

# TOKISTAR

PRODUCT GUIDE

## GRADIENT HB & I'LINKS



2F JS Progre, 4-1-23, Heiwajima, Ota-ku, Tokyo 143-0006, Japan

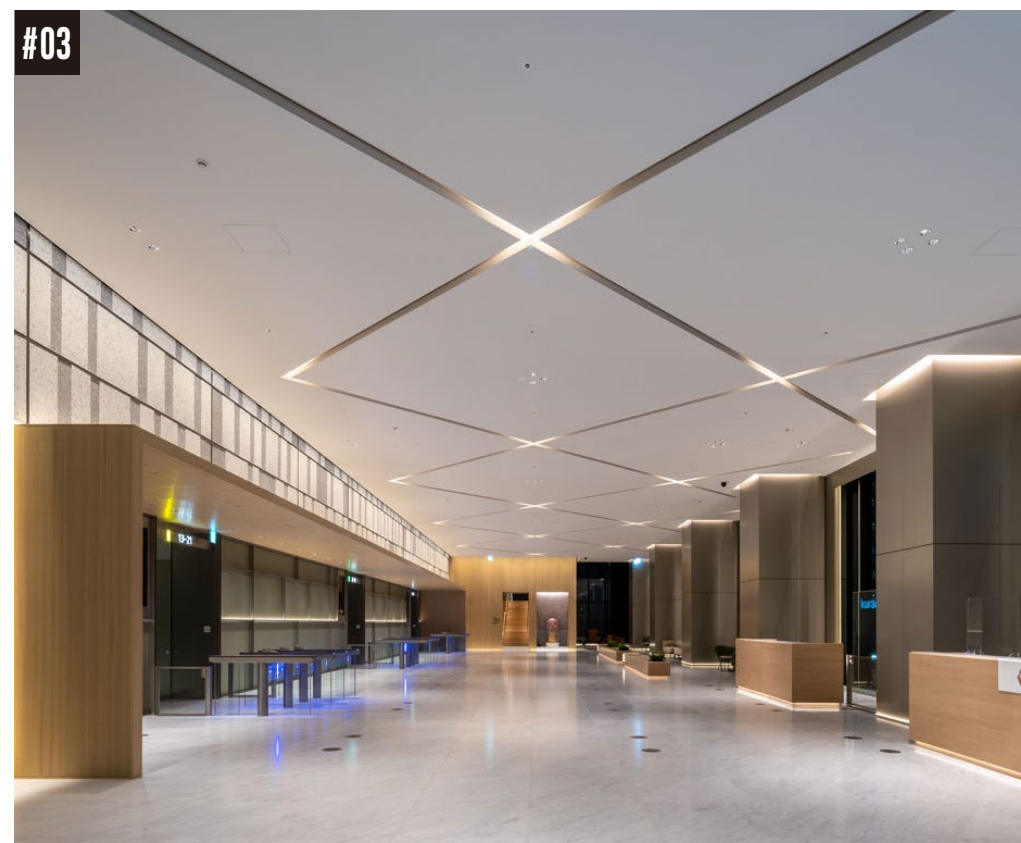
TEL : +81-3-5763-6121 FAX : +81-3-5763-6130

[www.toki.co.jp/tokistar/en/](http://www.toki.co.jp/tokistar/en/)

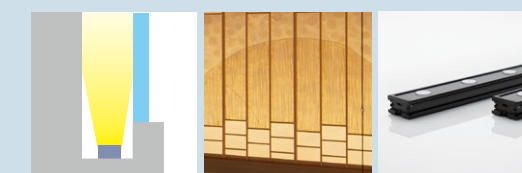
### PRECAUTIONS

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 all applicable codes.
5. Turn main supply to LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.





## #01 Yunokawa Onsen Umi to Akari



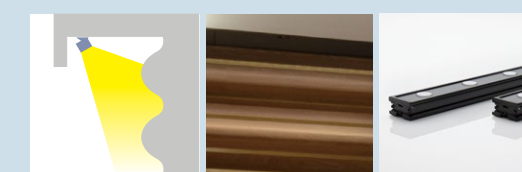
### GRADIENT HB

GRHB-60-2700K-15D

Interior Design : Ishii Architect & Associates  
Lighting Design : sola associates  
Photograph : Forward Stroke inc.

