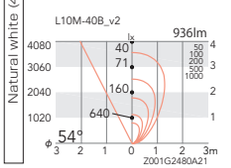
54° Wide beam angle

Natural white (4000K)

Ra 70

ERS3312SA

L10M-40B×1

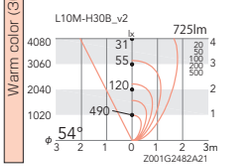


Warm color (3000K)

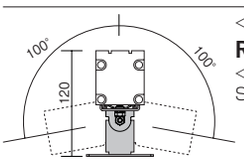
Ra 85

ERS3313SA

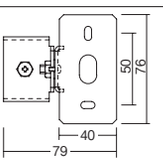
L10M-H30B×1



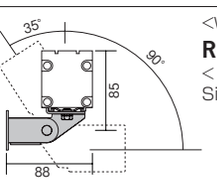
OPTION



<Surface-mount adjustable arms>
RB-368S
<1 pair>
Silver



※Use when an adjustable fixture is desired



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RB-366S
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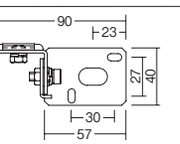
Silver



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

L20L

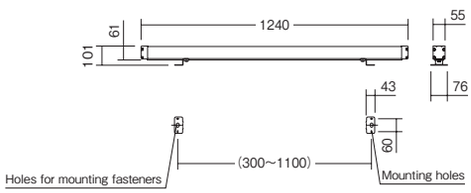
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending
Patent pending

LED Line Unit included
L20L×1
Power consumption: 24.1W

with integrated driver
Aluminium (silver metallic)
Tempered clear glass
Weight: 4.7 kg
Cabtyre cable included (0.5 m)
Mounting brackets included (1 pair)
Non-dimmable

LED Unit (maintenance part, sold separately).



■ Non-dimmable

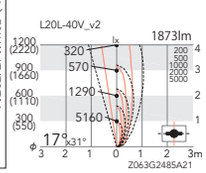
17°× 31° Rectangul light distribution

Natural white (4000K)

Ra 70

ERS3306SA

L20L-40V×1

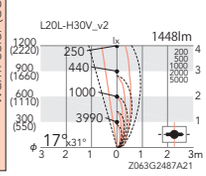


Warm color (3000K)

Ra 85

ERS3307SA

L20L-H30V×1



L10M

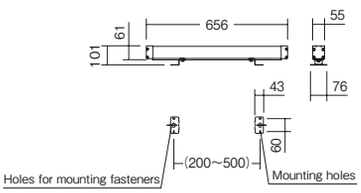
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours | IP 65

Design registration pending
Patent pending

LED Line Unit included
L10M×1
Power consumption: 12.3W

with integrated driver
Aluminium (silver metallic)
Tempered clear glass
Weight: 2.8 kg
Cabtyre cable included (0.5 m)
Mounting brackets included (1 pair)
Non-dimmable

LED Unit (maintenance part, sold separately).



■ Non-dimmable

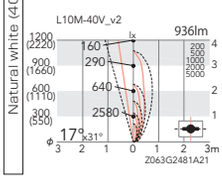
17°× 31° Rectangul light distribution

Natural white (4000K)

Ra 70

ERS3310SA

L10M-40V×1

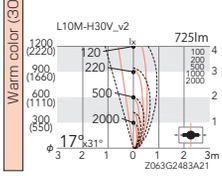


Warm color (3000K)

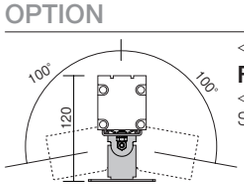
Ra 85

ERS3311SA

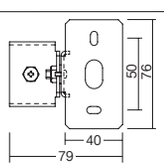
L10M-H30V×1

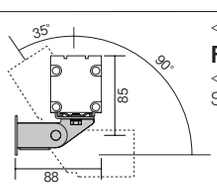


OPTION

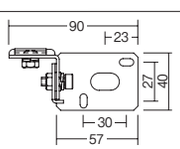


<Surface-mount adjustable arms>
RB-368S
<1 pair>
Silver





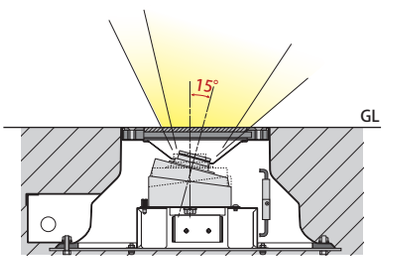
<Wall-mount adjustable arms>
RB-366S
<1 pair>
Silver



CRIPTA Itabashi St.Sophia
Design: Atelier Salt Co., Ltd.
Photography: Toshihiro Imamura

For use in locations with foot traffic

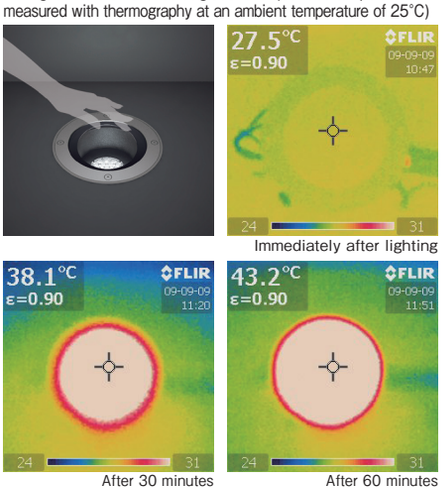
Our series of embedded fixtures can be used a wide range of applications from building interiors to lighting of plants. Now, you can also use them in locations subject to foot traffic.
* This built-in light fixture can be positioned up to 15° and the lighting angle can be fine-tuned after installation.
* Buried Light fixtures at grade level should never be exposed to foot traffic. (Never install any embedded fixture in an area exposed to vehicular traffic.)



The surface of the fixture remains cool to the touch.

Because LED light sources provide a long service life, they are ideal for buried light fixtures whose bulbs are not easily replaced. What's more, safety is assured even if you accidentally touch a lit bulb, as LED light sources characteristically generate very little heat.

R-7 light fixture embedded at grade level (Surface temperature measured with thermography at an ambient temperature of 25°C)

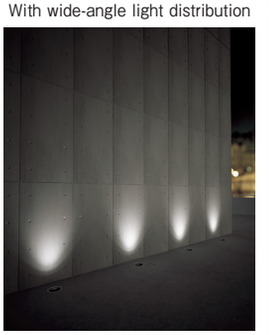


Two approaches to light distribution

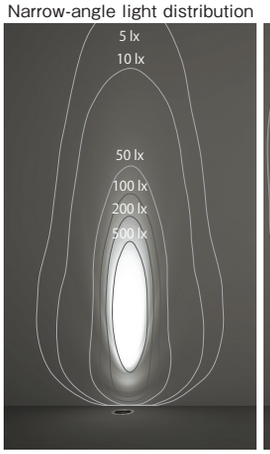
You can select the desired light distribution angle as well as the color temperature and brightness.

With narrow-angle light distribution

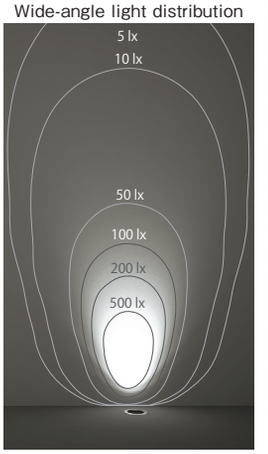
With wide-angle light distribution



Narrow-angle light distribution



Wide-angle light distribution

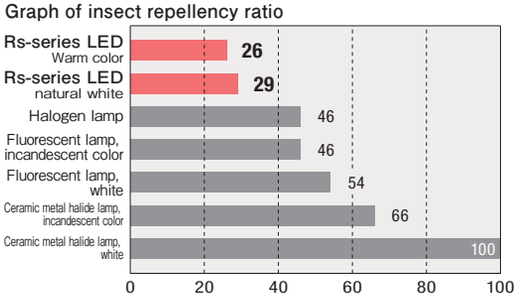


• Vertical profile iso-illuminance distribution (Distance from wall: 300 mm/15° tilt)

Insect repellency

The reduced UV radiation emitted by these fixtures creates an insect-repelling effect.

Graph of insect repellency ratio



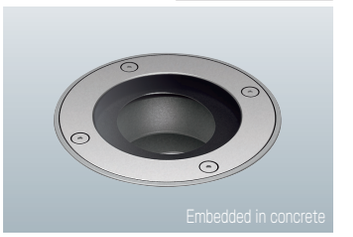
Note: The white value produced by a ceramic metal halide lamp is assigned an index value of 100.
Source: Endo Lighting Corp.

