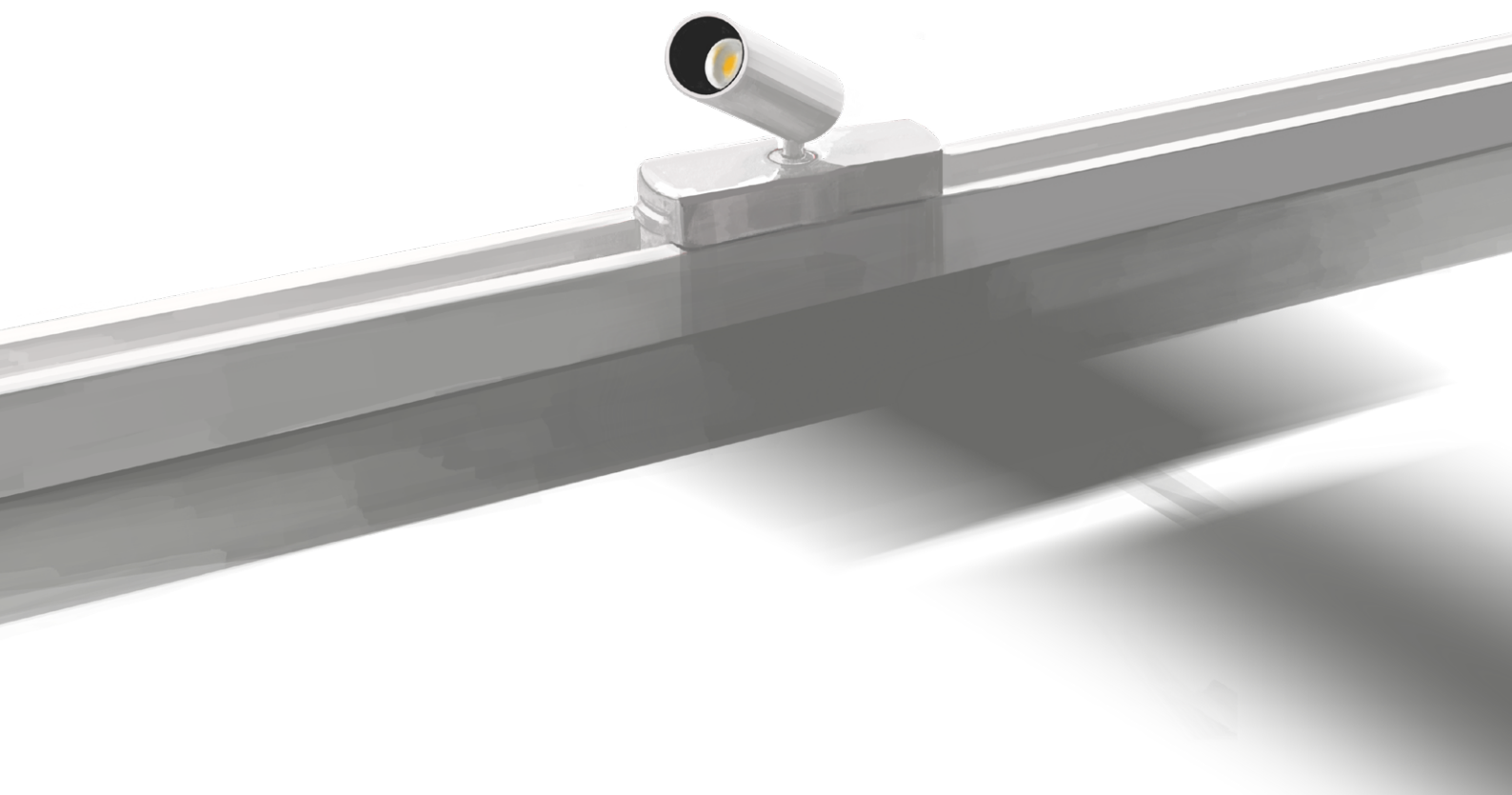


TOKISTAR

PRODUCT GUIDE

MICRO SERIES

MICRO DOWNLIGHT
MICRO READING DOWNLIGHT
MICRO READING LIGHT "PITAT"
MICRO FOOTLIGHT
MICRO PINHOLE DOWNLIGHT
MICRO UP LIGHT
MICRO TRACKLIGHT
MICRO LIGHT CANNON (Track)
MICRO LIGHT CANNON (Recessed)
28 SPOTLIGHT (Recessed)
MICRO SPOTLIGHT
ORBIT STAND
MICRO SPOTLIGHT OUTDOOR



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/



MICRO DOWNLIGHT Standard & Square

- Product information ►► Page 3-6
- Power supplies & Dimming ►► Page 39-40



MICRO READING DOWNLIGHT

- Product information & Power supply ►► Page 7-8



MICRO READING LIGHT "PITAT"

- Product information & Power supply ►► Page 9-10



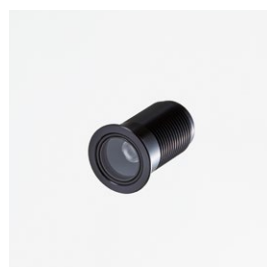
MICRO FOOTLIGHT

- Product information ►► Page 11-12
- Power supplies & Dimming ►► Page 41-42



MICRO PINHOLE DOWNLIGHT

- Product information ►► Page 13-14
- Power supplies & Dimming ►► Page 43-44



MICRO UP LIGHT

- Product information ►► Page 15-16
- Power supplies & Dimming ►► Page 39-40



MICRO TRACKLIGHT

- Product information ►► Page 17-18
- Power supplies & Dimming ►► Page 39-40



MICRO LIGHT CANNON (Track)

- Product information ►► Page 19-20
- Power supplies & Dimming ►► Page 39-40



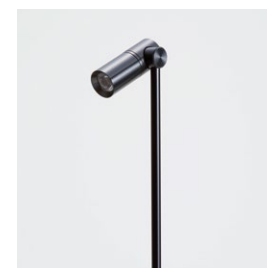
MICRO LIGHT CANNON (Recessed)

