

# TOKISTAR

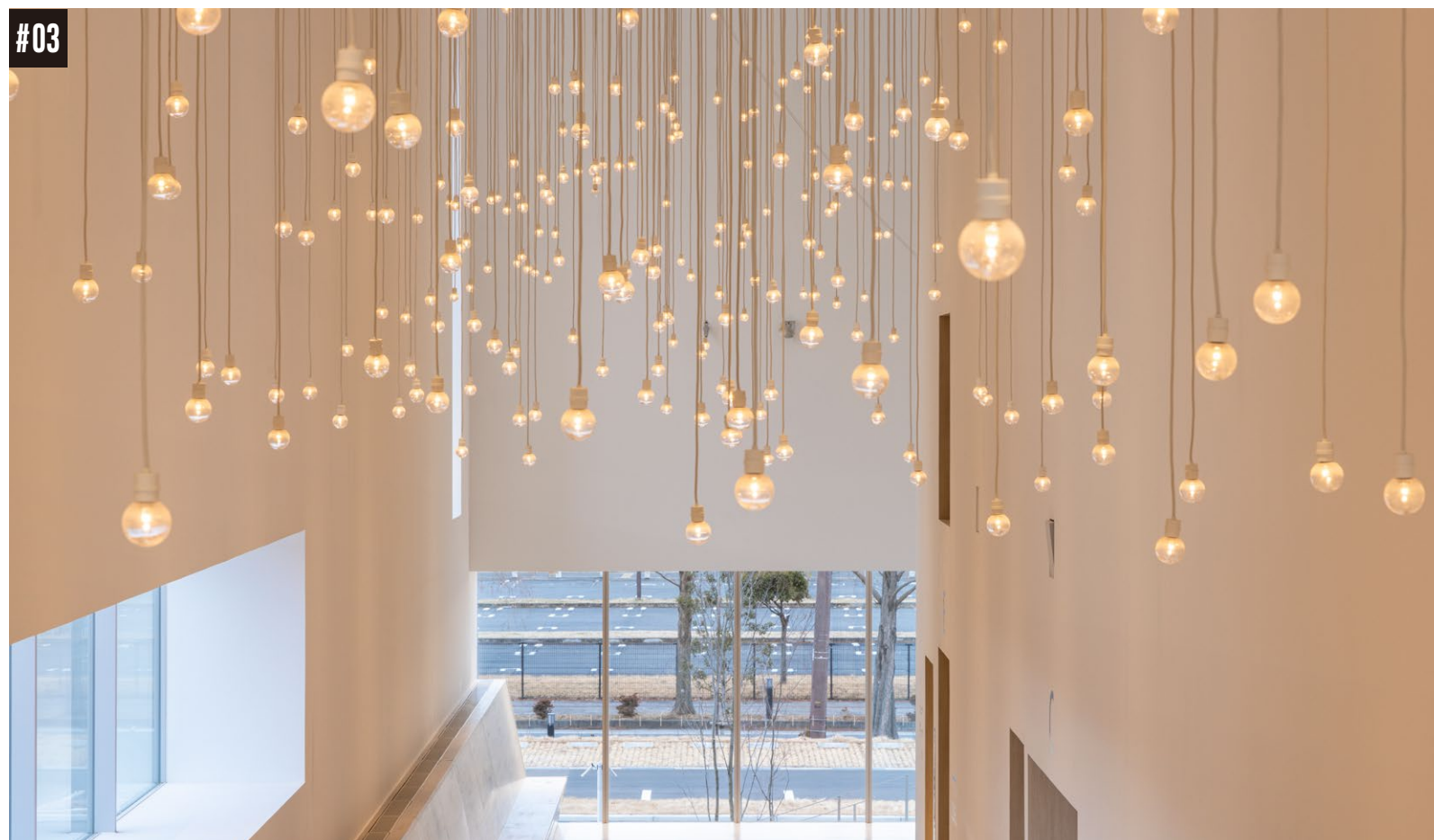
PRODUCT GUIDE  
EXHIBITOR LED  
EX SOCKET SYSTEM