▶▶ Page 3-6

## #02 SHISEIDO THE STORE



### GRADIENT HB

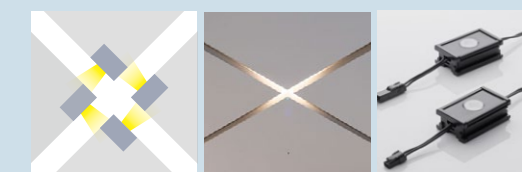
GRHB-75-3500K-15D

GRHB-75-3500K-SP + Parallel louver

Design : nendo + onndo  
Lighting Design : L・GROW lighting planning room

▶▶ Page 3-6

## #03 Tokiwabashi Tower



### I'LINKS

ILS-30K-15D  
(Honeycomb louver & custom magnet)

Design : Mitsubishi Jisho Design Inc.  
Lighting Design : sola associates  
Photograph : Kawasumi・Kobayashi Kenji  
Photograph Office

▶▶ Page 9-12



# GRADIENT HB



Current = 700mA  
Wattage = 2.1W/LED  
Weight = 900g/m  
Main Materials = Aluminum & PC  
Lead cable = AWG18 x 2 L=0.2m

GRHB-□□□-□□□□K-□□

## LED Spacing

60 : 60mm  
75 : 75mm  
100: 100mm

## LED Color

2700K  
3000K  
3500K  
4000K

## Beam Angle

SP : Spread  
15D: 15°

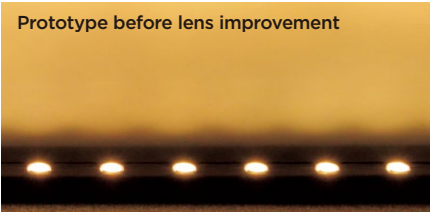
Catalog#	Power	LED Q'ty/run
GRHB-60-__-__	35.0W/m	4 to 17LEDs
GRHB-75-__-__	28.0W/m	
GRHB-100-__-__	21.0W/m	

Optional Mounting Brackets are absolute necessity for installation.  
Please choose from page 5.

## System Features

Point  
01

### Beautiful illumination from the beginning

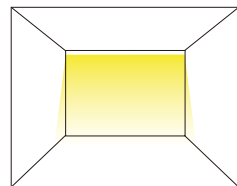


For optimum results, and to minimize light scallop we recommend positioning fixtures the same distance from the reflecting surface as the spacing between the LEDs.

Point  
02

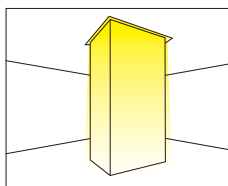
### A variety of options designed toward meeting specific lighting objectives

#### Fixed Brackets



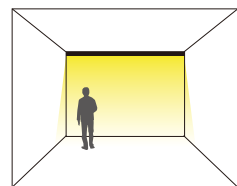
Positioning a fixture behind a cornice will keep it hidden from view.

#### Fixed Brackets + Parallel Louver



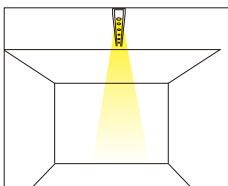
Parallel louvers block light from side viewing angles.

#### Adjustable Brackets + Glare Guards



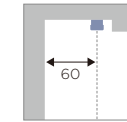
The degree of rotation is easy to set with adjustable brackets for precise focusing.

#### Fixed Brackets + Honeycomb Louver

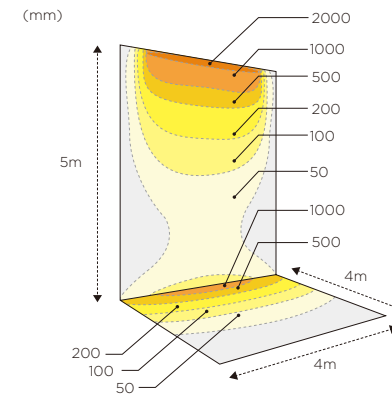


GHRB recessed in the ceiling.

