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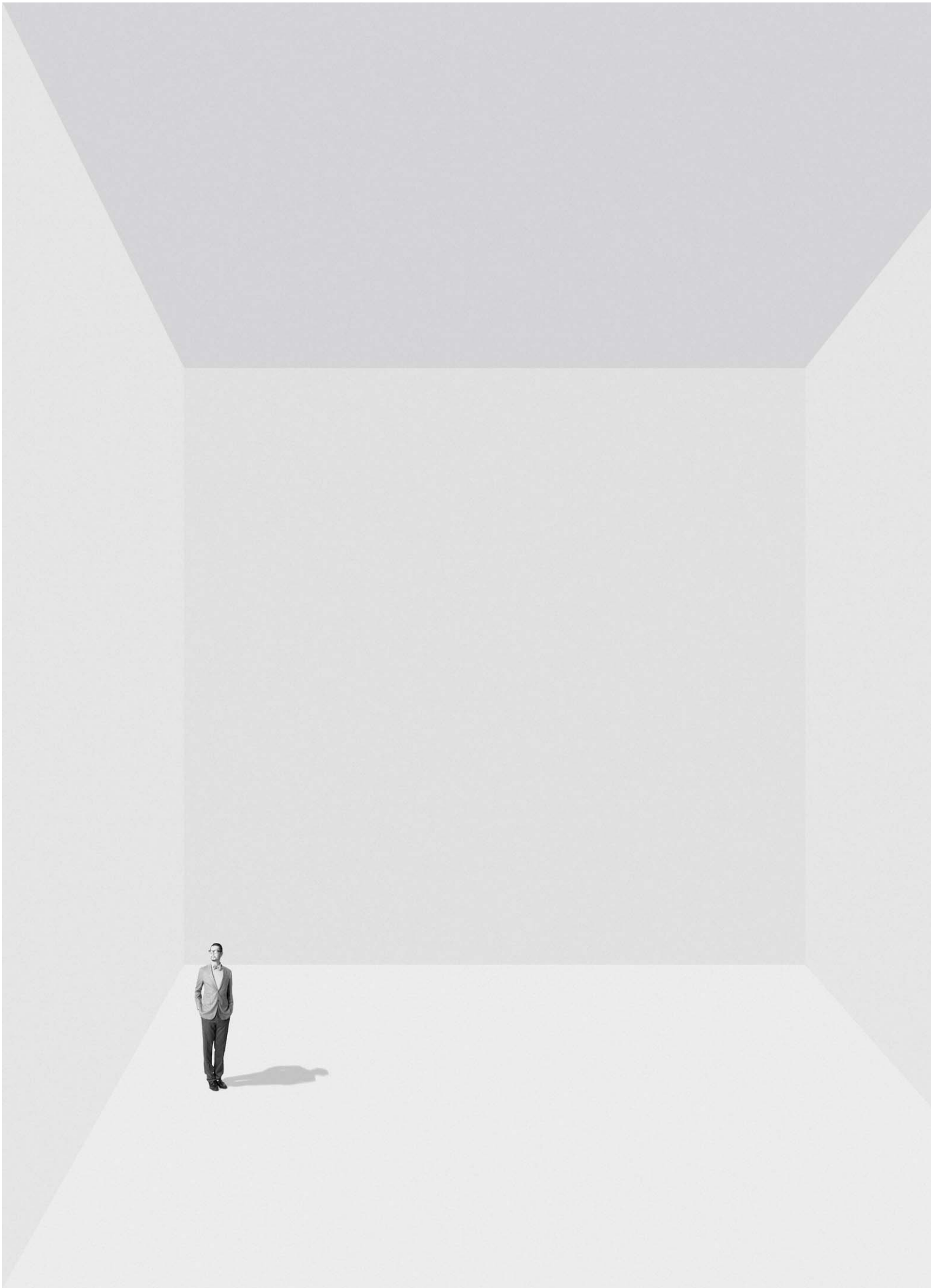
# Panasonic

SmartArchi 2016-  
Architectural Lighting



# SmartArchi

Architectural Lighting 2016



## Bringing new freedom to architecture.

In our current era, definitions of affluence and fulfillment are changing. Architecture, with an integral relationship to human beings and to the environment, society, and our future, is a key field in which new values are being sought. In this context the role of lighting, which works together with architecture and clarifies its message while creating atmosphere and stimulating human emotions, is bound to grow ever more important. With SmartArchi, we at Panasonic aim to develop lighting that broadly expands the creative freedom of the architect, from the three vantage points of scientific lighting methodology, design, and light quality. To this end we have developed an index measuring human sense of brightness known as “Feu,” an innovation that turns the focus in lighting design from the conventional “illuminance,” the amount of light striking a surface, to “luminance,” the human sense of brightness.

The goal is lighting design that effectively utilizes the new performance standards offered by LED, and can be more thoroughly artistically integrated with architecture. Its design delivers light quality that brings people a sense of fulfillment and stirs their emotions. With aspects of both “hard” (lighting fixture) and “soft” (visual environment), SmartArchi is a system that can deliver the pleasant and environmentally responsible lighting that people want today. We see it as not only an indispensable part of the architect’s tool kit, but also an inspirational force that can drive architectural creativity.

Bringing new freedom to architecture. SmartArchi.

# Method

## The basic idea: Lighting design based around human sense of brightness

What's the best way to create an eco-conscious, efficient and pleasant lighting environment? How is this effort affected by the ongoing diversification of lighting, with increased emphasis on indirect and architectural light sources? What sort of lighting is most appropriate for today's office environments, where computers play a central role? These are just some of the considerations that cannot be addressed effectively with conventional lighting design based around "illuminance," the amount of light striking a surface. Panasonic was quick to catch on to this new reality, and has been focusing on both "hard" (lighting fixture) and "soft" (visual environment) aspects as we pursue an industry-leading approach to lighting design based instead around "luminance," intensity of light emitted from reflected surface. A key part of the "soft" side of this endeavor has been the development of "Feu," a spatial brightness-level index that quantitatively measures human sense of brightness.

SmartArchi builds on scientific data derived from this index to heighten lighting performance and move forward with luminance-based lighting design. There have been challenges, such as how to go about creating illuminated surfaces with a high uniformity ratio, how to achieve glare-free light, and how to get the greatest subjective spatial brightness with a minimum number of lighting fixtures.

Maximizing lighting performance and making dramatic improvements to light environments through a new, luminance-based lighting design approach: this is the central innovation of SmartArchi.

**Method**

Lighting design based around human sense of brightness

**Philosophy**

"Light" "Design" "Materials and Quality" "Spatial Environments"

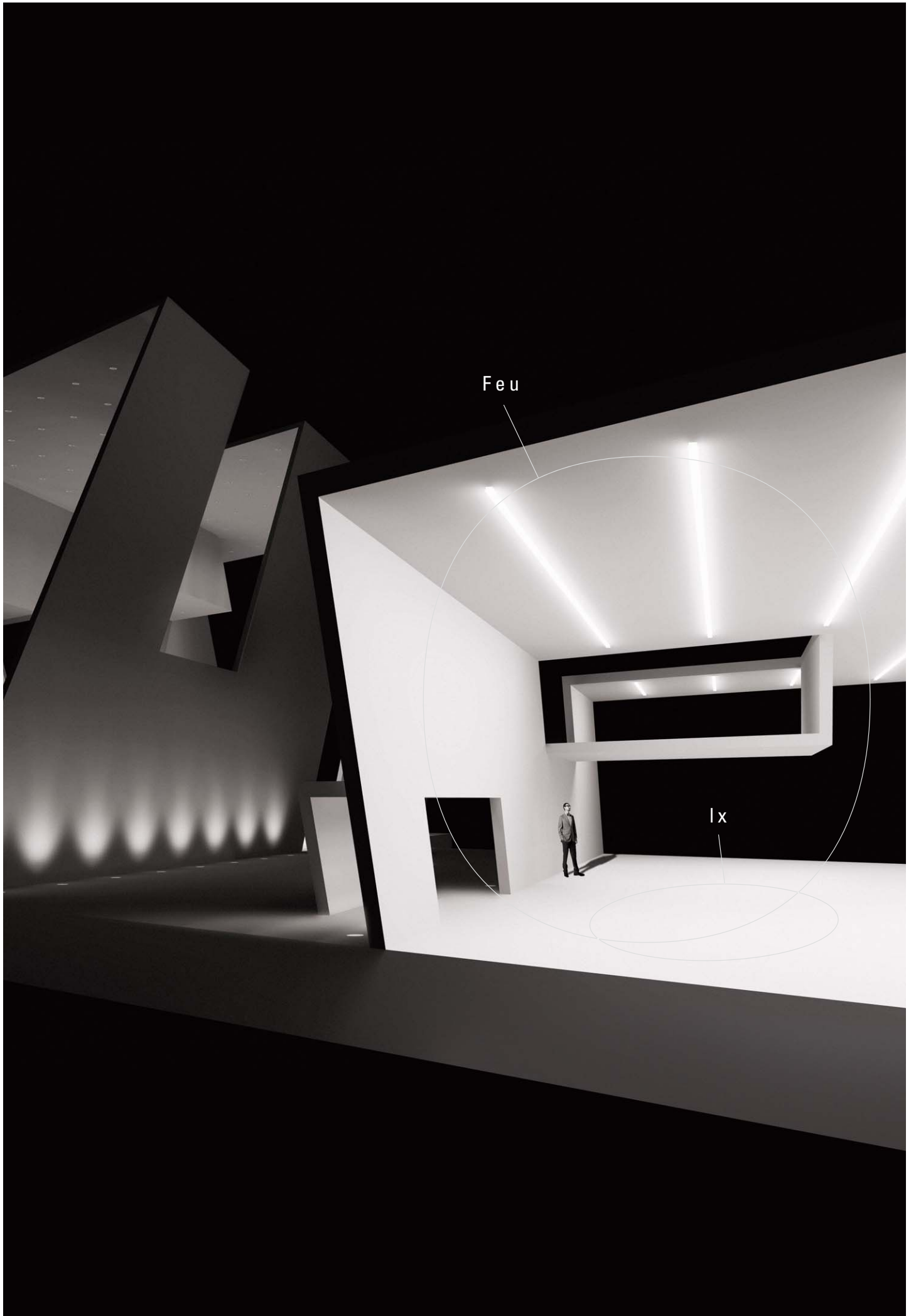
# Philosophy

## Four areas of focus: “Light,” “Design,” “Materials and Quality,” and “Spatial Environments”

The era when “the brighter, the better” was the conventional wisdom has ended, and people are re-examining the roles that lighting plays in our lives. People are looking for lighting that is sophisticated and beautiful, creating an emotionally fulfilling and enriching human-oriented environment; In other words, lighting that is environmentally friendly, and at the same time effectively delivers the optimum amount of light for the room’s purpose. SmartArchi utilizes highly advanced technology to provide the elegant lighting that people seek, focusing attention on both illuminated surfaces and light-emitting surfaces. Through sophisticated optical design technology incorporating lenses, SmartArchi extracts maximum performance from limited quantities of light and utilizes the properties of LED to achieve lighting of the highest efficiency. Sophisticated light-distribution design technology produces illuminated surfaces with elegant quality and a high degree of uniformity. Stress-free, glareless light is achieved through dramatic improvements to the performance of reflective surfaces. Bringing all of our amassed technologies to bear on the mission of refining quality of light. This is the philosophy behind SmartArchi.

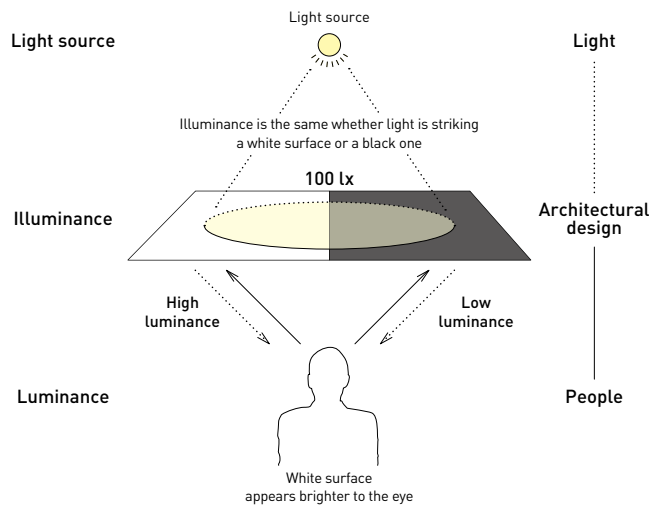
Another goal of SmartArchi is lighting design that is fully integrated with architecture. We recognize that of all the creative fields, architecture is the one that faces the greatest number of constraints, and we believe an important role of lighting design is to help overcome these constraints and broaden the creative scope of architecture while at the same time fulfilling practical functions. Lighting fixtures themselves ought to be understated and as simple as possible. Excess formal elements should be removed from spaces, leaving only refined and sophisticated forms. And, there must be no compromise on materials and quality as we pursue the ultimate in high-quality lighting. We consistently pay scrupulous attention to detail, seamless compatibility with architectural design, and impeccable quality down to the smallest screw. SmartArchi blends synergistically with the architect’s vision and provides added inspiration. SmartArchi: the new design frontier is here.





Feu

lx

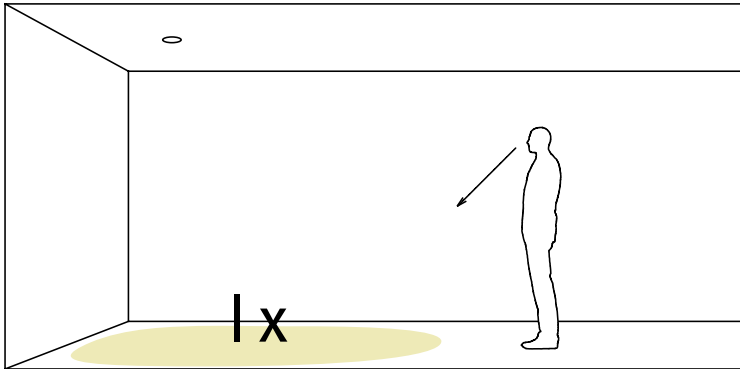


## Lighting design based around human sense of space brightness

We aim to create a more pleasant and fulfilling lighting environment that also saves energy through highly efficient lighting design. We also aim for effective incorporation of increasingly diverse light sources, including indirect and architectural lighting. This endeavor requires a benchmark other than the one conventionally used. As shown in the diagram above, the unit “lux” (symbol: “lx”) is used to measure illuminance (objective brightness of a planar surface) and indicates the amount of light illuminating a surface (i.e. a part of the architectural environment such as a floor or desktop), but it does not accurately convey the way the human eye perceives brightness. Meanwhile, luminance measures the total amount of light emitted from surfaces including reflections, etc., and a very different reading is taken depending on whether the surface in question is white or black, just as the human eye perceives a white surface as much brighter than a black one. Focusing on measuring luminance, and delving into emotional and psychological aspects as well, we sought to express human sense of brightness quantitatively and bind lighting, architectural spaces, and their human inhabitants in one seamless whole. The result of this endeavor is the “Feu” index of the human sense of space brightness.

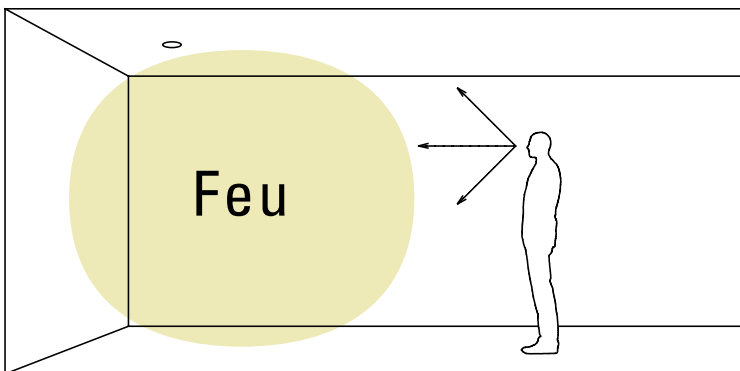
Application of this index enables design of the atmosphere of a space based on quantitative measurement. This new approach, “lighting design based around human sense of brightness,” is the idea behind SmartArchi.

## Light indexes



### **lx** : Brightness of a planar surface

lx is the standard measure of the brightness per unit area of an illuminated planar surface such as a floor or work plane. It is usually used to indicate the level of brightness required to perform work.



### **Feu** : Human sense of space brightness

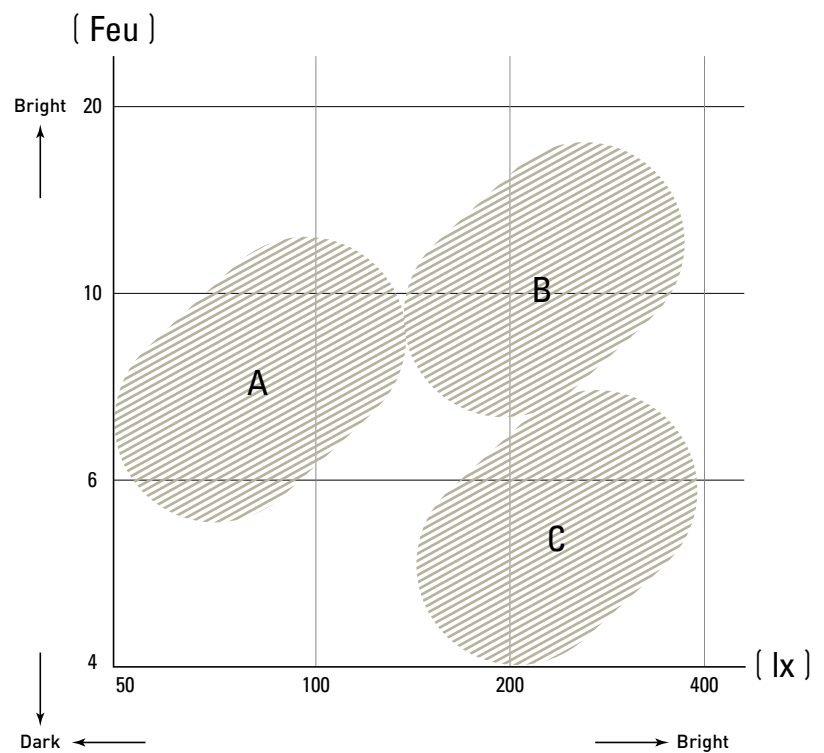
When humans look into a space, they naturally perceive not only the floor but also the ceiling, walls, etc. "Feu" is the quantifiable space brightness index which includes these effects comprehensively.

$$lx \times Feu$$

# Design guidelines

Light indexes can be combined to form a set of guidelines for more precisely targeted and higher-quality lighting design.

Human sense of space brightness

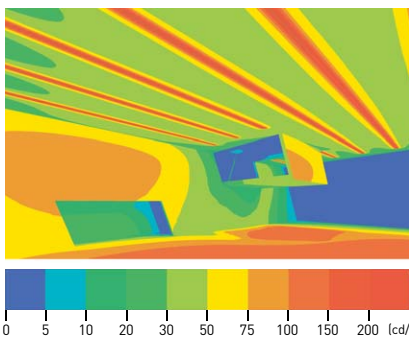


- A Soft atmosphere
- B Open atmosphere
- C Calm atmosphere

## Guidelines for brightness of interior spaces

Combined use of the units "lx," which measures average floor-level brightness, and "Feu," which gauges human sense of space brightness, enables lighting design precisely targeted to create specific atmospheres such as "soft," "open," "calm," etc.

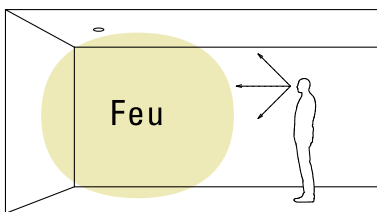
# Feu



The "Feu" for this space, visualized as a building lobby, is 16.8. The atmosphere is open. LED base lights are capable of illuminating the ceiling as well, and generate higher brightness than conventional base lights.



LED Base Light FY26677C FY26681C



## What is “Feu”?

“Feu” is a space brightness index that quantifies the human sense of brightness. In other words, it assigns a numerical value to brightness as perceived by the human eye. Using “Feu,” it is possible to execute lighting design more objectively and quantitatively, rather than relying solely on the perceptions of the designer. In spaces where indirect or architectural lighting is utilized, a lighting designer can plan the overall environment so that it appears bright to the eye, without excessively raising the average illuminance at floor level.

“Feu” makes it possible to express, in concrete terms, the “human sense of space brightness,” which cannot be achieved with “illuminance,” the conventional index of brightness.

It is a new approach that promises to facilitate both energy conservation and the design of pleasant, comfortable light environments.

# 1 “Feu” makes it possible to express human sense of brightness in numerical terms.

Space A



Feu	10
lx Average illuminance of floor	120

Space B



Feu	6
lx Average illuminance of floor	190

If you compare the two spaces shown above, Space A appears to be brighter. However, the average illuminance of floor in Space A is 120 lx, while that of Space B is 190 lx, meaning that when measuring illuminance (brightness of a planar surface, in this case the floor), Space B is actually brighter. When using “Feu,” however, the brightness of Space A is Feu10 while that of Space B is Feu6, clearly and numerically expressing the greater brightness of Space A.

# 2 “Feu” can be utilized for energy-efficient, pleasant lighting plans.

Space A



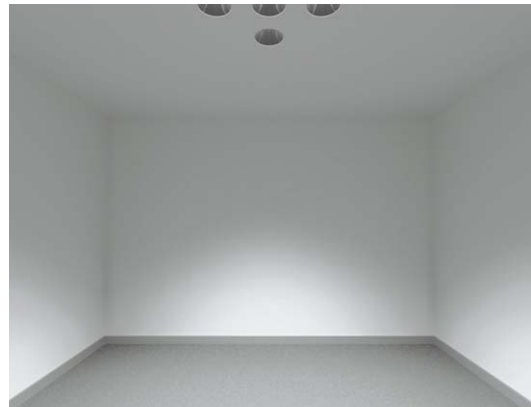
Feu	12.5
lx Average illuminance of floor	290
W	168

Number of lighting fixtures



Four fixtures  
Wallwasher Down Lights  
Arrayed around periphery

Space B



Feu	9.5
lx Average illuminance of floor	420
W	210

Number of lighting fixtures



Five fixtures  
Down Lights  
Clustered in the center

If you compare the two spaces shown above, Space A appears to be brighter. However, Space A contains only four lighting fixtures, while Space B has five, meaning A consumes less energy. With “Feu” it is possible to predict the overall brightness of the space, including walls and ceiling, which could not be done by quantifying average illuminance of floor, and facilitates energy-efficient lighting plans.

### 3 Precisely targeted lighting design is possible with combined use of “Feu” and “lx” values.

Combined use of the units “lx,” which measures illuminance, and “Feu,” which gauges overall brightness, enables lighting design precisely targeted to create specific atmospheres such as “soft,” “open,” “calm,” etc.

Simulation A



Feu	7
lx Average illuminance of floor	120

Simulation B



Feu	10
lx Average illuminance of floor	160

Simulation C

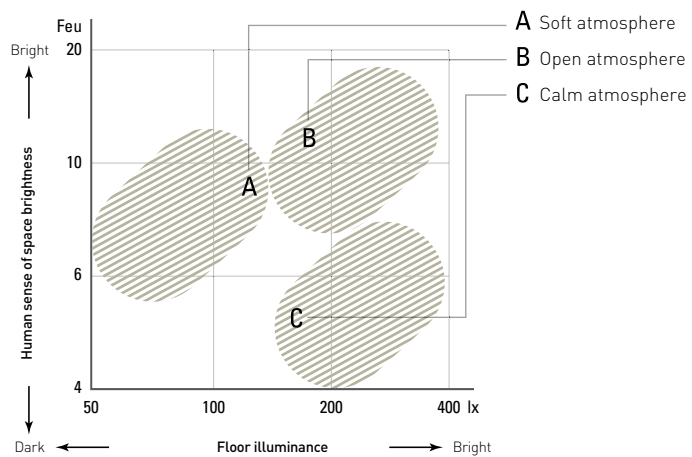


Feu	5
lx Average illuminance of floor	160

Feu value benchmarks for each area

Feu	Entrance Elevator lobby	Corridor	Offices Meeting rooms
24			
20			Brighter
16		Brighter	
13	Brighter		Standard
10		Standard	
8	Standard		Dimmer
6		Dimmer	
5	Dimmer		
4			



- Values shown above are for office buildings
- For example, the Feu value benchmark for standard brightness in work areas is Feu 10 - 16.