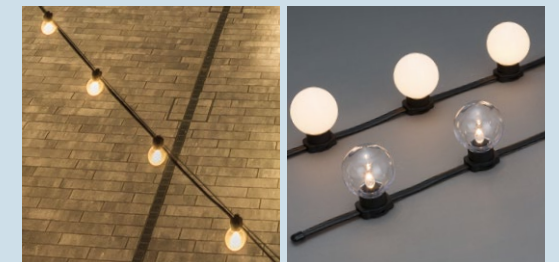
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Ver. 002 2025.5.16





## #01 MARINE & WALK YOKOHAMA



### EXHIBITOR LED

EXBK-500-VI-WW-G60C

▶▶ Page 3-5

## #02 PABLO COFFEE Shinsaibashi OPA & OPA Kireikan



### EXHIBITOR LED

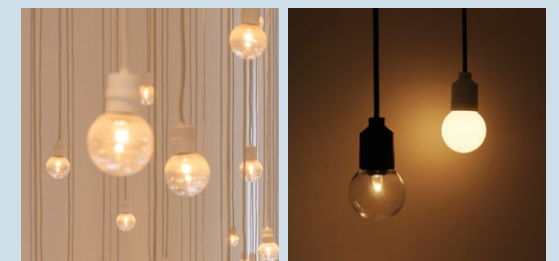
EXBK-100-VI-WW-S45C (Custom spacing)

Design : Supermaniac Inc.

Lighting Design : L.GROW lighting planning room Inc.

▶▶ Page 3-5

## #03 Maruhon MakiArt Terrace Ishinomaki Cultural Complex



### EX SOCKET SYSTEM

EXSS-L4000-WH (Custom white wire)

Architectural Design : Sou Fujimoto Architects

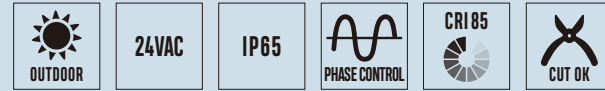
Lighting Design : LIGHTDESIGN INC.

Photographer : Akito Goto

▶▶ Page 7-10



## EXHIBITOR LED



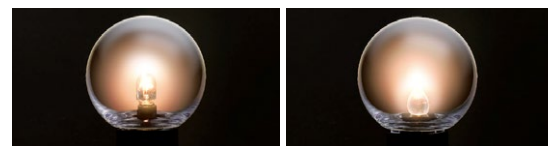
Voltage = 24VAC  
Wattage = 1.4W/LED  
Weight = EXBK-300 : 270g/m  
EXBK-500 : 210g/m  
Main Materials = PBT, PVC & PC  
Cable = AWG12 x 2 (AWG12 : eq. 3.3mm<sup>2</sup>)

EXBK-□□□-□□-□□-□□□□

LED Spacing	LED Color	Globe Style	Globe Color
300 : 300mm 500 : 500mm ※Custom spacing is available	VI-WW : 2400K UB-WW : 2400K VI-27K : 2700K UB-27K : 2700K VI-30K : 3000K UB-30K : 3000K ※VI = Virtual Incandescent UB = Ultra Bright	G60: G φ60 S45: S φ45 G45: G φ45 G35: G φ35	C : Clear F : Frosted R : Red G : Green A : Amber B : Blue ※S45, G45 and G35 in Clear and Frosted only

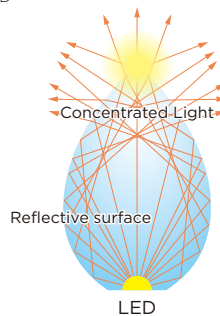
## System Features

### Point 01 A Classic and Refined Appearance

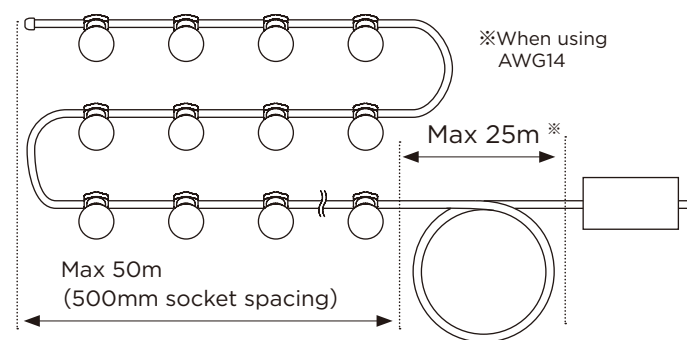


Incandescent lamp VI LED

By using virtual filament technology, we have developed our Virtual Incandescent™ (VI) LEDs. These LEDs do a remarkable job of emulating traditional incandescent lamps. Our proprietary Light Source Moving Technology transfers light to tip of the lens.