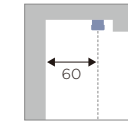
## Light Distribution



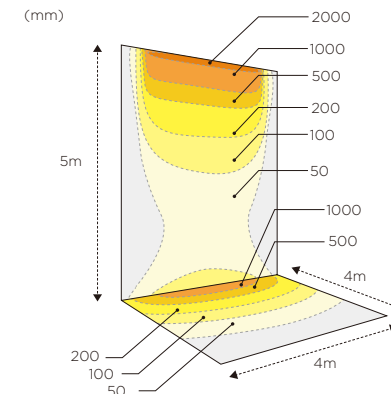
GRHB-60-3000K-SP  
Lens type : Spread / 40°x15°



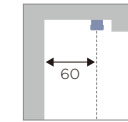
[ lx ]



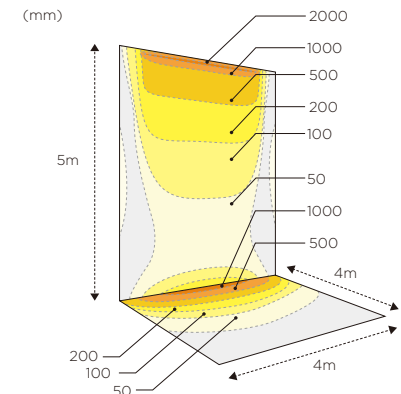
GRHB-60-3000K-15D  
Lens type : 15°



[ lx ]



GRHB-60-3000K-08D  
Lens type : 8° (custom)



[ lx ]

## Beam Angle

SP : Spread (40°x15°)

15D : 15°

08D : 8°( custom )

25D : 25°( custom )

35D : 35°( custom )

## LED Color, lm

2700K : 200lm / LED

3000K : 220lm / LED

3500K : 220lm / LED

4000K : 220lm / LED

## Lumen value per meter

LED Color \ Pitch	60mm	75mm	100mm
2700K	3333	2666	2000
3000K	3666	2933	2200
3500K	3666	2933	2200
4000K	3666	2933	2200

(lm)

GRHB 2CH tunable white type is available as a custom-made product.

※LED Spacing is 50mm.  
For further details, please contact us.



Parallel Louvers (above),  
Honeycomb Louvers  
(below).

These optional louvers  
can be installed after  
installation.

## Mounting Brackets



### Fixed Bracket

Fixture lengths shorter than 1.5m require 2 brackets.

GRHB-FIXB2    Fixed Bracket 2pcs

Fixtures exceeding 1.5m require 3 brackets.  
(at 100mm LED spacing 16 pcs or more)

GRHB-FIXB3    Fixed Bracket 3pcs



### Adjustable Bracket

Fixture lengths shorter than 1.5m require 2 brackets.

GRHB-ADJB2    Adjustable Bracket 2pcs

Fixtures exceeding 1.5m require 3 brackets.  
(at 100mm LED spacing 16 pcs or more)

GRHB-ADJB3    Adjustable Bracket 3pcs

## Optional Louvers



### Parallel Louver

Parallel louvers block light from front and side viewing angles. They can be used with fixed or adjustable brackets.

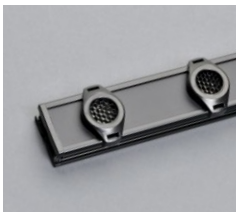
GRHB-PLVR    Parallel Louver



### Glare Guard Louver

Glare Guards slide and lock onto the fixture, preventing glare from many angles. They are for use with adjustable brackets only.

GRHB-GLVR    Glare Guard Louver



### Honeycomb Louver

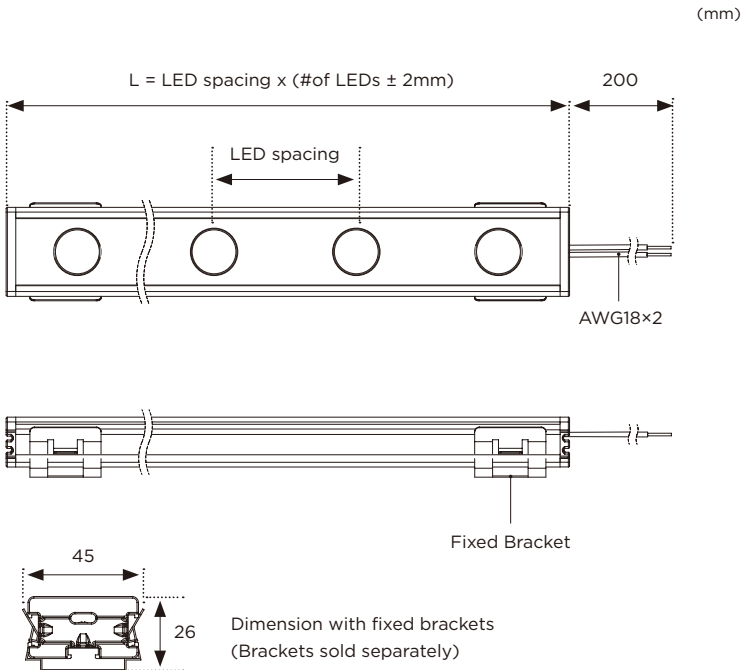
This louver adds very little to the fixture's overall profile and eliminates glare from many angles. It can be used with fixed or adjustable brackets.