# Model Plan


**Entrance** Space dimensions 7.2 m×14.4 m×ceiling heights 3 m, 7 m

Ceiling height 3 m	
Line type lighting	Soft Light Round Type
	
<b>Feu 8.7</b> Average illuminance <b>301 lx</b>	<b>Feu 8.1</b> Average illuminance <b>296 lx</b>

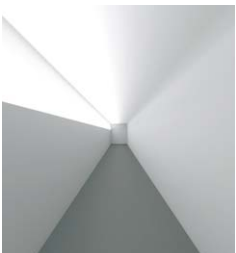

  
 21 pcs x FOYY26667C51  
 7 pcs x FOYY26691C51  
 7 pcs x FOYY26671C51  
 P.26


  
 45 pcs x NYI56238 + NTS90150 LES  
 P.56

Ceiling height 7 m	
Line type lighting	
	
<b>Feu 12.1</b> Average illuminance <b>321 lx</b>	

  
 21 pcs x FOYY26667C51  
 7 pcs x FOYY26691C51  
 7 pcs x FOYY26671C51  
 P.26




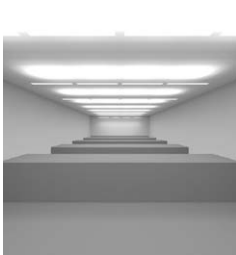






**Corridor** Space dimensions 2 m×14.4 m×ceiling heights 2.5 m

Bracket lighting (illuminating ceiling)	Bracket lighting (illuminating wall)
	
<b>Feu 9.3</b> Average illuminance <b>106 lx</b>	<b>Feu 9.4</b> Average illuminance <b>164 lx</b>

  
 1 pcs x FYY46001  
 8 pcs x FYY46002  
 1 pcs x FYY46003  
 P.62

  
 1 pcs x FYY46011  
 7 pcs x FYY46012  
 1 pcs x FYY46013  
 P.62

**Meeting room** Space dimensions 7.2 m×14.4 m×ceiling heights 3 m

Line type lighting	Line type lighting (Feu up)	Pendant (Upper and lower light distribution) (1)	Pendant (Upper and lower light distribution) (2)	Light guiding pendant
				
Feu 9.4    Average illuminance 533 lx	Feu 12.9    Average illuminance 600 lx	Feu 9.8    Average illuminance 530 lx	Feu 14.6    Average illuminance 742 lx	Feu 14.8    Average illuminance 608 lx
 21 pcs x FOYY26665C51 7 pcs x FOYY26669C51 7 pcs x FOYY26689C51 P.26	 21 pcs x FOYY26677C51 14 pcs x FOYY26681C51 P.24	 36 pcs x FOYY56013J51 P.33	 36 pcs x FOYY56024J51 P.31	 20 pcs x FOYY5603451 P.29

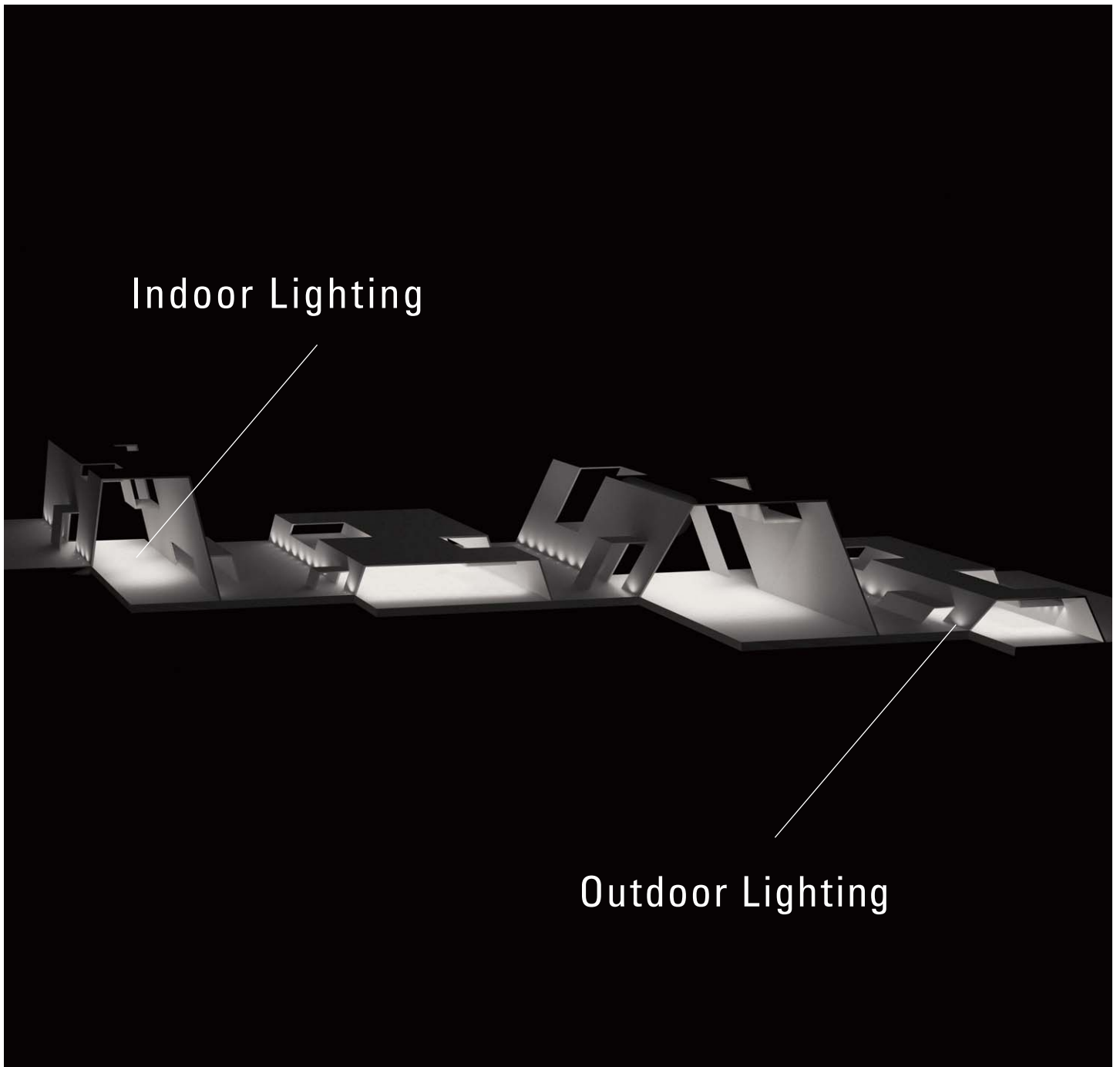
**Sheltered passageway** Space dimensions 3.6 m×32.4 m×ceiling heights 3 m

Upper Lighting Bracket



Feu 1.19    Average illuminance 11.4 lx

  
5 pcs x YYY46025Z  
P.65



## Consistent, integrated planning for entire spaces.

A single piece of architecture includes many different areas, from private interiors to public spaces and outdoor areas. Part of the role of lighting is to tie these spaces together into a single continuous environment, while at the same time ensuring lighting for each area meets the functional and performance specifications for the area's intended purpose.

SmartArchi provides support for unified lighting design for all sorts of architectural spaces, with a unified lighting concept, consistent design sense, and outstanding quality across the board.

# Product

## Base Light

P.18

### Float Light



LED Slim Base Type



LED Architectural Line Type



LED Architectural Square Type

### LED Base Light



### LED Slim Base Light



## Pendant

P.28

### Float Light



LED Pendant Type

### LED Pendant



## Down Light

P.34

### LED Glareless General Lighting



Integrated packaged type

### LED Glareless Adjustable Down Light



Integrated packaged type

### LED Glareless Wallwasher



Integrated packaged type

### LED Glareless For Under Eaves



Integrated packaged type

## Soft Light

P.54

### LED Round Type



### LED Line Type



## Bracket

P.60

### Float Light



LED Bracket Type

### LED Bracket



### LED Upper Lighting



## Upper Light

P.66

### LED Upper Light



### LED Universal Type



## Spot Light

P.72

### LED Cylinder Spot



## Explanation of the mark



This product received the iF Product Design Award from iF Industrie Forum Design Hannover e.V.



This product received the Good Design Award from the Japan Institute of Design Promotion.



Cut off angle set at 30° so as to eliminate unpleasant glare from the field of vision.



Shows light distribution angle of soft lights, downlights and adjustable downlights.



Shows light swing angle of adjustable downlights.



Real CG simulation (Half-embedded type)



Real CG simulation (Embedded type)

Base Light

# Float Light LED Slim Base Type

This new style of base light features a light guide panel with a slim light-emitting surface with thickness of only 4mm that produces optimum light distribution, achieving both subjective ceiling brightness and sufficient illuminance, and creating an expansive-feeling space.

## Half-embedded type L1200 type



### LED (4000K)

#### FYY26040

- (2810 lm, 24W, 117.0 lm/W)  
 • Modular light fixture:  
 FYY26041 (Middle of linked series)  
 FYY26042 (End of linked series)

### LED (3500K)

#### FYY26000

- (2760 lm, 24W, 115.0 lm/W)  
 • Modular light fixture:  
 FYY26001 (Middle of linked series)  
 FYY26002 (End of linked series)

### LED (3000K)

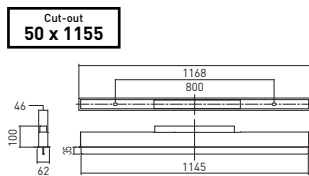
#### FYY26030

- (2680 lm, 24W, 111.6 lm/W)  
 • Modular light fixture:  
 FYY26031 (Middle of linked series)  
 FYY26032 (End of linked series)

• 5000K Available

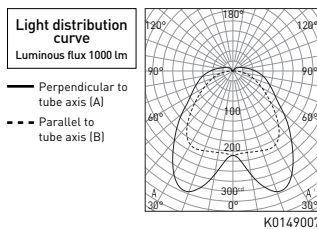
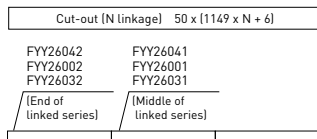
### Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Panel: Acrylic, Transparent
- Weight: 4.5 kg
- For embedding in horizontal ceilings

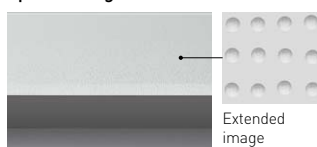


Insertion height 200 (Including range of panel movement)

### When link in series



### Molding of a microlens produces optimum light distribution

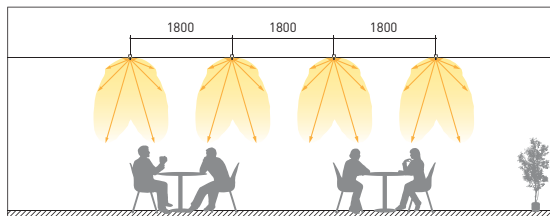
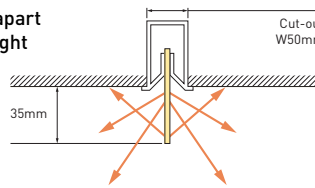


Panel image (When light is on)

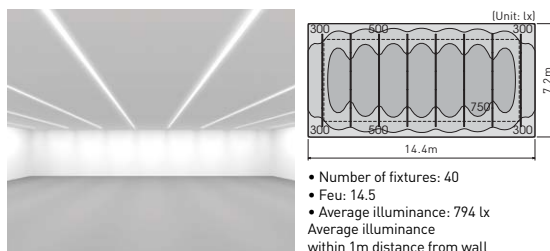


Panel edge surface is designed to curtail glare.

### Light guide panel 35mm apart from ceiling distributes light to both ceiling surface and tabletop surface (Half-embedded type)



### Increase in the ceiling surface's subjective brightness (Feu) creates an extensive-feeling to space (Half-embedded type)



- Installation conditions**
- Space dimensions: 14.4 m×7.2m
  - Ceiling height: 2.7 m
  - Reflectivity rate: Ceiling 70%, wall 50%, floor 10%
  - 0.8 m above floor

### Modular units can be assembled to blend atmosphere



## Embedded type L1200 type



### LED (4000K)

#### FYY26140

- (2300 lm, 24W, 95.8 lm/W)  
 • Modular light fixture:  
 FYY26141 (Middle of linked series)  
 FYY26142 (End of linked series)

### LED (3500K)

#### FYY26100

- (2270 lm, 24W, 94.5 lm/W)  
 • Modular light fixture:  
 FYY26101 (Middle of linked series)  
 FYY26102 (End of linked series)

### LED (3000K)

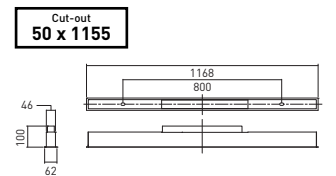
#### FYY26130

- (2200 lm, 24W, 91.6 lm/W)  
 • Modular light fixture:  
 FYY26131 (Middle of linked series)  
 FYY26132 (End of linked series)

• 5000K Available

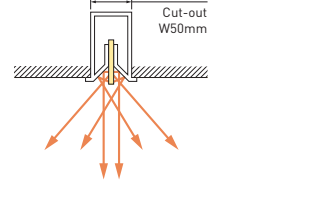
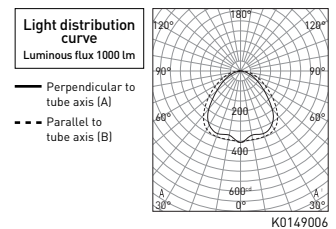
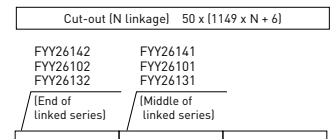
### Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Panel: Acrylic, Transparent
- Weight: 4.3 kg
- For embedding in horizontal ceilings



Insertion height 200 (Including range of panel movement)

### When link in series



# Float Light LED Architectural Line Type

New style in which base lights are incorporated into the architecture, and attention is not drawn to light source because light is emitted from side slits in covered ceiling. Vertical placement of light guide panel achieves optimum wide light distribution.

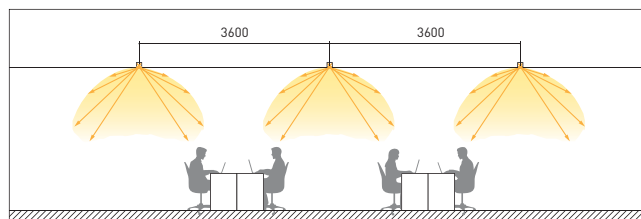
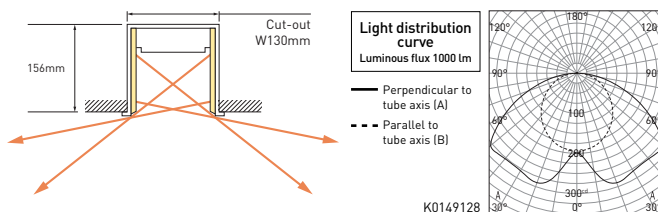


Real CG simulation

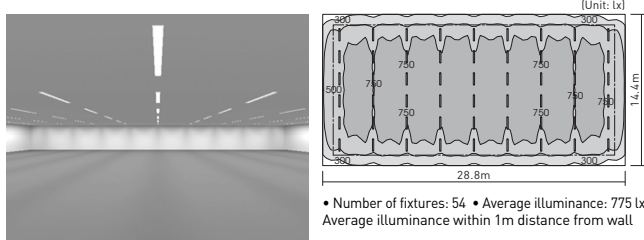


Because light is emitted from side slits in covered ceiling, this style achieves optimum wide light distribution without drawing attention to light source. Panel surface is designed to curtail glare.

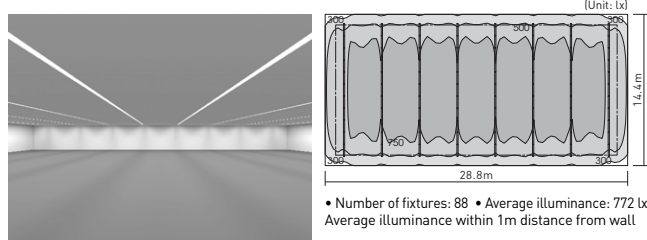
Wide, uniform light distribution is possible by the optical design of the light guide plate inside fixture, even on wide-span mounting.



Maintains average illuminance of 750 lx or above even scattered placement with 3.2m pitch (High luminous flux type)



Secures average illuminance of 750 lx or above even with 3.6m pitch (Low luminous flux type)



Installation conditions | • Space dimensions: 28.8m x 14.4m • Ceiling height: 2.7 m • Reflectivity rate: Ceiling 70%, wall 50%, floor 10% • 0.8 m above floor



Modular units can be assembled to fit interior



\*When units are connected, there are interstices between the panels.

**High luminous flux type** L1200 type

**LED (4000K)**

**FYY26340** CRI83

(7240 lm, 82W, 88.2 lm/W)

- Modular light fixture:  
FYY26341 (Middle of linked series)  
FYY26342 (Right end of linked series)  
FYY26343 (Left end of linked series)

**LED (3500K)**

**FYY26300** CRI83

(7130 lm, 82W, 86.9 lm/W)

- Modular light fixture:  
FYY26301 (Middle of linked series)  
FYY26302 (Right end of linked series)  
FYY26303 (Left end of linked series)

**LED (3000K)**

**FYY26330** CRI83

(6930 lm, 82W, 84.5 lm/W)

- Modular light fixture:  
FYY26331 (Middle of linked series)  
FYY26332 (Right end of linked series)  
FYY26333 (Left end of linked series)

• 5000K Available

**Common specifications**

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Panel: Acrylic, Transparent
- Weight: 7.5 kg
- For embedding in horizontal ceilings

**Low luminous flux type** L1200 type

**LED (4000K)**

**FYY26240** CRI83

(4450 lm, 49W, 90.8 lm/W)

- Modular light fixture:  
FYY26241 (Middle of linked series)  
FYY26242 (Right end of linked series)  
FYY26243 (Left end of linked series)

**LED (3500K)**

**FYY26200** CRI83

(4380 lm, 49W, 89.3 lm/W)

- Modular light fixture:  
FYY26201 (Middle of linked series)  
FYY26202 (Right end of linked series)  
FYY26203 (Left end of linked series)

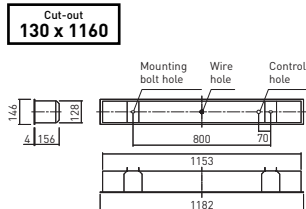
**LED (3000K)**

**FYY26230** CRI83

(4250 lm, 49W, 86.7 lm/W)

- Modular light fixture:  
FYY26231 (Middle of linked series)  
FYY26232 (Right end of linked series)  
FYY26233 (Left end of linked series)

• 5000K Available



Insertion height 170 (Including range of panel movement)

**When link in series**

Cut-out (N linkage) 130 x (1152 x N + 10)

FYY26343	FYY26341	FYY26342
FYY26303	FYY26301	FYY26302
FYY26333	FYY26331	FYY26332
FYY26243	FYY26241	FYY26242
FYY26203	FYY26201	FYY26202
FYY26233	FYY26231	FYY26232
(Left end of linked series)	(Middle of linked series)	(Right end of linked series)



# Float Light LED Architectural Square Type

New style of architectural base lighting in which light is emitted from sides of coved ceiling.  
Vertical placement of light guide panel creates soft indirect light while achieving optimum wide light distribution with sufficient illuminance

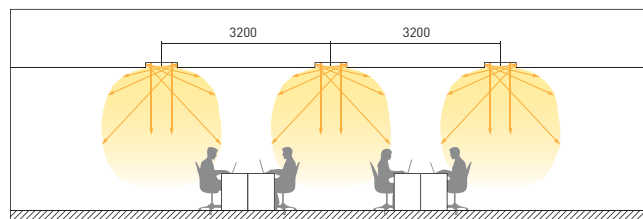
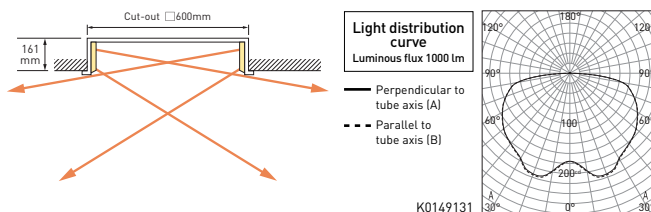


Real CG simulation

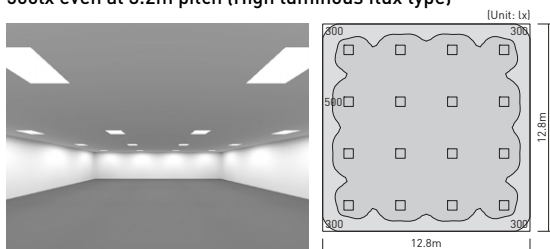


Optimum wide light distribution that achieves both soft indirect light and sufficient illuminance. Panel edge surface is designed to curtail glare.

Wide, uniform light distribution is possible by the optical design of the light guide plate inside fixture, even on wide-span mounting.



Maintains average illuminance of 500lx even at 3.2m pitch (High luminous flux type)



- Number of fixtures: 16
- Average illuminance: 552 lx

Installation conditions | • Space dimensions: 12.8m x 12.8m • Ceiling height: 2.7 m • Reflectivity rate: Ceiling 70%, wall 50%, floor 10% • 0.8 m above floor



High luminous flux type

LED (4000K)

**FYY26449** CRI83  
 (8470 lm, 82W, 103.2 lm/W)

LED (3500K)

**FYY26409** CRI83  
 (8340 lm, 82W, 101.7 lm/W)

LED (3000K)

**FYY26439** CRI83  
 (8100 lm, 82W, 98.7 lm/W)

• 5000K Available

Low luminous flux type

LED (4000K)

**FYY26448** CRI83  
 (5190 lm, 49W, 105.9 lm/W)

LED (3500K)

**FYY26408** CRI83  
 (5110 lm, 49W, 104.2 lm/W)

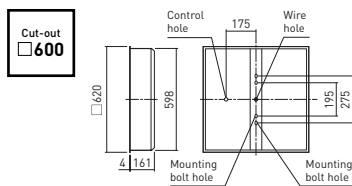
LED (3000K)

**FYY26438** CRI83  
 (4970 lm, 49W, 101.4 lm/W)

• 5000K Available

Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Panel: Acrylic, Transparent
- Weight: 9.6 kg
- For embedding in horizontal ceilings



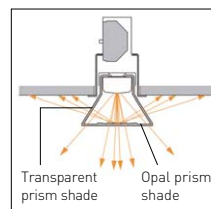
Insertion height 180 (Including range of panel movement)

# LED Base Light

Base lights increase human sense of space brightness (Feu) for a pleasant environment and energy savings.



FOYY26673C51



Shade is formed in two colors, transparent prism and opal prism, to cut glare and achieve effective light distribution.



Detail of link designed to achieve unbroken, continuous light source.

## LED (4000K)

### FOYY26673C51

CRI83

[2880 lm, 31W, 92.9 lm/W]

- Modular light fixture:  
FOYY26677C51 [Middle of linked series]  
FOYY26681C51 [End of linked series]

## LED (3500K)

### FOYY26674C51

CRI83

[2850 lm, 31W, 91.9 lm/W]

- Modular light fixture:  
FOYY26678C51 [Middle of linked series]  
FOYY26682C51 [End of linked series]

## LED (3000K)

### FOYY26675C51

CRI83

[2830 lm, 31W, 91.3 lm/W]

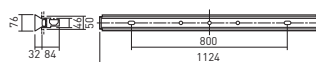
- Modular light fixture:  
FOYY26679C51 [Middle of linked series]  
FOYY26683C51 [End of linked series]

- 5000K Available

#### Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h  
(Luminous flux maintenance rate 85%)
- Body: Steel, Cool white
- Cover: Acrylic, Opal, Prism on both sides
- Weight: 3.8 kg
- For embedding in horizontal ceilings

Cut-out  
50 x 1111



Insertion height 100

#### When link in series

Cut-out (N linkage) 50 x (1105 x N + 6)

FOYY26681C51	FOYY26677C51
FOYY26682C51	FOYY26678C51
FOYY26683C51	FOYY26679C51
[End of linked series]	[Middle of linked series]



Kobe Steel, Ltd. Head Office Building

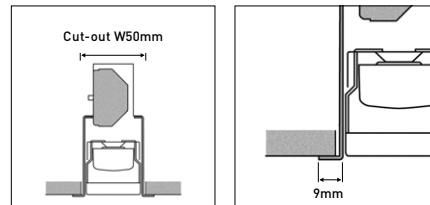
# LED Slim Base Light

Stylish form de-emphasizes the light fixture itself for an elegant, streamlined interior.



FOYY26661C51

Realizing highly efficient lighting with slim design



Width of frame reduced to blend in with the ceiling.

Louver pitch designed to make linked fixture appear as one fixture



## LED (4000K)

### FOYY26661C51

CRI83

[2390 lm, 31W, 77.1 lm/W]

- Modular light fixture:
  - FOYY26665C51 [Middle of linked series]
  - FOYY26669C51 [Left end of linked series]
  - FOYY26689C51 [Right end of linked series]

## LED (3500K)

### FOYY26662C51

CRI83

[2370 lm, 31W, 76.5 lm/W]

- Modular light fixture:
  - FOYY26666C51 [Middle of linked series]
  - FOYY26670C51 [Left end of linked series]
  - FOYY26690C51 [Right end of linked series]

## LED (3000K)

### FOYY26663C51

CRI83

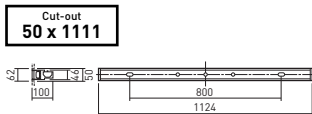
[2350 lm, 31W, 75.8 lm/W]

- Modular light fixture:
  - FOYY26667C51 [Middle of linked series]
  - FOYY26671C51 [Left end of linked series]
  - FOYY26691C51 [Right end of linked series]

- 5000K Available

#### Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h  
(Luminous flux maintenance rate 85%)
- Body: Steel, Cool white
- Louver: Steel, Cool white
- Weight: 4.1 kg
- For embedding in horizontal ceilings



Insertion height 100

#### When link in series

Cut-out (N linkage) 50 x (1105 x N + 6)		
FOYY26669C51	FOYY26665C51	FOYY26689C51
FOYY26670C51	FOYY26666C51	FOYY26690C51
FOYY26671C51	FOYY26667C51	FOYY26691C51
[Left end of linked series]	[Middle of linked series]	[Right end of linked series]



Kobe Steel, Ltd. Head Office Building

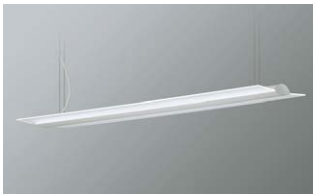


Sanko Gakuen Ayase School Building

Pendant

# Float Light LED Pendant Type

Light guide panel pendant illuminates both ceiling and tabletop. Ultra-slim fixture form looks like a bar of light itself. Highly uniform light even when pitch between fixtures is as wide as three meters.



**LED (5000K)**

**FOYY5603051** CRI83

(5600 lm, 47W, 119.1 lm/W)

- Modular light fixture:  
FOYY5603151 [Linked power supply series]  
FOYY5603251 [Middle of linked series]  
FOYY5603351 [Linked signal series]

**LED (4000K)**

**FOYY5603451** CRI83

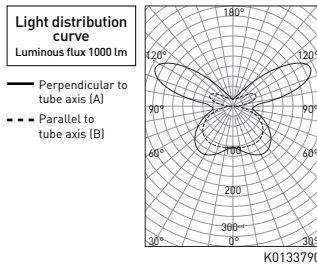
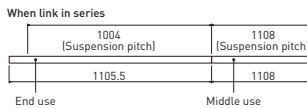
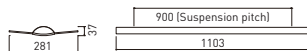
(5360 lm, 47W, 114.0 lm/W)

- Modular light fixture:  
FOYY5603551 [Linked power supply series]  
FOYY5603651 [Middle of linked series]  
FOYY5603751 [Linked signal series]

**Common specifications**

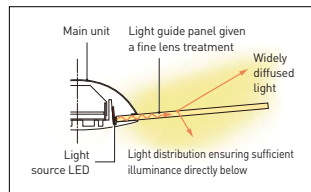
- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h  
(Luminous flux maintenance rate 85%)
- Body: Aluminium, White matte finish
- Panel: Acrylic, Transparent
- Weight: 4.1 kg

**Note:**  
• Suspension hardware sold separately



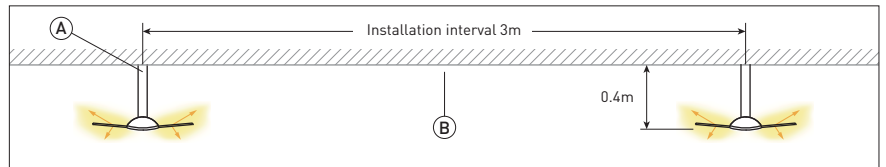
**Light guide panel enables different upper and lower light distribution**

The upper surface of the light guide panel is given a fine lens treatment and light guide technology is employed to diffuse light across the ceiling as well. Light diffuses widely across the ceiling, while sufficient illuminance is also ensured below the fixture.



**Degree of uniformity where luminance ratio A:B = 10:1 or less**

If ratio of luminance at point A and point B is less than 10:1, unevenness of ceiling surface illumination is within allowable range (according to Panasonic image evaluation).

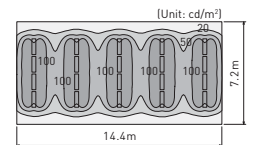


**Diagram of ceiling luminance distribution**

- Number of fixtures: 20 • Power consumption: 940W
- Luminance at point A: 137.5 cd/m<sup>2</sup> • Luminance at point B: 55.9 cd/m<sup>2</sup>

**Installation conditions**

- Space dimensions: 14.4 m x 7.2 m • Ceiling height: 3 m
  - Reflectivity rate: Ceiling 70%, wall 50%, floor 10% • 0.7 m above floor
- Simulation assuming uniform diffusion surface



**Panel has glowing surface when light is on, is transparent when light is off**

Slim form minimizes obtrusive presence in interior. When light is off, panel appears transparent, reducing the noticeability of the fixture and making the space seem more expansive.



When light is on



When light is off

**Modular units can be assembled to fit interior**

Joints are not noticeable and joints are compact and streamlined, providing beautiful, continuous unbroken light.



\*When units are connected, there are interstices between the panels.

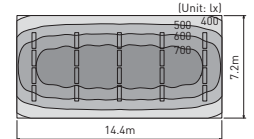


**Diagram of desktop luminance distribution**

- Number of fixtures: 20 • Power consumption: 940W
- Feu: 18.1 • Average illuminance: 618 lx

**Installation conditions**

- Space dimensions: 14.4 m x 7.2 m • Ceiling height: 3 m
  - Reflectivity rate: Ceiling 70%, wall 50%, floor 10%
  - 0.7 m above floor
- Simulation assuming uniform diffusion surface



**Modular light fixture**

	Single units	<b>FOYY5603051</b> <b>FOYY5603451</b>
	Linked power supply series	<b>FOYY5603151</b> <b>FOYY5603551</b>
	Middle of linked series	<b>FOYY5603251</b> <b>FOYY5603651</b>
	Linked signal series	<b>FOYY5603351</b> <b>FOYY5603751</b>

**Specialized suspension hardware**

For single units or modules at end of series (with power cable)

**FOYY80105**

For linking sections (single unit / linking section)

**FOYY80106**

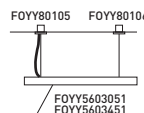


**Common specifications**

- Body: Steel, White
- Cover: Steel, White
- Wire adjustment length: 400-1000 mm (Distance from ceiling to lower surface of fixture)
- Cut-out: ø85 mm
- Embedding height: 70 mm

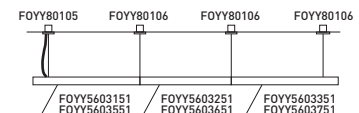
**Note:** Cannot be mounted on diagonally sloping ceilings.