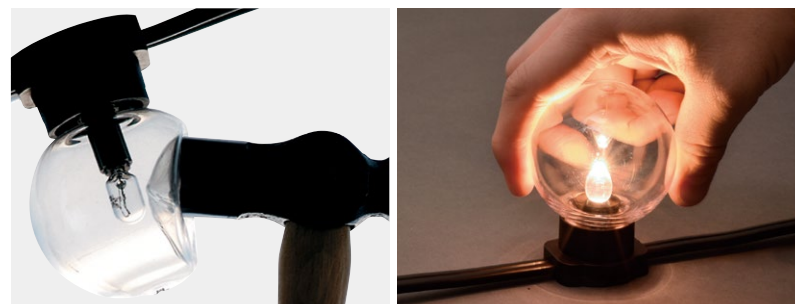
### Point 02 Dependable Design and Construction



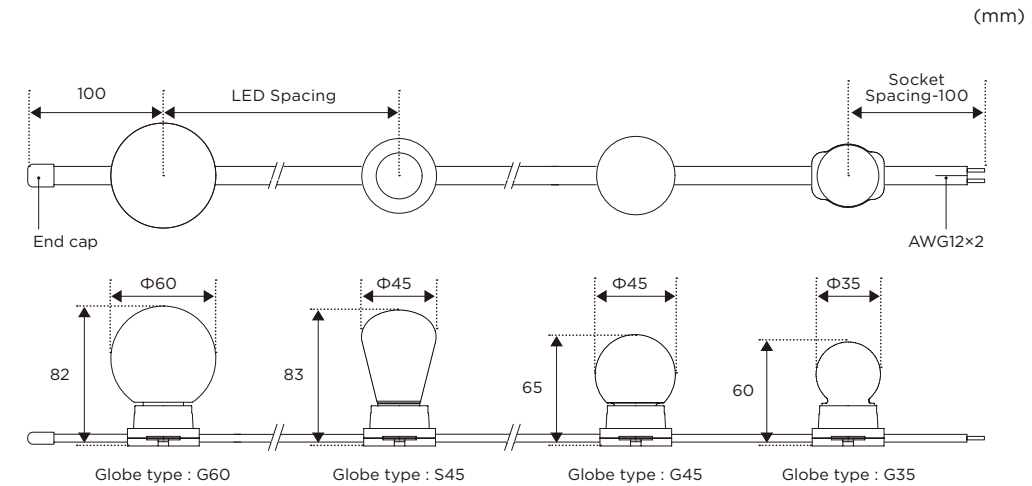
Exhibitor sockets are permanently sealed to flexible cable at on center intervals. Continuous lengths of Exhibitor with up to 120 LEDs at 300mm on center (36m) can be used in large scale applications

### Point 03 Exhibitor is wet-location listed with an IP65 rating

The Exhibitor Series uses polycarbonate globes and has been safety tested for wet-locations. The globes are weather resistant, will not crack and safe to the touch. Exhibitor fixtures have been prominently featured in theme parks worldwide.



## Specifications



## Light Sources

VI : Virtual Incandescent



Not for use with Frosted Globes

UB : Ultra Bright



## Globe Selection

Clear



G60C S45C G45C G35C

Frosted



G60F S45F G45F G35F

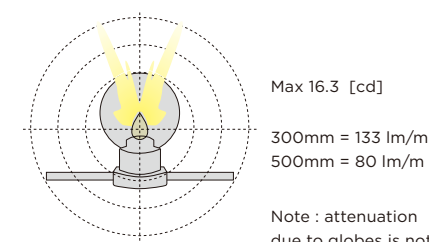
Colors



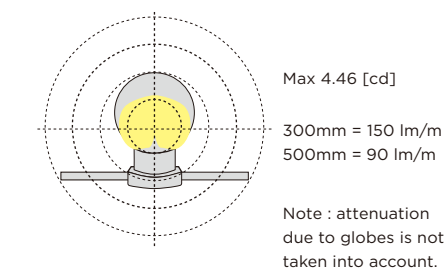
G60R Red G60G Green G60A Amber G60B Blue