GRHB-HLVR    Honeycomb Louver

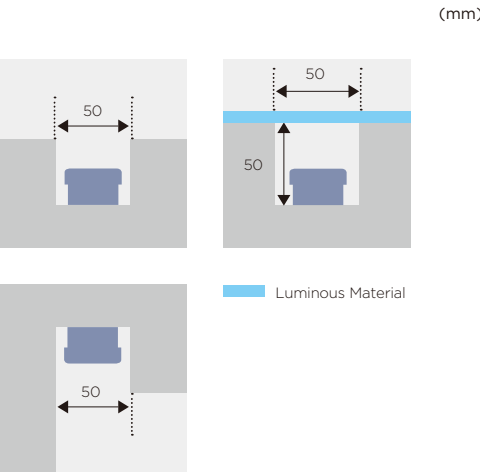
	Parallel Louver GRHB-PLVR	Honeycomb Louver GRHB-HLVR	Glare Guard Louver GRHB-GLVR
<b>Fixed Bracket</b>  (mm)	 <b>Fixed Bracket +Parallel Louver</b> (mm)	 <b>Fixed Bracket +Honeycomb Louver</b> (mm)	
<b>Adjustable Bracket</b>  (mm)	 <b>Adjustable Bracket +Parallel Louver</b> (mm)	 <b>Adjustable Bracket +Honeycomb Louver</b> (mm)	 <b>Adjustable Bracket +Glare Guard Louver</b> (mm)

Different louvers cannot be used together. Select the one most appropriate for the application.  
Glare Guard Louvers cannot be used with fixed brackets.

## Specifications



## Minimum Space Requirements



※For proper air flow, the dimensions indicated are required to prevent heat build up. Please keep these guidelines in mind when using various optional parts.  
Other considerations are lighting effect and maintenance.

## Instructions

### Fixed Bracket Mounting



After screwing brackets into the mounting position, insert the fixture into the brackets. Glare Guards cannot be combined with fixed brackets.

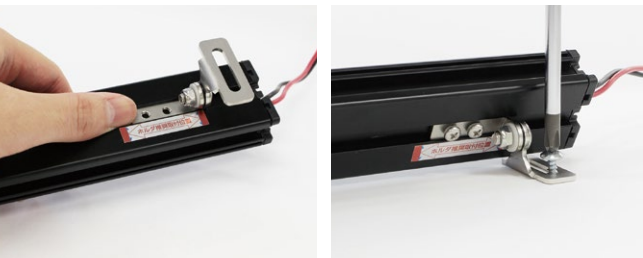
### Glare Guard Louver Mounting



Slide Glare Guards into the groove on the side and screw in place. Attach Glare Guards before installing the fixture.

※Can not be combined with fixed brackets.

### Adjustable Bracket Mounting



Slide the brackets to one of the specified positions of the lighting fixture and screws them on. After attaching the brackets, fix them by screwing them to the construction surface. Adjustable range is ±55°.

### Parallel • Honeycomb Louver Mounting

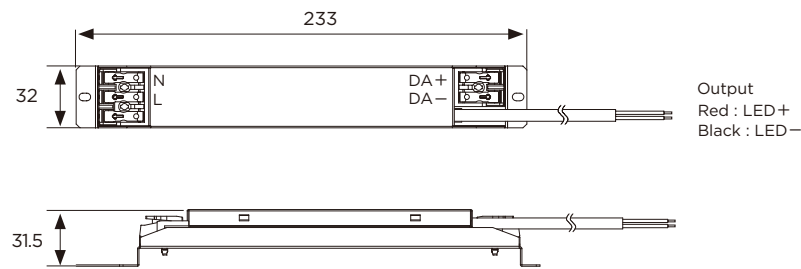


Be sure to attach optional louvers directly over the center of the LED lens. These items can be attached after the fixture has been installed.