- Product information ►► Page 21-22
- Power supplies & Dimming ►► Page 39-40



28 SPOTLIGHT (Recessed)

- Product information ►► Page 23-24
- Power supplies & Dimming ►► Page 45



MICRO SPOTLIGHT

- Product information ►► Page 25-26
- Power supplies & Dimming ►► Page 46



ORBIT STAND

- Product information ►► Page 27-30
- Power supplies & Dimming ►► Page 47-48



MICRO SPOTLIGHT OUTDOOR

- Product information ►► Page 31-36
- Power supplies & Dimming ►► Page 49-50

MICRO DOWNLIGHT Standard



INDOOR

24VDC
0-10V / 1-10V

24VDC
DMX

CRI85

CRI95

Voltage = 24VDC
Wattage = 2.6W
Main Materials = Aluminum & PMMA
Weight = 50g (Main unit)
100g (incl.Control Circuit)
Glare-cut Angle = 35°

MDL02-□□K-□□D-□

LED Color		Beam Angle	Module Color
CRI85	CRI95	16D : 16°	B : Black
27K : 2700K	HC27K	24D : 24°	S : Silver
30K : 3000K	HC30K	30D : 30°	W : White
35K : 3500K	HC35K		
40K : 4000K	HC40K		
50K : 5000K	HC50K		

MICRO DOWNLIGHT Square



INDOOR

24VDC
0-10V / 1-10V

24VDC
DMX

CRI85

CRI95

Voltage = 24VDC
Wattage = 2.6W
Main Materials = Aluminum & PMMA
Weight = 50g (Main unit)
100g (incl.Control Circuit)
Glare-cut Angle = 35°

MDS01-□□K-□□D-□

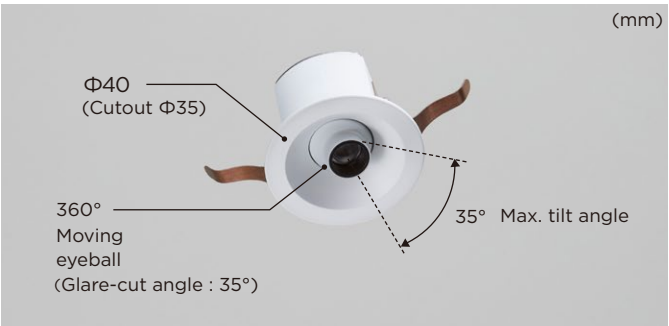
LED Color		Beam Angle	Module Color
CRI85	CRI95	16D : 16°	B : Black
27K : 2700K	HC27K	24D : 24°	W : White
30K : 3000K	HC30K	30D : 30°	
35K : 3500K	HC35K		
40K : 4000K	HC40K		
50K : 5000K	HC50K		



The SG Club
MD01-2200K-30D-B-GCH (Custom color temp.)
Interior design : THE WHOLEDISIGN INC.
Lighting design : Lightmoment Inc.

System Features

Point 01 Minimal size,
Powerful performance



These Micro fixtures discreetly blend into any setting. Pivoting eyeballs in the housing can rotate 35° in all directions.

Point 02 Increased light output expands
design possibilities



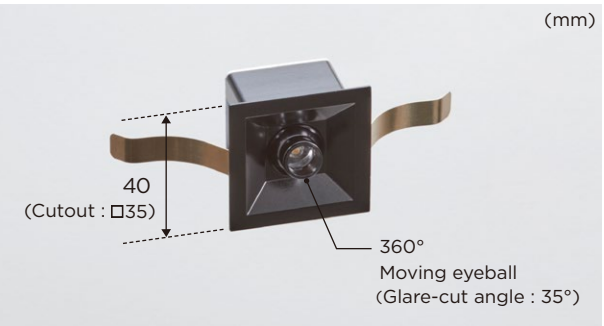
MITSUBISHI ESTATE HOME
Komazawa Stage 1 Home Gallery

MDL01-27K-30D-B
Design : MITSUBISHI ESTATE HOME CO.,Ltd.

The light intensity has been increased 140% in comparison to previous fixtures while maintaining the same size. This means it can not only be used for lighting objects, it can also be used as a ceiling fixture in restaurants.

High color rendering versions are ideal for use in art galleries and museums.

Point 03 In line use is unique to
the square shape



The new "square type" Micro Downlight is suitable for use in luxurious hotels as well as solemn Japanese venues. Choose the square or round fixtures based on your design needs.



The true value and beauty of the square design is the clean appearance when 2 or 3 are used in line.

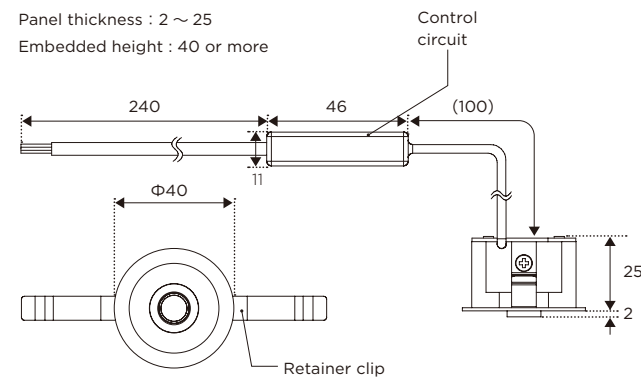
Recommended uses for this series

1. Incorporation into shelves, cabinetry and display cases
2. Restaurants and bars with lower ambient light levels
3. Hotel guest room lights and reading lights

Specifications

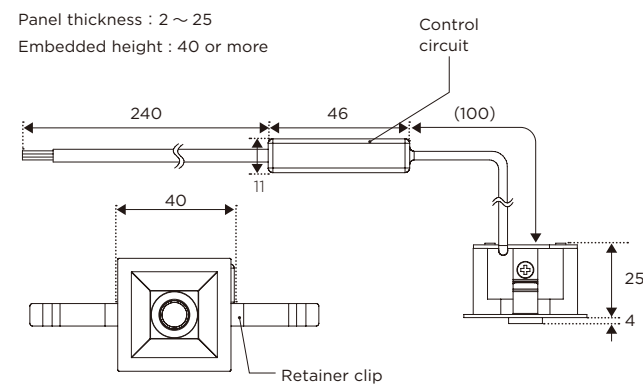
Standard

Cutout : $\Phi 35$
Panel thickness : 2 ~ 25
Embedded height : 40 or more



Square

Cutout : $\square 35$
Panel thickness : 2 ~ 25
Embedded height : 40 or more



(mm)