## Light Distribution

EXBK-300-VI-WW-G60C  
EXBK-500-VI-WW-G60C



EXBK-300-UB-WW-G60F  
EXBK-500-UB-WW-G60F



## LED Colors, lm

VI-WW : 40 lm/LED

UB-WW : 45 lm/LED

VI-27K : 42 lm/LED

UB-27K : 48 lm/LED

VI-30K : 44 lm/LED

UB-30K : 50 lm/LED

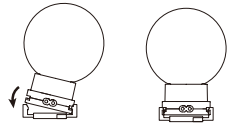
Instructions

Surface Mounting with Disks



Exhibitor Series can be surface mounted to structures using mounting disks. One disk is required for mounting each socket. The socket can be snapped into the disk first, and the entire assembly screwed in place to the structure.

1. Exhibitor fixture snaps directly into the Mounting Disk and locks in place.



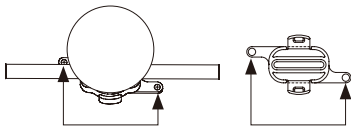
Mounting disk

EXBK-MD/5	Mounting disks
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※ 5pcs/set  
※ One Mounting disk is required for each socket.

Please check the required number of LEDs before placing an order.

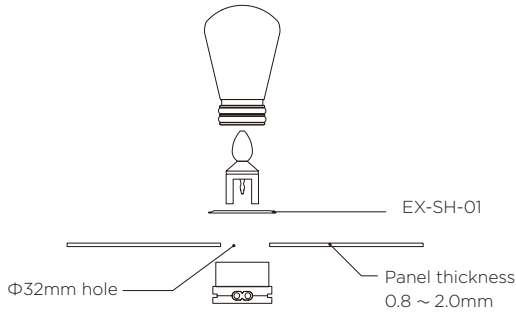
2. Mounting Disks attach with screws.



Screw holes

Panel-Extrusion Mounting with Socket Holder

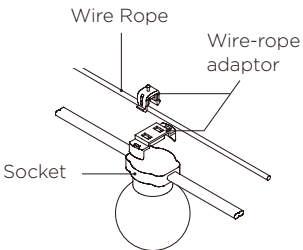
For installations to flat panels or extrusions up to 0.8 ~ 2.0mm, we offer stainless-steel socket holders. The socket assembly is inserted from below, then the socket holder is pressed in place from above.



EX-SH-01/10	Socket holders
-------------	----------------

※ 10pcs/set  
※ Socket holders are required for each LED.  
Please check the required number of LEDs before placing an order.

Festoon Mounting with Wire-rope Adaptors



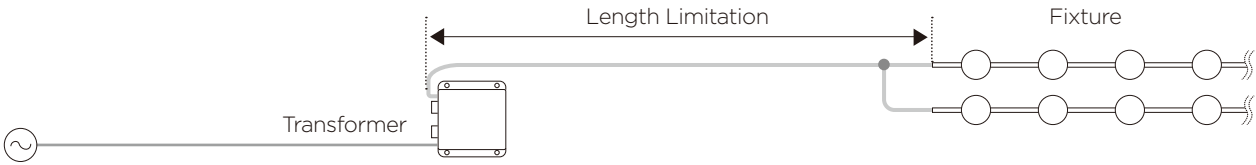
For festoon applications to a catenary cable, our wire-rope adaptors securely hold each socket in place to a 3 ~ 5mm diameter wire rope.

Wire rope and all the associated mounting hardware is not provided with the system.

EXBK-MDW/5	Wire-rope adaptors
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※ 5pcs/set  
※ A wire-rope adaptor is required for each socket.  
Please check the required number of LEDs before placing an order.

Wiring Diagram



Recommended Lead Wire Size and Length Limitation

The distance from the power supply to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Fixtures require an individual lead. If additional wire needs to be attached, refer to the recommendation in this chart.

Wire Size	Total Length
AWG14	Within 25m
AWG12	Within 44m

It is possible to connect the lighting fixtures and a remotely set power supply with an appropriate lead wire. Refer to the table for lead wire sizes and length limitation. The extension distance is a guideline distance for the fixture's maximum capacity. Depending on the type of power supply, lead wire, and number of LEDs, it may be possible to extend it further. Please contact us for more information.