**Ex. With single unit**



**Assembly example**

\*Power supply cable sends power to inside fixture.

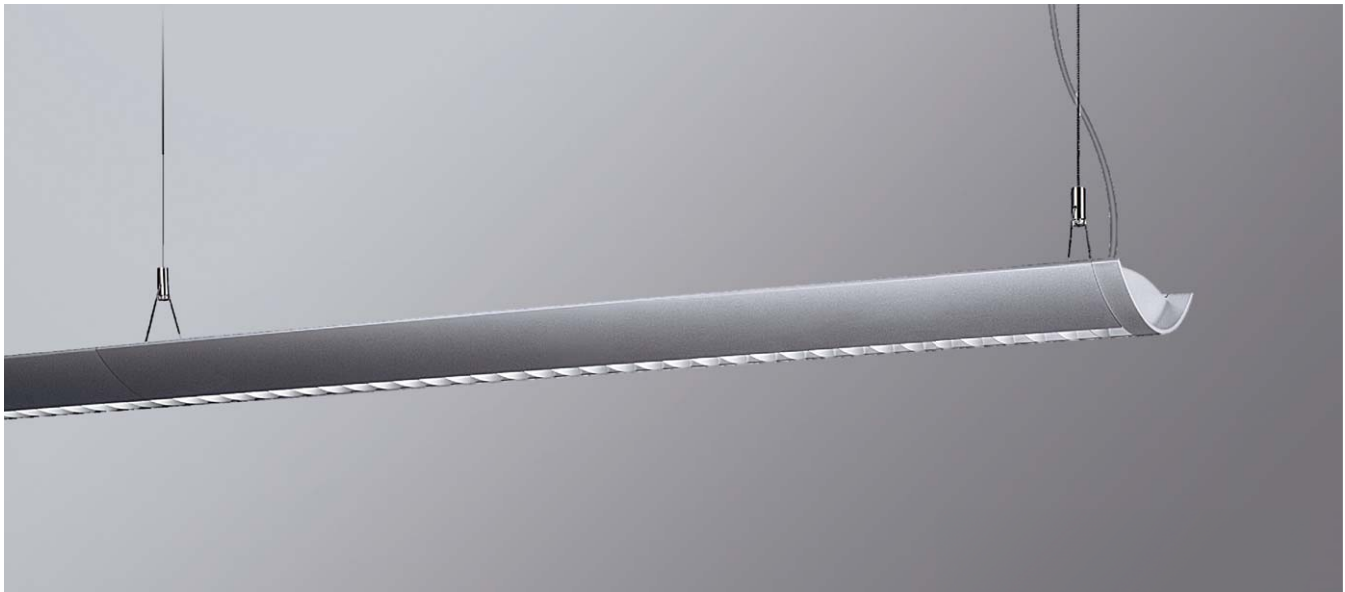




# LED Pendant Upper and lower light distribution, scene adjustment type



Stylish pendant with light sources both above and below enables balance adjustment of Feu (human sense of space brightness) and average illuminance of floor in accordance with the situation.



Simple, slim and unobtrusive design blends into the interior.



Lower light ensures sufficient illuminance, with glare cut by a silver metallic louver.



Plentiful upper light gives the interior an expansive feel.



Louvers at joint sections are designed for maximum continuity of light.

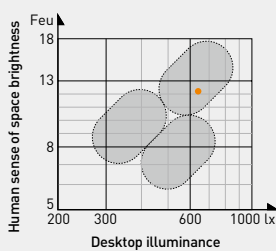
A Panasonic simulation gauging suitability for meeting rooms determined that this lighting is geared toward stimulation (during discussions), relaxation (meals, etc.), and concentration (while working).

\*Graph shows subjective judgments from an in-house experiment. \*Photo is a simulated image.

## Stimulation (during discussions)



- Upper: 100%, Lower: 100%
- Feu 12.2, 624 lx

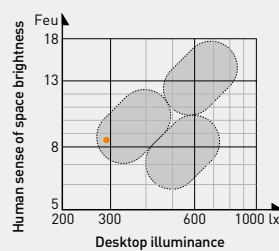


Full-strength light above and below creates a stimulating environment that encourages discussion.

## Relaxation (meals, etc.)



- Upper: 100%, Lower: 30%
- Feu 8.5, 296 lx

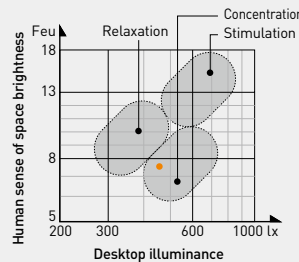


Indirect light sources generate a relaxing atmosphere.

## Concentration (while working)

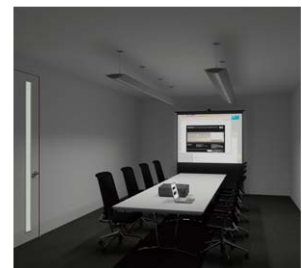


- Upper: 0%, Lower: 100%
- Feu 7.7, 469 lx



Direct light only eliminates surrounding distractions and enables focus on work.

## Presentation



- Upper: 0%, Lower: 25%

Light can be adjusted during presentations to provide sufficient light for the presenter to see materials, etc.

**Installation conditions** | • 5000K • Space dimensions: 4.2m×7.2m • Ceiling height: 2.7 m • Reflectivity rate: Ceiling 80%, wall 75%, floor 15%  
• Desktop reflectivity rate: 65% • 0.8 m above floor • Maintenance factor: 0.72



**LED (5000K)**

**FOYY56020J51**

CR183

[3990 lm, 52W, 76.7 lm/W]

- Modular light fixture:  
FOYY56021J51 (Linked power supply series)  
FOYY56022J51 (Middle of linked series)  
FOYY56023J51 (Linked signal series)

**LED (4000K)**

**FOYY56024J51**

CR183

[3670 lm, 52W, 70.6 lm/W]

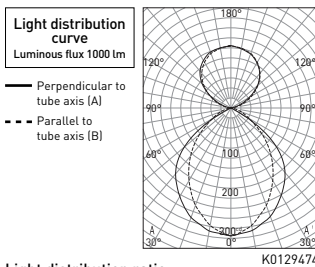
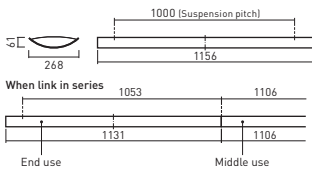
- Modular light fixture:  
FOYY56025J51 (Linked power supply series)  
FOYY56026J51 (Middle of linked series)  
FOYY56027J51 (Linked signal series)

**Common specifications**

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h  
(Luminous flux maintenance rate 85%)
- Body: Aluminum, Silver metallic
- Louver: Steel plate, Silver metallic
- Ends: ABS resin, Silver metallic
- Upper and lower light distribution can be separately controlled (ON/OFF)
- Weight: 7.0 kg

**Note:**

- Suspension hardware sold separately

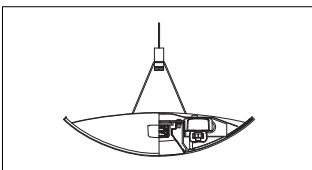


**Light distribution ratio**

- Upper light distribution: 40%
- Lower light distribution: 60%

**Separate control feature for upper and lower light distribution**

- 25% - 100% • ON/OFF



**Cross-section**

- Louver shielding angle: Vertical direction 32°, horizontal direction 25°



Photo is a simulated image.

**Modular light fixture**

	Single units	<b>FOYY56020J51</b>	<b>FOYY56024J51</b>
	Linked power supply series	<b>FOYY56021J51</b>	<b>FOYY56025J51</b>
	Middle of linked series	<b>FOYY56022J51</b>	<b>FOYY56026J51</b>
	Linked signal series	<b>FOYY56023J51</b>	<b>FOYY56027J51</b>

**Specialized suspension hardware**



For single units or modules at end of series (with power cable)  
**FOYY80035**  
• With cord (gray) for wiring



For linking sections (single unit / linking section)  
**FOYY80031**

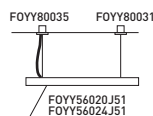
Cut-out  
ø85

**Common specifications**

- Body: Steel, white
- Cover: Steel, Silver metallic
- Wire adjustment length: 400~1000 mm (Distance from ceiling to lower surface of fixture)
- Cut-out: ø85 mm
- Embedding height: 70 mm

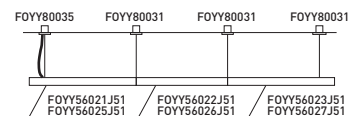
**Note:** Cannot be mounted on diagonally sloping ceilings.

**■ Ex. With single unit**



**■ Assembly example**

\*Power supply cable sends power to inside fixture.

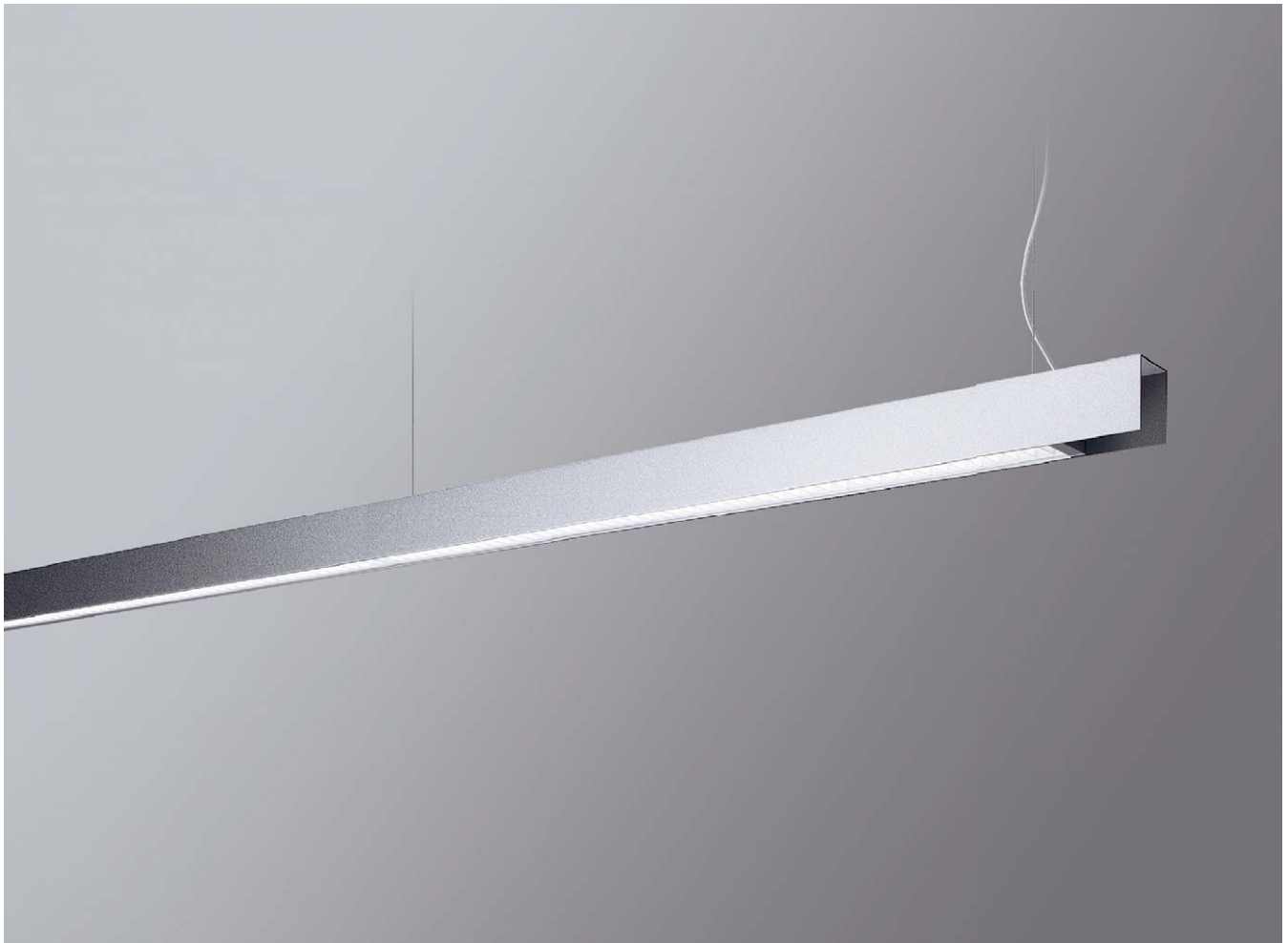


# LED Pendant Upper and lower light distribution, standard type



Sleek, simple form blends into interior.

Achieves light distribution equivalent to conventional light source (fluorescent) while consuming less power.



Blends smoothly into interior with detailing similar to that of architectural elements.



Louvers at joint sections are designed for maximum continuity of light.

## The Long Life Design Award

The Long Life Design Award is a special honor conferred by the Good Design Award committee on products that win the Good Design Award and after ten years are still on the market and popular with consumers. Panasonic succeeded in maintaining the same design while switching light sources to LED.



LED (5000K)

**FOYY56010J51**

CR183

[2540 lm, 31W, 81.9 lm/W]

- Modular light fixture:  
FOYY56012J51 (Middle of linked series)  
FOYY56011J51 (End of linked series)

LED (4000K)

**FOYY56013J51**

CR183

[2330 lm, 31W, 75.2 lm/W]

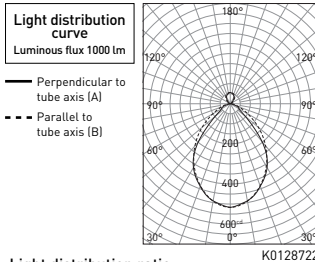
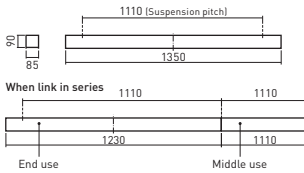
- Modular light fixture:  
FOYY56015J51 (Middle of linked series)  
FOYY56014J51 (End of linked series)

Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h  
[Luminous flux maintenance rate 85%]
- Body: Steel, Highly reflective white powder coating
- Reflector: Steel, Highly reflective white powder coating
- Louver: Zinc-steel, Highly reflective white powder coating
- Shade: Aluminum, Silver metallic
- Panel: Acrylic, Translucent prism
- Ends: Plastic, Silver metallic
- Weight: 6.3 kg

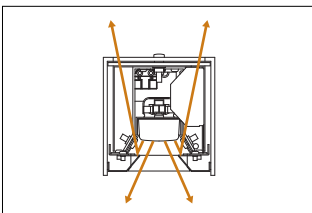
Note:

- Suspension hardware sold separately



Light distribution ratio

- Upper light distribution: 10%
- Lower light distribution: 90%



Internal reflector diffuses light both upward and downward.

- Lower shielding angle: Vertical direction 27°, horizontal direction 31°



Shizuoka University Faculty of Humanities and Social Sciences

Modular light fixture

	Single units	<b>FOYY56010J51</b>	<b>FOYY56013J51</b>
	Middle of linked series	<b>FOYY56012J51</b>	<b>FOYY56015J51</b>
	End of linked series	<b>FOYY56011J51</b>	<b>FOYY56014J51</b>

Specialized suspension hardware

For single units or modules at end of series (with power cable)  
**FOYY80000**  
• With cord (white) for wiring

For single units or linking sections  
**FOYY80001**

For linking sections  
**FOYY80002**

Common specifications

- Body: Steel, White
- Cover: Steel, Silver metallic
- Wire adjustment length: 400~1000 mm [Distance from ceiling to lower surface of fixture]
- Cut-out: ø85 mm
- Embedding height: 70 mm

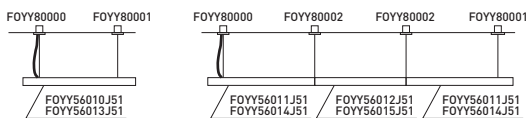
Note: Cannot be mounted on diagonally sloping ceilings.

Cut-out  
ø85

■ Ex. With single unit

■ Assembly example

\*Power supply cable sends power to inside fixture.





Nibancho Terrace

\*Photo shows case example of Glareless Down Lights installed. (Conventional light source in use as well)

## Down Light

# Glareless

## Outstanding reflectivity without glare through deposition technology

With aluminum deposition mirrored-surface reflector, the luminance of the reflector itself is minimized, and the fixture becomes less noticeable.



## Mirrored-surface reflector made with aluminum deposition

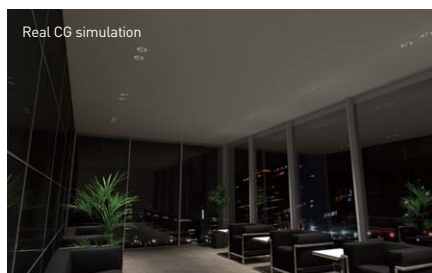
We took scrupulous care with the aluminum deposition treatment to create a highly reflective surface that creates interiors with a premium-quality, luxurious atmosphere.

### Glareless Down Light



### Aluminum deposition mirrored-surface reflector

With a degree of reflectivity, surface achieves specular reflection (mirror-like reflection of light from a single incoming direction in a single outgoing direction), with virtually no glare from background reflections.



Light fixture is rendered less noticeable, and light's center of gravity is lower, creating a calm atmosphere.

### Standard Down Light



### Silver mirrored-surface reflector

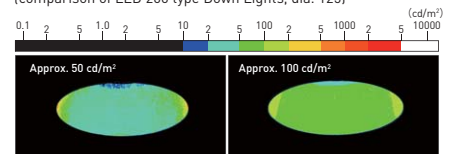
Low reflectivity compared to aluminum deposition, meaning light is diffused and blurred.

Mirrored-surface reflectivity rate  
**12%\* UP**

\*Comparison of Panasonic aluminum deposition reflector and silver mirrored-surface reflector [Survey by Panasonic]

### Luminance comparison with standard silver mirrored-surface reflector

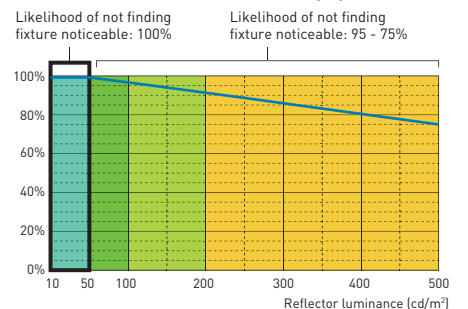
Luminance measurement (comparison of LED 200 type Down Lights, dia. 125)



SmartArchi Glareless Aluminum deposition mirrored-surface reflector

Standard downlight Silver mirrored-surface reflector

### Glare assessment test results (survey by Panasonic)



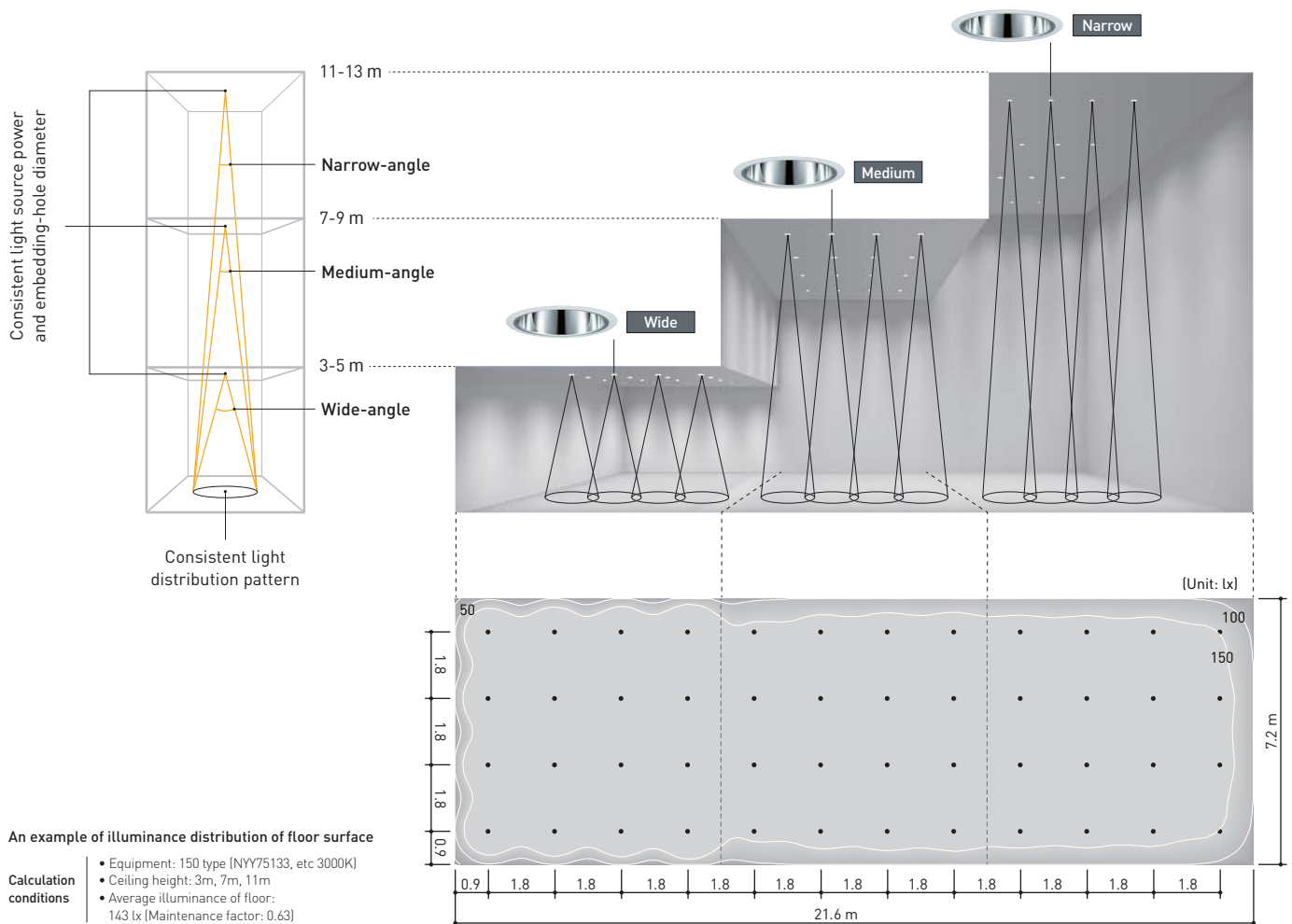
Incorporates highly reflector that achieves specular reflection (mirror-like reflection of light from a single incoming direction in a single outgoing direction), with virtually no glare from background reflections. Both the noticeability of the light fixture and glare off glass surfaces are minimized, achieving a calm environment that lets the night view out the window take center stage.

\*Approx. 1/2 luminance (comparison under same conditions including light source, conformation of reflector, etc.)

# Modular Lighting

Light distribution arrangement inspired by the concept of architectural modules.  
Simplifies the lighting design process.

Modular Lighting is a new method of lighting planning inspired by architectural modules. Layout is envisioned and light distribution arranged based on length of spans between architectural supports. Even in an interior with three different ceiling heights, simply select among narrow-angle, medium-angle and wide-angle light distribution in accordance with ceiling height, and the illumination patterns and levels will be the same. This enables consistent fixture layout, embedding-hole diameter, and light source power, simplifying the process of lighting design.



An example of illuminance distribution of floor surface




- Calculation conditions
- Equipment: 150 type (NYY75133, etc 3000K)
  - Ceiling height: 3m, 7m, 11m
  - Average illuminance of floor: 143 lx (Maintenance factor: 0.63)

Ceiling height		3-5 m	7-9 m	11-13 m
Light distribution		▲ Wide	▲ Medium	▲ Narrow
Average illuminance of floor	150-200 lx	Cut-out ø100 150 type Wide	Cut-out ø100 150 type Medium	Cut-out ø100 150 type Narrow
	200-300 lx	Cut-out ø150 200 type Wide	Cut-out ø150 200 type Medium	Cut-out ø150 200 type Narrow
	300-400 lx	Cut-out ø200 250 type Wide	Cut-out ø200 250 type Medium	Cut-out ø200 250 type Narrow

Multi packaged LED Down Lights only

## Lighting design simulation of Modular Lighting

### ■ Glareless even lighting design

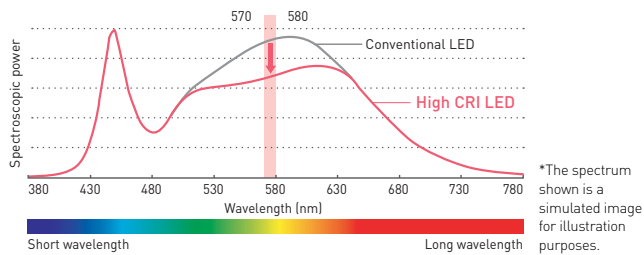
Model plan							
Designed illuminance		Equipment*	Average illuminance of floor	Equipment*	Average illuminance of floor	Equipment*	Average illuminance of floor
100-200 lx	150 type	CH 3: NYY75133 CH 7: NYY75123 CH 11: NYY75113	143 lx	CH 4: NYY75133 CH 8: NYY75123 CH 12: NYY75113	137 lx	CH 5: NYY75133 CH 9: NYY75123 CH 13: NYY75113	132 lx
200-300 lx	200 type	CH 3: NYY75933 CH 7: NYY75923 CH 11: NYY75913	281 lx	CH 4: NYY75933 CH 8: NYY75923 CH 12: NYY75913	270 lx	CH 5: NYY75933 CH 9: NYY75923 CH 13: NYY75913	259 lx
300-400 lx	250 type	CH 3: NYY75933 CH 7: NYY75923 CH 11: NYY75913	381 lx	CH 4: NYY75933 CH 8: NYY75923 CH 12: NYY75913	367 lx	CH 5: NYY75933 CH 9: NYY75923 CH 13: NYY75913	353 lx

\*Color temperature of all equipments shown above are 3000K. Please see P.40 onward for more information about the other equipments. These Down Lights secure almost the same average illuminance of floor regardless of their colour temperature.

# High CRI LED

**Natural object colors** Features high color rendering as shown in CRI95, which make colors look close to the way they appear under sunlight.

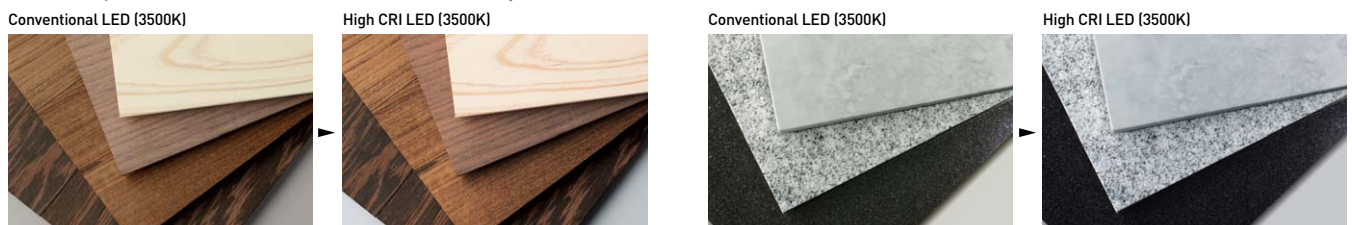
### ■ Spectral distribution



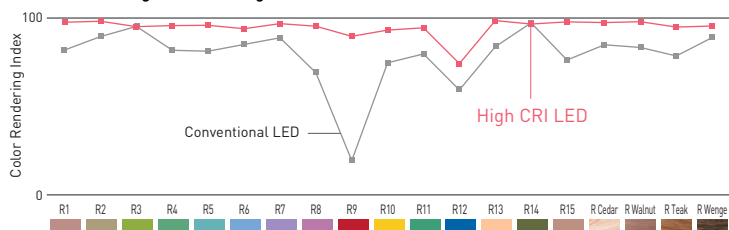
### ■ CRI95 is light that makes illuminated objects appear their natural color.