## Power Supply

# LDCC-15W-700DALI

(mm)



## Specifications

Input Range : 100-240VAC  
Frequency Range : 50/60 Hz  
Output : 2.5-15VDC  
Current : 700mA  
Max. Output Power : 15W(MAX)  
Protection : Overload, Overcurrent, Short Circuit  
Operating Temperature : 0°C to +40°C

### Mechanical Specifications

Dimensions : W 32 x L 233 x H 31.5 mm  
Weight : 220g

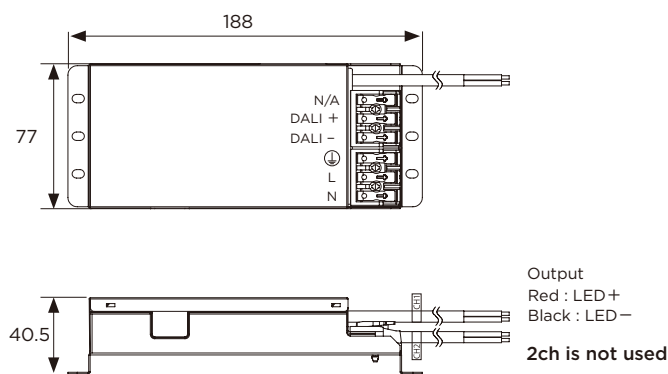
### LED Capacity

1-4 GRHB (2.1 Watt) LEDs



**LDCC-50W-700DALI/1ch**

(mm)



## Specifications

Input Range : 100-240VAC  
Frequency Range : 50/60 Hz  
Output : 8-55VDC  
Current : 700mA  
Max. Output Power : 50W(MAX)  
Protection : Overload, Overcurrent, Short Circuit  
Operating Temperature : 0°C to +40°C

### Mechanical Specifications

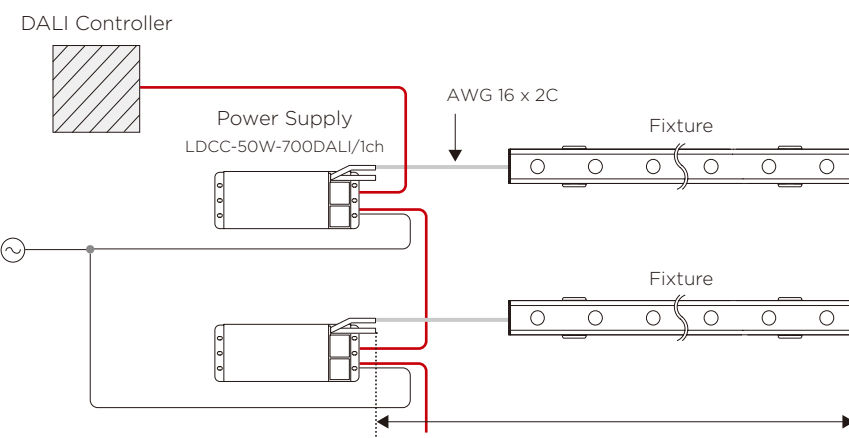
Dimensions : W 77 x L 188 x H 40.5 mm  
Weight : 460g

### LED Capacity

3-17 GRHB (2.1 Watt) LEDs




### Wiring Diagram




The total wiring length must not exceed 40 meters when using this power supply.

This total length refers to the distance from the output (secondary side) of the power supply to the last fixture, and includes both the dedicated OLS lead wire and any on-site extension cables(AWG 16 x 2C).

I'LINKS





INDOOR

700mA

DALI

CRI85

Current = 700mA  
Wattage = 2.1W/LED  
Weight = 50g  
Main Materials = Aluminum & PC  
Lead cable = AWG18 x 2

ILS-□□K-□□

LED Color

27K : 2700K  
30K : 3000K  
35K : 3500K  
40K : 4000K

Beam Angle

SP : Spread  
15D: 15°  
08D: 8°

Catalog#	Power	LED Q'ty/run
ILS-__K-__	2.1W	1 to 17LEDs

Optional Mounting Brackets are an absolute necessity for installation.  
Please choose from page 11.

ILS Lead Cable 0.2m & End Connector are essential.  
Please confirm at page 12.