Rs-5 (equivalent to R-7 module)

IP67 | Eco Energy-Efficient | Voltage range 100-242 | 15 | 355°

Rated service life of LED: 40,000 hours

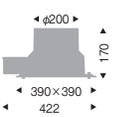
Patent pending



Rs-5 LED Module included
Power consumption: 9W

with integrated driver
Body: Stainless steel
Frame: Stainless steel with hairline finish
Glass: Tempered clear glass
Weight: 10.5 kg
Integrated power supply unit
Non-dimmable
Compatible cable included 12–15 mm dia.
Weatherproof construction (IP67 enclosure rating)
Can be installed in locations with foot traffic.

Do not install in locations subject to vehicle traffic, vibration, or heavy loads. Install only in a well-drained location. Provide adequate drainage in the installation area.



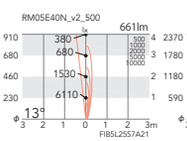
■ Non-dimmable

13° 33°

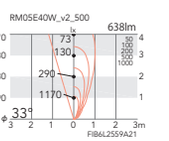
Natural white (4000K)

Ra 70

ERL8017SA



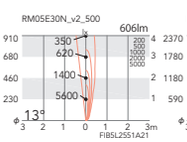
ERL8019SA



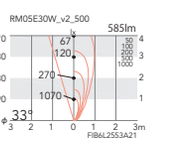
Warm color (3000K)

Ra 85

ERL8018SB



ERL8020SB



LED module (maintenance part, sold separately) ▶ p.122

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

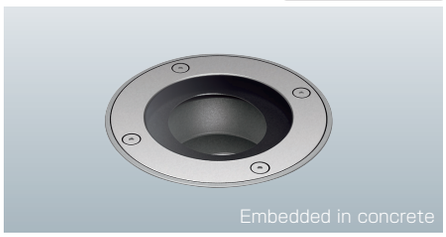
Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-7 (equivalent to R-9 module)

IP67 | Eco Energy-Efficient | Voltage range 100-242 | 15° | 355°

Rated service life of LED: 40,000 hours

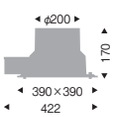
Patent pending



Rs-7 LED Module included
Power consumption: 12.7W

with integrated driver
Body: Stainless steel
Frame: Stainless steel with hairline finish
Glass: Tempered clear glass
Weight: 10.5 kg
Integrated power supply unit
Non-dimmable
Compatible cable included 12–15 mm dia.
Weatherproof construction (IP67 enclosure rating)
Can be installed in locations with foot traffic.

Do not install in locations subject to vehicle traffic, vibration, or heavy loads. Install only in a well-drained location. Provide adequate drainage in the installation area.



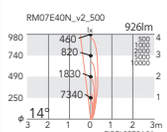
■ Non-dimmable

14° 33°

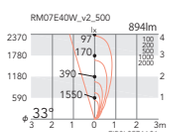
Natural white (4000K)

Ra 70

ERL8021SA



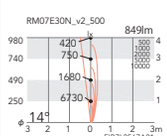
ERL8023SA



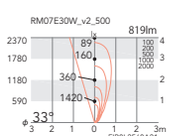
Warm color (3000K)

Ra 85

ERL8022SB



ERL8024SB



Rs-9 (equivalent to R-12 module)

IP67 | Eco Energy-Efficient | Voltage range 100-242 | 15° | 355°

Rated service life of LED: 40,000 hours

Design registration pending

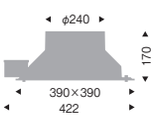
Patent pending

Rs-9 LED Module included
Power consumption: 16W

with integrated driver
Body: Stainless steel
Frame: Stainless steel with hairline finish
Glass: Tempered clear glass
Weight: 10.5 kg
Integrated power supply unit
Non-dimmable
Compatible cable included 12–15 mm dia.
Weatherproof construction (IP67 enclosure rating)
Can be installed in locations with foot traffic.

Do not install in locations subject to vehicle traffic, vibration, or heavy loads. Install only in a well-drained location. Provide adequate drainage in the installation area.

The three lenses in the center of this module, which is used in common with the R-12 module, are unused.



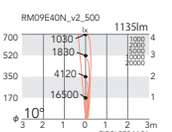
■ Non-dimmable

10° 37°

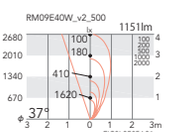
Natural white (4000K)

Ra 70

ERL8025SA



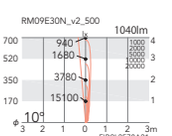
ERL8027SA



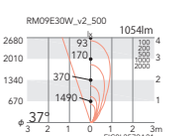
Warm color (3000K)

Ra 85

ERL8026SB



ERL8028SB



Rs-12 (equivalent to R-18 module)

IP67 | Eco Energy-Efficient | Voltage range 100-242 | 15° | 355°

Rated service life of LED: 40,000 hours

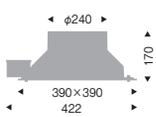
Design registration pending

Patent pending

Rs-12 LED Module included
Power consumption: 21W

with integrated driver
Body: Stainless steel
Frame: Stainless steel with hairline finish
Glass: Tempered clear glass
Weight: 10.5 kg
Integrated power supply unit
Non-dimmable
Compatible cable included 12–15 mm dia.
Weatherproof construction (IP67 enclosure rating)
Can be installed in locations with foot traffic.

Do not install in locations subject to vehicle traffic, vibration, or heavy loads. Install only in a well-drained location. Provide adequate drainage in the installation area.



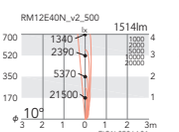
■ Non-dimmable

10° 37°

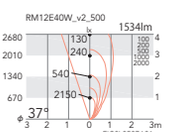
Natural white (4000K)

Ra 70

ERL8029SA



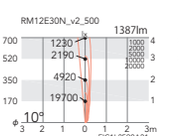
ERL8031SA



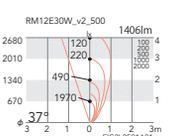
Warm color (3000K)

Ra 85

ERL8030SB



ERL8032SB



LED module (maintenance part, sold separately) ▶ p.122

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

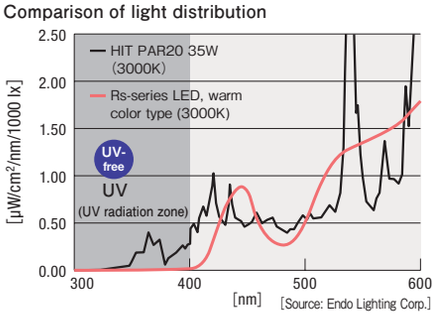
Rs series DOWN LIGHT

Dampproof

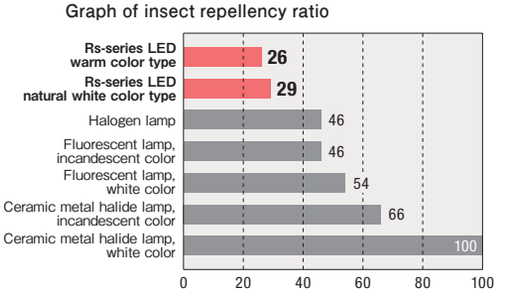
Repels insects.

Our Moisture-resistant Downlight can be used outdoors under roof overhangs. Because the lower shade is mounted on the upper cone as a splashguard, this light has the same cheerful style as a generic downlight. What's more, the reduced UV radiation of this downlight contributes to its insect repellency.

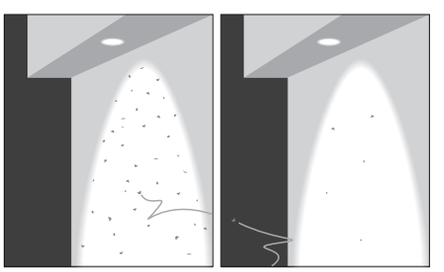
Comparison of light distribution



Graph of insect repellency ratio



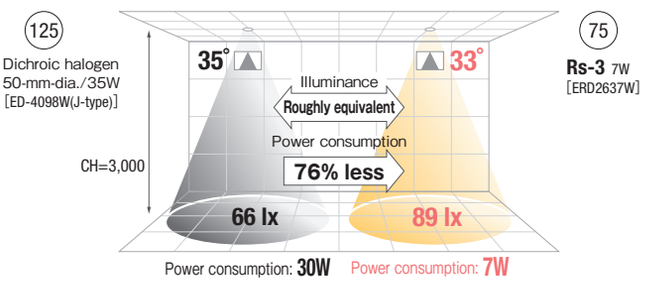
※The white value produced by a ceramic metal halide lamp is assigned an index of 100. [Source: Endo Lighting Corp.]