### ■ Attractively showcases the actual look, color, and texture of objects such as architectural elements and furniture



### ■ Color Rendering Indexes of High CRI LED and conventional LED



Examination of the appearance of each test color\*<sup>1</sup> and material reveals that High CRI LED especially greatly improves the appearance of reds compared to conventional LED. It also greatly improves the appearance of colors with R material\*<sup>2</sup>. It brings out the natural colors and material textures of architectural elements and furniture that make up interiors, as well as fabrics, etc. to produce interior spaces with a higher-grade, luxury feel.















\*1 Test colors: Colors for evaluating the color rendering properties of light sources, as defined by JIS Z 8726-1990. The Average Color Rendering Index (Ra) is the average value of test colors R1 - R8, while R9 - R15 are defined as the Special Color Rendering Index.  
\*2 R material: The Special Color Rendering Index calculated from the spectral radiance factor of wood, according to the calculation method of R1 - R15 in JIS Z 8726-1990.



# LED Down Light Matrix

Brightness level		100/60 type	150/100 type	150 type	200/150 type	200 type	250/200 type
Cut-out							
LED Glareless General Lighting	 Narrow		CRI85 ○ NYY75114 ○ NYY75110 ● NYY75113 ● NYY75112  CRI95 ○ NYY75164 ○ NYY75160 ● NYY75163 ● NYY75162			CRI85 ○ NYY75214 ○ NYY75210 ● NYY75213 ● NYY75212  CRI95 ○ NYY75264 ○ NYY75260 ● NYY75263 ● NYY75262	CRI85 ○ NYY75914 ○ NYY75910 ● NYY75913 ● NYY75912
	 Medium		CRI85 ○ NYY75124 ○ NYY75120 ● NYY75123 ● NYY75122  CRI95 ○ NYY75174 ○ NYY75170 ● NYY75173 ● NYY75172			CRI85 ○ NYY75224 ○ NYY75220 ● NYY75223 ● NYY75222  CRI95 ○ NYY75274 ○ NYY75270 ● NYY75273 ● NYY75272	CRI85 ○ NYY75924 ○ NYY75920 ● NYY75923 ● NYY75922
	 Wide		CRI85 ○ NYY75134 ○ NYY75130 ● NYY75133 ● NYY75132  CRI95 ○ NYY75184 ○ NYY75180 ● NYY75183 ● NYY75182			CRI85 ○ NYY75234 ○ NYY75230 ● NYY75233 ● NYY75232  CRI95 ○ NYY75284 ○ NYY75280 ● NYY75283 ● NYY75282	CRI85 ○ NYY75934 ○ NYY75930 ● NYY75933 ● NYY75932
	 Wide spread						CRI85 ○ NYY75244 ○ NYY75240 ● NYY75243 ● NYY75242  CRI95 ○ NYY75294 ○ NYY75290 ● NYY75293 ● NYY75292
LED Glareless Adjustable Down Light	 Narrow	CRI85 ○ NYY71114 ○ NYY71110 ● NYY71113 ● NYY71112  CRI95 ○ NYY71164 ○ NYY71160 ● NYY71163 ● NYY71162		CRI85 ○ NYY71214 ○ NYY71210 ● NYY71213 ● NYY71212  CRI95 ○ NYY71264 ○ NYY71260 ● NYY71263 ● NYY71262	CRI85 ○ NYY71914 ○ NYY71910 ● NYY71913 ● NYY71912		
	 Medium	CRI85 ○ NYY71124 ○ NYY71120 ● NYY71123 ● NYY71122  CRI95 ○ NYY71174 ○ NYY71170 ● NYY71173 ● NYY71172		CRI85 ○ NYY71224 ○ NYY71220 ● NYY71223 ● NYY71222  CRI95 ○ NYY71274 ○ NYY71270 ● NYY71273 ● NYY71272	CRI85 ○ NYY71924 ○ NYY71920 ● NYY71923 ● NYY71922		

○5000K ○4000K ○3500K ●3000K ●2700K

Brightness level		60 type	100 type	150/100 type	150 type	200 type	250/200 type	550 type	L1200 type	
Cut-out										
Soft Light LED Round Type			CRI85 ○ NYY56058 ○ NYY56048 ○ NYY56008 ○ NYY56038  CRI95 ○ NYY56059 ○ NYY56049 ○ NYY56009 ○ NYY56039		CRI85 ○ NYY56158 ○ NYY56148 ○ NYY56108 ○ NYY56138  CRI95 ○ NYY56159 ○ NYY56149 ○ NYY56109 ○ NYY56139		CRI85 ○ NYY56258 ○ NYY56248 ○ NYY56208 ○ NYY56238  CRI95 ○ NYY56259 ○ NYY56249 ○ NYY56209 ○ NYY56239	CRI85 ○ NYY56558 ○ NYY56548 ○ NYY56508 ○ NYY56538  CRI95 ○ NYY56559 ○ NYY56549 ○ NYY56509 ○ NYY56539		
	Soft Light LED Line Type		Line Type							CRI83 ○ FOY5101051 ○ FOY5102051 ○ FOY5103051
	LED Glareless Wallwasher						CRI85 ○ NYY16316 ○ NYY16317 ○ NYY16318	CRI85 ○ NYY16326 ○ NYY16327 ○ NYY16328		
LED Glareless For Under Eaves				CRI85 ○ NYY16906 ○ NYY16907 ○ NYY16909		CRI85 ○ NYY16916 ○ NYY16917 ○ NYY16919	CRI85 ○ NYY16926 ○ NYY16927 ○ NYY16929			

# LED Glareless General Lighting Integrated packaged type



○ Cut-out  
φ100

## LED 150/100 type



Narrow

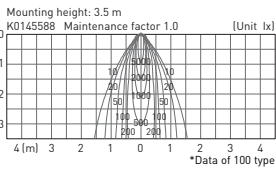


Medium



Wide

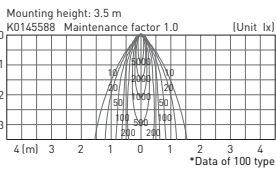
### ○ 4000K, CRI85



#### NY75114

150 type (730 lm, 15.5W, 47.0 lm/W)  
100 type (490 lm, 8.5W, 57.6 lm/W)

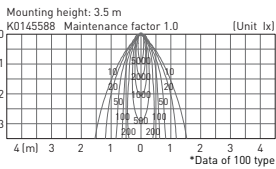
### ○ 3500K, CRI85



#### NY75110

150 type (715 lm, 15.5W, 46.1 lm/W)  
100 type (480 lm, 8.5W, 56.4 lm/W)

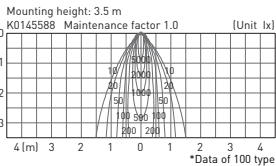
### ○ 3000K, CRI85



#### NY75113

150 type (700 lm, 15.5W, 45.1 lm/W)  
100 type (470 lm, 8.5W, 55.2 lm/W)

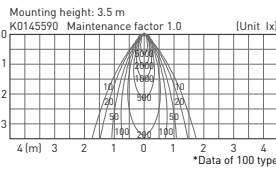
### ○ 2700K, CRI85



#### NY75112

150 type (665 lm, 15.5W, 42.9 lm/W)  
100 type (445 lm, 8.5W, 52.3 lm/W)

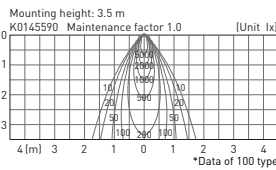
### ○ 4000K, CRI85



#### NY75124

150 type (840 lm, 15.5W, 54.1 lm/W)  
100 type (560 lm, 8.5W, 65.8 lm/W)

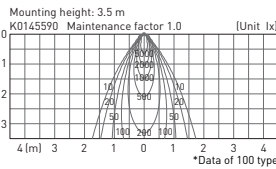
### ○ 3500K, CRI85



#### NY75120

150 type (825 lm, 15.5W, 53.2 lm/W)  
100 type (550 lm, 8.5W, 64.7 lm/W)

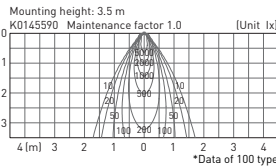
### ○ 3000K, CRI85



#### NY75123

150 type (805 lm, 15.5W, 51.9 lm/W)  
100 type (540 lm, 8.5W, 63.5 lm/W)

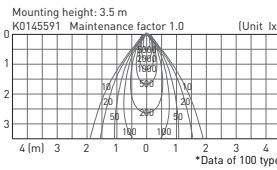
### ○ 2700K, CRI85



#### NY75122

150 type (765 lm, 15.5W, 49.3 lm/W)  
100 type (510 lm, 8.5W, 60.0 lm/W)

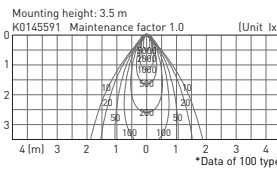
### ○ 4000K, CRI85



#### NY75134

150 type (795 lm, 15.5W, 51.2 lm/W)  
100 type (535 lm, 8.5W, 62.9 lm/W)

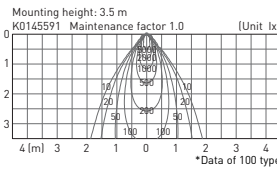
### ○ 3500K, CRI85



#### NY75130

150 type (780 lm, 15.5W, 50.3 lm/W)  
100 type (520 lm, 8.5W, 61.1 lm/W)

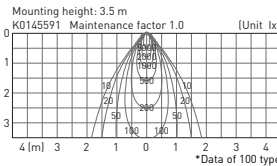
### ○ 3000K, CRI85



#### NY75133

150 type (765 lm, 15.5W, 49.3 lm/W)  
100 type (510 lm, 8.5W, 60.0 lm/W)

### ○ 2700K, CRI85

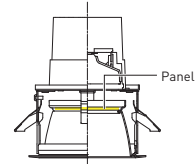


#### NY75132

150 type (725 lm, 15.5W, 46.7 lm/W)  
100 type (485 lm, 8.5W, 57.0 lm/W)

Structured so that interior of fixture and ceiling are not easily visible

A high-diffusion panel mounted on top of the reflecting panel makes it difficult to see the interior of the fixture.



Compatible power supply unit

Sold separately

For 150 type

Non-dimming

NTS90150 LE9



For 100 type

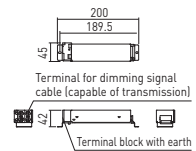
Non-dimming

NTS90100 LZ9



Common specifications

- AC 100-242V
- Weight: 0.3 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

NY92100



Spread sheet

NY91100



Note:

For "Narrow" and "Medium"

### Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 0.5 kg
- Compatible power supply unit
- For 150 type: NTS90150 LE9 (Sold separately)
- For 100 type: NTS90100 LZ9 (Sold separately)

### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.



High CRI LED

\*Please see P.37 for more information about High CRI LED.



Cut-off angle 100

LED 150/100 type



Narrow

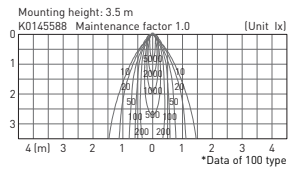


Medium



Wide

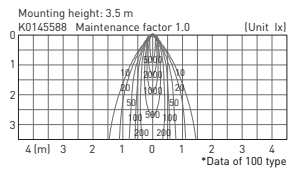
4000K, CRI95



**NY75164**

150 type (605 lm, 15.5W, 39.0 lm/W)  
100 type (405 lm, 8.5W, 47.6 lm/W)

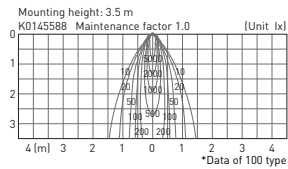
3500K, CRI95



**NY75160**

150 type (595 lm, 15.5W, 38.3 lm/W)  
100 type (400 lm, 8.5W, 47.0 lm/W)

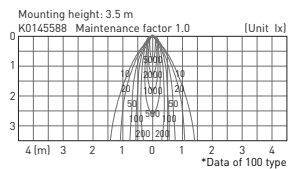
3000K, CRI95



**NY75163**

150 type (580 lm, 15.5W, 37.4 lm/W)  
100 type (390 lm, 8.5W, 45.8 lm/W)

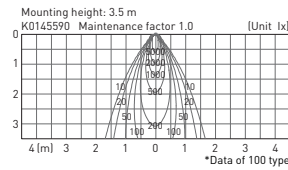
2700K, CRI95



**NY75162**

150 type (550 lm, 15.5W, 35.4 lm/W)  
100 type (370 lm, 8.5W, 43.5 lm/W)

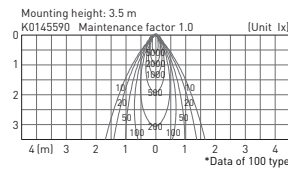
4000K, CRI95



**NY75174**

150 type (700 lm, 15.5W, 45.1 lm/W)  
100 type (465 lm, 8.5W, 54.7 lm/W)

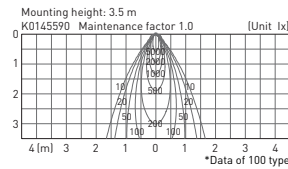
3500K, CRI95



**NY75170**

150 type (685 lm, 15.5W, 44.1 lm/W)  
100 type (460 lm, 8.5W, 54.1 lm/W)

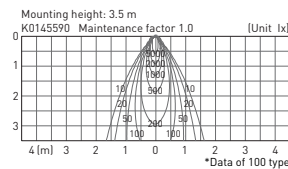
3000K, CRI95



**NY75173**

150 type (670 lm, 15.5W, 43.2 lm/W)  
100 type (445 lm, 8.5W, 52.3 lm/W)

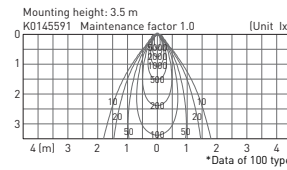
2700K, CRI95



**NY75172**

150 type (635 lm, 15.5W, 40.9 lm/W)  
100 type (425 lm, 8.5W, 50.0 lm/W)

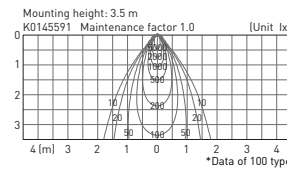
4000K, CRI95



**NY75184**

150 type (660 lm, 15.5W, 42.5 lm/W)  
100 type (440 lm, 8.5W, 51.7 lm/W)

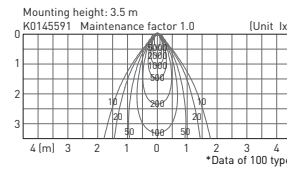
3500K, CRI95



**NY75180**

150 type (650 lm, 15.5W, 41.9 lm/W)  
100 type (435 lm, 8.5W, 51.1 lm/W)

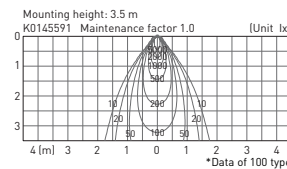
3000K, CRI95



**NY75183**

150 type (635 lm, 15.5W, 40.9 lm/W)  
100 type (425 lm, 8.5W, 50.0 lm/W)

2700K, CRI95



**NY75182**

150 type (600 lm, 15.5W, 38.7 lm/W)  
100 type (400 lm, 8.5W, 47.0 lm/W)

Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 0.5 kg
- Compatible power supply unit
- For 150 type: NTS90150 LE9 [Sold separately]
- For 100 type: NTS90100 LZ9 [Sold separately]

Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.



Compatible power supply unit

Sold separately

For 150 type

Non-dimming  
**NTS90150 LE9**



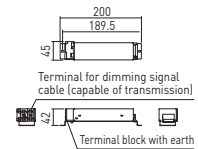
For 100 type

Non-dimming  
**NTS90100 LZ9**



Common specifications

- AC 100-242V
- Weight: 0.3 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

**NY92100**



Spread sheet

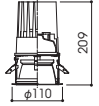
**NY91100**

Note:  
For "Narrow" and "Medium"



# LED Glareless General Lighting Integrated packaged type

Cut-out  
ø100



## LED 200 type



Narrow



Medium

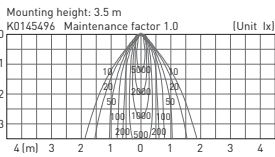


Wide



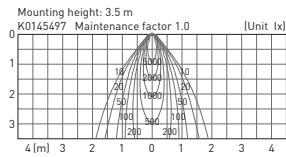
Wide spread

### ○ 4000K, CRI85



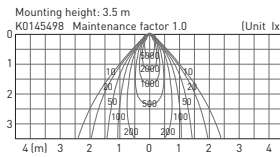
**NY75214**  
[905 lm, 27W, 33.5 lm/W]

### ○ 4000K, CRI85



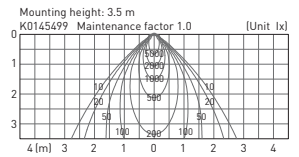
**NY75224**  
[860 lm, 27W, 31.8 lm/W]

### ○ 4000K, CRI85



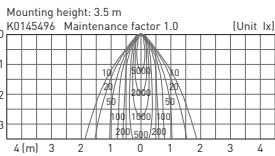
**NY75234**  
[1130 lm, 27W, 41.8 lm/W]

### ○ 4000K, CRI85



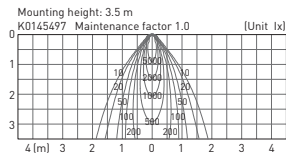
**NY75244**  
[1285 lm, 27W, 47.5 lm/W]

### ○ 3500K, CRI85



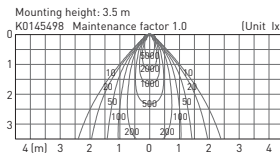
**NY75210**  
[890 lm, 27W, 32.9 lm/W]

### ○ 3500K, CRI85



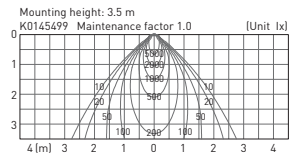
**NY75220**  
[845 lm, 27W, 31.2 lm/W]

### ○ 3500K, CRI85



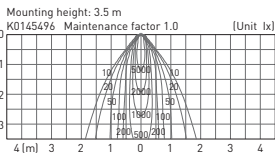
**NY75230**  
[1110 lm, 27W, 41.1 lm/W]

### ○ 3500K, CRI85



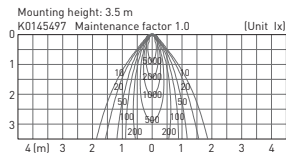
**NY75240**  
[1260 lm, 27W, 46.6 lm/W]

### ○ 3000K, CRI85



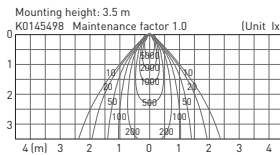
**NY75213**  
[870 lm, 27W, 32.2 lm/W]

### ○ 3000K, CRI85



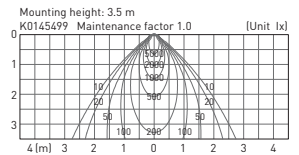
**NY75223**  
[825 lm, 27W, 30.5 lm/W]

### ○ 3000K, CRI85



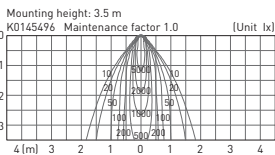
**NY75233**  
[1080 lm, 27W, 40.0 lm/W]

### ○ 3000K, CRI85



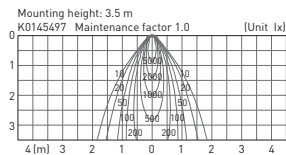
**NY75243**  
[1230 lm, 27W, 45.5 lm/W]

### ○ 2700K, CRI85



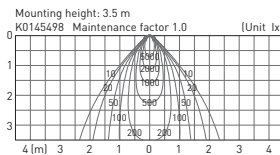
**NY75212**  
[825 lm, 27W, 30.5 lm/W]

### ○ 2700K, CRI85



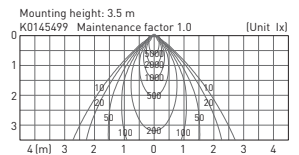
**NY75222**  
[785 lm, 27W, 29.0 lm/W]

### ○ 2700K, CRI85



**NY75232**  
[1030 lm, 27W, 38.1 lm/W]

### ○ 2700K, CRI85



**NY75242**  
[1170 lm, 27W, 43.3 lm/W]

#### Common specifications

- Built-in LED • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.1 kg • Compatible power supply unit: NTS90250 LE9 (Sold separately)

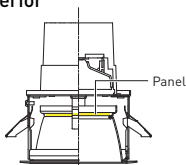
#### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.

Cut-off  
angle  
30

Structured so that interior of fixture and ceiling are not easily visible

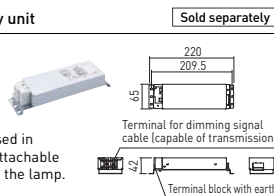
A high-diffusion panel mounted on top of the reflecting panel makes it difficult to see the interior of the fixture.



#### Compatible power supply unit

Non-dimming  
**NTS90250 LE9**

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



#### Options

##### Diffusion sheet

**NY92100**

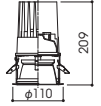
##### Spread sheet

**NY91100**

Note:  
For "Narrow"  
and "Medium"

High CRI LED

\*Please see P.37 for more information about High CRI LED.



Cut-off  
ø100

LED 200 type



Narrow



Medium

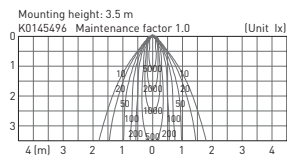


Wide



Wide spread

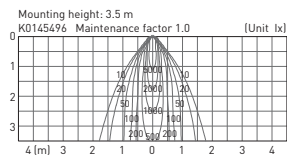
○ 4000K, CRI95



**NYY75264**

[755 lm, 27W, 27.9 lm/W]

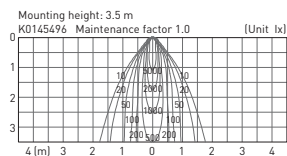
○ 3500K, CRI95



**NYY75260**

[740 lm, 27W, 27.4 lm/W]

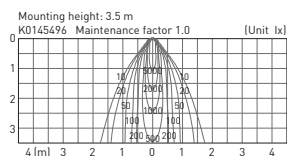
○ 3000K, CRI95



**NYY75263**

[720 lm, 27W, 26.6 lm/W]

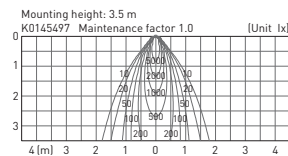
○ 2700K, CRI95



**NYY75262**

[685 lm, 27W, 25.3 lm/W]

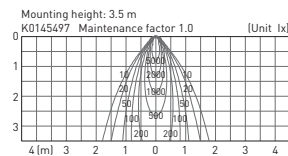
○ 4000K, CRI95



**NYY75274**

[715 lm, 27W, 26.4 lm/W]

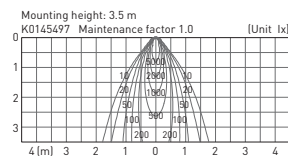
○ 3500K, CRI95



**NYY75270**

[700 lm, 27W, 25.9 lm/W]

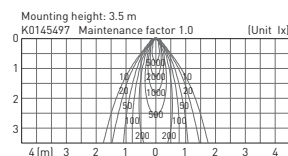
○ 3000K, CRI95



**NYY75273**

[685 lm, 27W, 25.3 lm/W]

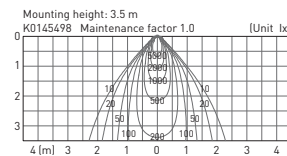
○ 2700K, CRI95



**NYY75272**

[650 lm, 27W, 24.0 lm/W]

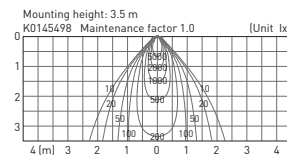
○ 4000K, CRI95



**NYY75284**

[940 lm, 27W, 34.8 lm/W]

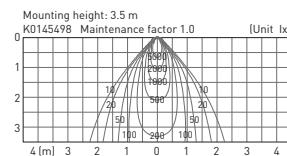
○ 3500K, CRI95



**NYY75280**

[920 lm, 27W, 34.0 lm/W]

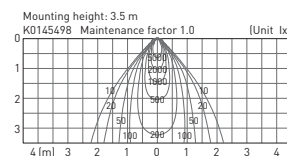
○ 3000K, CRI95



**NYY75283**

[900 lm, 27W, 33.3 lm/W]

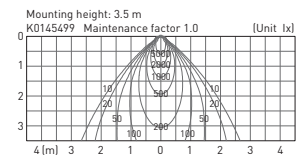
○ 2700K, CRI95



**NYY75282**

[855 lm, 27W, 31.6 lm/W]

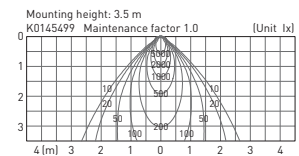
○ 4000K, CRI95



**NYY75294**

[1065 lm, 27W, 39.4 lm/W]

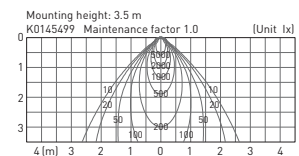
○ 3500K, CRI95



**NYY75290**

[1045 lm, 27W, 38.7 lm/W]

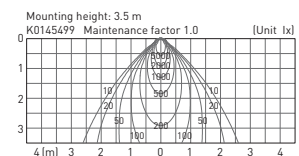
○ 3000K, CRI95



**NYY75293**

[1020 lm, 27W, 37.7 lm/W]

○ 2700K, CRI95



**NYY75292**

[970 lm, 27W, 35.9 lm/W]

Common specifications

- Built-in LED • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.1 kg • Compatible power supply unit: NTS90250 LE9 (Sold separately)

Note:

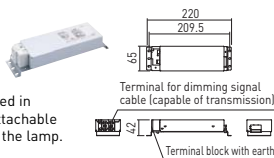
- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.