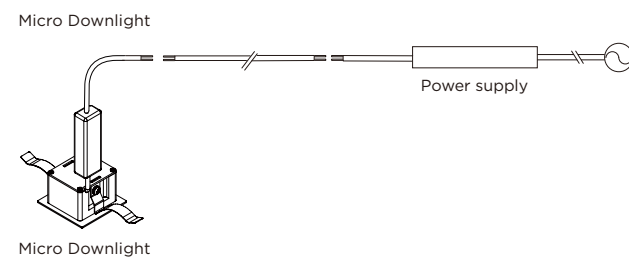
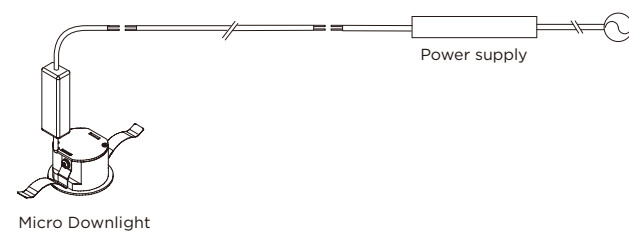
Light Distribution

All values shown are for 3000K modules ※The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	100 lm (77 lm)	100 lm (77 lm)	82 lm (63 lm)
500	$\Phi 140$ 2451(1887)	$\Phi 230$ 1419(1092)	$\Phi 270$ 789(606)
1000	$\Phi 290$ 613(472)	$\Phi 460$ 355(273)	$\Phi 550$ 197(152)
1500	$\Phi 430$ 272(210)	$\Phi 690$ 158(121)	$\Phi 820$ 88(67)
2000	$\Phi 580$ 153(118)	$\Phi 920$ 89(68)	$\Phi 1090$ 49(38)
2500	$\Phi 720$ 98(75)	$\Phi 1150$ 57(44)	$\Phi 1370$ 32(24)
	Distance [mm]	Illuminance [lx]	

Product Components

Micro Downlight requires power supplies.

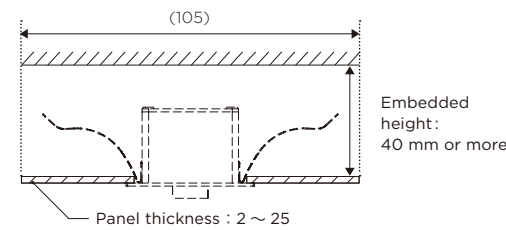


No longer than AWG20×3C 50m

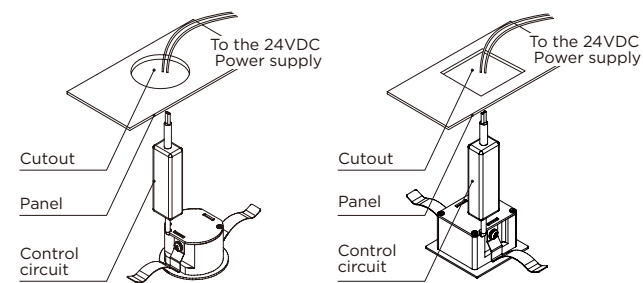
Installation

The power supply cannot be installed through the cutout ($\Phi 35$ / $\square 35$)

(mm)



No longer than AWG20×3C 50m



CIEL

MDL02-30K-16D-B
Design :
Soeda and Associates Inc



yóusuke

MDS01-HC27K-30D-B
Design :
Masaru Suto Architect Atelier
Construction :
k's company

Refer to Page 39-40 for the power supplies and dimming of Micro Downlight.

MICRO READING DOWNLIGHT



Input = 100-240VAC 50/60Hz 0.1A
Wattage = 3.2W
Main Materials = Aluminum, PMMA & PBT
Weight = 84g
Glare-cut Angle = 45°

MRD01-□□K-W-NC

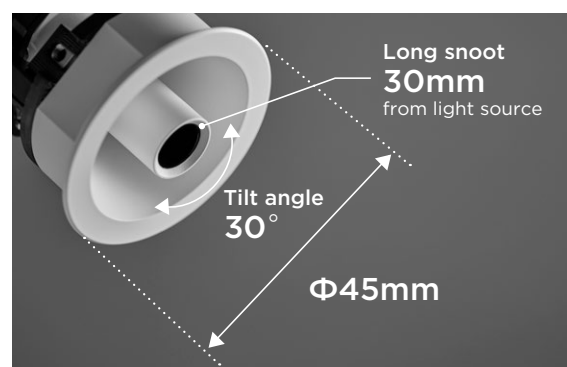
LED Color
27K : 2700K
30K : 3000K

Fixture Color
W : White

System Features

Point
01

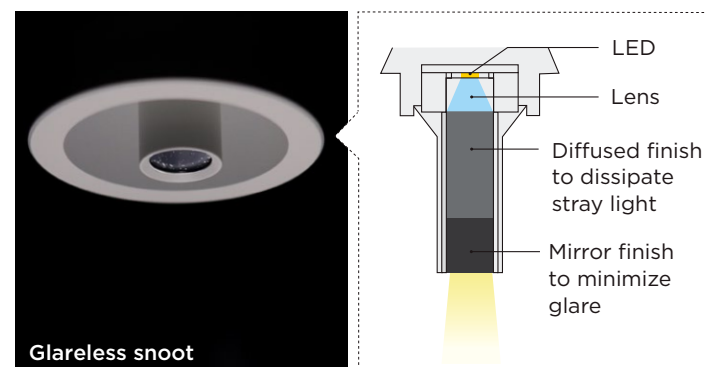
**Specially designed
as a reading light**



Inspired by aircraft reading lights this form, despite its minimal size functions very effectively as a reading light. The optical axis uses a gimbal structure, allowing a maximum of 30° tilt angle and 360° rotation angle, maximizing the degree of freedom when arranging the light. Ideal for use in hotel guest rooms, residential bedrooms, office spaces, etc.

Point
02

Specially designed to be glare free

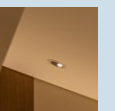


Determined to create the best down light for reading, we purposely adopted a point light source. Light concentration is controlled by a lens, and light leakage is controlled by two types of snouts with different surface treatments. This results in a high-quality spotlight that suppresses flare and glare.