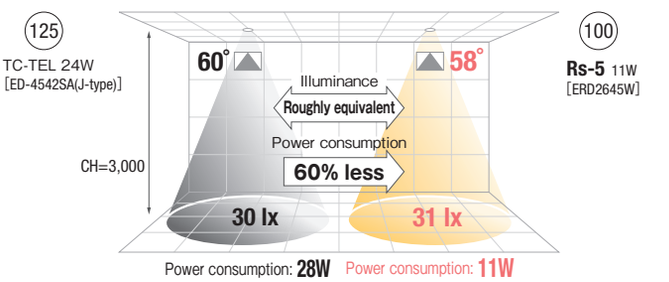


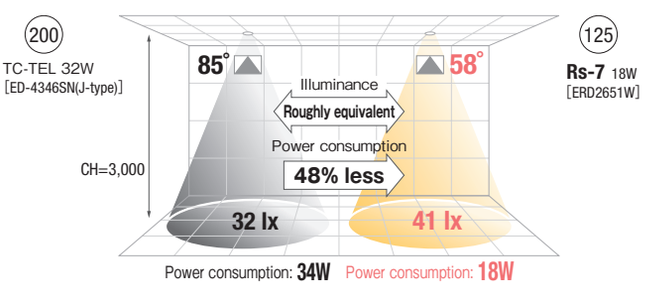
Generic discharge light Rs-series LED

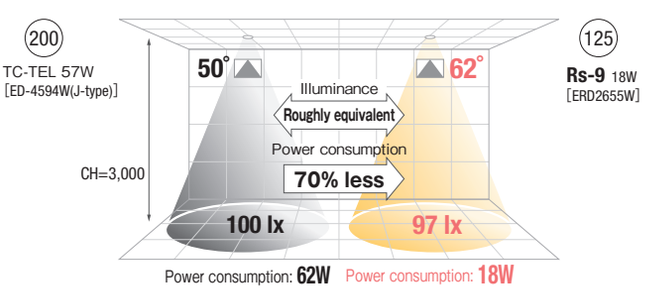
Brightness equivalent to conventional fixtures

Our moisture-resistant LED downlight features a smaller mounting diameter that delivers brightness equivalent to conventional fixtures with greatly reduced power consumption.









The colors and brightness depicted in this simulation are for explanatory purposes only and may differ from actual product specifications.

Rs-3 (equivalent to R-5 module) ← Equivalent to QR-CBC51 35W

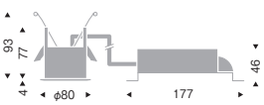
65 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Weatherproof

Rs-3 LED Module included
Power consumption: 7W

with driver
Frame: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.5 kg
Non-dimmable

Lower surface is frosted translucent glass.



Rs-5 (equivalent to R-7 module) ← Equivalent to TL-TEL 26W

100 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

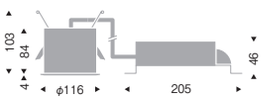
Patent pending

Weatherproof

Rs-5 LED Module included
Power consumption: 10.5W

with driver
Frame: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.8 kg
Non-dimmable

Lower surface is frosted translucent glass.



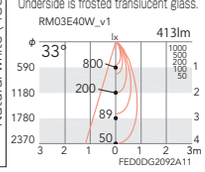
Non-dimmable

33° | 62° plastic reflector

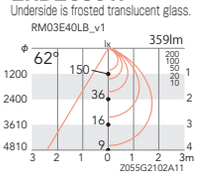
Natural white (4000K)

Ra 85

ERD2637W
Underside is frosted translucent glass.



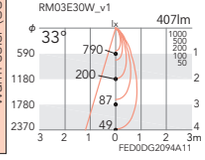
ERD2639W
Underside is frosted translucent glass.



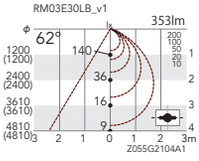
Warm color (3000K)

Ra 85

ERD2638W
Underside is frosted translucent glass.



ERD2640W
Underside is frosted translucent glass.



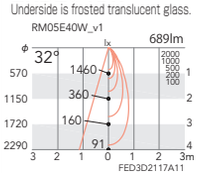
Non-dimmable

32° | 58° plastic reflector

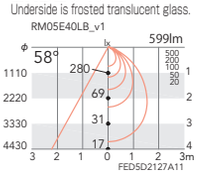
Natural white (4000K)

Ra 85

ERD2641W
Underside is frosted translucent glass.



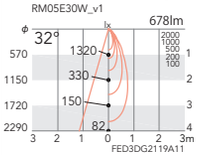
ERD2645W
Underside is frosted translucent glass.



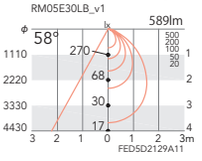
Warm color (3000K)

Ra 85

ERD2642W
Underside is frosted translucent glass.



ERD2646W
Underside is frosted translucent glass.



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Rs-7 (equivalent to R-9 module) ⟷ Equivalent to PAR38 120W

100 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

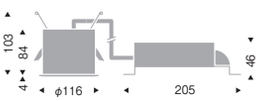
Patent pending

Weatherproof

Rs-7 LED Module included
Power consumption: 14W

with driver
Frame: Die-cast aluminium
(matt white)
Power supply unit packed separately.
Weight: 1.1 kg
Non-dimmable

Lower surface is frosted translucent glass.



Rs-9 (equivalent to R-12 module) ⟷ Equivalent to HIT-PAR20 35W

125 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Design registration pending

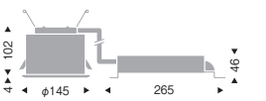
Patent pending

Weatherproof

Rs-9 LED Module included
Power consumption: 17.1W

with driver
Frame: Die-cast aluminium
(matt white)
Tempered clear glass
Power supply unit packed separately.
Weight: 1.2 kg
Non-dimmable

The three lenses in the center of this module, which is used in common with the R/Rs-12 module, are unused.



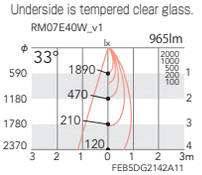
■ Non-dimmable

33° | 58° plastic reflector

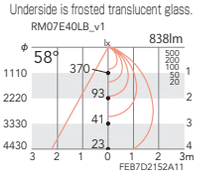
Natural white (4000K)

Ra 85

ERD2647W
Underside is tempered clear glass.



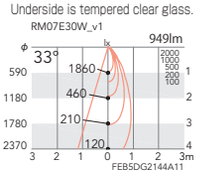
ERD2651W
Underside is frosted translucent glass.



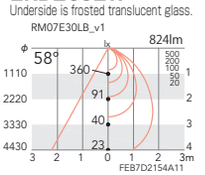
Warm color (3000K)

Ra 85

ERD2648W
Underside is tempered clear glass.



ERD2652W
Underside is frosted translucent glass.



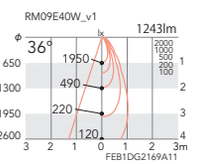
■ Non-dimmable

36° | 55°

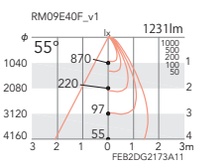
Natural white (4000K)

Ra 85

ERD2653W



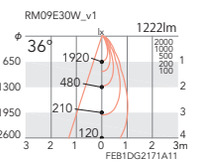
ERD2655W



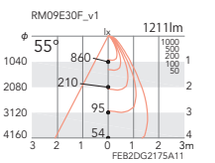
Warm color (3000K)

Ra 85

ERD2654W



ERD2656W



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

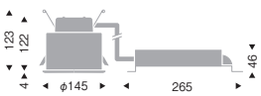
Rs-12 (equivalent to R-18 module) ⟶ Equivalent to TC-TEL32W×2

125 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Design registration pending
Patent pending

Rs-12 LED Module included
Power consumption: 22.5W

with driver
Frame: Die-cast aluminium
(matt white)
Tempered clear glass
Power supply unit packed separately.
Weight: 1.3 kg
Non-dimmable



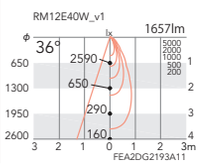
Non-dimmable

36° 55°

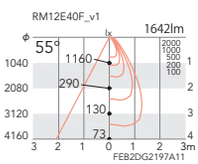
Natural white (4000K)

Ra 85

ERD2657W



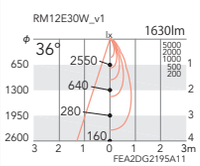
ERD2659W



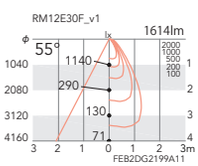
Warm color (3000K)

Ra 85

ERD2658W



ERD2660W



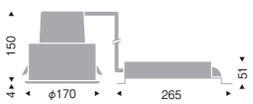
Rs-18 (Equivalent to R-24 module) ⟶ Equivalent to HIT 70W

150 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Patent pending

Rs-18 LED Module included
Power consumption: 33W

with driver
Frame: Die-cast aluminium
(matt white)
Tempered clear glass
Power supply unit packed separately.
Weight: 2.0 kg
Non-dimmable



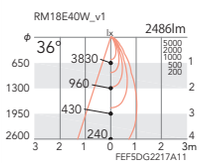
Non-dimmable

36° 57°

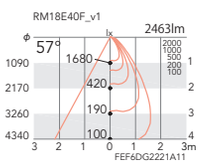
Natural white (4000K)

Ra 85

ERD2661W



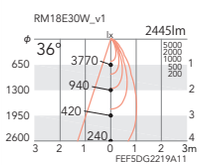
ERD2663W



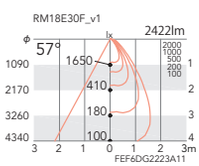
Warm color (3000K)

Ra 85

ERD2662W



ERD2664W



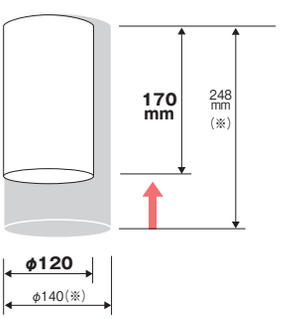
▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122
Dedicated power supply unit (maintenance part, sold separately) ▶ p.123

Before using these products, refer to the details provided in the Catalog Guide at the end of this catalog.