Compatible power supply unit

Non-dimming  
**NTS90250 LE9**

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Sold separately

Options

Diffusion sheet  
**NYY92100**



Spread sheet

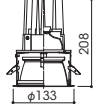
**NYY91100**

Note:  
For "Narrow"  
and "Medium"



Sold separately

# LED Glareless General Lighting Integrated packaged type



○ Cut-off angle 125

## LED 250/200 type



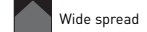
Narrow



Medium

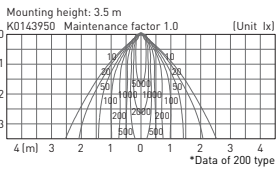


Wide



Wide spread

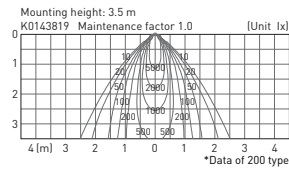
### ○ 4000K, CRI85



#### NYY75914

250 type [2265 lm, 35W, 64.7 lm/W]  
200 type [1720 lm, 27W, 63.7 lm/W]

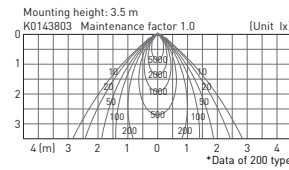
### ○ 4000K, CRI85



#### NYY75924

250 type [2450 lm, 35W, 70.0 lm/W]  
200 type [1885 lm, 27W, 69.8 lm/W]

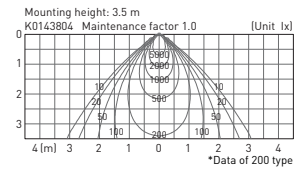
### ○ 4000K, CRI85



#### NYY75934

250 type [2595 lm, 35W, 74.1 lm/W]  
200 type [1915 lm, 27W, 70.9 lm/W]

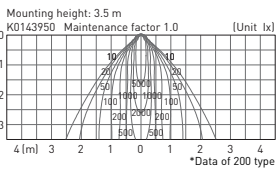
### ○ 4000K, CRI85



#### NYY75944

250 type [2590 lm, 35W, 74.0 lm/W]  
200 type [1930 lm, 27W, 71.4 lm/W]

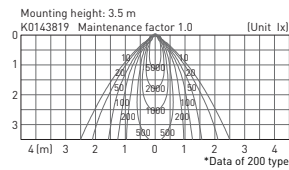
### ○ 3500K, CRI85



#### NYY75910

250 type [2220 lm, 35W, 63.4 lm/W]  
200 type [1685 lm, 27W, 62.4 lm/W]

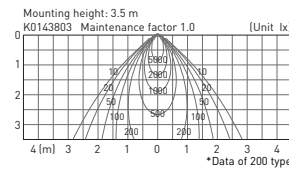
### ○ 3500K, CRI85



#### NYY75920

250 type [2400 lm, 35W, 68.5 lm/W]  
200 type [1850 lm, 27W, 68.5 lm/W]

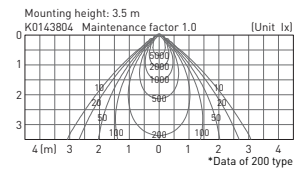
### ○ 3500K, CRI85



#### NYY75930

250 type [2545 lm, 35W, 72.7 lm/W]  
200 type [1875 lm, 27W, 69.4 lm/W]

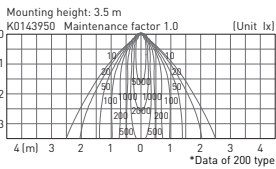
### ○ 3500K, CRI85



#### NYY75940

250 type [2540 lm, 35W, 72.5 lm/W]  
200 type [1890 lm, 27W, 70.0 lm/W]

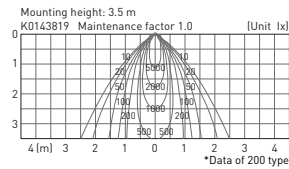
### ○ 3000K, CRI85



#### NYY75913

250 type [2165 lm, 35W, 61.8 lm/W]  
200 type [1645 lm, 27W, 60.9 lm/W]

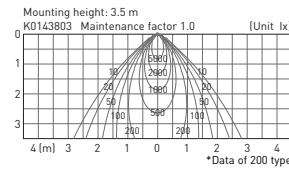
### ○ 3000K, CRI85



#### NYY75923

250 type [2345 lm, 35W, 67.0 lm/W]  
200 type [1805 lm, 27W, 66.8 lm/W]

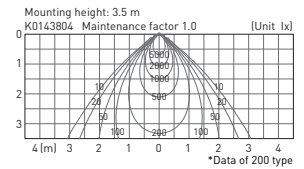
### ○ 3000K, CRI85



#### NYY75933

250 type [2485 lm, 35W, 71.0 lm/W]  
200 type [1830 lm, 27W, 67.7 lm/W]

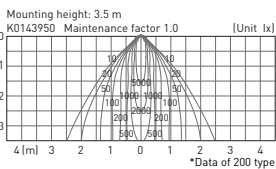
### ○ 3000K, CRI85



#### NYY75943

250 type [2480 lm, 35W, 70.8 lm/W]  
200 type [1845 lm, 27W, 68.3 lm/W]

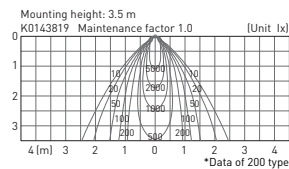
### ○ 2700K, CRI85



#### NYY75912

250 type [2060 lm, 35W, 58.8 lm/W]  
200 type [1565 lm, 27W, 57.9 lm/W]

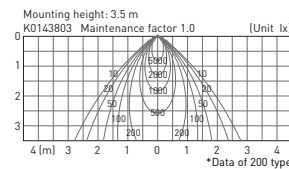
### ○ 2700K, CRI85



#### NYY75922

250 type [2225 lm, 35W, 63.5 lm/W]  
200 type [1715 lm, 27W, 63.5 lm/W]

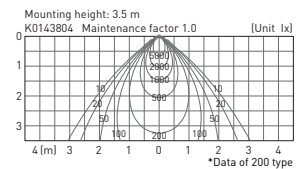
### ○ 2700K, CRI85



#### NYY75932

250 type [2360 lm, 35W, 67.4 lm/W]  
200 type [1740 lm, 27W, 64.4 lm/W]

### ○ 2700K, CRI85



#### NYY75942

250 type [2355 lm, 35W, 67.2 lm/W]  
200 type [1755 lm, 27W, 65.0 lm/W]

### Common specifications

- Built-in LED
- Lifetime: 40,000h [Luminous flux maintenance rate 70%]
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.1 kg
- Compatible power supply unit:  
For 250 type: NTS90350 LE9 (Sold separately)  
For 200 type: NTS90250 LE9 (Sold separately)

### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.

Cut-off angle 30

**Compatible power supply unit**

Sold separately

**For 250 type**

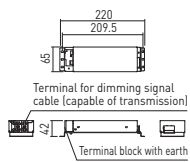
Non-dimming

**NTS90350 LE9****For 200 type**

Non-dimming

**NTS90250 LE9****Common specifications**

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.

**Options**

Sold separately

**Diffusion sheet****NYY92125****Spread sheet****NYY91125**

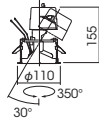
Note:  
For "Narrow" and "Medium"





# LED Glareless Adjustable Down Light Integrated packaged type

Cut-off angle 100



## LED 100/60 type

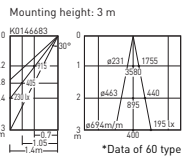


Narrow



Medium

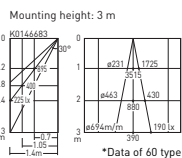
### 4000K, CRI85



### NY71114

100 type (430 lm, 15.5W, 27.7 lm/W)  
60 type (280 lm, 8.5W, 32.9 lm/W)

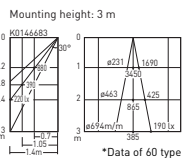
### 3500K, CRI85



### NY71110

100 type (420 lm, 15.5W, 27.0 lm/W)  
60 type (275 lm, 8.5W, 32.3 lm/W)

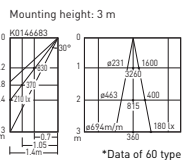
### 3000K, CRI85



### NY71113

100 type (410 lm, 15.5W, 26.4 lm/W)  
60 type (270 lm, 8.5W, 31.7 lm/W)

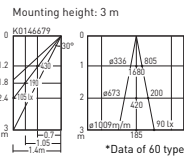
### 2700K, CRI85



### NY71112

100 type (390 lm, 15.5W, 25.1 lm/W)  
60 type (255 lm, 8.5W, 30.0 lm/W)

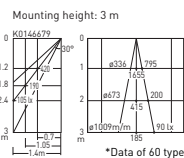
### 4000K, CRI85



### NY71124

100 type (485 lm, 15.5W, 31.2 lm/W)  
60 type (305 lm, 8.5W, 35.8 lm/W)

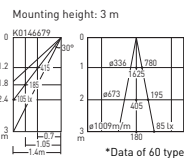
### 3500K, CRI85



### NY71120

100 type (475 lm, 15.5W, 30.6 lm/W)  
60 type (300 lm, 8.5W, 35.2 lm/W)

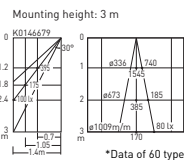
### 3000K, CRI85



### NY71123

100 type (465 lm, 15.5W, 30.0 lm/W)  
60 type (295 lm, 8.5W, 34.7 lm/W)

### 2700K, CRI85



### NY71122

100 type (440 lm, 15.5W, 28.3 lm/W)  
60 type (280 lm, 8.5W, 32.9 lm/W)

### Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 0.5 kg
- Compatible power supply unit:  
For 100 type: NTS90150 LE9 (Sold separately)  
For 60 type: NTS90100 LZ9 (Sold separately)

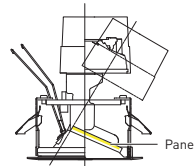
### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.

30  
Cut-off angle

Structured so that interior of fixture and ceiling are not easily visible

A high-diffusion panel mounted on top of the reflecting panel makes it difficult to see the interior of the fixture.



Compatible power supply unit

Sold separately

For 100 type

Non-dimming

NTS90150 LE9



For 60 type

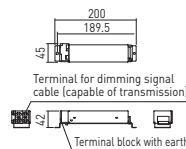
Non-dimming

NTS90100 LZ9



### Common specifications

- AC 100-242V
- Weight: 0.3 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

NY92100



Spread sheet

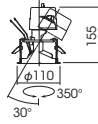
NY91100



High CRI LED

\*Please see P.37 for more information about High CRI LED.

Cut-off angle 100



LED 100/60 type

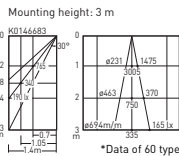


Narrow



Medium

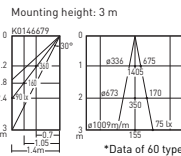
○ 4000K, CRI95



**NYY71164**

100 type [355 lm, 15.5W, 22.9 lm/W]  
60 type [235 lm, 8.5W, 27.6 lm/W]

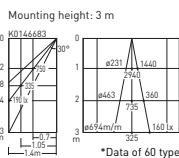
○ 4000K, CRI95



**NYY71174**

100 type [400 lm, 15.5W, 25.8 lm/W]  
60 type [255 lm, 8.5W, 30.0 lm/W]

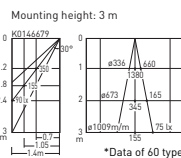
○ 3500K, CRI95



**NYY71160**

100 type [350 lm, 15.5W, 22.5 lm/W]  
60 type [230 lm, 8.5W, 27.0 lm/W]

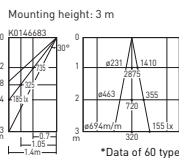
○ 3500K, CRI95



**NYY71170**

100 type [395 lm, 15.5W, 25.4 lm/W]  
60 type [250 lm, 8.5W, 29.4 lm/W]

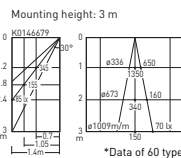
○ 3000K, CRI95



**NYY71163**

100 type [340 lm, 15.5W, 21.9 lm/W]  
60 type [225 lm, 8.5W, 26.4 lm/W]

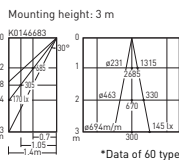
○ 3000K, CRI95



**NYY71173**

100 type [385 lm, 15.5W, 24.8 lm/W]  
60 type [245 lm, 8.5W, 28.8 lm/W]

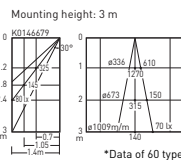
○ 2700K, CRI95



**NYY71162**

100 type [325 lm, 15.5W, 20.9 lm/W]  
60 type [210 lm, 8.5W, 24.7 lm/W]

○ 2700K, CRI95



**NYY71172**

100 type [365 lm, 15.5W, 23.5 lm/W]  
60 type [230 lm, 8.5W, 27.0 lm/W]

Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 0.5 kg
- Compatible power supply unit:  
For 100 type: NTS90150 LE9 (Sold separately)  
For 60 type: NTS90100 LZ9 (Sold separately)

Cut-off angle 30

Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.

Compatible power supply unit

Sold separately

For 100 type

Non-dimming  
**NTS90150 LE9**



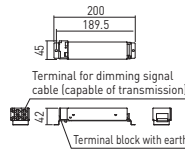
For 60 type

Non-dimming  
**NTS90100 LZ9**



Common specifications

- AC 100-242V
- Weight: 0.3 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

**NY92100**



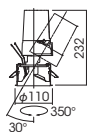
Spread sheet

**NY991100**



# LED Glareless Adjustable Down Light Integrated packaged type

Cut-out  
ø100



## LED 150 type



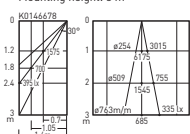
Narrow



Medium

### ○ 4000K, CRI85

Mounting height: 3 m

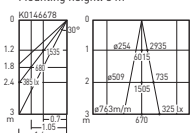


### NYY71214

(580 lm, 27W, 21.4 lm/W)

### ○ 3500K, CRI85

Mounting height: 3 m

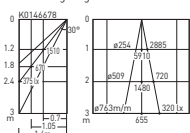


### NYY71210

(565 lm, 27W, 20.9 lm/W)

### ○ 3000K, CRI85

Mounting height: 3 m

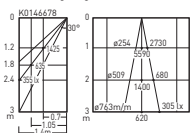


### NYY71213

(555 lm, 27W, 20.5 lm/W)

### ○ 2700K, CRI85

Mounting height: 3 m

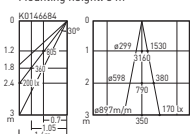


### NYY71212

(525 lm, 27W, 19.4 lm/W)

### ○ 4000K, CRI85

Mounting height: 3 m

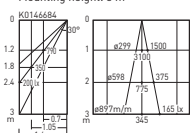


### NYY71224

(525 lm, 27W, 19.4 lm/W)

### ○ 3500K, CRI85

Mounting height: 3 m

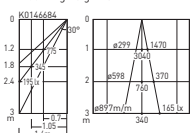


### NYY71220

(515 lm, 27W, 19.0 lm/W)

### ○ 3000K, CRI85

Mounting height: 3 m

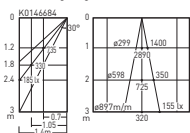


### NYY71223

(505 lm, 27W, 18.7 lm/W)

### ○ 2700K, CRI85

Mounting height: 3 m



### NYY71222

(480 lm, 27W, 17.7 lm/W)

#### Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.1 kg
- Compatible power supply unit: NTS90250 LE9 (Sold separately)

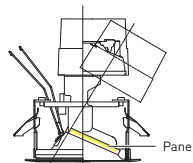
#### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.



Structured so that interior of fixture and ceiling are not easily visible

A high-diffusion panel mounted on top of the reflecting panel makes it difficult to see the interior of the fixture.



Compatible power supply unit

Sold separately

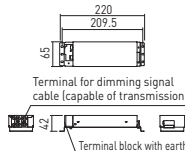
Non-dimming

NTS90250 LE9



#### Common specifications

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

NYY92125



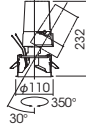
Spread sheet

NYY91125



High CRI LED

\*Please see P.37 for more information about High CRI LED.



Cut-off angle 100

LED 150 type



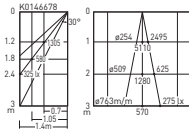
Narrow



Medium

○ 4000K, CRI95

Mounting height: 3 m

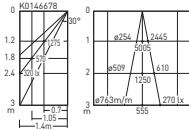


**NYY71264**

(480 lm, 27W, 17.7 lm/W)

○ 3500K, CRI95

Mounting height: 3 m

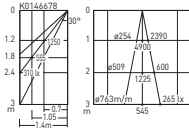


**NYY71260**

(470 lm, 27W, 17.4 lm/W)

● 3000K, CRI95

Mounting height: 3 m

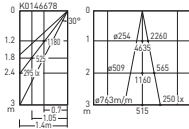


**NYY71263**

(460 lm, 27W, 17.0 lm/W)

● 2700K, CRI95

Mounting height: 3 m

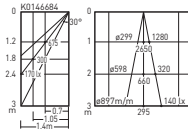


**NYY71262**

(435 lm, 27W, 16.1 lm/W)

○ 4000K, CRI95

Mounting height: 3 m

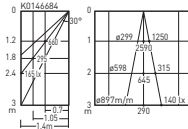


**NYY71274**

(440 lm, 27W, 16.2 lm/W)

○ 3500K, CRI95

Mounting height: 3 m

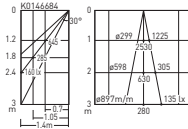


**NYY71270**

(430 lm, 27W, 15.9 lm/W)

● 3000K, CRI95

Mounting height: 3 m

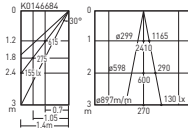


**NYY71273**

(420 lm, 27W, 15.5 lm/W)

● 2700K, CRI95

Mounting height: 3 m



**NYY71272**

(400 lm, 27W, 14.8 lm/W)

Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.1 kg
- Compatible power supply unit: NTS90250 LE9 (Sold separately)

Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.



Compatible power supply unit

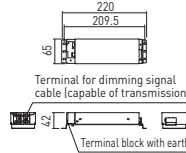
Sold separately

Non-dimming  
**NTS90250 LE9**



Common specifications

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Option

Sold separately

Diffusion sheet

**NYY92125**

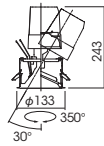


Spread sheet

**NYY91125**



# LED Glareless Adjustable Down Light Integrated packaged type



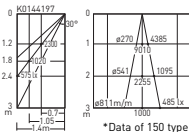
○ Cut-out  
ø125

## LED 200/150 type



### ○ 4000K, CRI85

Mounting height: 3 m

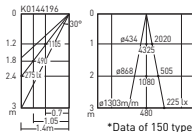


### NY Y71914

200 type (1350 lm, 35W, 38.5 lm/W)  
150 type (1015 lm, 27W, 37.5 lm/W)

### ○ 4000K, CRI85

Mounting height: 3 m

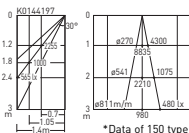


### NY Y71924

200 type (1400 lm, 35W, 40.0 lm/W)  
150 type (1015 lm, 27W, 37.5 lm/W)

### ○ 3500K, CRI85

Mounting height: 3 m

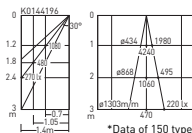


### NY Y71910

200 type (1325 lm, 35W, 37.8 lm/W)  
150 type (995 lm, 27W, 36.8 lm/W)

### ○ 3500K, CRI85

Mounting height: 3 m

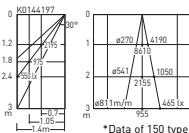


### NY Y71920

200 type (1370 lm, 35W, 39.1 lm/W)  
150 type (995 lm, 27W, 36.8 lm/W)

### ○ 3000K, CRI85

Mounting height: 3 m

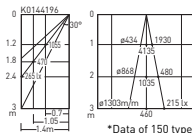


### NY Y71913

200 type (1290 lm, 35W, 36.8 lm/W)  
150 type (970 lm, 27W, 35.9 lm/W)

### ○ 3000K, CRI85

Mounting height: 3 m

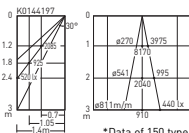


### NY Y71923

200 type (1340 lm, 35W, 38.2 lm/W)  
150 type (970 lm, 27W, 35.9 lm/W)

### ○ 2700K, CRI85

Mounting height: 3 m

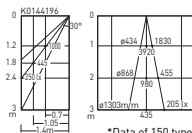


### NY Y71912

200 type (1230 lm, 35W, 35.1 lm/W)  
150 type (920 lm, 27W, 34.0 lm/W)

### ○ 2700K, CRI85

Mounting height: 3 m



### NY Y71922

200 type (1270 lm, 35W, 36.2 lm/W)  
150 type (920 lm, 27W, 34.0 lm/W)

### Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, aluminum-deposition mirrored surface
- Frame: Aluminum die-casting, White matte finish
- Weight: 1.2 kg
- Compatible power supply unit:  
For 200 type: NTS90350 LE9 (Sold separately)  
For 150 type: NTS90250 LE9 (Sold separately)



### Note:

- Please make sure to use in combination with compatible power supply unit.
- Minimum allowable distance directly below fixture: 30 cm
- Does not have thermal insulation specifications.

Compatible power supply unit

Sold separately

For 200 type

Non-dimming

NTS90350 LE9



For 150 type

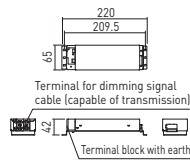
Non-dimming

NTS90250 LE9



### Common specifications

- AC 100-242V
- Weight: 0.4 kg
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.



Options

Sold separately

Diffusion sheet

NY Y92125



Spread sheet

NY Y91125



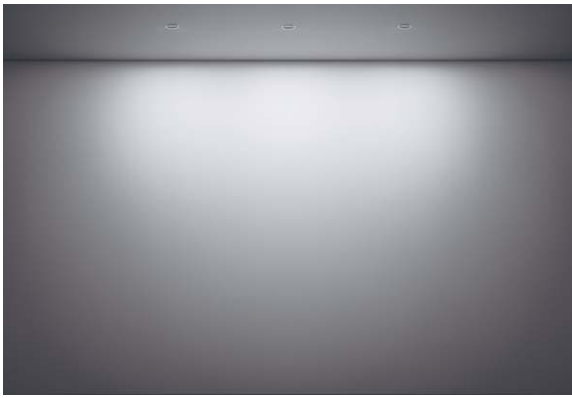
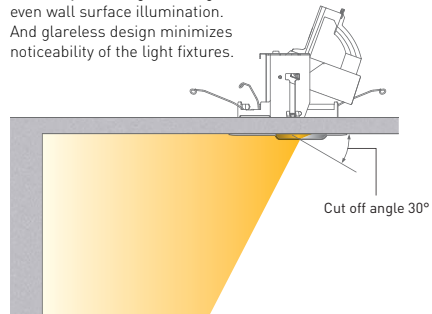
# LED Glareless Wallwasher Integrated packaged type

Glareless, plus vertical and horizontal evenness of light on wall surface is greatly improved. Makes wall appear brighter.



### Highly even wall surface illumination

Supplementary reflector casts light as far as vicinity of ceiling, enabling beautiful, even wall surface illumination. And glareless design minimizes noticeability of the light fixtures.



1200 mm pitch

\*Distance from wall: 900 mm



900 mm pitch

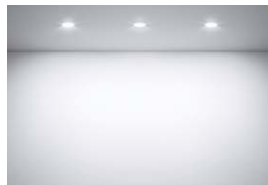


1500 mm pitch

### Reduced glare compared to conventional wallwasher



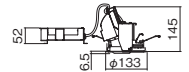
Glareless type



Conventional wallwasher

Built-in power supply unit

Cut-out  
ø125

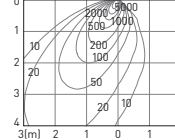


### LED 200 type

Wall-washer

#### ○ 4000K, CRI85

K0127225 Maintenance factor 1.0 [Unit lx]

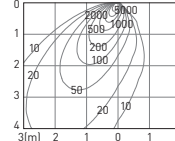


#### **NY16326**

(535 lm, 19.9W, 26.9 lm/W)

#### ○ 3500K, CRI85

K0127225 Maintenance factor 1.0 [Unit lx]

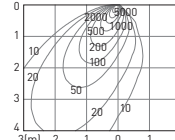


#### **NY16327**

(510 lm, 19.9W, 25.6 lm/W)

#### ○ 3000K, CRI85

K0127225 Maintenance factor 1.0 [Unit lx]



#### **NY16328**

(485 lm, 19.9W, 24.4 lm/W)

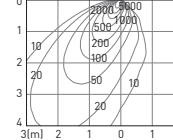
• 5000K Available (CRI70)

### LED 150 type

Wall-washer

#### ○ 4000K, CRI85

K0127226 Maintenance factor 1.0 [Unit lx]

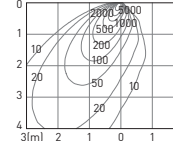


#### **NY16316**

(475 lm, 16.5W, 28.8 lm/W)

#### ○ 3500K, CRI85

K0127226 Maintenance factor 1.0 [Unit lx]

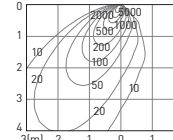


#### **NY16317**

(460 lm, 16.5W, 27.9 lm/W)

#### ○ 3000K, CRI85

K0127226 Maintenance factor 1.0 [Unit lx]



#### **NY16318**

(435 lm, 16.5W, 26.4 lm/W)

• 5000K Available (CRI70)

### Common specifications

- Built-in LED, Built-in power supply unit • AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Plastic, aluminum-deposition mirrored surface
- Frame : Aluminum, Cool white matte finish
- Panel: Plastic • Weight: 0.9 kg

### Note:

- Minimum allowable distance directly below fixture: 10 cm
- Does not have thermal insulation specifications.

\*When pointed toward wall surface



# LED Glareless For Under Eaves Integrated packaged type

Achieves a design similar to that of indoor lighting by positioning a waterproof glass panel atop a reflective panel.

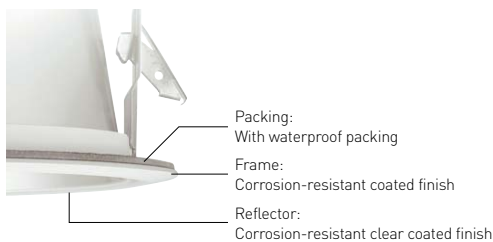


Nagoya Prime Central Tower

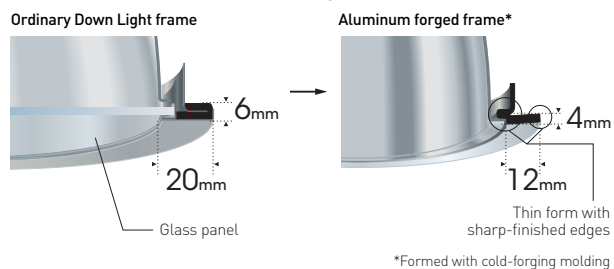
\*Photo shows case example of Glareless Down Lights installed. (Conventional light source in use as well)



**Ensures rust prevention and waterproofing resistant to wind and rain, required for lighting under eaves**



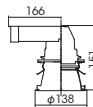
**Features an ultra-thin molding frame that blends smoothly into the ceiling surface**



**Employs a dedicated power source suitable for spaces under eaves, where temperature difference with the outside air can cause condensation**

Built-in power supply unit

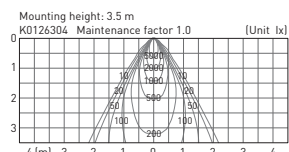
Cut-off angle  
ø125



**LED 200 type**

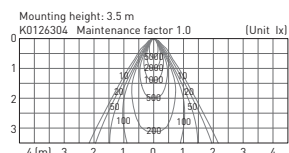


○ 4000K, CRI85



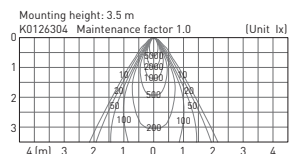
**NY116926 LE9**  
(940 lm, 19.9W, 47.2 lm/W)

○ 3500K, CRI85



**NY116927 LE9**  
(895 lm, 19.9W, 45.0 lm/W)

● 3000K, CRI85



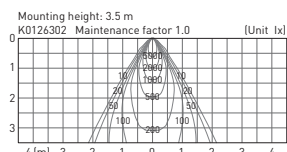
**NY116929 LE9**  
(855 lm, 19.9W, 43.0 lm/W)

• 5000K Available (CRI70)

**LED 150 type**

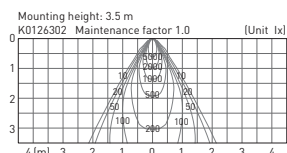


○ 4000K, CRI85



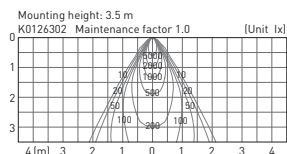
**NY116916 LE9**  
(870 lm, 16.5W, 52.7 lm/W)

○ 3500K, CRI85



**NY116917 LE9**  
(840 lm, 16.5W, 50.9 lm/W)

● 3000K, CRI85



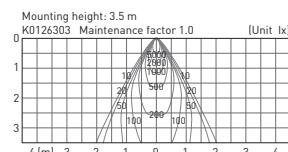
**NY116919 LE9**  
(800 lm, 16.5W, 48.5 lm/W)

• 5000K Available (CRI70)

**LED 100 type**

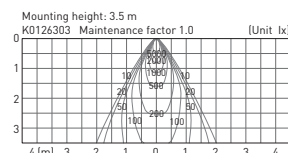


○ 4000K, CRI85



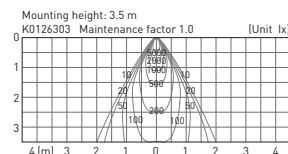
**NY116906 LE9**  
(585 lm, 11.1W, 52.7 lm/W)

○ 3500K, CRI85



**NY116907 LE9**  
(565 lm, 11.1W, 50.9 lm/W)

● 3000K, CRI85



**NY116909 LE9**  
(540 lm, 11.1W, 48.6 lm/W)

• 5000K Available (CRI70)

**Common specifications**

- Built-in LED, Built-in power supply unit
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Reflector: Aluminum, Silver mirrored surface
- Frame: Aluminum, Cool white matte finish
- Panel: Glass, transparent matte
- Weight: 1.0 kg

**Note:**

- Minimum allowable distance directly below fixture: 10 cm
- Does not have thermal insulation specifications.