The Westin Yokohama

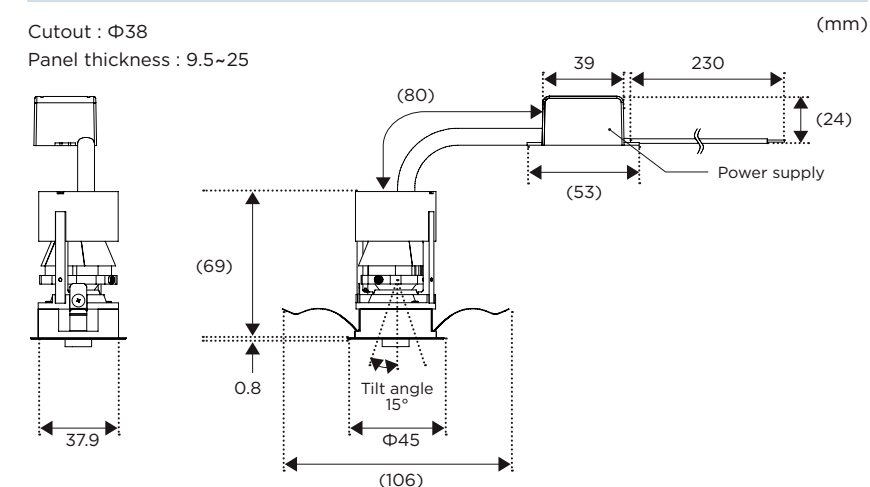
Owner : Sekisui House
Design : Nihon Sekkei /GA Design International
Lighting Design : Lighting Planners Associates



Specifications

Cutout : Φ38

Panel thickness : 9.5~25



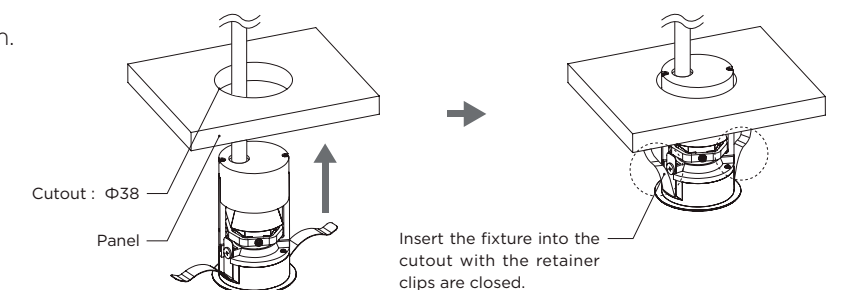
Light Distribution

The value shown is for 3000K module.

	12°	30 lm
500	Φ20	2818
1000	Φ40	704
1500	Φ60	313
2000	Φ80	176
2500	Φ100	113
3000	Φ120	78
[mm]	[lx]	

Installation

Panel thickness can range from 9.5 to 25 mm. A Φ38 mm cutout is required. Make sure the cutout is of sufficient strength and there is adequate space for mounting.



MICRO READING LIGHT "PITAT"

INDOOR

24VDC

CRI85

Voltage = 24VDC
Wattage = 1.6W
Main Materials = Aluminum & PMMA
Weight = 85g

MRL01-□□K-□□D-B

LED Color

Beam Angle

Fixture Color

27K : 2700K

16D : 16°

B : Black

30K : 3000K

24D : 24°

LPS-8.4-24

AC Adapter

System Features

Point 01

Fits snugly and is hard to damage

The stylish design fits neatly in the wall when not in use.

Resting flat against the wall makes it difficult for hands or objects to make contact and damage fixtures.

Recommended uses for this series

1. Hotel guest room lights and reading lights

2. In corporation into display cases

Point 02

Auto On/Off by opening and closing
Easily adjustable up to 180 degrees

At Rest

Active

Adjustable

Point 03

Custom surface colors

Surface treatments may be customized to match the interior finish. Custom paint and plating is available.

Isawa Onsen Hotel Yamanami

MRL01-27K-16D-B

Design : Ishii Architect & Associates, Tokyo Office

Specifications

Cutout : Φ46
Panel thickness : 3~20

Rotating angle 90°

Rotating angle 90°

Minimum embedded depth 60

Tilt angle 60°

Retainer clip

Control circuit

Light Distribution

The value shown is for 3000K and 24D module.

Product Components

Micro Reading Light requires a power supply. One fixture per power supply is needed. The figure to the right shows a non-dimming installation. Please contact us for details on dimming.

Installation

Panel thickness can be from 3 to 20 mm. A Φ46 mm cutout is required. Make sure the cutout is of sufficient strength and there is adequate space for mounting.

24VDC

0-10V/1-10V

CRI85

Voltage = 24VDC

Wattage = 1.5W

Main Materials = Aluminum

Weight = 30g

MFL24-□□K-□

LED Color

22K : 2200K

27K : 2700K

30K : 3000K

Cover Color

B : Black

W : White

System Features

Point 01

A new Concept of Light and Design in a small package

Conventional footlights were originally designed to meet outlet box specifications, with overly bright and large ones being typical. Our unique Micro Footlight is not limited to traditional design concepts.

Point 02

Cover Selection

Decorative covers are available in two standard colors. Custom colors, and custom plating can also be provided.

Point 03

Glare-friendly optical design

Micro Footlight is a compact fixture with no outward protrusions. When installed, it remains flat against the wall. Glare-free light is emitted through a small opening in the cover.

Recommended uses for this series

1. Hotel guestrooms

2. Bedrooms

3. Corridors and stairs

4. Restaurants and bars

5. Lower ambient light areas

ALOOP CLINIC&LAB

MFL24-27K-BR (Custom Color)

Design : KEIJI ASHIZAWA DESIGN

Lighting Design : AURORA

Photo : Tomooki Kengaku

Specifications

Cutout : Φ25

Panel thickness : 9.5 ~ 25.0

(mm)

(200)

44

1.5

30

Light Distribution

MFL24-27K-__

(mm)

100.0 lx

50.0 lx

20.0 lx

10.0 lx

5.0 lx

2.0 lx

1.0 lx

0.5 lx

200

1000

1000

Product Components

Micro Footlight requires power supplies.

Power supply

Micro Footlight

No longer than AWG20×3C 30m

Refer to Page 41-42 for the power supplies and dimming of Micro Footlight.