Typical application

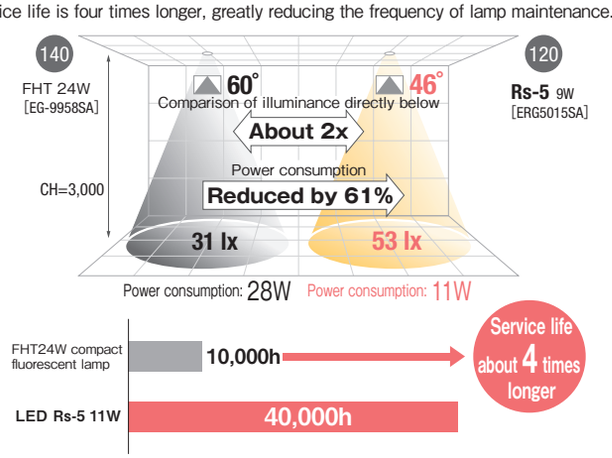
Compact design and low profile fixture size

This fixture is more compact than ceiling downlights with conventional light sources. Even when used under eaves with low ceiling heights, this fixture is unobtrusive (compared with our model EG-9958SA).



Brightness equivalent to that of a conventional fixture

Compared with ceiling downlights using conventional light sources, this fixture provides roughly double the brightness at much lower power consumption. In addition, LED service life is four times longer, greatly reducing the frequency of lamp maintenance.



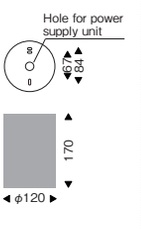
Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Rs-5 ⟷ equivalent to TC-TEL 26W

120 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

Rs-5 LED Module included
Power consumption: 9W

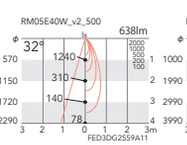
with integrated driver
Aluminium
Metallic finish (silver metallic)
Tempered clear glass
Weight: 1.2 kg
Non-dimmable



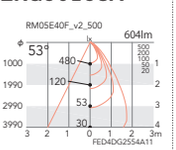
Natural white (4000K)

Ra 70

ERG5013SA



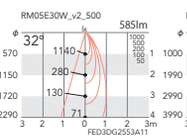
ERG5015SA



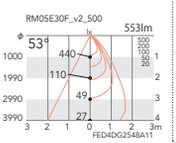
Warm color (3000K)

Ra 85

ERG5014SB



ERG5016SB

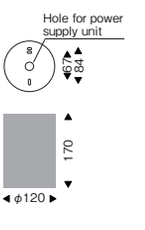


Rs-7 ⟷ equivalent to TC-TEL 32W

120 | IP 44 | Eco Energy-Efficient | Voltage range 100-242 | Glare Cut-off 20° | Rated service life of LED: 40,000 hours

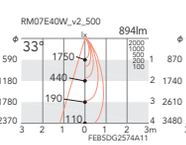
Rs-7 LED Module included
Power consumption: 12.7W

with integrated driver
Aluminium
Metallic finish (silver metallic)
Tempered clear glass
Weight: 1.2 kg
Non-dimmable

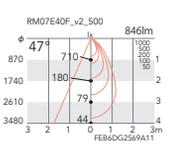


Ra 70

ERG5017SA

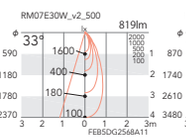


ERG5019SA

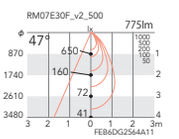


Ra 85

ERG5018SB



ERG5020SB



▶See brightness correlation table on p.12.
LED module (maintenance part, sold separately) ▶ p.122

Rs-7 equivalent to TC-TEL 32W

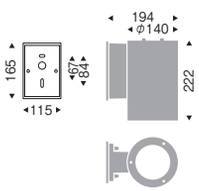
eco green | Eco Energy-Efficient | Voltage range 100-242

Rated service life of LED: 40,000 hours

Patent pending

Rs-7 LED Module included
Power consumption: 12.7W

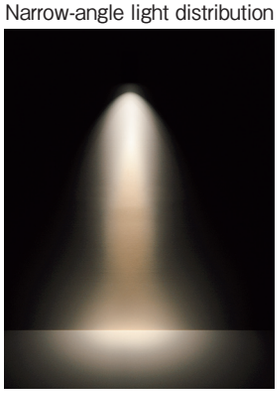
with integrated driver
Die-cast aluminium
Metallic finish (silver metallic)
Tempered clear glass
Weight: 2.5 kg
Non-dimmable
Can be oriented for upward or downward illumination.
Rain-resistant construction (IP54 enclosure rating)



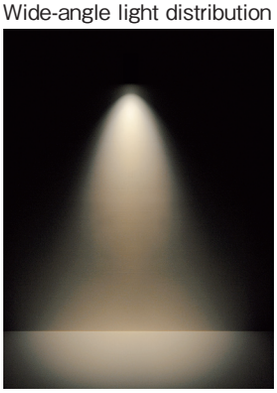
A Simple Design That's Ideal Wherever Space Is Limited

This outdoor bracket features a simple design.
To suit your application, choose either narrow- or wide-angle light distribution models and a color temperature of either 3000K or 4000K.
It can be oriented to project light either upward or downward.

Narrow-angle light distribution



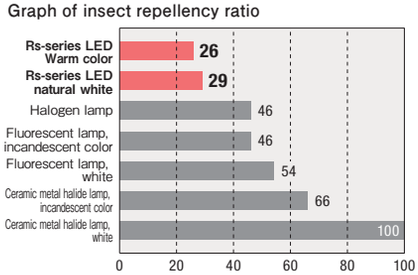
Wide-angle light distribution



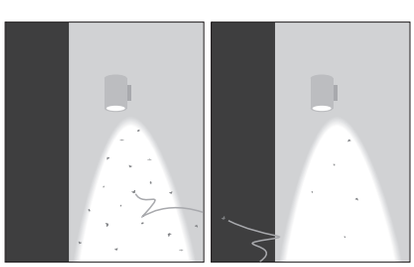
Insect Repellency

LED lighting has an insect repellency effect, despite its characteristically low UV radiation.

Graph of insect repellency ratio



Note: The white value produced by a ceramic metal halide lamp is assigned an index value of 100.
Source: Endo Lighting Corp.



Generic discharge light | Rs-series LEDZ

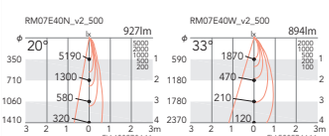
■ Non-dimmable

14° 33°

Natural white (4000K)

Ra 70

ERB6001SA

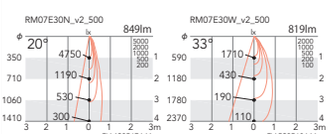


ERB6003SA

Warm color (3000K)

Ra 85

ERB6002SB



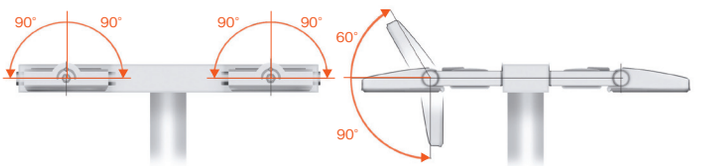
ERB6004SB

Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

Some of the images and data depicted above represent colors and brightness that are simulated for explanatory purposes. Actual product specifications may differ.

Adjustable lamp mechanism ensures efficient illumination

Multi-fixture arms accept up to four spotlights and allow you to adjust the angle of each lamp with great flexibility. They provide very efficient lighting across a wide area.



Accepts Table in two orientations

Spotlights can be mounted on the arm either vertically or horizontally. This versatile product allows for broad illumination of large parking lots or walls of buildings. It is the ideal solution for many lighting applications.