System Features

Point 01

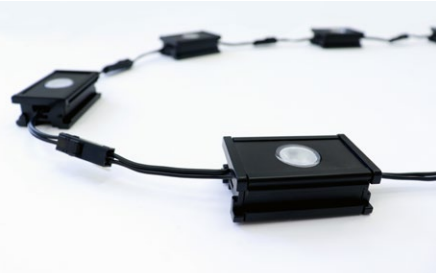
The system is ideal for architectural details of all shapes and sizes.




Ultra-compact, with a width of 60 mm and a height of 26 mm (including the fixed bracket).  
It can be used in confined areas and deliver efficient light where needed.

Point 02

Various spatial effects are possible depending on your design.



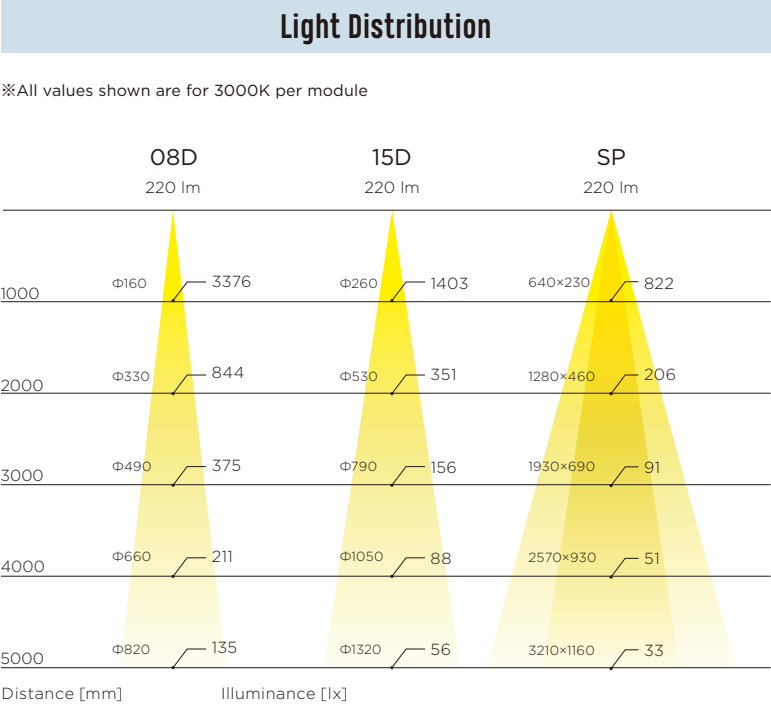
I'Links uses the same LED driver and distribution method as GRADIENT HB, making them extremely compatible.  
Flexible wires between modules make it extremely versatile.  
Irregular configurations may be accommodated by using ILS Extension Cables.



ILS Extension Cable ( 500, 1000 or 3000mm)

Beam Angle	
SP : Spread ( 40°×15° )	25D : 25° ( custom )
15D : 15°	35D : 35° ( custom )
08D : 8°	


LED Color, lm	
2700K : 200lm / LED	3500K : 220lm / LED
3000K : 220lm / LED	4000K : 220lm / LED




Point 03

Wide variety of options


Louvers can be selected according to the situation.



Parallel Louver



Honeycomb Louver



Glare Guard Louver



Mounting Brackets



**Fixed Bracket**  
One bracket is required per module.

ILS-FIXB1	Fixed Bracket
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**Adjustable Bracket**  
One bracket is required per module.

ILS-ADJB1	Adjustable Bracket
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Optional Louvers



**Parallel Louver**  
Parallel louvers block light from front and side viewing angles.

GRHB-PLVR	Parallel Louver
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**Glare Guard Louver**  
Glare Guards slide and lock onto the fixture, preventing glare from many angles.

ILS-GLVR	Glare Guard Louver
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**Honeycomb Louver**  
This louver adds very little to the fixture's overall profile and eliminates glare from many angles.

GRHB-HLVR	Honeycomb Louver
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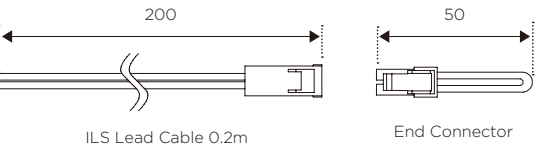
	Parallel Louver GRHB-PLVR	Honeycomb Louver GRHB-HLVR	Glare Guard Louver ILS-GLVR
<b>Fixed Bracket</b>  (mm)	 <b>Fixed Bracket +Parallel Louver</b> (mm)	 <b>Fixed Bracket +Honeycomb Louver</b> (mm)	 <b>Fixed Bracket +Glare Guard Louver</b> (mm)
<b>Adjustable Bracket</b>  (mm)	 <b>Adjustable Bracket +Parallel Louver</b> (mm)	 <b>Adjustable Bracket +Honeycomb Louver</b> (mm)	 <b>Adjustable Bracket +Glare Guard Louver</b> (mm)

Different louvers cannot be used together. Select the one most appropriate for the application.