⚠ PRECAUTIONS

- Do not extend the lead wire too much, as it is very dangerous.
- Please contact us if you want to extend beyond the length of the table.
- Select a cable with a capacity, according to the site conditions. Select a cable that conforms to water and weather resistance standards, according to the site environment.

Power Supplies

Exhibitor LED series operate with 24VAC magnetic transformer.

Electronic transformers may not be used.

The primary input to the transformer may be dimmed from industry standard phase-control dimmers, also referred to as triac dimmers. While most show very favorable results, there may be compatibility issues with certain makes and models.

The following guidelines should be taken into account in selecting the proper dimming device:

1. Make sure the dimmer used is suitable for use with magnetic low-voltage transformers, not electronic low-voltage transformers.
2. Some dimmers have a minimum-load requirement. Since LEDs consume so little power, this should be given serious consideration in the selection of the dimmer.
3. Some dimmers not only require a minimum load, but may not function properly at certain levels/loads because they do not interpret an LED load as they do a standard incandescent load. In such cases, some dimming companies offer a “synthetic load” device to resolve this issue. Check with the dimmer manufacturer in such cases.
4. Tokistar has evaluated a wide range of dimmers, but cannot promise perfect dimming results with every make and model on the market. Additionally, manufacturers of dimmers occasionally make changes to their specifications without notice. Some older generations of a certain model might actually work more fluidly than a newer generation.
5. If there is any question on compatibility, consult with us on a case-by-case basis. We work closely with many dimming companies, and can provide samples of our fixtures for compatibility testing if necessary.


⚠ PRECAUTIONS


1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.

4. Installation must comply with the National Electrical Code, or related applicable regulations.
5. Turn main supply to magnetic down transformer on only after all connections have been made and tested.
6. Use only appropriate magnetic down transformer.




EX SOCKET SYSTEM




OUTDOOR

24VAC

IP65

PHASE CONTROL

CRI 85

Voltage = 24VAC

Wattage = 1.4W/LED

Weight = (Refer to each item)

Main Materials = PBT, PVC & PC

Cable = AWG18 x 2 φ5.8mm (AWG18 : eq. 0.75mm<sup>2</sup>)

System Features

Point 01


The Standard is ideal for thin panel installation

Point 02

Ceiling and Panel mounted fixtures have a refined appearance


Point 03

This newly launched Cord Pendant creates a decorative canopy of light



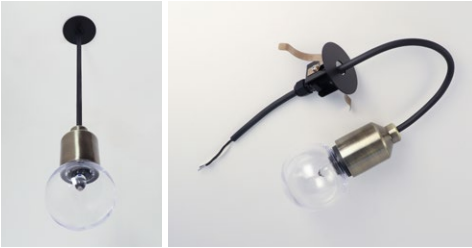
**EXSS-L**  
(Standard)

The Standard is for both outdoor and indoor use. It is ideal for installation on thin panels such as built-in fixtures, signboards (panel mounting method), and metal panels.




**EXSS-CMPM**  
(Ceiling & Panel Mounting)

Dedicated design for ceiling and panel mount applications. A small-diameter fixture trim provides a finished look.




**EXSS-CP**  
(Cord Pendant)

Exclusively designed as a Cord Pendant. The decorative mounting plate can easily be installed in ceiling applications. The socket cover has a classical, refined finish. It is possible to produce a space with a feeling of floating in indoors.  
※ Custom-made wire lengths are available. Please contact us for more information.



**Belle Vie KOHRIYAMAKAN "WELLE"**  
EXSS-CMPM/B, EX-VI-WW & EXGL-G60C  
Interior Design : THE WHOLEDISIGN INC.  
Lighting Design : Mantle Inc.



How to Order

A system is comprised of "Lighting Fixtures" + "LEDs & Globes" + "Options". Please follow the 3 steps below.

Step 1

Lighting Fixtures

Step 2

LEDs

Globes

Step 3

Option

Step 1

Select Lighting Fixtures



For both Outdoors and Indoors

Standard

Weight = L300 : 70g  
L1500 : 80g

EXSS-L

Wire length  
300 : 300mm  
1500 : 1500mm



For Indoors

Cord Pendant

Material = Mounting plate & Socket cover : Steel  
Weight = 160g

EXSS-CP/B-WT/B

(Black Wire / Black Mounting Plate / Black-painted Socket cover)

EXSSW-CP/W-WT/W

(White Wire / White Mounting Plate / White-painted Socket cover)

EXSS-CP/B-WT/A

(Black Wire / Black Mounting Plate / Brass-plated Socket cover)

※ The wire length is 1500mm.  
※ Custom-made wire lengths are available.  
※ The Socket cover can also be configured in combination with the Standard.