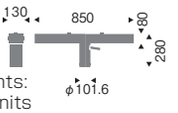
Compatible lamp units

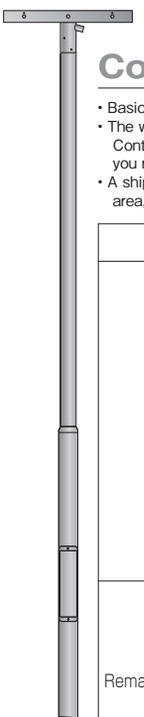
		Ss-36	Ss-24	Ss-12
	5000K 4000K 3000K	Horizontal wide spread light distribution Horizontal light distribution Vertical light distribution	Horizontal wide spread light distribution Horizontal light distribution Vertical light distribution	Horizontal light distribution Vertical light distribution

Multi-fixture pole mounting arm

as custom made

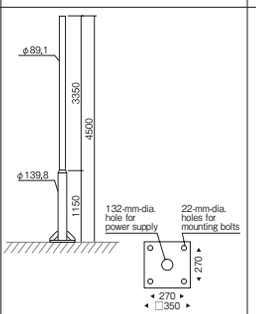
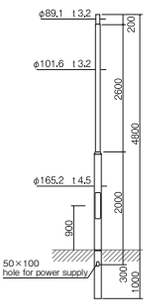
Weight: 15.0 kg
Silver metallic
Maximum number of outdoor spotlights: Accepts up to 4 units
See illustration for details.
Rain-resistant construction



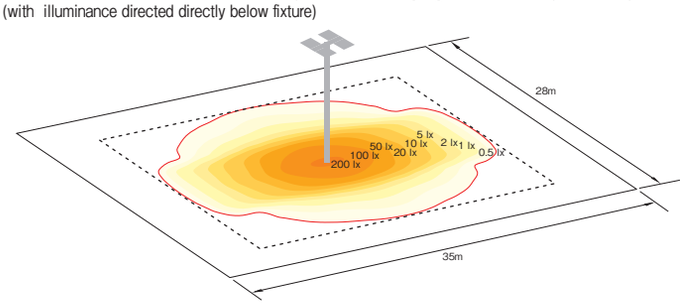


Compatible pole (refrence)

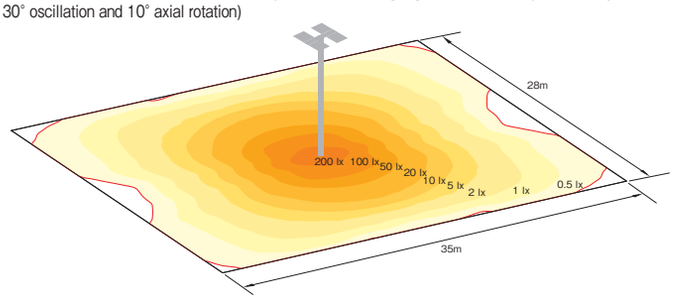
- Basic survival wind speed: 40 m/s
- The wind load varies with the type of fixture mounted and number of lamps. Contact us if your installation must accommodate a wind speed of 60 m/s, or if you require a lamp and pole combination different from that shown.
- A shipping surcharge applies to the pole. Charges vary depending on delivery area, number of units, and pole length. Contact our sales office for details.

	Base-mounting type	Embedded type
		
Remarks	Steel pipe Weight: 53.2 kg Corrosion-resistant paint only to pole Can be integrated with cut-out switch (sold separately) Rain-resistant construction	Steel pipe Weight: 88.0 kg Corrosion-resistant paint only to pole Can be integrated with cut-out switch (sold separately) Basic survival wind speed 60 m/s Rain-resistant construction

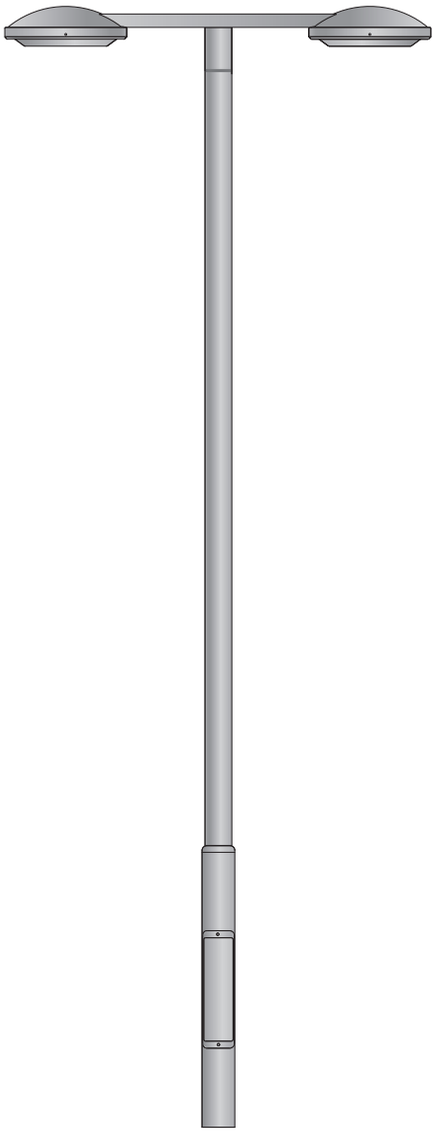
■ Illuminance distribution data Ss-36 (Horizontal long light distribution) × 4 lamps
(with illuminance directed directly below fixture)



■ Illuminance distribution data Ss-36 (Horizontal long light distribution) × 4 lamps
(at 30° oscillation and 10° axial rotation)



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.



Ss-24×2(equivalent to S-30 Module × 2)

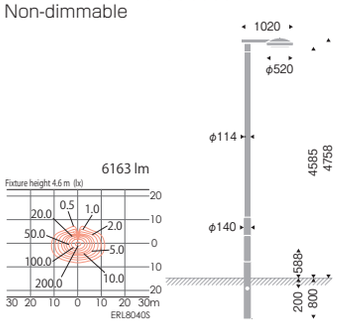
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending | Ra 85

ERL8040S with integrated driver
〈Fixture〉
RL-810S
〈Arm〉
L-168N(Custom made)
〈Pole〉

Ss-24 × 2 LED modules included
○Natural white (4000K)
Power consumption: 84W

Metallic finish (silver)
Aluminium, opal acrylic, frosted acrylic
Steel tube
Weight: 69.8 kg
Can be integrated with cut-out switch (sold separately)
Corrosion-resistant paint up to pole
Rain-resistant construction
Non-dimmable



Ss-24×4(equivalent to S-30 Module × 4)

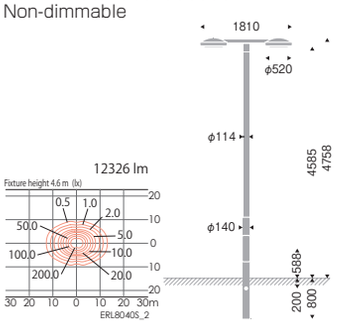
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

Design registration pending | Ra 85

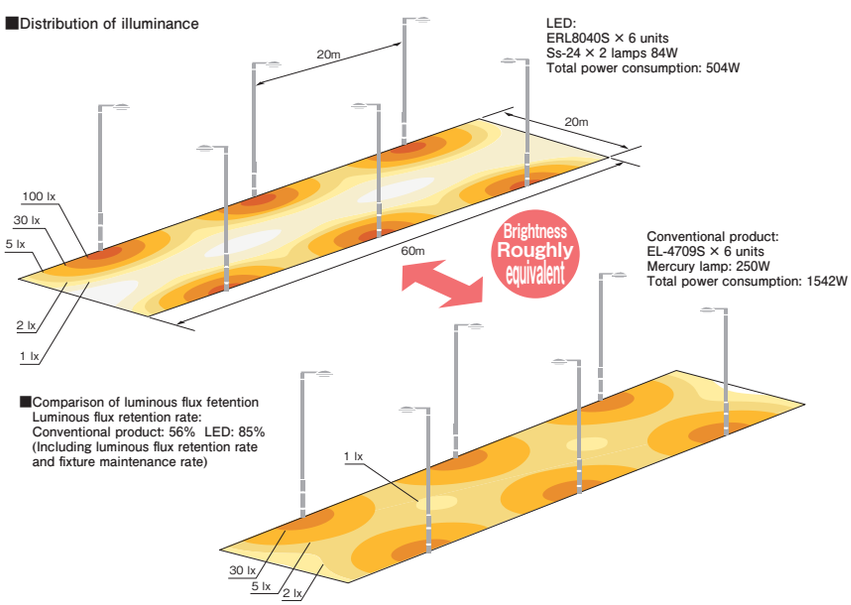
ERL8040S×2 with integrated driver
〈Fixture〉
RL-811S
〈Arm〉
L-168N(Custom made)
〈Pole〉

Ss-24 × 4 LED modules included
○Natural white (4000K)
Power consumption: 168W

Metallic finish (silver)
Aluminium, opal acrylic, frosted acrylic
Steel tube
Weight: 76.3 kg
Can be integrated with cut-out switch (sold separately)
Corrosion-resistant paint up to pole
Rain-resistant construction
Non-dimmable



■Distribution of illuminance



■Comparison of luminous flux fetention
Luminous flux retention rate:
Conventional product: 56% LED: 85%
(Including luminous flux retention rate and fixture maintenance rate)

STREET LIGHT

Street Light

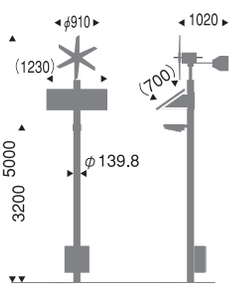
Solar hybrid lighting for the future of our planet

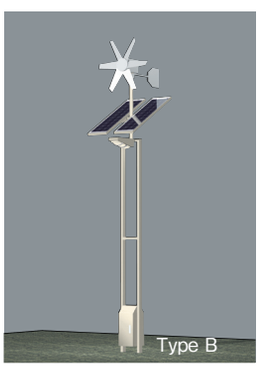
The Kyoto Conference on global warming was held in Kyoto in December 1997 as part of the worldwide effort to address the potential threat of climate change.
This has triggered a review of eco-friendly sources of energy. Solar energy and wind energy have attracted particular attention.
Endo Lighting is making an effort to develop solar-powered systems as well as hybrid systems (combining solar and wind power) that make maximum use of these renewable sources of natural energy.
Endo is undertaking R&D to devise the ultimate eco-friendly lighting system that will take the lead in the coming years.