MICRO PINHOLE DOWNLIGHT



**INDOOR**

**700mA**

**CRI 85**

Current = 700mA
Wattage = 2.1W
Main Materials = Aluminum & PMMA
Weight = 40g (Main unit)
Glare-cut Angle = 35°

MPD02-□□K-□□D-□□-□


LED Color	Beam Angle	Cone Color	Module Color
27K : 2700K	16D : 16°	BC: Black	B : Black
30K : 3000K	24D : 24°	PL : Mirror	W : White

REQUIRED Essential lead connector	
MPD-CON-0.2m	MPD feed connector with a 0.2m lead
Option	
MPD-EXT-1m	MPD extension cable 1m
MPD-EXT-5m	MPD extension cable 5m
MPD-EXT-10m	MPD extension cable 10m
MPD-SPL2	MPD 2-branch connector

System Features

Point 01

Small and unobtrusive, the Micro Pinhole Downlight delivers amazing results



A clean and compact design tastefully blends into any interior. And features a 35° cut-off angle.

Point 02

Two types of cone selection

Mirror Cone

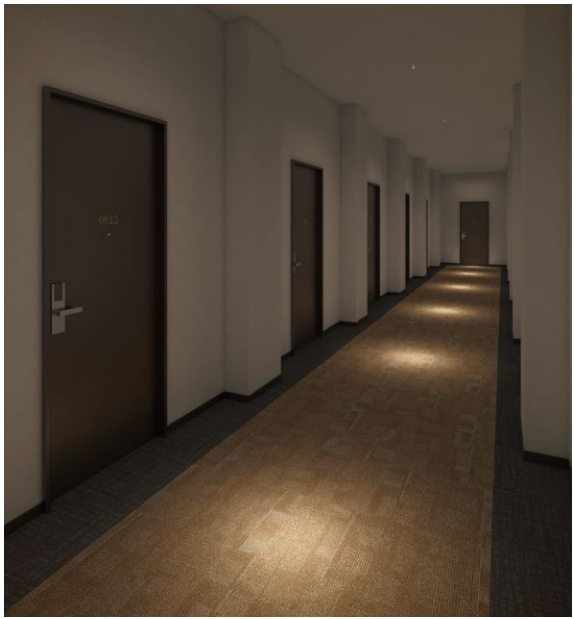
Black Cone

The mirror-finish cone seamlessly blends with white ceilings, enhancing interior harmony, while the black cone, featuring a special low-reflecting glareless finish, provides superior glare control.

- Recommended uses for this series
1. Hotel guest rooms
 2. Corridors and entrance
 3. Restaurants and bars
 4. Residences
 5. Restrooms



Point 03

Functional brightness from CH2800-3200mm



CG image

This small but powerful downlight is ideal for relatively low ambient areas. Fixtures provide stylish accents in the area directly below.



kasiki

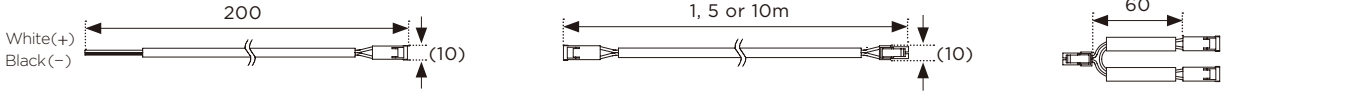
MPD02-27K-24D-W
Design : Masahiro Hoshida Artisanal Architecture
Photo : Koji Fujii / TOREAL Inc.

MPD Connectors

MPD feed connector with a 0.2m lead **REQUIRED**

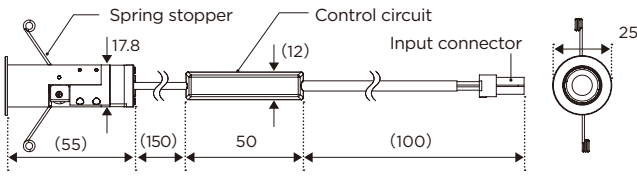
MPD extension cable 1, 5 or 10m

MPD 2-branch connector



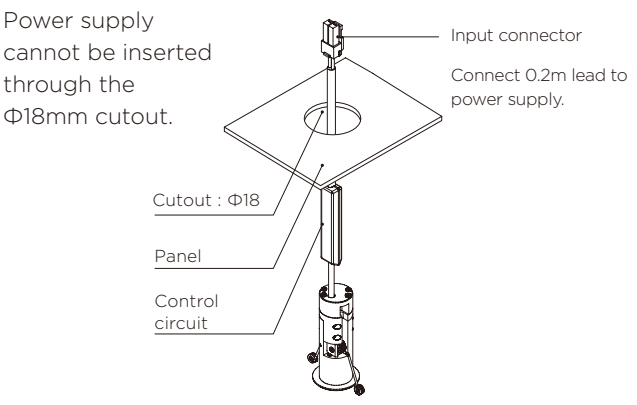
Specifications

Cutout : Φ18
Panel thickness : 9.5 to 25.0

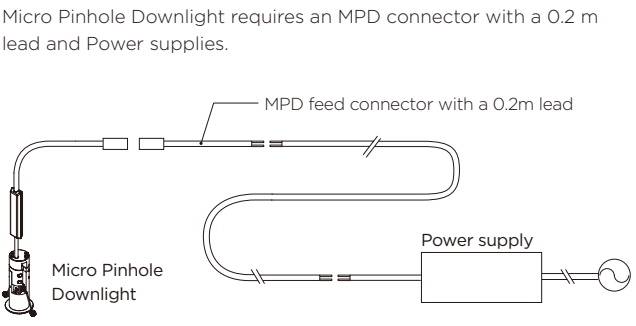


Installation

Power supply cannot be inserted through the Φ18mm cutout.



Product Components



Light Distribution

All values shown are for 3000K modules

Black Cone		Mirror Cone	
16D	24D	16D	24D
148lm	148lm	178lm	198lm
1000 Φ260 994	Φ510 497	Φ310 1179	Φ440 828
2000 Φ510 249	Φ1020 124	Φ620 295	Φ880 207
3000 Φ770 110	Φ1530 55	Φ930 131	Φ1320 92
[mm]	[mm]	[mm]	[mm]

Refer to Page 43-44 for the power supplies and dimming of Micro Pinhole Downlight.