Rain-resistant type







Matsushita Memorial Library

Soft Light

# LED Round Type

Reflective curve designed based on scientific evaluation of people's natural perceptions of luminance gradation. (Graded Reflector)  
 Both fixture's noticeability and glare are reduced so as to let light itself take center stage. (Soft Light Trim)

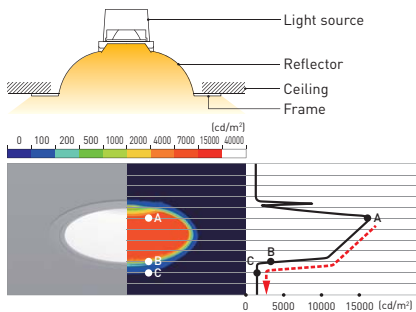


Real CG simulation

## ■ Luminance comparison with standard white reflector

### Standard white reflector

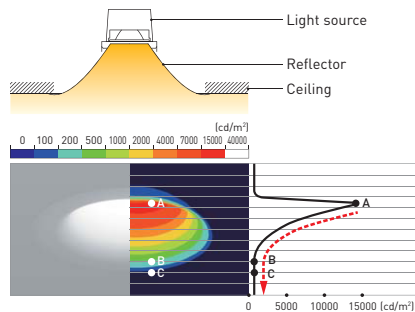
Luminance of reflector is increased, causing visible discrepancy between light fixture and ceiling surface



The sudden spike in the line graph (right) extrapolated from the luminance distribution map (left) indicates the stark luminance discrepancy with the ceiling.

### Soft light

Smooth luminance gradation from top of reflector to ceiling

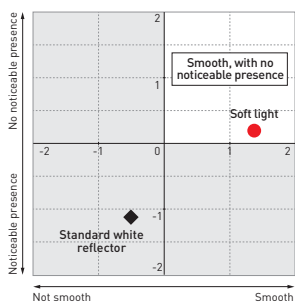


The smooth luminance gradation (left) and the swelling curve of the line graph coordinated with it (right) indicate the unobtrusive presence of the fixture.

## ■ Results of subjective evaluation experiment by Panasonic

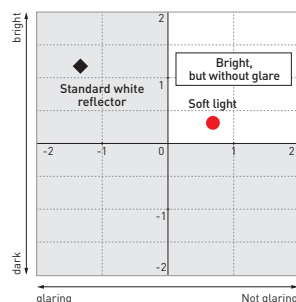
### Reciprocal relationship between smoothness and noticeability

Soft light was perceived as being smooth and the fixture unnoticeable, blending into architectural environment.



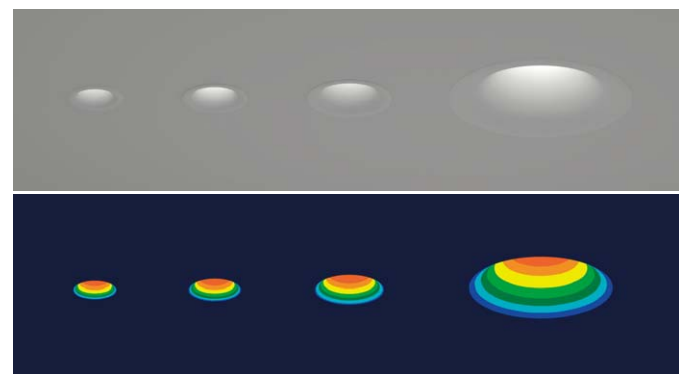
### Reciprocal relationship between glare and perceived brightness

Soft light is perceived as bright, but without glare, making it ideal for environments with a gentle atmosphere.



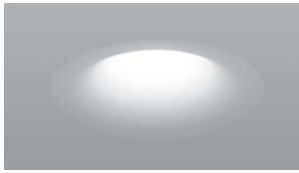
## ■ Luminance of integrated reflector

Average luminance is set at same level even if light source power level differs, meaning there is no noticeable difference when used in the same space.

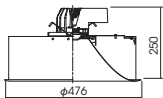


Simulation of luminance distribution

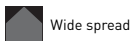
# LED Round Type General Lighting



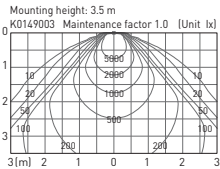
○ Cut-off  
ø450



## LED 550 type



○ 5000K, CRI85

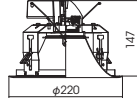


### NY56558

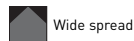
[5440 lm, 49.9W, 109.0 lm/W]  
• Weight: 4.1 kg



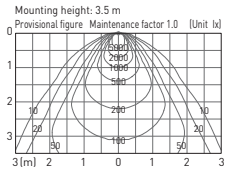
○ Cut-off  
ø200



## LED 250/200 type



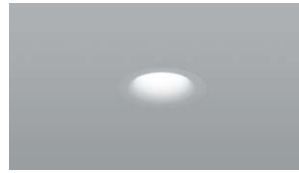
○ 5000K, CRI85



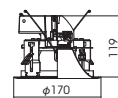
### NY56258

250 type [1735 lm, 20.1W, 86.3 lm/W]  
200 type [1430 lm, 15.9W, 89.9 lm/W]  
• Weight: 0.8 kg

\*Data of 200 type



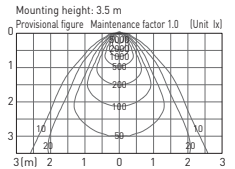
○ Cut-off  
ø150



## LED 150/100 type



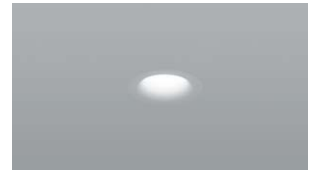
○ 5000K, CRI85



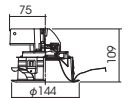
### NY56158

150 type [1065 lm, 13W, 81.9 lm/W]  
100 type [660 lm, 7.7W, 85.7 lm/W]  
• Weight: 0.7 kg

\*Data of 100 type



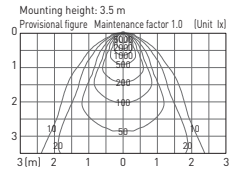
○ Cut-off  
ø125



## LED 60 type



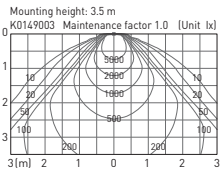
○ 5000K, CRI85



### NY56058

[570 lm, 6.3W, 90.4 lm/W]  
• Weight: 0.7 kg

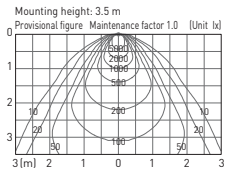
○ 4000K, CRI85



### NY56548

[5355 lm, 49.9W, 107.2 lm/W]  
• Weight: 4.1 kg

○ 4000K, CRI85

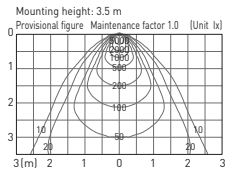


### NY56248

250 type [1730 lm, 20.1W, 86.0 lm/W]  
200 type [1425 lm, 15.9W, 89.6 lm/W]  
• Weight: 0.8 kg

\*Data of 200 type

○ 4000K, CRI85

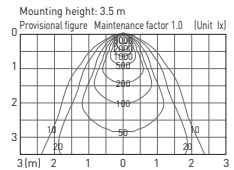


### NY56148

150 type [1060 lm, 13W, 81.5 lm/W]  
100 type [660 lm, 7.7W, 85.7 lm/W]  
• Weight: 0.7 kg

\*Data of 100 type

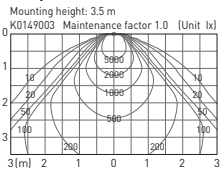
○ 4000K, CRI85



### NY56048

[565 lm, 6.3W, 89.6 lm/W]  
• Weight: 0.7 kg

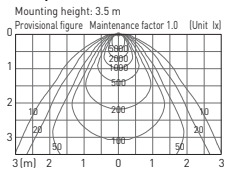
○ 3500K, CRI85



### NY56508

[5265 lm, 49.9W, 105.5 lm/W]  
• Weight: 4.1 kg

○ 3500K, CRI85

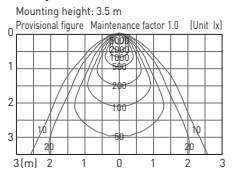


### NY56208

250 type [1695 lm, 20.1W, 84.3 lm/W]  
200 type [1400 lm, 15.9W, 88.0 lm/W]  
• Weight: 0.8 kg

\*Data of 200 type

○ 3500K, CRI85

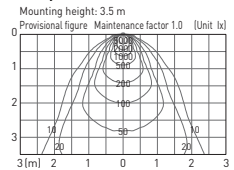


### NY56108

150 type [1035 lm, 13W, 79.6 lm/W]  
100 type [645 lm, 7.7W, 83.7 lm/W]  
• Weight: 0.7 kg

\*Data of 100 type

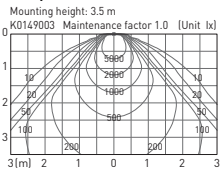
○ 3500K, CRI85



### NY56008

[555 lm, 6.3W, 88.0 lm/W]  
• Weight: 0.7 kg

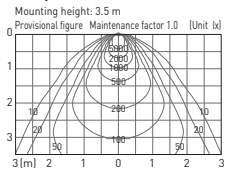
○ 3000K, CRI85



### NY56538

[5145 lm, 49.9W, 103.1 lm/W]  
• Weight: 4.1 kg

○ 3000K, CRI85

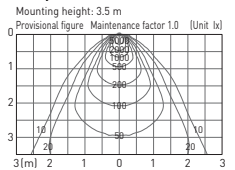


### NY56238

250 type [1665 lm, 20.1W, 82.8 lm/W]  
200 type [1375 lm, 15.9W, 86.4 lm/W]  
• Weight: 0.8 kg

\*Data of 200 type

○ 3000K, CRI85

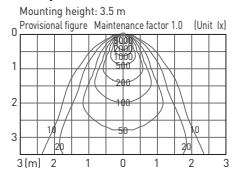


### NY56138

150 type [1020 lm, 13W, 78.4 lm/W]  
100 type [635 lm, 7.7W, 82.4 lm/W]  
• Weight: 0.7 kg

\*Data of 100 type

○ 3000K, CRI85



### NY56038

[545 lm, 6.3W, 86.5 lm/W]  
• Weight: 0.7 kg

#### Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)  
\*550 type: 60,000h (Luminous flux maintenance rate 80%)
- Reflector (Top): Plastic, White
- Reflector/ Frame: Aluminum, White matte finish

#### Note:

- Please make sure to use in combination with compatible power supply unit.
- \*Please see P.38 for more information about compatible power supply unit.
- Minimum distance directly below fixture: 10 cm
- Does not have thermal insulation specifications.

#### Compatible power supply unit

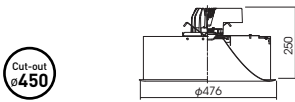
- 550 type: NTS90551 LZ9 (Sold separately)
- 250 type: NTS90200 LE9 (Sold separately)
- 200 type: NTS90150 LE9 (Sold separately)
- 150 type: NTS90151 LE9 (Sold separately)
- 100 type: NTS90101 LE9 (Sold separately)
- 60 type: NTS90060 LE9 (Sold separately)



## LED Round Type High CRI LED

High CRI LED

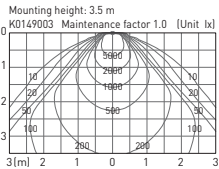
\*Please see P.37 for more information about High CRI LED.



## LED 550 type



## ○ 5000K, CRI95

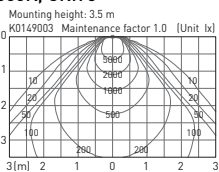


## NYY56559

(4435 lm, 49.9W, 89.9 lm/W)

• Weight: 4.1 kg

## ○ 4000K, CRI95

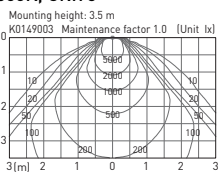


## NYY56549

(4435 lm, 49.9W, 88.8 lm/W)

• Weight: 4.1 kg

## ○ 3500K, CRI95

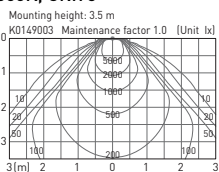


## NYY56509

(4350 lm, 49.9W, 87.1 lm/W)

• Weight: 4.1 kg

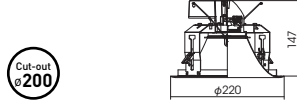
## ○ 3000K, CRI95



## NYY56539

(4245 lm, 49.9W, 85.0 lm/W)

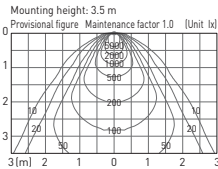
• Weight: 4.1 kg



## LED 250/200 type



## ○ 5000K, CRI95



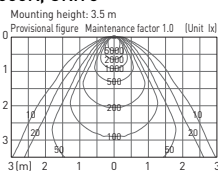
## NYY56259

250 type (1440 lm, 20.1W, 71.6 lm/W)

200 type (1185 lm, 15.9W, 74.5 lm/W)

• Weight: 0.8 kg

## ○ 4000K, CRI95



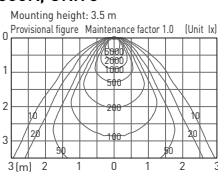
## NYY56249

250 type (1510 lm, 20.1W, 75.1 lm/W)

200 type (1245 lm, 15.9W, 78.3 lm/W)

• Weight: 0.8 kg

## ○ 3500K, CRI95



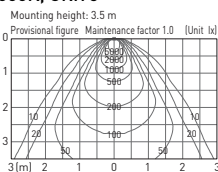
## NYY56209

250 type (1465 lm, 20.1W, 72.8 lm/W)

200 type (1205 lm, 15.9W, 75.7 lm/W)

• Weight: 0.8 kg

## ○ 3000K, CRI95

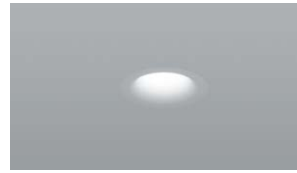


## NYY56239

250 type (1380 lm, 20.1W, 68.6 lm/W)

200 type (1135 lm, 15.9W, 71.3 lm/W)

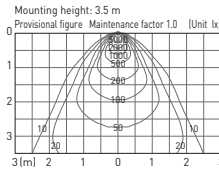
• Weight: 0.8 kg



## LED 150/100 type



## ○ 5000K, CRI95



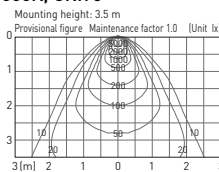
## NYY56159

150 type (880 lm, 13W, 67.6 lm/W)

100 type (550 lm, 7.7W, 71.4 lm/W)

• Weight: 0.7 kg

## ○ 4000K, CRI95



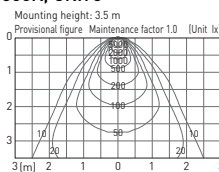
## NYY56149

150 type (925 lm, 13W, 71.1 lm/W)

100 type (575 lm, 7.7W, 74.6 lm/W)

• Weight: 0.7 kg

## ○ 3500K, CRI95



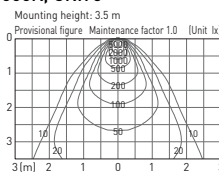
## NYY56109

150 type (890 lm, 13W, 68.4 lm/W)

100 type (555 lm, 7.7W, 72.0 lm/W)

• Weight: 0.7 kg

## ○ 3000K, CRI95

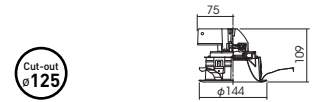
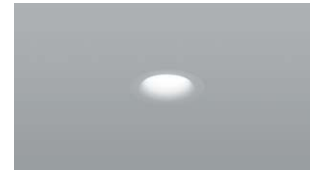


## NYY56139

150 type (845 lm, 13W, 65.0 lm/W)

100 type (525 lm, 7.7W, 68.1 lm/W)

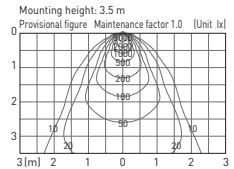
• Weight: 0.7 kg



## LED 60 type



## ○ 5000K, CRI95

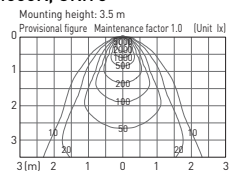


## NYY56059

(470 lm, 6.3W, 74.6 lm/W)

• Weight: 0.7 kg

## ○ 4000K, CRI95

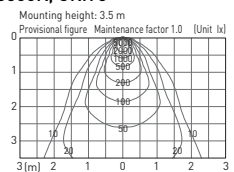


## NYY56049

(495 lm, 6.3W, 78.5 lm/W)

• Weight: 0.7 kg

## ○ 3500K, CRI95

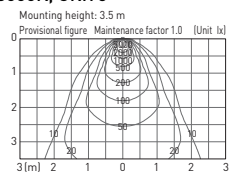


## NYY56009

(475 lm, 6.3W, 75.3 lm/W)

• Weight: 0.7 kg

## ○ 3000K, CRI95



## NYY56039

(455 lm, 6.3W, 72.2 lm/W)

• Weight: 0.7 kg

## Common specifications

- Built-in LED
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- 550 type: 60,000h (Luminous flux maintenance rate 80%)
- Reflector (Top): Plastic, White
- Reflector/ Frame: Aluminum, White matte finish

## Note:

- Please make sure to use in combination with compatible power supply unit.
- Please see P.38 for more information about compatible power supply unit.
- Minimum distance directly below fixture: 10 cm
- Does not have thermal insulation specifications.

## Compatible power supply unit

- 550 type: NTS90551 L29 (Sold separately)
- 250 type: NTS90200 LE9 (Sold separately)
- 200 type: NTS90150 LE9 (Sold separately)
- 150 type: NTS90151 LE9 (Sold separately)
- 100 type: NTS90101 LE9 (Sold separately)
- 60 type: NTS90060 LE9 (Sold separately)



# LED Round Type

Compatible power supply unit for General lighting/ High CRI LED

Sold separately

For 550 type

Non-dimming  
**NTS90551 LZ9**  
• Weight: 0.4 kg



For 250 type

Non-dimming  
**NTS90200 LE9**  
• Weight: 0.3 kg



For 200 type

Non-dimming  
**NTS90150 LE9**  
• Weight: 0.3 kg



For 150 type

Non-dimming  
**NTS90151 LE9**  
• Weight: 0.3 kg



For 100 type

Non-dimming  
**NTS90101 LE9**  
• Weight: 0.3 kg



For 60 type

Non-dimming  
**NTS90060 LE9**  
• Weight: 0.6 kg

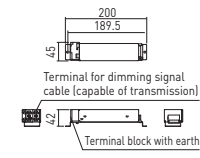
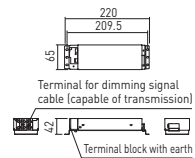


## Common specifications

- AC 100-242V
- In some cases, fixtures used in combination may not be attachable from the mounting side of the lamp. Please verify.

For 550 type

For 250/200/150/100/60 type



NTT WEST Training Institute / Main Building



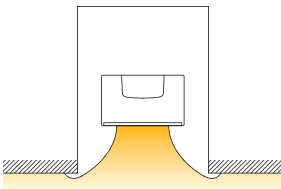
AISIN AW CO., LTD. Okazaki East Plant

# LED Line Type

Gives impression of natural light coming through slits in fixture integrated with the ceiling.

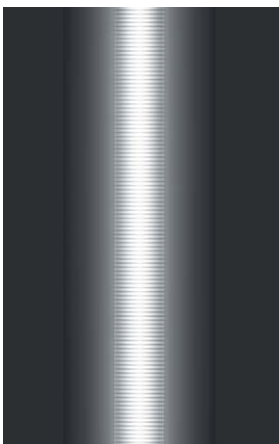
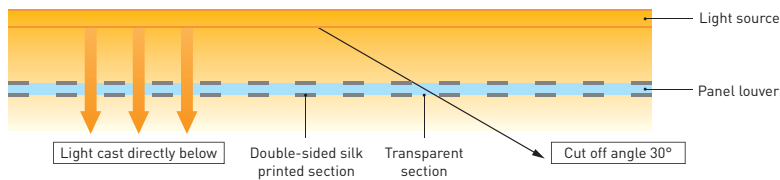


Real CG simulation



## Special panel louver used

Unpleasant 30° glare cut even when viewed vertically. While allowing light to pass through and illuminate directly below with no loss of efficiency, double-sided silk printing converts light cast at 30° angle to soft light as if seen through milk-white panels.



Light seen from directly beneath



Light seen from 30° angle

## Continuity of light emphasized

Lineup of fixtures for right side, middle, and left side. Link modules together to fit interior.



L1200 type

## LED (4000K)

### FOYY5101051

CRI83

(1780 lm, 31W, 57.4 lm/W)

- Modular light fixture:
  - FOYY5101151 (Left end of linked series)
  - FOYY5101251 (Middle of linked series)
  - FOYY5101351 (Right end of linked series)

## LED (3500K)

### FOYY5102051

CRI83

(1640 lm, 31W, 52.9 lm/W)

- Modular light fixture:
  - FOYY5102151 (Left end of linked series)
  - FOYY5102251 (Middle of linked series)
  - FOYY5102351 (Right end of linked series)

## LED (3000K)

### FOYY5103051

CRI83

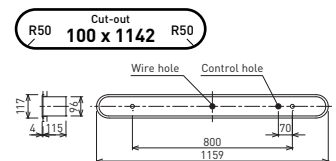
(1640 lm, 31W, 52.9 lm/W)

- Modular light fixture:
  - FOYY5103151 (Left end of linked series)
  - FOYY5103251 (Middle of linked series)
  - FOYY5103351 (Right end of linked series)

## 5000K Available

### Common specifications

- Built-in LED,
- Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Body: Zinc-steel
- Reflector/Frame: Aluminum, White matte finish
- Panel: Acrylic, Transparent matte, Silk printed
- Weight: single units 5.5 kg, Left end of linked series 5.5 kg, Middle of linked series 5.3 kg, Right end of linked series 5.5 kg
- For embedding in horizontal ceilings



### When link in series

R50 Cut-out (N linkage) 100 x (1106 x N + 36)

FOYY5101151	FOYY5101251	FOYY5101351
FOYY5102151	FOYY5102251	FOYY5102351
FOYY5103151	FOYY5103251	FOYY5103351
(Left end of linked series)	(Middle of linked series)	(Right end of linked series)



Photo is a simulated image.

Bracket



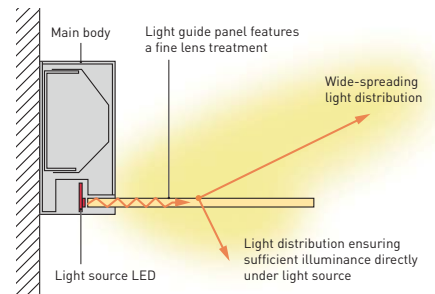
# Float Light LED Bracket Type

Bracket lighting that delivers both subjective brightness (Feu) and illuminance (lx) in a wide variety of spaces. Features a high-efficiency light guide panel that distributes light differently upward and downward



### Light guide panel enabling different light distribution above and below

Top surface of light guide panel features a fine lens treatment, applying light induction technology to deliver light to ceiling surface as well. Light distribution delivers light widely across ceiling surface while securing sufficient illuminance directly under light source.



**LED (5000K)**

**FYY46030** CRI83

[3160 lm, 28W, 112.9 lm/W]

- Modular light fixture: FYY46031

**LED (4000K)**

**FYY46034** CRI83

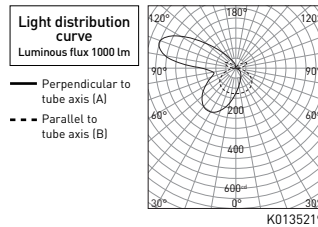
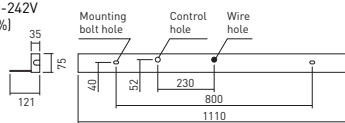
[3060 lm, 28W, 109.3 lm/W]

- Modular light fixture: FYY46035

#### Common specifications

- Built-in LED, Built-in power supply unit • AC 100-242V
- Lifetime: 40,000h [Luminous flux maintenance rate 85%]
- Body: Steel, White matte finish
- Panel: Acrylic, Transparent • Weight: 3.3 kg

**Note:**  
Cannot be mounted facing any other direction than one shown in photo.



### Modular units can be assembled to fit interior



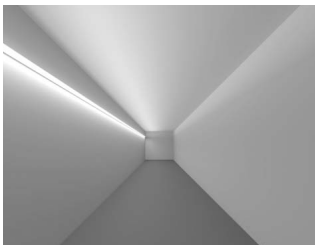
\*When units are connected, there are interstices between the panels.

### Panel becomes transparent when turned off, making its presence less noticeable.

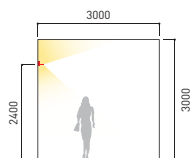


### Case examples of achieving both subjective brightness (Feu) and illuminance (lx) \*Pictures are simulated images.

#### Corridor / Foyer



- Average illuminance of floor: 350 lx
- Feu: 14.1

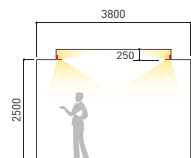


- Space dimensions: 3.0 m x 14.4 m
- Number of fixtures: 12

#### Entrance / Lobby / Elevator lobby

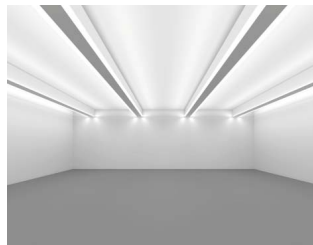


- Average illuminance of floor: 456 lx
- Feu: 17.2

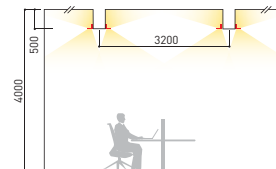


- Space dimensions: 3.8 m x 6.4 m
- Number of fixtures: 8

#### Skeleton ceiling



- Average illuminance of desktop: 890 lx
- Feu: 24.3

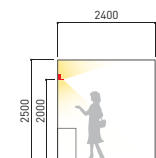


- Space dimensions: 12.2 m x 9.0 m
- Number of fixtures: 64

#### Powder room



- Average illuminance on vertical surface at face height: 879 lx
- Feu: 17.0



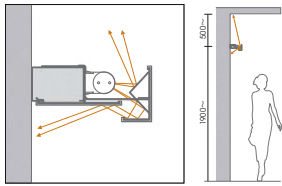
- Space dimensions: 2.4 m x 2.4 m
- Number of fixtures: 2

• Reflectivity rate: Ceiling 70%, wall 50%, floor 10% • Maintenance factor: 0.81 [common for all cases]



# LED Line Bracket

Line Brackets create bright impression with indirect light.



## Light diffusion design creates the impression of a bright interior

While casting a large amount of light on the ceiling surface, these fixtures illuminate walls with a small amount of light to avoid a dark impression, creating an overall subjective impression of brightness.