The Ultimate Solar-Powered System

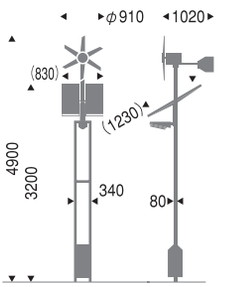
The photovoltaic system is the ultimate method of deriving electrical energy from the limitless amount of solar energy that directly strikes our planet.
Free of noise and pollution concerns, this eco-friendly source of energy can also function as an emergency power source during power outages caused by earthquakes and other emergencies. (Emergency power supply options are available.)

Rain-resistant construction

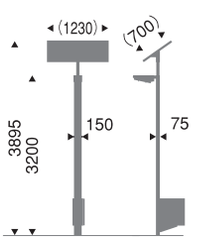




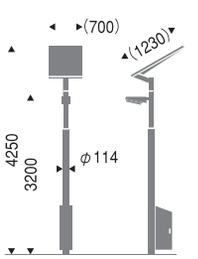
Rain-resistant construction



Rain-resistant construction



Rain-resistant construction



Unlike conventional light sources such as incandescent lamps and fluorescent lamps, LED lights can differ in terms of color and brightness due to variations in element quality.

LFL3S×2 Ra 85 10-VA class

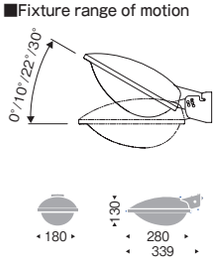
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

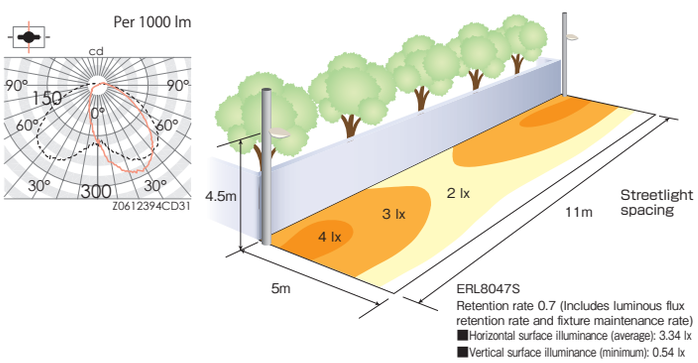
ERL8047S
with integrated driver

LED modules included
LFL3S-E850B×2
Power consumption: 7.8W
Daylight (5000K)
Input capacitance 8 VA (100 V)
9 VA (200 V)

Body: Die-cast aluminium
Metallic finish (silver metallic)
Shade: Frosted acrylic
Rain-resistant construction
Weight: 1.7kg
LED not replaceable
Non-dimmable
Mounting brackets (sold separately)

■Fixture range of motion





ERL8047S
Retention rate 0.7 (Includes luminous flux retention rate and fixture maintenance rate)
■Horizontal surface illuminance (average): 3.34 lx
■Vertical surface illuminance (minimum): 0.54 lx

Recommended spacing **11m** (Class B)

*Illuminance criteria: Japan Security Systems Association

LHP6M×2 Ra 85 20-VA class

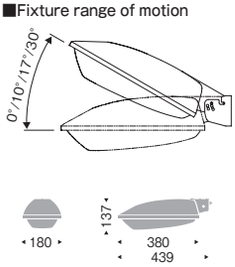
Eco Energy-Efficient | Voltage range 100-242 | Rated service life of LED: 40,000 hours

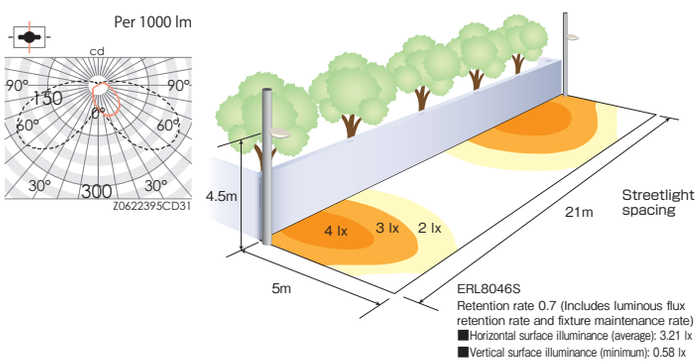
ERL8046S
with integrated driver

LED modules included
LHP6M-E850B×2
Power consumption: 15W
Daylight (5000K)
Input capacitance 15.4 VA (100 V)
16.6 VA (200 V)

Body: Die-cast aluminium
Metallic finish (silver metallic)
Shade: Frosted acrylic
Rain-resistant construction
Weight: 2.5kg
LED not replaceable
Mounting brackets (sold separately)

■Fixture range of motion



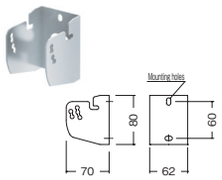
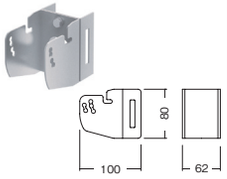
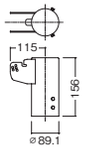
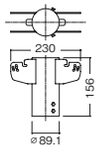


ERL8046S
Retention rate 0.7 (Includes luminous flux retention rate and fixture maintenance rate)
■Horizontal surface illuminance (average): 3.21 lx
■Vertical surface illuminance (minimum): 0.58 lx

Recommended spacing **21m** (Class B)

*Illuminance criteria: Japan Security Systems Association

OPTION

Mounting belt for power pole	Mounting belt for lighting pole	Mounting bracket for wall	Mounting bracket for power pole/ lighting pole	Pole head for 1 lamp	Pole head for 2 lamps
					
RL-804N	**RL-805N**	**RL-806N**	**RL-807N**	**RL-808N**	**RL-809N**
Compatible power pole diameters: 190-350 mm	Compatible lighting pole diameters: 89.1-190 mm			Compatible lighting pole diameters: 76.3 mm	Compatible lighting pole diameters: 76.3 mm

APPENDIX

Replacing Modules／Driver P.121

Maintenance Parts: Modules／Driver P.122

Catalogue Guide P.124

Index of Model Numbers P.126

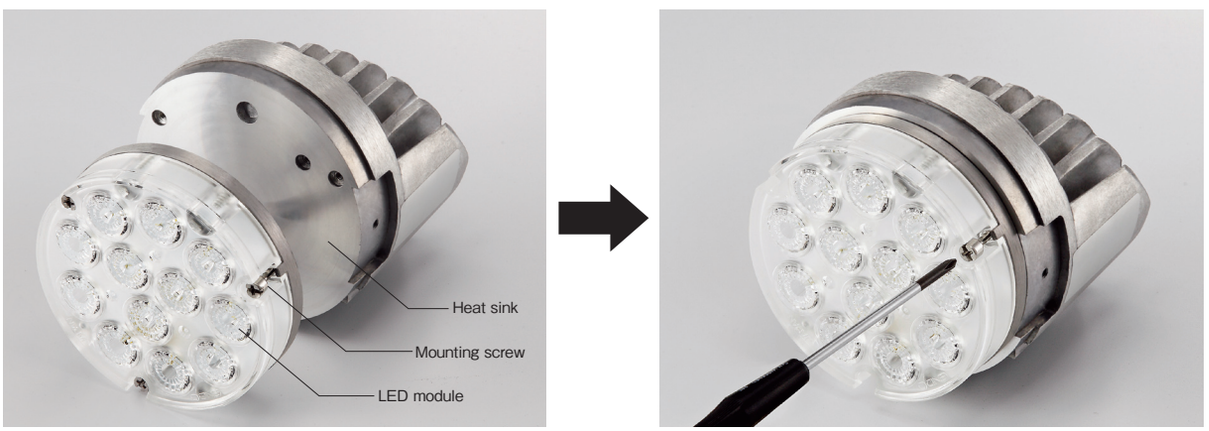
About our No-Charge Replacement Warranty for LED modules and LED power supply units