MICRO UP LIGHT





INDOOR

24VDC

0-10V / 1-10V

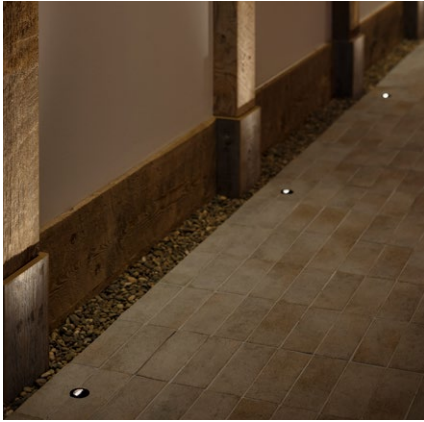

24VDC

DMX

CRI85



Voltage = 24VDC
Wattage = 2.6W
Main Materials = Aluminum & Tempered glass
Weight = 40g (Main unit)
40g (Nut & Spacer)
Glare-cut Angle : Standard = 38°
Glare-cut Glass type = 57°



YAKINIKU JINSEKI Nishiazabu

MUP02-27K-24D-B-GC
Design : Old Kan
Lighting Design : DAIKO ELECTRIC CO.,LTD.
Photo : Nacása & Partners Inc.


MUP02-□□K-□□D-□			MUP02-□□K-□□D-□-GC※		
LED Color	Beam Angle	Module Color	LED Color	Beam Angle	Module Color
27K : 2700K	16D : 16°	B : Black	27K : 2700K	16D : 16°	B : Black
30K : 3000K	24D : 24°	S : Silver	30K : 3000K	24D : 24°	S : Silver
35K : 3500K			35K : 3500K		
40K : 4000K			40K : 4000K		

※ Glare-cut glass

System Features

Point 01

Smallest size floor recessed up light





Point 02

A build-in light source for variety of applications

Micro Up Light may also be incorporated into cabinetry and pendants.
Glare-cut angle : 38°

Point 03

Improved performance with less glare
Optional glare-cut type available



Upgraded with the special low-reflecting glareless cone makes an effective performance ever.

Glare-cut glass type
Glare-cut angle : 57°

Recommended uses for this series

- Incorporation into shelves, cabinetry and display cases
- Uplight

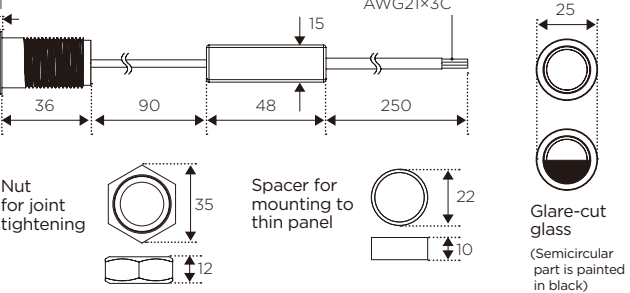
Personal Residence 02

MUP02-27K-24D-B-GC
Design : K.ASSOCIATES/Architects Co., Ltd.
Photo : ©Shigeo Ogawa

Introducing an ultra-compact 25 mm diameter fixture designed to be embedded in floors. Fixtures have a minimal presence, but produce distinctive results.

Specifications

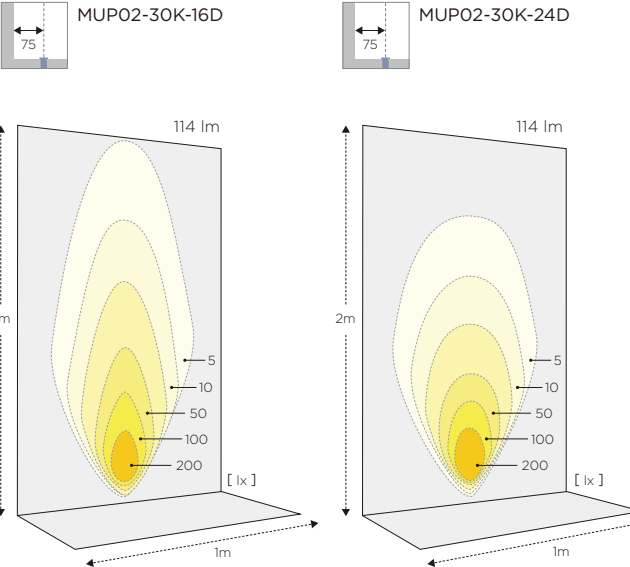
Cutout : Φ21
Panel thickness : 2 to 25 (mm)



Nut for joint tightening
Spacer for mounting to thin panel
Glare-cut glass (Semicircular part is painted in black)

Light Distribution

(mm)

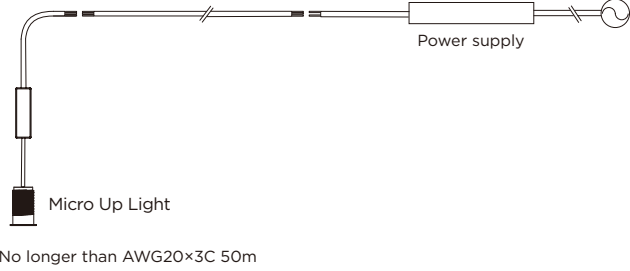


MUP02-30K-16D
MUP02-30K-24D

114 lm
2m
1m
[lx]

Product Components

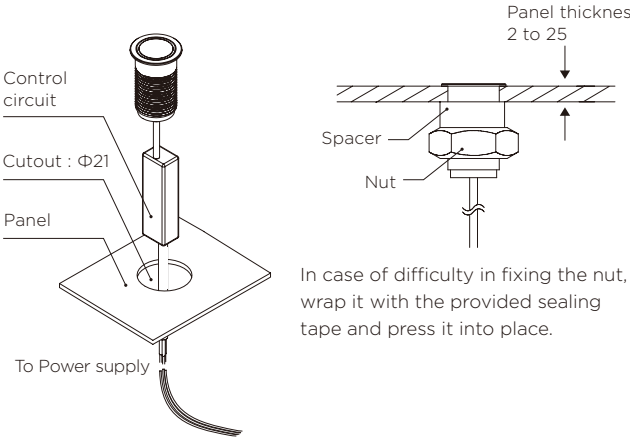
Micro Up Light requires power supplies.