ILS Connectors

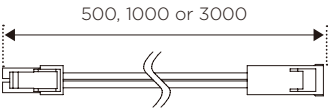
(mm)

ILS-CON-0.2m/EC **REQUIRED**



ILS-CON-0.2m/EC	ILS Lead Cable 0.2m & End Connector
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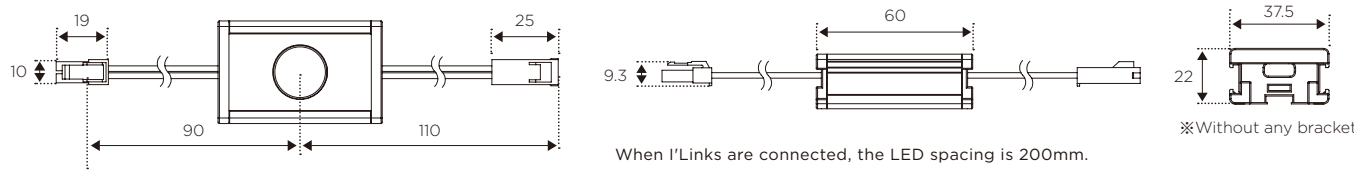
ILS-EXT-0.5m  
ILS-EXT-1m  
ILS-EXT-3m



ILS-EXT-0.5m	ILS Extension Cable 0.5m
ILS-EXT-1m	ILS Extension Cable 1m
ILS-EXT-3m	ILS Extension Cable 3m

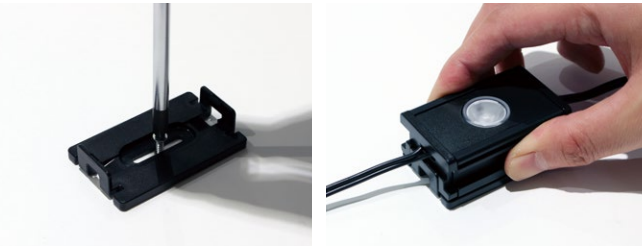
Specifications

(mm)



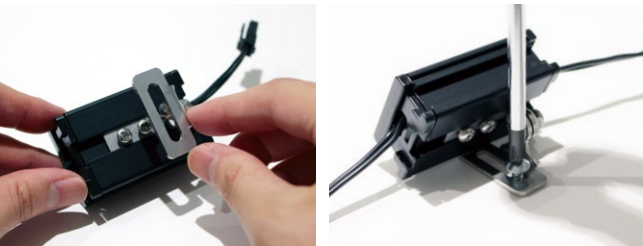
Instructions

Fixed Bracket Mounting



After screwing brackets into the mounting position, insert the fixture into the bracket.

Adjustable Bracket Mounting



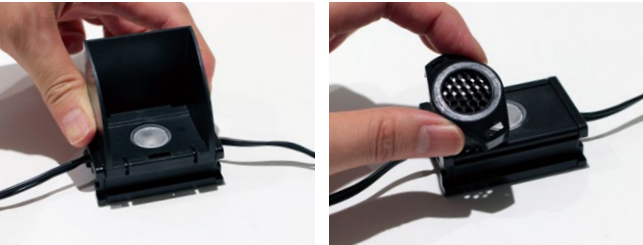
Slide the bracket to one of the specified positions of the lighting fixture and screw it on.  
After attaching the bracket, fix it by screwing it to the construction surface. Adjustable range is  $\pm 55^\circ$ .

Glare Guard Louver Mounting



Slide Glare Guards into the groove on the side and screw in place. Attach Glare Guards before installing the fixture.