EXSS-CP/B-WT/B

EXSSW-CP/W-WT/W

EXSS-CP/B-WT/A

Cutout Φ35  
Mounting plate  
Socket cover



For both Outdoors and Indoors

Ceiling & Panel Mounting

Material = Trim : Stainless steel  
Weight = 170g

EXSS-CMPM

Trim color  
B : Black  
W : White



EXSS-CMPM/B

EXSS-CMPM/W

Cutout Φ50  
Trim

7

8

## Step 2 Select LEDs and Globes

We recommend using VI LEDs with Clear globes and UB LEDs with Frosted globes.

EX-□□-□□

### LED Color

VI-WW : 2400K  
UB-WW : 2400K  
VI-27K : 2700K  
UB-27K : 2700K  
VI-30K : 3000K  
UB-30K : 3000K

EXGL-□□□□

### Globe Style & Color

G60C : Φ60 Clear  
G60F : Φ60 Frosted  
S45C : Φ45 Clear  
S45F : Φ45 Frosted  
G45C : Φ45 Clear  
G45F : Φ45 Frosted  
G35C : Φ35 Clear  
G35F : Φ35 Frosted

### Light Sources

VI : Virtual Incandescent



Voltage : 24VAC  
Wattage : 1.4W/LED

UB : Ultra Bright



Voltage : 24VAC  
Wattage : 1.4W/LED

### Globes

Clear



G60C S45C G45C G35C

Frosted



G60F S45F G45F G35F

## Step 3 Options

EXGL-G45_	Replacement globes
EXGL-G60_	Replacement globes

Please specify the symbol of \_  
C : Clear F : Frosted

### Socket holders for the Standard (for thin panel)

EXSS-SH	Socket holder (panel thickness 0.8~6.0mm)
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※ Required for the number of LEDs.

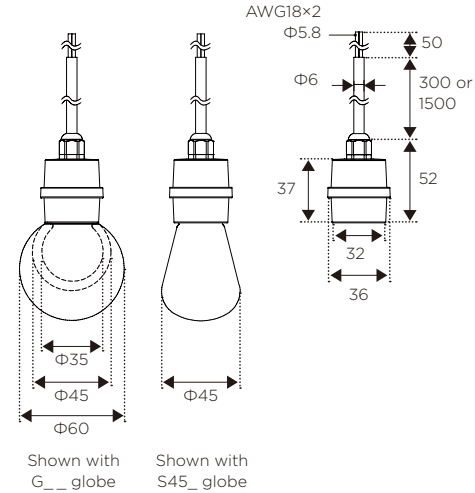
The mounting parts require when installing the Standard lighting fixture (EXSS-L\_) on a thin panel.

If the panel thickness exceeds the above, select the Ceiling & Panel Mounting lighting fixture (EXSS-CMPM/\_).

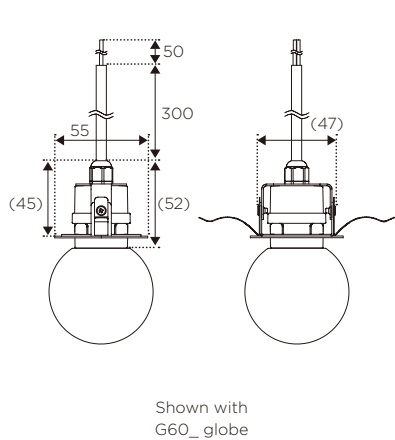
## Specifications

(mm)