LDL40

## FYY46000

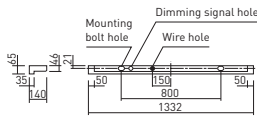
CRI84

3800 lm type (Equivalent to Hf32W high-output fixture)

- Fixture: FYY46000 • Lamp: LDL40S, N/29/38-K (2200 lm, 33W, 66.7 lm/W)

### Specifications

- Lamp separate sale
- Built-in LED, Built-in power supply unit • AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Reflector: Steel, Highly reflective white powder coating
- Cover: Aluminum, Silver metallic
- Weight: 4.5 kg
- Modular light fixture: FYY46001 (Left end of linked series), FYY46002 (Middle of linked series), FYY46003 (Right end of linked series)



Note: Cannot be mounted facing any other direction than one shown in photo.  
\*3800 lm straight-tube LED lamp recommended for use.

\* Classified with 5000K lamp as representative sample. Luminous flux of lamps may differ depending on light temperature and color.

### Common specifications

- Compatible lamps: For straight-tube LED lamps.
- Please verify prices of lamps separately.

### Note:

- When mounting straight-tube LED lamps, please verify the insertion direction. Mount the non-electrical supply side of the lamp in the socket with a ▽ mark.
- Please use Panasonic LED lamps. Fixtures are designed in accordance with the properties of Panasonic LED lamps, so using LED lamps made by other manufacturers may result in substandard performance.
- Straight-tube LED lamps are made of glass. Please handle with care.

### Modular light fixture

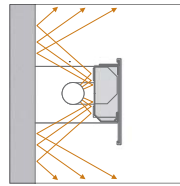
Diagram	Configuration	Model	Product Number
	Single units	FYY46000	FYY46010
	Middle of linked series	FYY46002	FYY46012
	Left end of linked series	FYY46001	FYY46011
	Right end of linked series	FYY46003	FYY46013

\* Lamp sold separately

# LED Bracket



Brackets are designed to cast lovely indirect light on wall surfaces.



## Lovely indirect light

Lamps are positioned on the light-shielding plate side of the fixture so as to avoid casting shadows on the wall surface. Light spreads over vertical surfaces with fluidity.



LDL40

## FYY46010

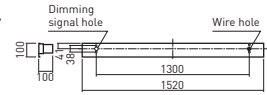
CRI84

3800 lm type (Equivalent to Hf32W high-output fixture)

- Fixture: FYY46010 • Lamp: LDL40S, N/29/38-K (2990 lm, 33W, 90.6 lm/W)

### Specifications

- Lamp separate sale
- Built-in LED, Built-in power supply unit • AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 85%)
- Body: Steel, Highly reflective white powder coating
- Cover: Aluminum, Silver metallic
- Weight: 3.5 kg
- Modular light fixture: FYY46011 (Left end of linked series), FYY46012 (Middle of linked series), FYY46013 (Right end of linked series)



Note: Cannot be mounted facing any other direction than one shown in photo.  
\*3800 lm straight-tube LED lamp recommended for use.

### Compatible lamp

Brightness type*	Product number	Order number	Color Temp.
LDL40 3800 lm type (High output)	LDL40S, D/29/35-K	LDL40SD2935K	6500K
	LDL40S, N/29/38-K	LDL40SN2938K	5000K
	LDL40S, N/29/35P-K (With shatterproof film)	LDL40SN2935PK	5000K
	LDL40S, W/29/37-K	LDL40SW2937K	4000K
	LDL40S, W/29/34P-K (With shatterproof film)	LDL40SW2934PK	4000K
	LDL40S, WW/29/35-K	LDL40SWW2935K	3500K
	LDL40S, L/29/33-K	LDL40SL2933K	3000K

\* Classified with 5000K lamp as representative sample. Luminous flux of lamps may differ depending on light temperature and color.

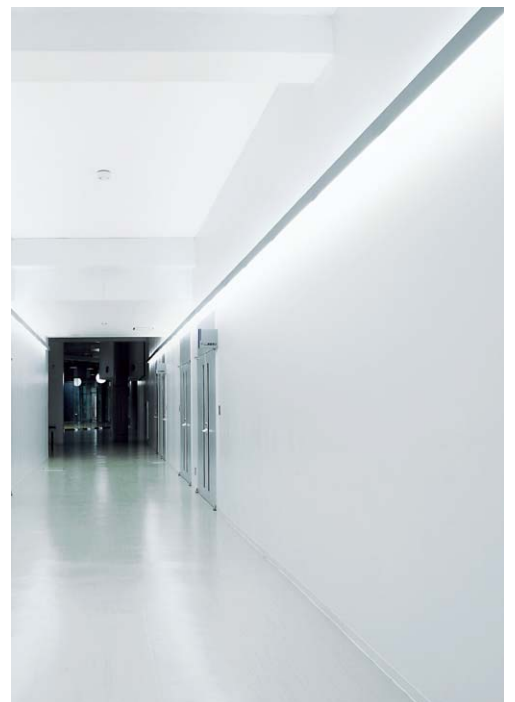
### The Long Life Design Award

The Long Life Design Award is a special honor conferred by the Good Design Award committee on products that win the Good Design Award and after ten years are still on the market and popular with consumers. Panasonic succeeded in maintaining the same design while switching light sources to LED.



Unosawa Tokyu Building

\*Photo shows case example of Line Brackets installed. (Conventional light source in use as well)



College of healthcare management

\*Photo shows case example of Brackets installed.  
(Conventional light source in use as well)

# LED Upper Lighting (Versatile indoor/outdoor type) Upper light distribution type

Upper light distribution type illuminates ceiling surface with very even light.

## Versatile indoor/outdoor type

For indirect lighting in spaces with vaulted ceilings or in shelters, etc.



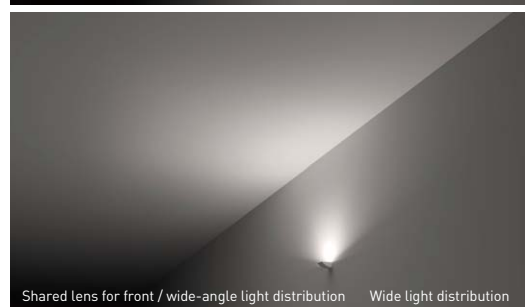
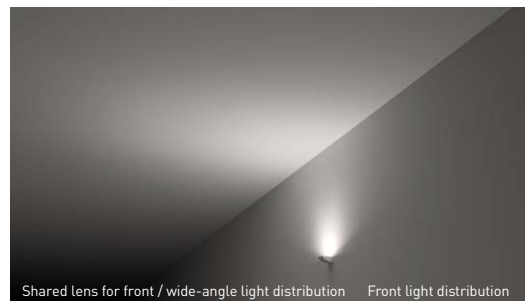
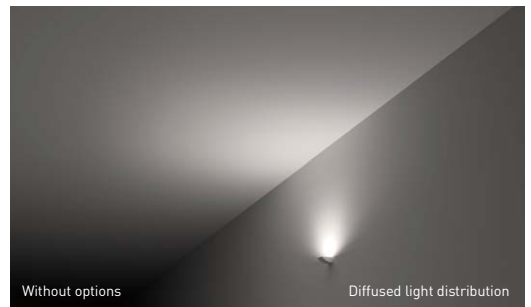
Photo shows a synthesized simulation



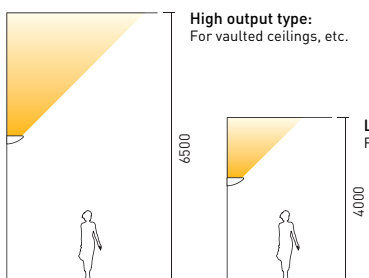
Photo shows a synthesized simulation

## Three light distribution variations

Use of optional lens enables front and wide light distribution.



## Choose from two brightness levels depending on type of space



High output type



Diffused light distribution

LED (4000K)

**YYY46044Z**

(4320 lm, 67W, 64.4 lm/W)

CRI85

LED (3000K)

**YYY46045Z**

(4130 lm, 67W, 61.6 lm/W)

CRI85

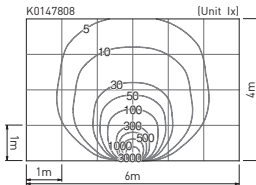
YYY46044Z

Diffused Light Distribution

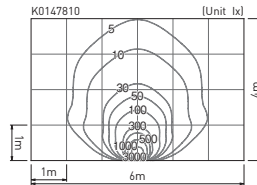
Front Light Distribution

Wide Light Distribution

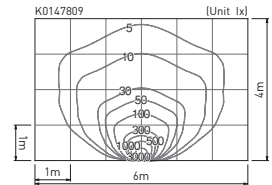
Illuminance distribution on vertical surface



- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

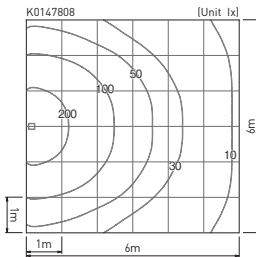


- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

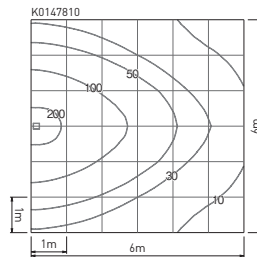


- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

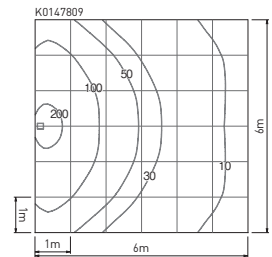
Illuminance distribution on ceiling surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

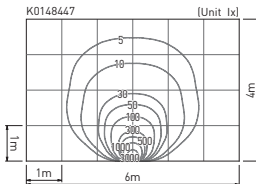
YYY46024Z

Diffused Light Distribution

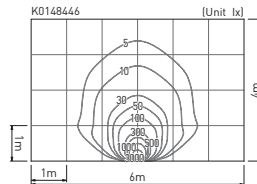
Front Light Distribution

Wide Light Distribution

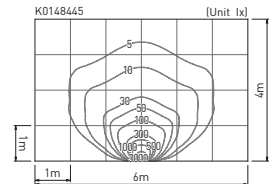
Illuminance distribution on vertical surface



- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

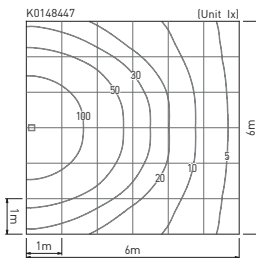


- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

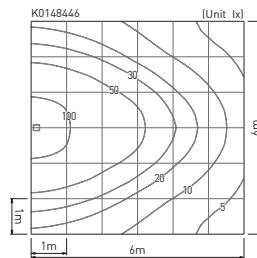


- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

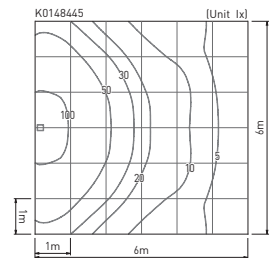
Illuminance distribution on ceiling surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface



- Mounting height: 3 m
- Maintenance factor: 1.0
- Mounting position: 0.15 m from wall surface

Low output type



Diffused light distribution

LED (4000K)

**YYY46024Z**

(2670 lm, 37W, 72.1 lm/W)

CRI85

LED (3000K)

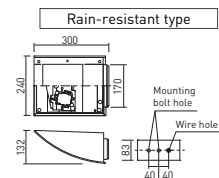
**YYY46025Z**

(2550 lm, 37W, 68.9 lm/W)

CRI85

Common specifications

- Built-in LED, Built-in power supply unit
- AC 100-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- Body: Aluminum die-casting, Silver metallic matte finish
- Panel: Hard glass
- Weight: High output type 5.3kg  
Low output type 5.2kg



Options

Shared lens for front / wide-angle light distribution

**YYY96222Z**

- Acrylic, Clear
- Set of two lenses [Two used for each fixture]



Sold separately

Specialized hood

**YYY96204**

- Body: Stainless steel, Off-black matte finish





Fukuoka Children's Hospital

Upper Light

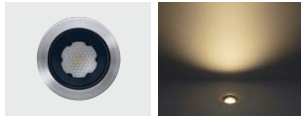
## LED Upper Light Integrated packaged type ø93

Beautiful light distribution with minimized glare.  
Multiple light distribution variations are available for different applications.



**Excellent light distribution and reliable waterproof performance**

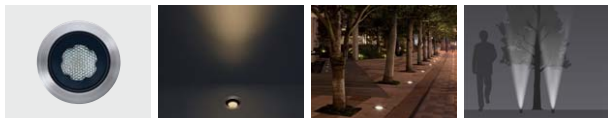
### Omnidirectional type



### Shielded type

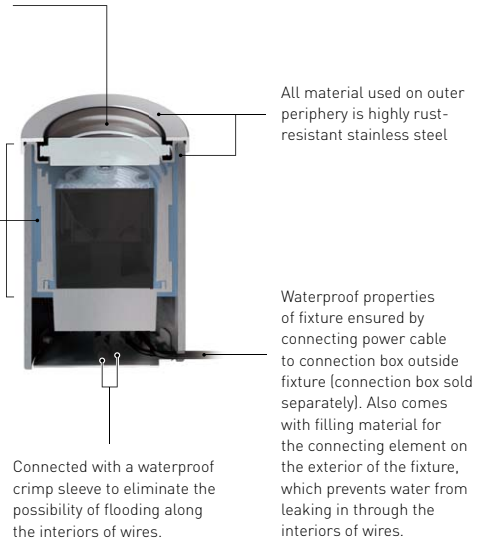


### Honeycomb louver type



Made with high-transparency glass (tempered glass) that lets light through without compromising light color fidelity and efficiency

Excellent waterproof performance ensured by filling all gaps in the fixture with silicon filler (IP67)



All material used on outer periphery is highly rust-resistant stainless steel

Waterproof properties of fixture ensured by connecting power cable to connection box outside fixture (connection box sold separately). Also comes with filling material for the connecting element on the exterior of the fixture, which prevents water from leaking in through the interiors of wires.

Connected with a waterproof crimp sleeve to eliminate the possibility of flooding along the interiors of wires.

## LED Universal Type Integrated packaged type ø180

Compact design blends into the interior, scalloping minimized for beautiful light distribution.



**Excellent light distribution and reliable waterproof performance**

### Light distribution performance achieves effective irradiation and curtails glare



Secures light shielding angle of 30°

### Surface temperature low enough to touch safety



With 15° light beam direction adjustment function



Surface temperature is below 60°, can be touched without risk of injury.

### Light distribution can be controlled with options



Without options

Spread lens

Diffusion lens

Honeycomb louver

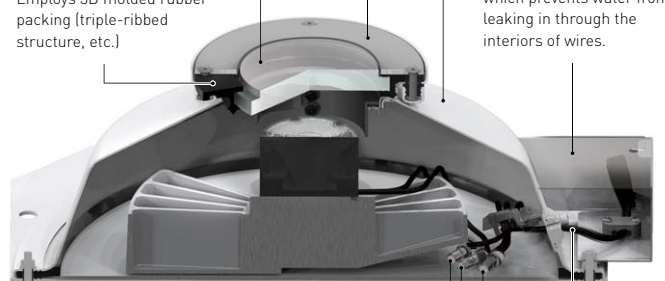


Made with high-transparency glass (tempered glass) that lets light through without compromising light color fidelity and efficiency

Excellent waterproof performance ensured (IP67). Employs 3D molded rubber packing (triple-ribbed structure, etc.)

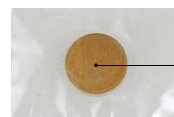
All material used on outer periphery is highly rust-resistant stainless steel

Waterproof properties of fixture ensured by connecting power cable to connection box outside fixture. Also comes with filling material for the connecting element on the exterior of the fixture, which prevents water from leaking in through the interiors of wires.



Connecting element caulked to prevent water from leaking in through the interiors of wires.

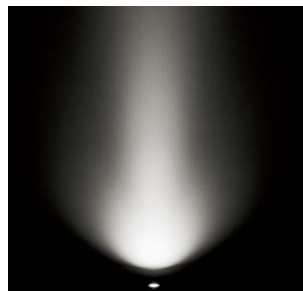
Three wires are not bundled together, but rather each wire has separate packing to prevent water from entering



Comes packaged with hygroscopic material (remove from bag and place inside fixture when setting up lighting). Greatest possible prevention of condensation due to exposure to moisture in the air when opening and closing the fixture

# LED Upper Light Integrated packaged type ø93

## Omnidirectional type



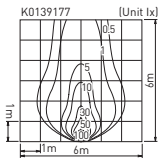
20°

LED (4000K)

**YYY66120 type**

[323 lm, 8.6W, 37.6 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



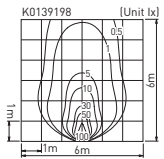
35°

LED (4000K)

**YYY66140 type**

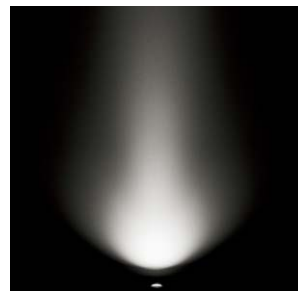
[356 lm, 8.6W, 41.4 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0

## Shielded type



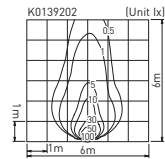
20°

LED (4000K)

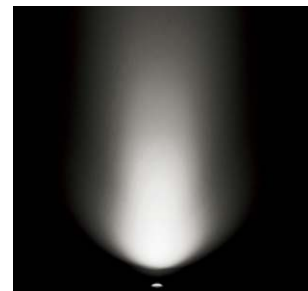
**YYY66124 type**

[155 lm, 8.6W, 18.0 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



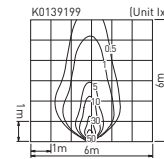
35°

LED (4000K)

**YYY66144 type**

[168 lm, 8.6W, 19.5 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



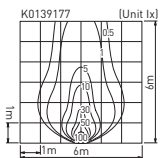
20°

LED (3000K)

**YYY66121 type**

[306 lm, 8.6W, 35.6 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



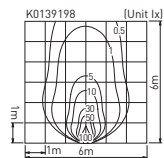
35°

LED (3000K)

**YYY66141 type**

[337 lm, 8.6W, 39.2 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



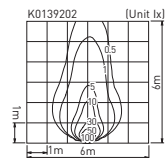
20°

LED (3000K)

**YYY66125 type**

[147 lm, 8.6W, 17.1 lm/W]

CRI85



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



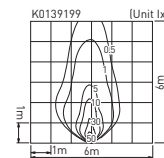
35°

LED (3000K)

**YYY66145 type**

[159 lm, 8.6W, 18.5 lm/W]

CRI85

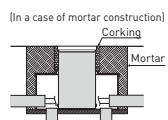


• Distance from wall: 0.3m  
• Maintenance factor: 1.0

### Common specifications

- Waterproof LED unit with internal power source
- AC 200-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP67 • Body: Stainless steel
- Front Panel: Hard glass, Transparent
- Frame: Stainless steel (hairline finish)
- Weight: 2.2 kg
- Compatible embedded box: NNY28515(Sold separately), NNY28516(Sold separately)

### Rain-resistant type \*Under developing

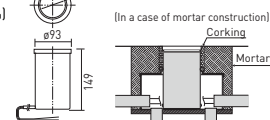


**Note:** • Please use compatible embedded box. • Do not install in locations where metal-wheeled vehicles, heavy load-bearing vehicles, or standard vehicles pass through. • Corking must be removed when performing fixture maintenance.

### Common specifications

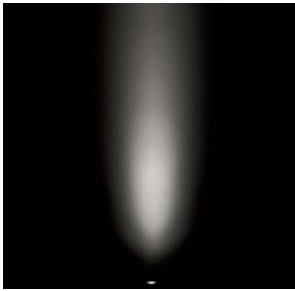
- Waterproof LED unit with internal power source
- AC 200-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP67 • Body: Stainless steel
- Front Panel: Hard glass, Transparent (with internal black silk printing in some areas)
- Frame: Stainless steel (hairline finish)
- Weight: 2.2 kg
- Compatible embedded box: NNY28515(Sold separately), NNY28516(Sold separately)

### Rain-resistant type \*Under developing



**Note:** • Please use compatible embedded box. • Do not install in locations where metal-wheeled vehicles, heavy load-bearing vehicles, or standard vehicles pass through. • Corking must be removed when performing fixture maintenance.

Honeycomb louver type



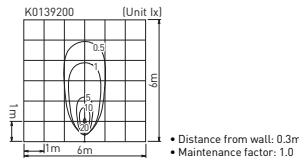
20°

LED (4000K)

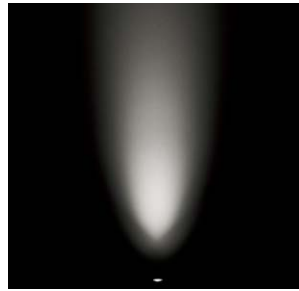
YYY66160 type

CRI85

[59 lm, 8.6W, 6.9 lm/W]



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



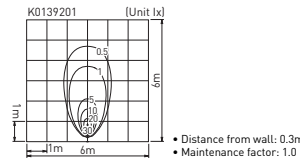
35°

LED (4000K)

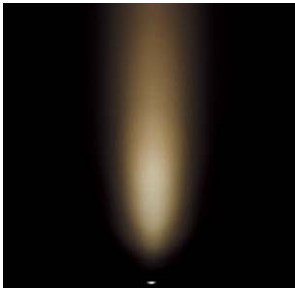
YYY66164 type

CRI85

[70 lm, 8.6W, 8.1 lm/W]



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



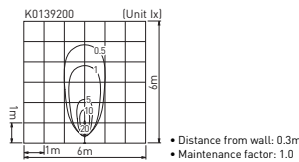
20°

LED (3000K)

YYY66161 type

CRI85

[56 lm, 8.6W, 6.5 lm/W]



• Distance from wall: 0.3m  
• Maintenance factor: 1.0



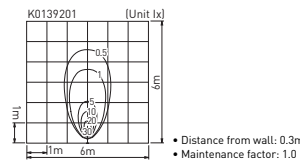
35°

LED (3000K)

YYY66165 type

CRI85

[66 lm, 8.6W, 7.7 lm/W]



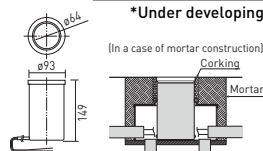
• Distance from wall: 0.3m  
• Maintenance factor: 1.0

Common specifications

- Waterproof LED unit with internal power source
- AC 200-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP67 • Body: Stainless steel
- Front Panel: Hard glass, Transparent
- Honeycomb louver: Aluminum (black coated)
- Frame: Stainless steel (hairline finish)
- Weight: 2.2 kg
- Compatible embedded box:  
NNY28515(Sold separately), NNY28516(Sold separately)

**Note:** • Please use compatible embedded box. • Do not install in locations where metal-wheeled vehicles, heavy load-bearing vehicles, or standard vehicles pass through. • Corking must be removed when performing fixture maintenance.

Rain-resistant type



\*Under developing

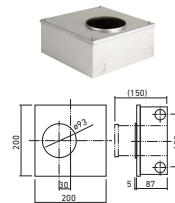
(In a case of mortar construction)

Sold separately

Embedded box for mortar construction

NNY28515

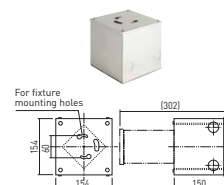
- Body: Stainless steel
- Weight: 1.1 kg
- Compatible fixture:  
YYY66120, YYY66121  
YYY66124, YYY66125  
YYY66140, YYY66141  
YYY66144, YYY66145  
YYY66160, YYY66161  
YYY66164, YYY66165



Embedded box for soil installation

NNY28516

- Body: Stainless steel
- Weight: 1.2 kg
- Compatible fixture:  
YYY66120, YYY66121  
YYY66124, YYY66125  
YYY66140, YYY66141  
YYY66144, YYY66145  
YYY66160, YYY66161  
YYY66164, YYY66165





# LED Universal Type Integrated packaged type ø180

LED 1100 lm type



13°



22°



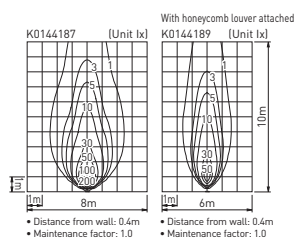
39°

LED (4000K)

YYY66052 type

CRI85

[996 lm, 21.9W, 45.4 lm/W]

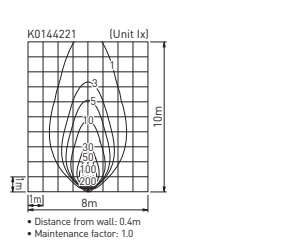


LED (4000K)

YYY66054 type

CRI85

[954 lm, 21.9W, 43.5 lm/W]

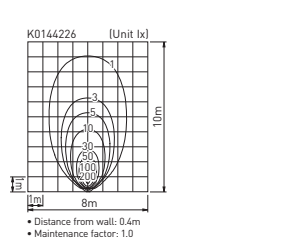


LED (4000K)

YYY66056 type

CRI85

[962 lm, 21.9W, 43.9 lm/W]



13°



22°



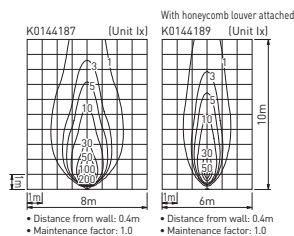
39°

LED (3000K)

YYY66051 type

CRI85

[938 lm, 21.9W, 42.8 lm/W]

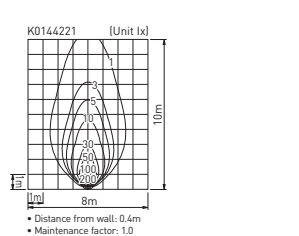


LED (3000K)

YYY66053 type

CRI85

[898 lm, 21.9W, 41.0 lm/W]

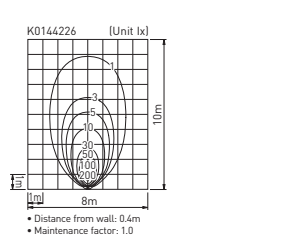


LED (3000K)

YYY66055 type

CRI85

[906 lm, 21.9W, 41.3 lm/W]



## Common specifications

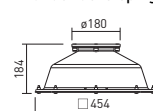
- Waterproof LED unit with internal power source
- AC 200-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP67
- Body: Stainless steel
- Front Panel: Hard glass, Transparent
- Frame: Stainless steel
- With light beam direction adjustment function
- Weight: 11.0 kg

## Note:

- Do not install in locations where metal-wheeled vehicles, heavy load-bearing vehicles, or standard vehicles pass through.