ENDO LEDZ 5 year Warranty system

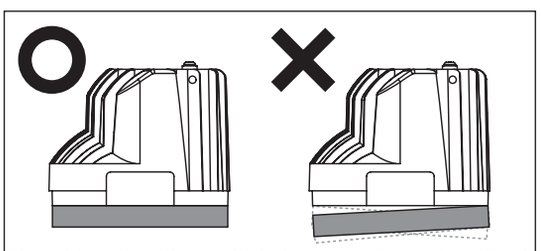
※For general-purpose products, the warranty period is 1 year. For special-purpose LED modules, however, the no-charge warranty service is extended by a further 4 years (for a total of 5 years).
※For general-purpose power supply units, the warranty period is 3 years. For special-purpose LED power supply units, however, the no-charge warranty service is extended by a further 2 years to a total of 5 years.
※If the lighting fixture malfunctions (fails to light, etc.) due to a problem with the LED module or power supply unit, Endo will replace the module or unit with a new one free of charge* for 5 years after purchase. This applies only to the products listed on p.122 to 123 of the catalog.
※Endo assumes no responsibility for a reduction in luminous flux of the LED module within 9% (excluding secular attenuation of the luminous flux).
※Warranty exceptions: If the lighting fixture is used for more than 15 hours per day or continuously for 24 hours a day, the product warranty period (period applicable to provision of replacement parts at no charge) shall be reduced by half.
This warranty applies to parts only; labor required for replacement is not included.
Specifications of LED modules and power supply units are subject to change.

Notes regarding replacement of the module or power supply unit

●Before ordering, note the details of the particular LED module and power supply unit provided with your fixture.
●Maintenance LED modules are available either with or without a heat sink.
●Maintenance LED modules are not intended for standalone use. They must be installed in the specified fixture.
●Use only power supply units that are compatible with the maintenance LED module.
●When installing maintenance LED modules or power supply units, consult with an electrical contractor or other qualified electrical professional.



●Ensure the mounting screws securely tightened so that the module is tight to the heat sink. If the module and heat sink are not securely bound together, the heat generated by the module will not dissipate into the heat sink, leading to the plastic lenses melting or falling off.
●Incorrect installation can result in fire, falling, discoloration, deformation, reduced LED service life, or failure to light, etc.
●Before installing a maintenance LED module or power supply unit, refer to the specifications diagram or user's manual.
●Maintenance LED modules and power supply units are product-specific: they are not compatible with all the products listed in our catalog.



Heat sink and module are tightly attached, with no gaps or looseness.
Improper attachment of heat sink and module results in a gap or looseness.

Rs Series Maintenance Modules

Module	Color Temperature	Ra
Rs-3 (with heat sink)	○ Natural white (4000K)	85
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-3 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-5 (with heat sink)	○ Natural white (4000K)	85
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-5 (without heat sink)	○ Natural white (4000K)	
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-5 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-7 (with heat sink)	○ Natural white (4000K)	85
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-7 (with heat sink)	○ Natural white (4000K)	
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-7 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	
	⊘ Warm color (2700K)	
Rs-9	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-9 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	

Module	Color Temperature	Ra
Rs-12	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-12 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	
Rs-18	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-18 (reflector type)	○ Natural white (4000K)	
	○ Warm color (3000K)	
Rs-24	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-30	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-36	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-48	○ Natural white (4000K)	85
	○ Warm color (3000K)	
Rs-48 (reflector type)	○ Natural white (4000K)	85
	○ Warm color (3000K)	

Rs Series Maintenance Modules

Module	Color Temperature	Ra
Rs-7(without heat sink)	● Fresh type	93
Rs-12	● Fresh type	95
	● Natural fresh type	96

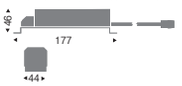
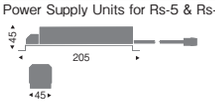
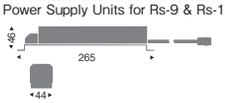
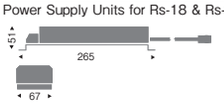
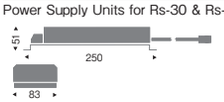
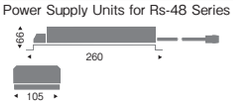
Module	Color Temperature	Ra
Rs-18	● Fresh type	95
	● Natural fresh type	96
Rs-24	● Fresh type	95
	● Natural fresh type	96

Ss Series Maintenance Modules

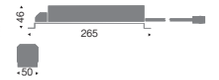
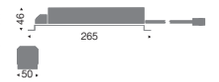
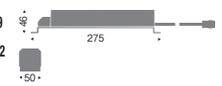
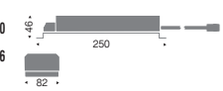
Description of Module	Color Temperature	Model Number (Product Code)		
		Horizontal long light distribution	Horizontal light distribution	Vertical light distribution
Ss-12 Horizontal light distribution Vertical light distribution	○ Natural white (4000K)／Ra:85	—	SM1240WWA	SM1240WVA
	● Warm color (3000K)／Ra:85	—	SM1230WWA	SM1230WVA
Ss-24 Horizontal long light distribution Horizontal light distribution Vertical light distribution	○ Natural white (4000K)／Ra:85	SM2440WH	SM2440WWA	SM2440WVA
	● Warm color (3000K)／Ra:85	SM2430WH	SM2430WWA	SM2430WVA
Ss-36 Horizontal long light distribution Horizontal light distribution Vertical light distribution	○ Natural white (4000K)／Ra:85	SM3640WH	SM3640WWA	SM3640WVA
	● Warm color (3000K)／Ra:85	SM3630WH	SM3630WWA	SM3630WVA

Rs Series Maintenance Driver

Non-dimmable

		Model Number (Product Code)	Supply Voltage	Power Consumption	Rated (VA) 230V	Weight
Rs-3	Power Supply Units for Rs-3 Series 	RX-135N	AC100-242V	7W	22.6VA	0.3kg
Rs-5 Rs-7	Power Supply Units for Rs-5 & Rs-7 Series 	RX-136N	AC100-242V	10.5W(Rs-5) 14W(Rs-7)	14.1VA 18VA	0.4kg
Rs-9 Rs-12	Power Supply Units for Rs-9 & Rs-12 Series 	RX-137N	AC100-242V	17.1W(Rs-9) 22.5W(Rs-12)	22.8VA 29VA	0.4kg
Rs-18 Rs-24	Power Supply Units for Rs-18 & Rs-24 Series 	RX-141N	AC100-242V	33W(Rs-18) 43W(Rs-24)	38VA 47VA	0.6kg
Rs-30 Rs-36	Power Supply Units for Rs-30 & Rs-36 Series 	RX-142N	AC100-242V	53W(Rs-30) 63W(Rs-36)	56VA 67VA	0.6kg
Rs-48	Power Supply Units for Rs-48 Series 	RX-143N	AC100-242V	84W	86VA	0.8kg

Dimmarble type 0-10V

		Model code	Voltage	Power Consumption	Rated value (VA) 230V	Weight
Rs-3	Power Supply Unit for Rs-3 	GRX-127N/E	AC220-242V	7W(Rs-3)	18.4VA	0.3kg
Rs-5 Rs-7	Power Supply Unit for Rs-5/Rs-7 	GRX-128N/E	AC220-242V	11W(Rs-5) 14W(Rs-7)	22.6VA 18VA	0.3kg
Rs-9 Rs-12	Power Supply Unit for Rs-9/Rs-12 	GRX-110N/E	AC220-242V	18W(Rs-9) 23W(Rs-12)	22.8VA 27.2VA	0.3kg
Rs-18 Rs-24	Power Supply Unit for Rs-18/Rs-24	GRX-129N/E	AC220-242V	34W(Rs-18) 44W(Rs-24)	35VA 44.2VA	0.6kg
Rs-30 Rs-36	Power Supply Unit for Rs-30/Rs-36 	GRX-130N/E	AC220-242V	56W(Rs-30) 66W(Rs-36)	60VA 66.6VA	0.8kg

About our No-Charge Replacement Warranty for LED modules and LED power supply units

※For general-purpose products, the warranty period is 1 year. For special-purpose LED modules, however, the no-charge warranty service is extended by a further 4 years (for a total of 5 years).

※For general-purpose power supply units, the warranty period is 3 years. For special-purpose LED power supply units, however, the no-charge warranty service is extended by a further 2 years to a total of 5 years.

※If the lighting fixture malfunctions (fails to light, etc.) due to a problem with the LED module or power supply unit, Endo will replace the module or unit with a new one free of charge* for 5 years after purchase. This applies only to the products listed on p. 122 to 123 of the LED catalog.

※ Endo assumes no responsibility for a reduction in luminous flux of the LED module within 9% (excluding secular attenuation of the luminous flux).

※Warranty exceptions: If the lighting fixture is used for more than 15 hours per day or continuously for 24 hours a day, This is redundant and should be omitted.the product warranty period (period applicable to provision of replacement parts at no charge) shall be reduced by half.This warranty applies to parts only; labor required for replacement is not included. Specifications of LED modules and power supply units are subject to change.