Parallel • Honeycomb Louver Mounting

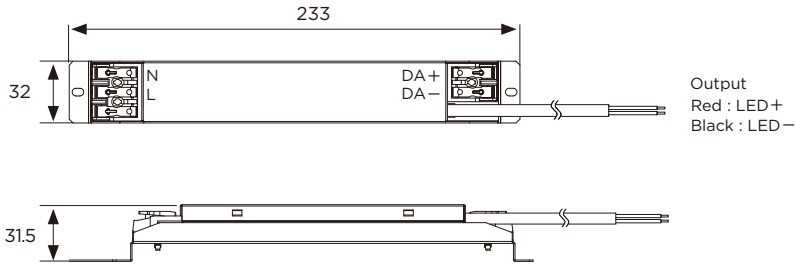


Be sure to attach optional louvers directly over the center of the LED lens. These items can be attached after the fixture has been installed.

# Power Supply

## LDCC-15W-700DALI

(mm)



### Specifications

Input Range : 100-240VAC  
Frequency Range : 50/60 Hz  
Output : 2.5-15VDC  
Current : 700mA  
Max. Output Power : 15W(MAX)  
Protection : Overload, Overcurrent, Short Circuit  
Operating Temperature : 0°C to +40°C

### Mechanical Specifications

Dimensions : W 32 x L 233 x H 31.5 mm  
Weight : 220g

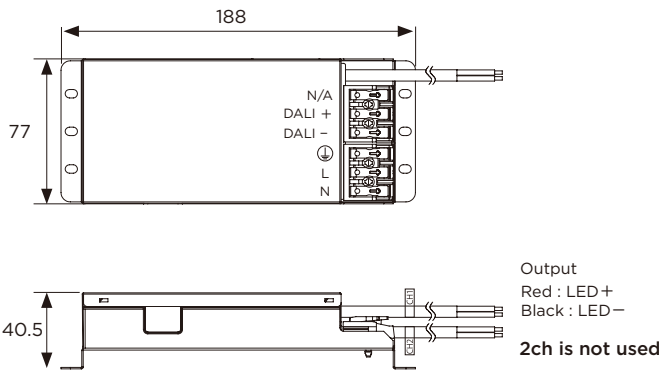
### LED Capacity

1-4 ILS (2.1 Watt) LEDs



## LDCC-50W-700DALI/1ch

(mm)



### Specifications

Input Range : 100-240VAC  
Frequency Range : 50/60 Hz  
Output : 8-55VDC  
Current : 700mA  
Max. Output Power : 50W(MAX)  
Protection : Overload, Overcurrent, Short Circuit  
Operating Temperature : 0°C to +40°C

### Mechanical Specifications

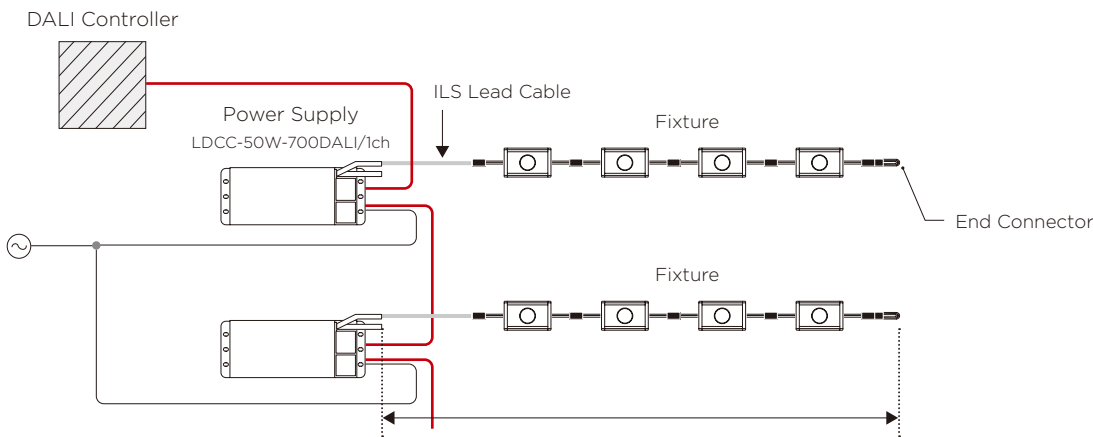
Dimensions : W 77 x L 188 x H 40.5 mm  
Weight : 460g

### LED Capacity

3-17 ILS (2.1 Watt) LEDs



# Wiring Diagram



**The total wiring length must not exceed 40 meters when using this power supply.**

This total length refers to the distance from the output (secondary side) of the power supply to the last fixture, and includes both the dedicated OLS lead wire and any on-site extension cables (AWG 16 x 2C).