Power supply
Micro Up Light
No longer than AWG20×3C 50m

Installation

Power supply cannot be installed through the Φ21mm cutout.



Control circuit
Cutout : Φ21
Panel
To Power supply
Panel thickness 2 to 25
Spacer
Nut
In case of difficulty in fixing the nut, wrap it with the provided sealing tape and press it into place.

Refer to Page 39-40 for the power supplies and dimming of Micro Up Light.

MICRO TRACKLIGHT





INDOOR



CRI85

24VDC

0-10V/1-10V



CRI95

24VDC

DMX

Voltage = 24VDC
Wattage = 1.6W
Main Materials = Aluminum, PMMA & PC
Weight = 20g
Glare-cut Angle = 35°

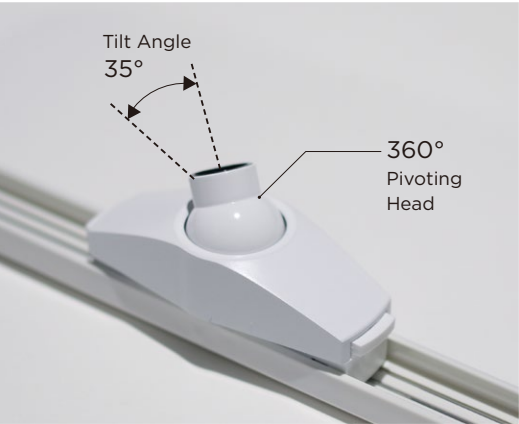
MTK01-□□K-□□D-□-H

LED Color	Beam Angle	Module Color	Glare-cut hood
CRI85 27K : 2700K 30K : 3000K 35K : 3500K 40K : 4000K 50K : 5000K	CRI95 HC27K HC30K HC35K HC40K HC50K	16D : 16° 24D : 24° 30D : 30° B : Black S : Silver W : White	H : Glare-cut hood

Mounting parts		
MTK-TK※1.25m (※Color : BK, WH)	Dedicated track rail (1.25m)	1.25m fixed length
MTK-TK※2.45m (※Color : BK, WH)	Dedicated track rail (2.45m)	2.45m fixed length
MTK-LC※-CLB (※Color : BK, WH)	Feed connector	
Option		
MTK-CVBK (Black color Only)	Rail cover	1m fixed length
MTK※-FC200 (※Color : BK, WH)	Flexible connector	Connecting cable length 200mm

Point 01

Minimal in size, versatile in performance




Tilt Angle 35°

360° Pivoting Head

The track rail can be mounted horizontally or vertically. LED modules with different lens styles can be used on the same track to light objects at various distances. The modules are fitted with a hood to reduce glare.

Point 02

The low-profile form is ideal for under shelf lighting



Fixture

Fixture

The low profile fixtures are easily hidden behind ledges. The dedicated track rail is easily installed with mounting clamps and screws. LED modules are easily attached, detached and repositioned on the rail. The number of modules on a track can be changed.

Recommended uses for this series

1. Incorporation into shelves, cabinetry and display cases

2. Built-in curtain box

3. Highlighting artwork

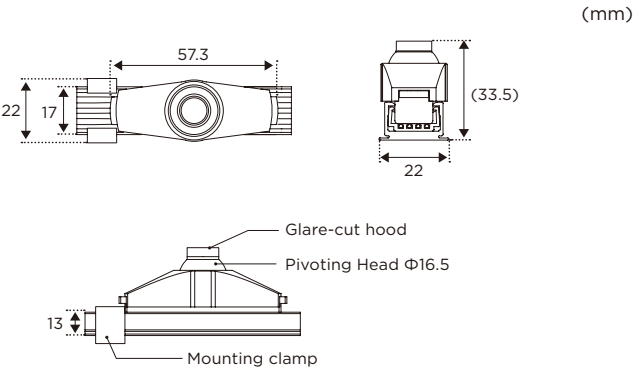
4. Integration into a fixture louver



Gozenbo Roppongi

MTK01-27K-30D-B
Design : idea

Specifications



(mm)

57.3

22

17

33.5

22

Glare-cut hood

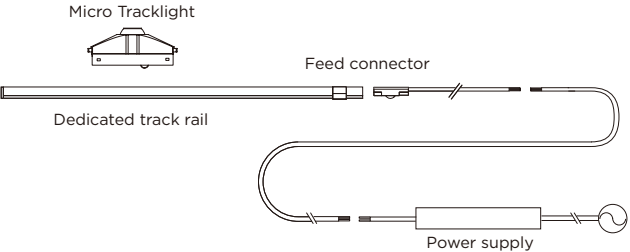
Pivoting Head Φ16.5

13

Mounting clamp

Product Components

Micro tracklight requires a dedicated track rail, feed connectors and power supplies.



No longer than AWG20×3C 50m

Light Distribution

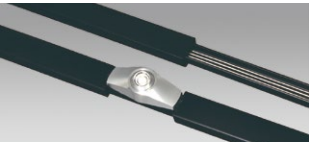
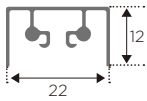
All values shown are for 3000K modules ※The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	107 lm (82 lm)	107 lm (82 lm)	88 lm (68 lm)
100	Φ30 65500 (50300)	Φ46 37900 (29100)	Φ55 21200 (16400)
200	Φ60 16400 (12600)	Φ92 9490 (7270)	Φ109 5300 (4090)
300	Φ90 7290 (5580)	Φ138 4220 (3230)	Φ164 2350 (1820)
400	Φ120 4100 (3140)	Φ184 2370 (1820)	Φ218 1320 (1020)
500	Φ140 2620 (2010)	Φ230 1500 (1160)	Φ270 847 (655)
Distance [mm]	Illuminance [lx]		

Option

Rail cover

※ Product number : MTK-CVBK



The low profile fixtures are easily hidden behind ledges. The dedicated track rail is easily installed with mounting clamps and screws. LED modules are easily attached, detached and repositioned on the rail. The number of modules on a track can be changed.

※ A 1m length is available and can be cut to length on a job site.

Refer to Page 39-40 for the power supplies and dimming of Micro Tracklight.