※Before ordering, note the details of the particular LED module and power supply unit provided with your fixture.

※Maintenance LED modules are available either with or without a heat sink.

※Maintenance LED modules are not intended for standalone use. They must be installed in the specified fixture.

※Use only power supply units that are compatible with the maintenance LED module.

※When installing maintenance LED modules or power supply units, consult with an electrical contractor or other qualified electrical professional.

※Incorrect installation can result in fire, falling, discoloration, deformation, reduced LED service life, or failure to light, etc.

※Maintenance LED modules and power supply units are product-specific: they are not compatible with all the products listed in our catalog.

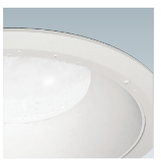
CATALOGUE GUIDE

Rs-5 (Equivalent to R-7 Module) → Equivalent to TC-DEL 26W

Patent pending

100 | Eco Energy-Efficient | Voltage range 100-242 | Glare cut-off 20° | ⑧

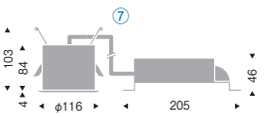
⑥ Rated service life of LED: 40,000 hours



Underside is frosted translucent glass

② Rs-5 LED module included ④
Power consumption: 10.5W

③ with driver
⑤ Frame: Die-cast aluminium (matt white)
Power supply unit packed separately.
Weight: 0.8 kg
Non-dimmable
⑨ Moisture-proof construction (IP44 enclosure rating)



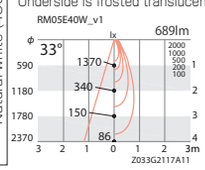
■ Non-dimmable

33° | 62° Plastic reflector

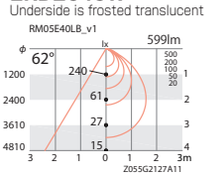
Natural white (4000K)

Ra 85

ERD2641W ①
Underside is frosted translucent glass



ERD2645W
Underside is frosted translucent glass



⑧ Symbol Legend

- Voltage range 100-242 — Applicable voltage (100V-242V)
- Upward luminous flux comparison
- Glare cut-off — Glare cut-off angle
- 45° — Vertical tilt range of motion
- 350° — Horizontal range of rotation
- Dimmable — Can be dimmed.
- Rated service life of LED: 40,000 hours — Indicates the service life of the light source when mounted in an LED fixture.
- Ra 85 Ra 70 — Average color rendering index
- Rain-resistant construction
- Moisture-proof construction
- Splash-proof construction
- Submersible construction

⑨ Ingress protection (IP) rating

Some of our products have been built to meet specific applications according to ingress protection (IP) standards stipulated by the International Electrotechnical Commission (IEC). The degree of protection is indicated as IP (stipulated by IEC529) followed by a two-digit suffix. This code is displayed in the product specifications.

IP 0 0
- Second digit (0-8): Degree of protection against moisture intrusion
- First digit (0-6): Degree of protection against intrusion by external solid foreign bodies
- Ingress protection code

Indication of first digit (intrusion by solid foreign bodies)

Digit	Degree of protection of persons against contact with moving parts and intrusion by solid foreign bodies
0	No protection
1	Protected against solid foreign bodies greater than 50 mm diameter Protected against entry of an adult's clenched fist into a hazardous area
2	Protected against solid foreign bodies 12.5 mm in diameter or larger Protected against entry of an adult's finger into a hazardous area
3	Protected against solid foreign bodies 2.5 mm in diameter or larger Protected against entry of a tool into a hazardous area
4	Protected against solid foreign bodies 1.0 mm in diameter or larger Protected against entry of a wire into a hazardous area
5	Protected against entry of an amount of dust that would interfere with the prescribed operation and safety as indicated by a dust-proof test (75 μm in diameter)
6	Protected against entry of dust as indicated by a dust-resistance test (75 μm in diameter)

Indication of second digit (water resistance)

Digit	Degrees of protection of the equipment inside the enclosure against the harmful intrusion of moisture
0	No protection
1	Protected against water dripping vertically on to the top of the product.
2	Protected against water dripping vertically onto the top of a product inclined at 15 degrees from the vertical
3	Protected against water sprayed at an angle of 60 degrees toward either side of the top of the product
4	Protected against water splashing onto the product from any direction
5	Protected against water (12.5 L/min) sprayed onto the product at low pressure from all directions
6	Protected against water (100 L/min) sprayed onto the product at high pressure from all directions
7	Protected against immersion in water. For products intended to be used in water
8	Protected against use in diving conditions. Intended for use in conditions more severe than those indicated in 7. Test conditions were determined by agreement.

① Model numbers
Specify this number when ordering.
Note: The alphabetic characters in the model number denote the style of the fixture.

② Module compatibility
For safety reasons, use only the module, LED lamp(s) and LED unit indicated.
Note: Be sure to check the specifications and any restrictions applicable to specific modules.

③ "Power source, inverter, LED lamp and LED unit sold separately."
This indicates that the power source, inverter, LED lamp and LED unit must be purchased separately. For information, contact our sales office.

④ "Module, LED lamp and LED unit sold separately."
This indicates that the module, LED lamp and LED unit must be purchased separately. For information, contact our sales office.

⑤ Material, finish, weight, special notes, etc.
Materials and finishes are subject to change without notice in the interests of quality improvement.
*Weight indicates the weight in kilograms.

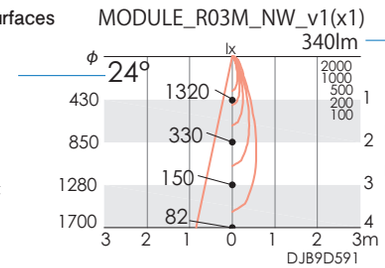
⑥ Mounting opening dimensions
This indicates the size and shape of the mounting opening.

100 | 600 | 220×1280

⑦ Fixture dimensions and installation dimensions
Dimensions are provided in simplified form in outline drawings or multiple-view diagrams.
Dimensions appearing in parentheses are measurements that can vary slightly between products.

How to interpret light distribution data

Illuminance data for horizontal surfaces



One-half illuminance angle

This indicates the spread of the light. When light radiates downward onto a horizontal surface, the "one-half illuminance angle" refers to the angle at which illuminance directly below the light is reduced by one-half.

Top of graph

Indicates the lamp (module) used and the total luminous flux (lm) per fixture.

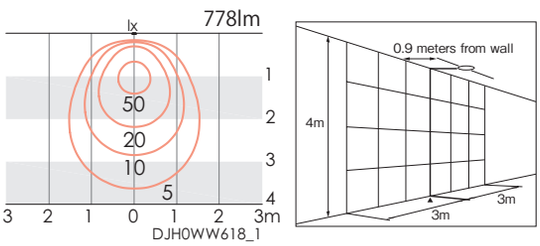
Left side of graph

This indicates the spread of the light. The angle and light spread shown in the graph indicate the one-half illuminance, indicating the one-half illuminance angle (ø) and the center illuminance for each height level.
The graph indicates that the light source is positioned at a height of 2 m, the illuminance directly below the fixture is about 330 lx, and the one-half illuminance extends outwards at a radius of about 0.4 m.

Right side of graph

The data indicate the range within which the horizontal illuminance expressed by the curve can be obtained using the vertical distance from the fixture and the horizontal distance from a point directly below the fixture. The above graph indicates that the light source is positioned at a height of 2 m and illuminance of at least 100 lx extends outwards at a radius of 0.6 m.

Wall illuminance distribution (for Wall Washer fixtures)



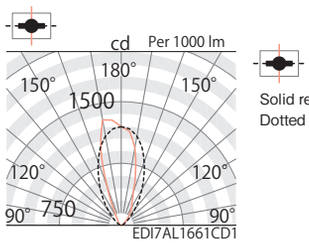
Single fixture installed 0.9 meters from wall

This graph indicates the illuminance distribution for a fixture installed 0.9 m from a wall, as shown in the diagram at right.

Light distribution curve data

The light distribution curve is the data showing the brightness (light intensity) in each direction from the lighting fixture. The values in this curve are the values obtained when the lamp luminous flux is 1,000 lm, so the actual light intensity is determined by the equation below.

$$I\ (\text{light intensity}) = \frac{\text{Reading light intensity} \times \frac{\text{Luminous flux of lamp}}{1{,}000}}{} \ [\text{cd}]$$



Solid red line: Light distribution perpendicular to the tube axis
Dotted black line: Light distribution parallel to the tube axis

About the Information in this Catalog

The luminous flux, light distribution, color temperature and luminous intensity appearing in this catalog are presented as reference values only and are not guaranteed.
For more up-to-date information, visit our website.

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B664WA		59
B665BA		59
B665WA		59
B666BA		59
B666WA		59
B673B		59
B673W		59
B679BA		101
B755A		27
B756A		27
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