Rain-resistant type

\*Under developing



Options

Sold separately

Spread lens

YYY96224



Diffusion lens

YYY96228

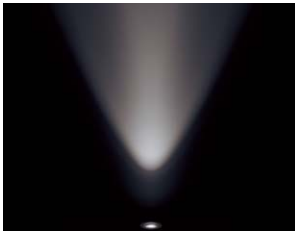


Honeycomb louver

YYY96220



LED 700 lm type



13°



22°



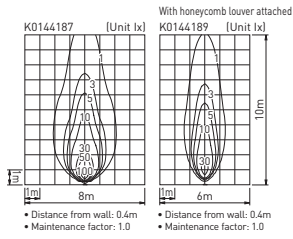
39°

LED (4000K)

YYY66002 type

CR185

(627 lm, 12.9W, 48.6 lm/W)

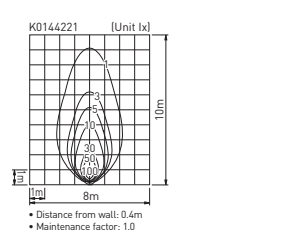


LED (4000K)

YYY66004 type

CR185

(600 lm, 12.9W, 46.5 lm/W)

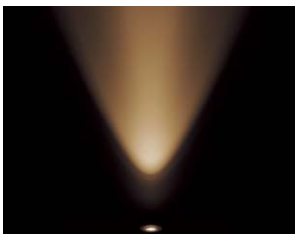
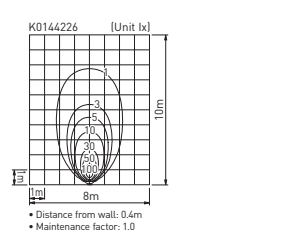


LED (4000K)

YYY66006 type

CR185

(605 lm, 12.9W, 46.8 lm/W)



13°



22°



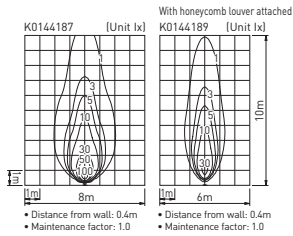
39°

LED (3000K)

YYY66001 type

CR185

(586 lm, 12.9W, 45.4 lm/W)

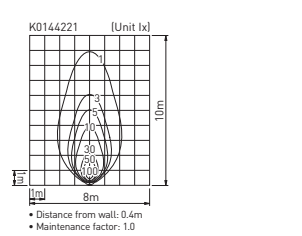


LED (3000K)

YYY66003 type

CR185

(561 lm, 12.9W, 43.8 lm/W)

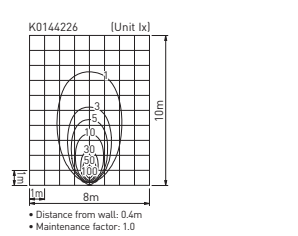


LED (3000K)

YYY66005 type

CR185

(566 lm, 12.9W, 43.8 lm/W)



Common specifications

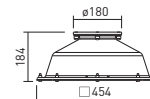
- Waterproof LED unit with internal power source
- AC 200-242V
- Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP67
- Body: Stainless steel
- Front Panel: Hard glass, Transparent
- Frame: Stainless steel
- With light beam direction adjustment function
- Weight: 11.0 kg

Note:

- Do not install in locations where metal-wheeled vehicles, heavy load-bearing vehicles, or standard vehicles pass through.

Rain-resistant type

\*Under developing



Options

Sold separately

Spread lens

YYY96224



Diffusion lens

YYY96228



Honeycomb louver

YYY96220





Photo is a simulated image.

# Spot Light

# LED Cylinder Spot

Spot light with fixture design and light quality that harmonize with interiors.



## Excellent light distribution, reliable waterproof performance and safe design

Incorporates power supply-integrated waterproof LED (IP65).

All screws in fixture have seal washers, making them highly water resistant

Features high transparency glass (tempered glass). Lets light through without compromising light color fidelity and efficiency



Features tightening screws for robust fixation structure. Designed so that illumination direction does not change due to vibrations, etc.

Contains built-in fall prevention wire. Safety doubly ensured in the event that a screw breaks

Spread lens  
\*Sold separately

Easy to attach options thanks to dual-purpose optional frame with 3D molded rubber packing  
\*Options sold separately

\*Anchor bolt or Embedded box are separate

## Light distribution can be controlled with options



With snoot attached

With honeycomb louver attached



Without options

Spread lens

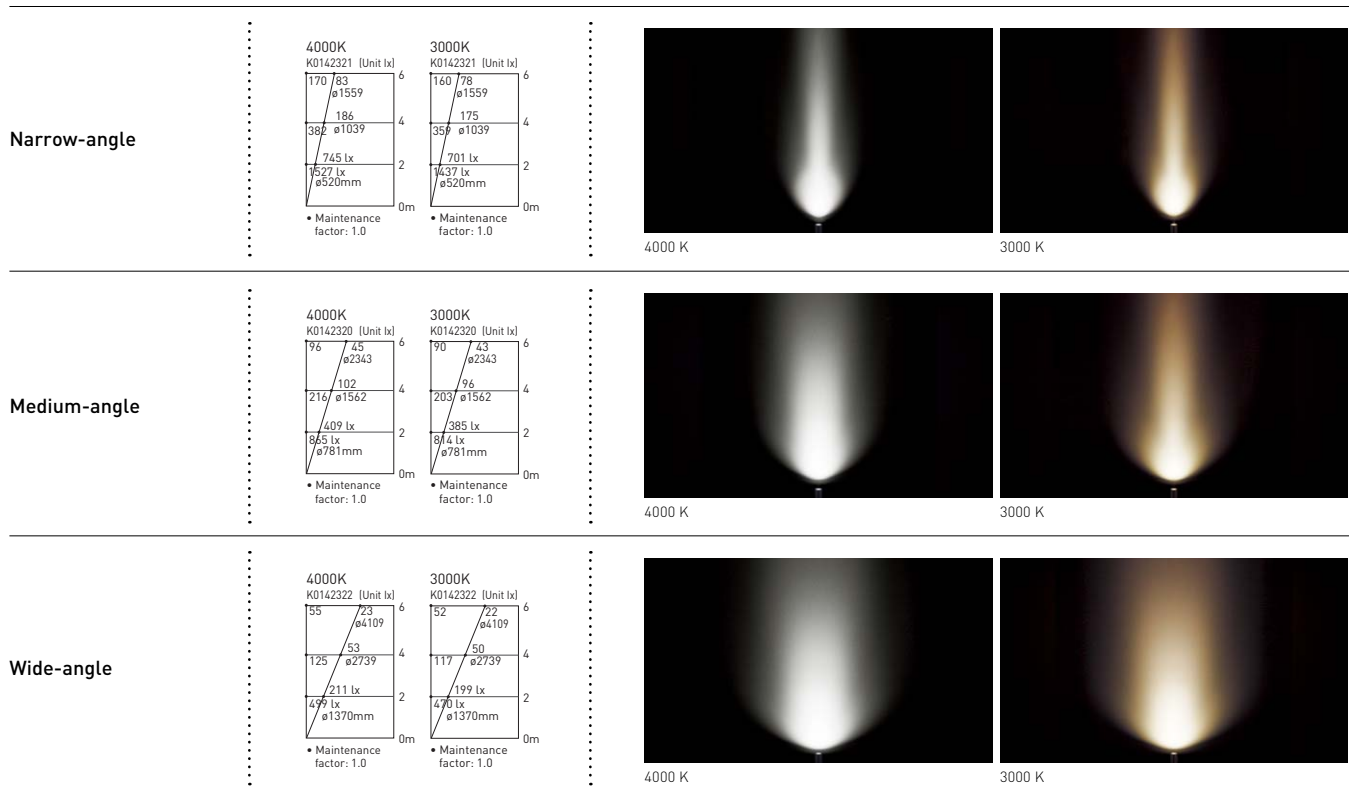
Diffusion lens

## Mount in a wide variety of ways

	Wall surface	Ceiling	Floor surface		
Specialized wall-mounted type	 Embedded box (Sold separately)	—	—		
Freely mountable type			 Soil Embedded box (Sold separately)	 Concrete	 Concrete Special order Plate bracket Fig. no. T4AA25060-K
Specialized floor-standing type [exposed wiring]	—	—	 Soil Spike (Sold separately)	 Concrete Floor-mounting plate (Sold separately)	 Feed wiring available

# LED Cylinder Spot

LED 1100 lm type\*1



## Options for all types

Sold separately

### Diffusion lens

YYY90104



### Spread lens

YYY36000



### Honeycomb louver

YYY90204



### Snoot

YYY95150

• Body: Stainless steel



Note: Depending on distance from light source, illumination of lit surface may be uneven. Please do not use in locations such as on walls where uneven illumination will pose a problem.

\*1 Brightnesses shown are approximate, provisional figures, and are subject to change without notice.

Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.

Specialized wall-mounted type



LED (4000K)

**YYY36912 type** CRI85  
 (1100 lm, 21.9W, 50.2 lm/W)

LED (3000K)

**YYY36911 type** CRI85  
 (1035 lm, 21.9W, 47.3 lm/W)

LED (4000K)

**YYY36914 type** CRI85  
 (1010 lm, 21.9W, 46.1 lm/W)

LED (3000K)

**YYY36913 type** CRI85  
 (950 lm, 21.9W, 43.4 lm/W)

LED (4000K)

**YYY36916 type** CRI85  
 (1030 lm, 21.9W, 47.0 lm/W)

LED (3000K)

**YYY36915 type** CRI85  
 (970 lm, 21.9W, 44.3 lm/W)

Freely mountable type



LED (4000K)

**YYY36932 type** CRI85  
 (1100 lm, 21.9W, 50.2 lm/W)

LED (3000K)

**YYY36931 type** CRI85  
 (1035 lm, 21.9W, 47.3 lm/W)

LED (4000K)

**YYY36934 type** CRI85  
 (1010 lm, 21.9W, 46.1 lm/W)

LED (3000K)

**YYY36933 type** CRI85  
 (950 lm, 21.9W, 43.4 lm/W)

LED (4000K)

**YYY36936 type** CRI85  
 (1030 lm, 21.9W, 47.0 lm/W)

LED (3000K)

**YYY36935 type** CRI85  
 (970 lm, 21.9W, 44.3 lm/W)

Specialized floor-standing type



LED (4000K)

**YYY36952 type** CRI85  
 (1100 lm, 21.9W, 50.2 lm/W)

LED (3000K)

**YYY36951 type** CRI85  
 (1035 lm, 21.9W, 47.3 lm/W)

LED (4000K)

**YYY36954 type** CRI85  
 (1010 lm, 21.9W, 46.1 lm/W)

LED (3000K)

**YYY36953 type** CRI85  
 (950 lm, 21.9W, 43.4 lm/W)

LED (4000K)

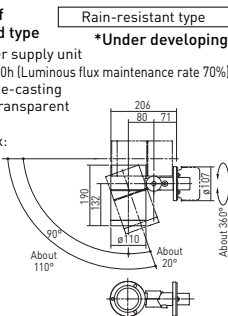
**YYY36956 type** CRI85  
 (1030 lm, 21.9W, 47.0 lm/W)

LED (3000K)

**YYY36955 type** CRI85  
 (970 lm, 21.9W, 44.3 lm/W)


Common specifications of Specialized wall-mounted type

- Built-in LED, Built-in power supply unit
  - AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
  - IP65 • Body: Aluminum die-casting
  - Front Panel: Hard glass, Transparent
  - Weight: 2.3 kg
  - Compatible embedded box: DS37544 (Sold separately) DS4611 (Sold separately)
- Note:**
- Please use compatible embedded box.




Options for Specialized wall-mounted type Sold separately

Embedded Box

**DS37544** 

- Medium-sized square outlet box deep type
- Width: 102, Height: 102, Thickness: 54
- Body: Electrogalvanized steel plate
- JIS C8340 • Weight: 0.35 kg
- Side knockout G16 (C19) x 1, G22 (C25) x 1

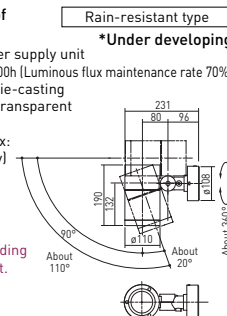
Cover for embedded box

**DS4611** 

- Medium-sized square switch cover
- Width: 106, Height: 106, Thickness: 13
- Body: Electrogalvanized steel plate
- JIS C8340 • Weight: 0.1 kg

Common specifications of Freely mountable type

- Built-in LED, Built-in power supply unit
  - AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
  - IP65 • Body: Aluminum die-casting
  - Front Panel: Hard glass, Transparent
  - Weight: 3.0 kg
  - Compatible embedded box: YYY90130 (Sold separately)
- Note:**
- Please use compatible embedded box.
  - Do not mount in locations where there is risk of flooding or water is likely to collect.



Options for Freely mountable type Sold separately

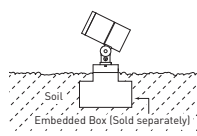
Embedded Box

**YYY90130** 

- Width: 200, Height: 200, Thickness: 130
- Body: Stainless steel • Weight: 1.2 kg

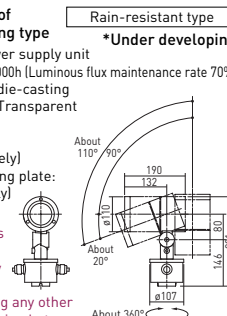
**Note:**

- Embedded box opens from the bottom. Please be sure to install wastewater treatment pipes. • If mounting in a location where it can easily be touched, fasten the embedded box in place with mortar, etc. so that the light fixture does not move.



Common specifications of Specialized floor-standing type

- Built-in LED, Built-in power supply unit
  - AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
  - IP65 • Body: Aluminum die-casting
  - Front Panel: Hard glass, Transparent
  - Weight: 2.7 kg
  - Compatible spike: YYY97173K (Sold separately)
  - Compatible floor-mounting plate: YYY36004 (Sold separately)
- Note:**
- Do not mount in locations where there is risk of flooding or water is likely to collect.
  - Cannot be mounted facing any other direction than one shown in photo.



Options for Specialized floor-standing type Sold separately

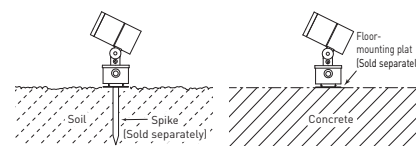
Spike Sold separately Floor-mounting plate Sold separately

**YYY97173K** 

- Body: Stainless steel
- Weight: 0.38 kg

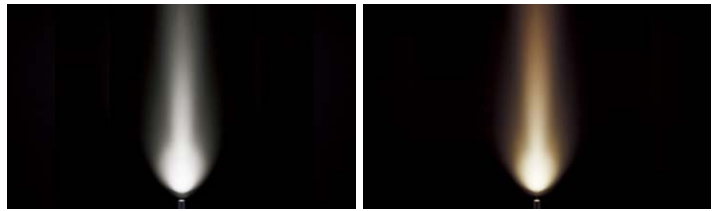
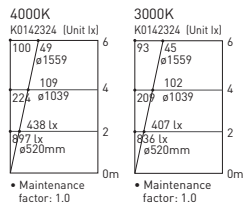
**YYY36004** 

- Width: ø150
- Weight: 0.32 kg



\*1 Brightnesses shown are approximate, provisional figures, and are subject to change without notice.  
 Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.

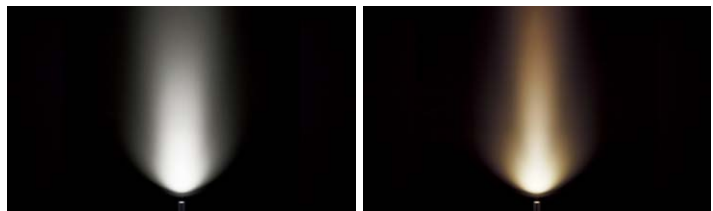
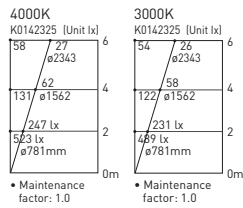
Narrow-angle



4000 K

3000 K

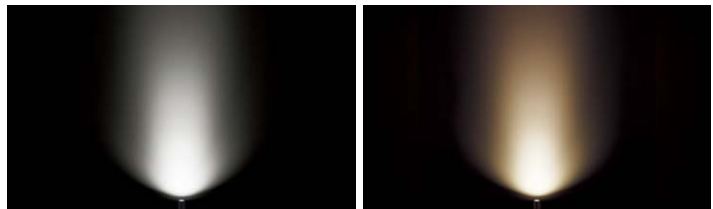
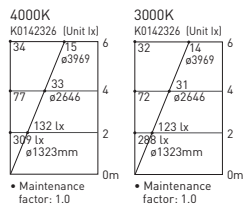
Medium-angle



4000 K

3000 K

Wide-angle



4000 K

3000 K

Options for all types

Sold separately

Diffusion lens

YYY90104



Spread lens

YYY36000



Honeycomb louver

YYY90204



Snoot

YYY95150

- Body: Stainless steel



Note: Depending on distance from light source, illumination of lit surface may be uneven. Please do not use in locations such as on walls where uneven illumination will pose a problem.

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Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.

Specialized wall-mounted type



LED (4000K)

**YYY36612 type** CRI85  
 (655 lm, 12.9W, 50.8 lm/W)

LED (3000K)

**YYY36611 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (4000K)

**YYY36614 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (3000K)

**YYY36613 type** CRI85  
 (570 lm, 12.9W, 44.2 lm/W)

LED (4000K)

**YYY36616 type** CRI85  
 (605 lm, 12.9W, 46.9 lm/W)

LED (3000K)

**YYY36615 type** CRI85  
 (565 lm, 12.9W, 43.8 lm/W)

Freely mountable type



LED (4000K)

**YYY36632 type** CRI85  
 (655 lm, 12.9W, 50.8 lm/W)

LED (3000K)

**YYY36631 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (4000K)

**YYY36634 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (3000K)

**YYY36633 type** CRI85  
 (570 lm, 12.9W, 44.2 lm/W)

LED (4000K)

**YYY36636 type** CRI85  
 (605 lm, 12.9W, 46.9 lm/W)

LED (3000K)

**YYY36635 type** CRI85  
 (565 lm, 12.9W, 43.8 lm/W)

Specialized floor-standing type



LED (4000K)

**YYY36652 type** CRI85  
 (655 lm, 12.9W, 50.8 lm/W)

LED (3000K)

**YYY36651 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (4000K)

**YYY36654 type** CRI85  
 (610 lm, 12.9W, 47.3 lm/W)

LED (3000K)

**YYY36653 type** CRI85  
 (570 lm, 12.9W, 44.2 lm/W)

LED (4000K)

**YYY36656 type** CRI85  
 (605 lm, 12.9W, 46.9 lm/W)

LED (3000K)

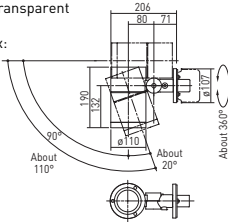
**YYY36655 type** CRI85  
 (565 lm, 12.9W, 43.8 lm/W)

Common specifications of Specialized wall-mounted type

Rain-resistant type  
 \*Under developing

- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 2.3 kg
- Compatible embedded box: DS37544 (Sold separately) DS4611 (Sold separately)

Note:  
 • Please use compatible embedded box.



Options for Specialized wall-mounted type Sold separately

Embedded Box

**DS37544**

- Medium-sized square outlet box deep type
- Width: 102, Height: 102, Thickness: 54
- Body: Electrogalvanized steel plate
- JIS C8340 • Weight: 0.35 kg
- Side knockout G16 (C19) x 1, G22 (C25) x 1



Cover for embedded box

**DS4611**

- Medium-sized square switch cover
- Width: 106, Height: 106, Thickness: 13
- Body: Electrogalvanized steel plate
- JIS C8340 • Weight: 0.1 kg

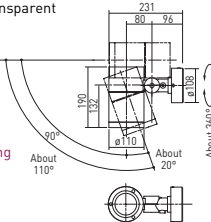


Common specifications of Freely mountable type

Rain-resistant type  
 \*Under developing

- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 3.0 kg
- Compatible embedded box: YYY90130 (Sold separately)

Note:  
 • Please use compatible embedded box.  
 • Do not mount in locations where there is risk of flooding or water is likely to collect.



Options for Freely mountable type Sold separately

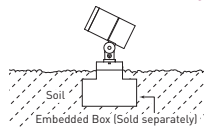
Embedded Box

**YYY90130**

- Width: 200, Height: 200, Thickness: 130
- Body: Stainless steel • Weight: 1.2 kg



Note: • Embedded box opens from the bottom. Please be sure to install wastewater treatment pipes. • If mounting in a location where it can easily be touched, fasten the embedded box in place with mortar, etc. so that the light fixture does not move.

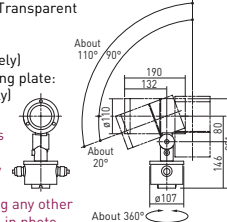


Common specifications of Specialized floor-standing type

Rain-resistant type  
 \*Under developing

- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 2.7 kg
- Compatible spike: YYY97173K (Sold separately)
- Compatible floor-mounting plate: YYY36004 (Sold separately)

Note:  
 • Do not mount in locations where there is risk of flooding or water is likely to collect.  
 • Cannot be mounted facing any other direction than one shown in photo.



Options for Specialized floor-standing type Sold separately

Spike

**YYY97173K**

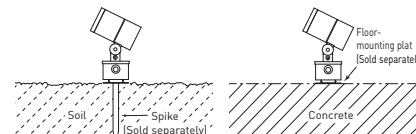
- Body: Stainless steel
- Weight: 0.38 kg



Floor-mounting plate

**YYY36004**

- Width: ø150
- Weight: 0.32 kg

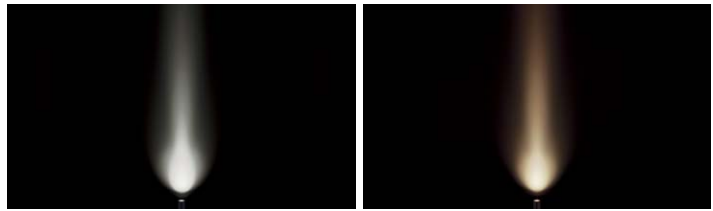
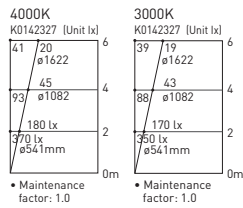


\*1 Brightnesses shown are approximate, provisional figures, and are subject to change without notice.

Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.



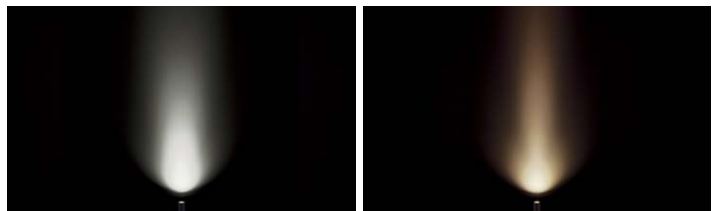
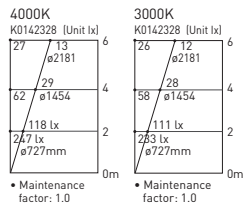
Narrow-angle



4000 K

3000 K

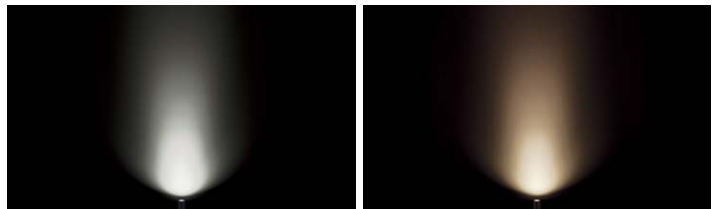
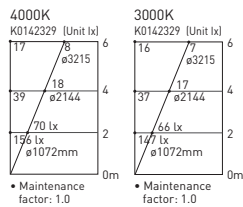
Medium-angle



4000 K

3000 K

Wide-angle



4000 K

3000 K

Options for all types

Sold separately

Diffusion lens

YYY90102



Spread lens

YYY95000



Honeycomb louver

YYY90202



Snoot

YYY95110



• Body: Stainless steel

Note: Depending on distance from light source, illumination of lit surface may be uneven. Please do not use in locations such as on walls where uneven illumination will pose a problem.

\*1 Brightnesses shown are approximate, provisional figures, and are subject to change without notice.

Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.

Specialized wall-mounted type



LED (4000K)

**YYY36312 type** CRI85  
 (275 lm, 8.5W, 32.4 lm/W)

LED (3000K)

**YYY36311 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (4000K)

**YYY36314 type** CRI85  
 (265 lm, 8.5W, 31.2 lm/W)

LED (3000K)

**YYY36313 type** CRI85  
 (250 lm, 8.5W, 29.4 lm/W)

LED (4000K)

**YYY36316 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (3000K)

**YYY36315 type** CRI85  
 (245 lm, 8.5W, 28.8 lm/W)

Freely mountable type



LED (4000K)

**YYY36332 type** CRI85  
 (275 lm, 8.5W, 32.4 lm/W)

LED (3000K)

**YYY36331 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (4000K)

**YYY36334 type** CRI85  
 (265 lm, 8.5W, 31.2 lm/W)

LED (3000K)

**YYY36333 type** CRI85  
 (250 lm, 8.5W, 29.4 lm/W)

LED (4000K)

**YYY36336 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (3000K)

**YYY36335 type** CRI85  
 (245 lm, 8.5W, 28.8 lm/W)

Specialized floor-standing type



LED (4000K)

**YYY36352 type** CRI85  
 (275 lm, 8.5W, 32.4 lm/W)

LED (3000K)

**YYY36351 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (4000K)

**YYY36354 type** CRI85  
 (265 lm, 8.5W, 31.2 lm/W)

LED (3000K)

**YYY36353 type** CRI85  
 (250 lm, 8.5W, 29.4 lm/W)

LED (4000K)

**YYY36356 type** CRI85  
 (260 lm, 8.5W, 30.6 lm/W)

LED (3000K)

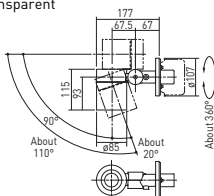
**YYY36355 type** CRI85  
 (245 lm, 8.5W, 28.8 lm/W)

Common specifications of Specialized wall-mounted type

Rain-resistant type  
 \*Under developing

- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 2.3 kg
- Compatible embedded box: DS37544 (Sold separately) DS4611 (Sold separately)

Note:  
 • Please use compatible embedded box.

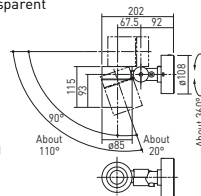


Common specifications of Freely mountable type

Rain-resistant type  
 \*Under developing

- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 3.0 kg
- Compatible embedded box: YYY90130 (Sold separately)

Note:  
 • Please use compatible embedded box.  
 • Do not mount in locations where there is risk of flooding or water is likely to collect.

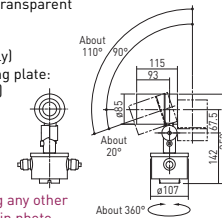


Common specifications of Specialized floor-standing type

Rain-resistant type  
 \*Under developing


- Built-in LED, Built-in power supply unit
- AC 200-242V • Lifetime: 40,000h (Luminous flux maintenance rate 70%)
- IP65 • Body: Aluminum die-casting
- Front Panel: Hard glass, Transparent
- Weight: 2.7 kg
- Compatible spike: YYY97173K (Sold separately)
- Compatible floor-mounting plate: YYY36004 (Sold separately)

Note:  
 • Do not mount in locations where there is risk of flooding or water is likely to collect.  
 • Cannot be mounted facing any other direction than one shown in photo.




Options for Specialized wall-mounted type Sold separately

Embedded Box


**DS37544**   
 • Medium-sized square outlet box deep type  
 • Width: 102, Height: 102, Thickness: 54  
 • Body: Electrogalvanized steel plate  
 • JIS C8340 • Weight: 0.35 kg  
 • Side knockout G16 (C19) x 1, G22 (C25) x 1

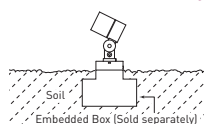
Cover for embedded box

**DS4611**   
 • Medium-sized square switch cover  
 • Width: 106, Height: 106, Thickness: 13  
 • Body: Electrogalvanized steel plate  
 • JIS C8340 • Weight: 0.1 kg

Options for Freely mountable type Sold separately

Embedded Box

**YYY90130**   
 • Width: 200, Height: 200, Thickness: 130  
 • Body: Stainless steel • Weight: 1.2 kg  
 Note: • Embedded box opens from the bottom. Please be sure to install wastewater treatment pipes. • If mounting in a location where it can easily be touched, fasten the embedded box in place with mortar, etc. so that the light fixture does not move.

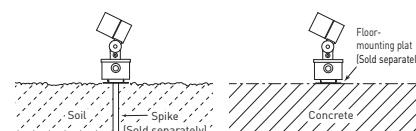


Options for Specialized floor-standing type Sold separately

Spike Floor-mounting plate

**YYY97173K**   
 • Body: Stainless steel  
 • Weight: 0.38 kg

**YYY36004**   
 • Width: ø150  
 • Weight: 0.32 kg



\*1 Brightnesses shown are approximate, provisional figures, and are subject to change without notice.

Note: Numerical data, photographs, dimension diagrams, and light distribution data figures for new products are provisional, and are subject to change without notice.

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