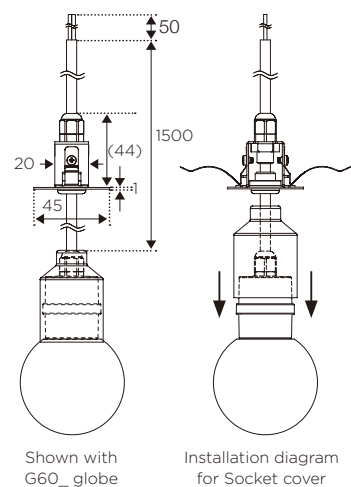
### Standard



### Ceiling & Panel Mounting

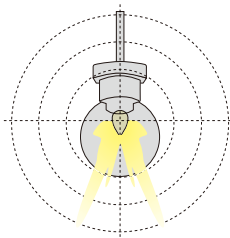


### Cord Pendant



## Light Distribution

EXSS-L300 / EX-VI-WW / EXGL-G60C

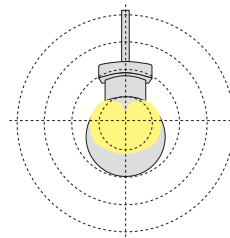


Max 16.3 [cd]

300mm = 133 lm/m  
500mm = 80 lm/m

Note : attenuation due to globes is not taken into account.

EXSS-L300 / EX-UB-WW / EXGL-G60F



Max 4.46 [cd]

300mm = 150 lm/m  
500mm = 90 lm/m

Note : attenuation due to globes is not taken into account.

## LED Colors, lm

VI-WW : 40 lm/LED

UB-WW : 45 lm/LED

VI-27K : 42 lm/LED

UB-27K : 48 lm/LED

VI-30K : 44 lm/LED

UB-30K : 50 lm/LED

## Instructions

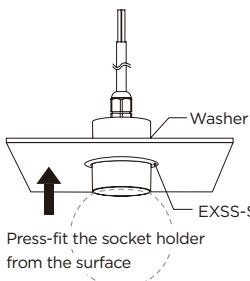
### The Standard for panel mounting installation

The socket holders are press-fit fastening parts. Provide a 32mm ø hole, then insert the socket. Use the socket holders when mounting in thin panels.

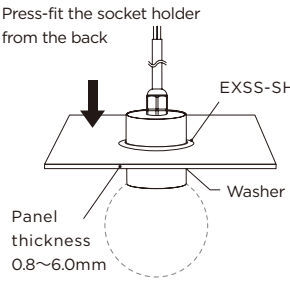
EXSS-SH	Socket holder
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※ 1pc/unit

### When press-fitting from the surface

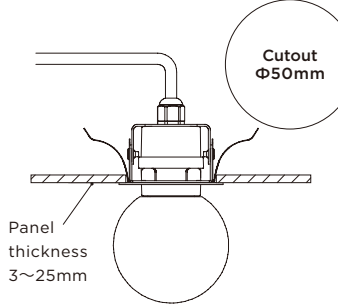


### When press-fitting from the back



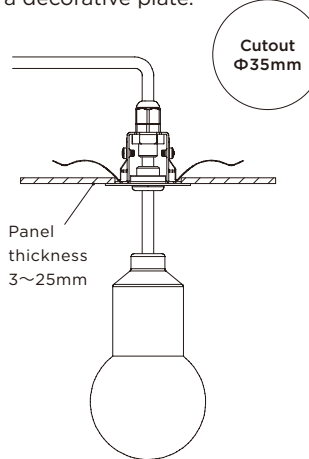
### Ceiling & Panel Mounting

Panel thickness can be from 3mm, up to 25mm with 2 pasted boards.

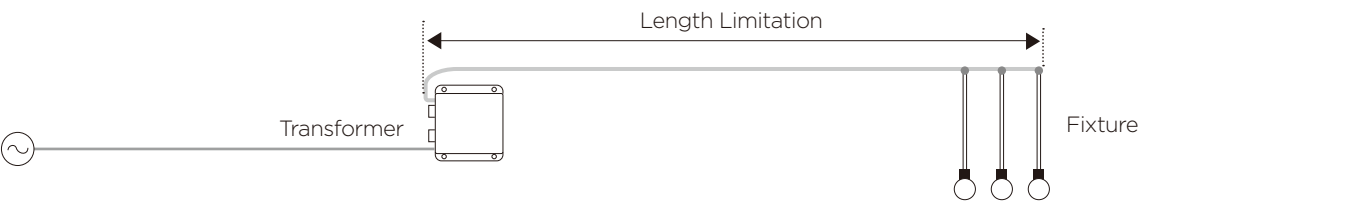


### Cord Pendant

This Cord Pendant is inserted into the 35mm Φ ceiling opening. The flange becomes a decorative plate.



Wiring Diagram



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