17

18

MICRO LIGHT CANNON (Track)



INDOOR

CRI85

24VDC
0-10V/1-10V

CRI95

24VDC
DMX

Voltage = 24VDC

Wattage = 2.6W

Main Materials = Aluminum & PMMA

Weight = 33g (Main unit)
330g/m (rail)

Glare-cut Angle = 30°

MLC03-□□K-□□D-□□

LED Color

Beam Angle

Module Color

CRI85

27K : 2700K

30K : 3000K

35K : 3500K

40K : 4000K

50K : 5000K

CRI95

HC27K

HC30K

HC35K

HC40K

HC50K

16D : 16°

24D : 24°

30D : 30°

B : Black

PW : Pure White

Mounting parts

MIN-TK24V-※ (※Rail color : B,PW)

Minimal track rail

Manufacturing range : 0.2m to 2.4m

In increments : 0.1 m (10cm)

Accessories : Mounting clips

MIN-LC-※ (※ Color : B,PW)

Feeder set

One feeder set is required per minimal track rail.

The feeder set is installed in the track rail at the factory.

Option

DIM-MGSTK

Individual dimming magnet

System Features

Point 01

A small refined profile



Point 02

Unique dimming capabilities



Micro Light Cannon Track Rail is fully dimmable. It may be fluidly dimmed from our standard dimming system. It also has the unique ability to independently address each LED module on a fixture with just the tap of our dimming magnet to the side of each module.

※ Product number : DIM-MGSTK

Recommended uses for this series

1. Incorporation into shelves, cabinetry and display cases

2. Highlighting artwork

3. Restaurants & bars





Shiseido Parlour The Harajuku

MLC02-HC27K-16D-B

Design : Ura Kazuya

Specifications



Product Components

Micro Light Cannon Track Rail

Minimal track rail

Feeder set

Power supply

No longer than AWG20×3C 50m

Installation

Ceiling mount

Mounting clip

Recessed section

Mounting vertically

Light Distribution

All values shown are for 3000K modules ※The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	100 lm (86lm)	120 lm (104lm)	75 lm (65lm)
500	Φ140 2753 (2368)	Φ230 1869 (1619)	Φ290 756 (655)
1000	Φ280 688 (592)	Φ450 467 (405)	Φ580 189 (164)
1500	Φ430 306 (263)	Φ680 208 (180)	Φ870 84 (73)
2000	Φ570 172 (148)	Φ910 117 (101)	Φ1150 47 (41)
2500	Φ710 110 (95)	Φ1140 75 (65)	Φ1440 30 (26)
[mm]		[lx]	

Refer to Page 39-40 for the power supplies and dimming of Micro Light Cannon Track Rail .

19

20

MICRO LIGHT CANNON (Recessed)





INDOOR



CRI85

24VDC

0-10V/1-10V



CRI95

24VDC

DMX

Voltage = 24VDC
Wattage = 2.6W
Main Materials = Aluminum & PMMA
Weight = 40g (Main unit)
60g (incl.Control Circuit)
Glare-cut Angle = 30°

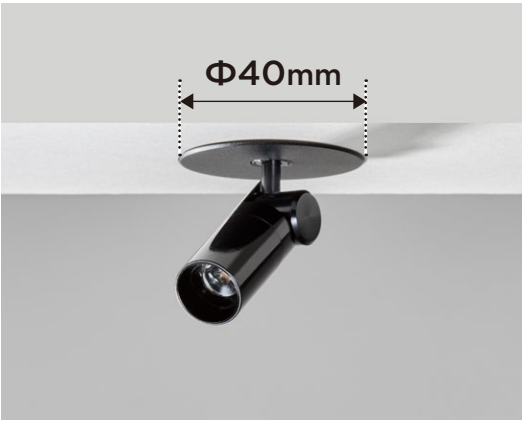
MLCEM01-K-D-

LED Color		Beam Angle	Module Color
CRI85	CRI95	16D : 16°	B : Black
27K : 2700K	HC27K	24D : 24°	W : White
30K : 3000K	HC30K	30D : 30°	
35K : 3500K	HC35K		
40K : 4000K	HC40K		
50K : 5000K	HC50K		

System Features

Point
01

Recessed type added to the popular MLC series



In addition to the original Micro Light Cannon (Track), the "Recessed" type has been added to our MLC series, expanding its versatility for a wider range of applications and locations. The size is extremely compact, with a diameter of 40mm, making it ideal for environments where design aesthetics are a priority.

Point
02

A small refined profile

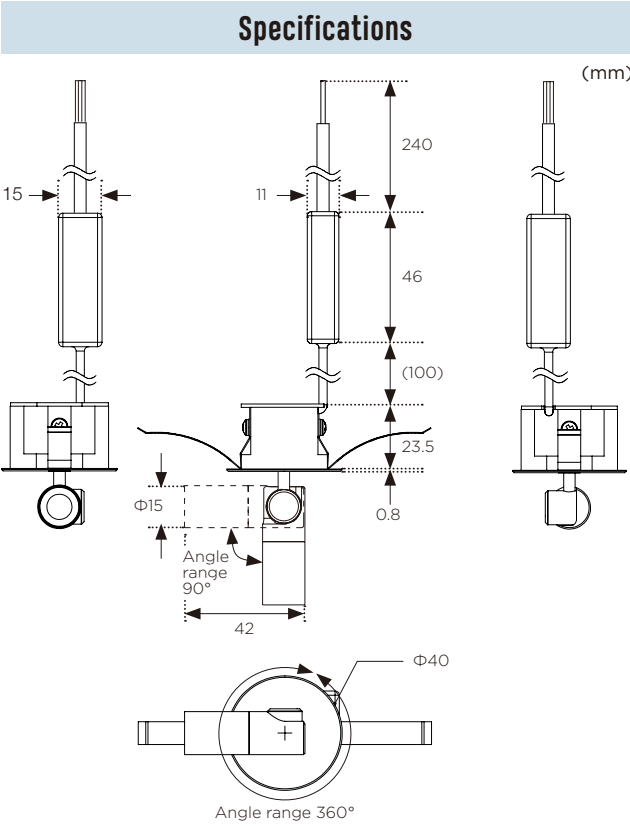


CG Image

LED colors can be selected from our standard type (CRI85) that emphasizes brightness and the hi color (CRI95) that emphasizes color rendering.

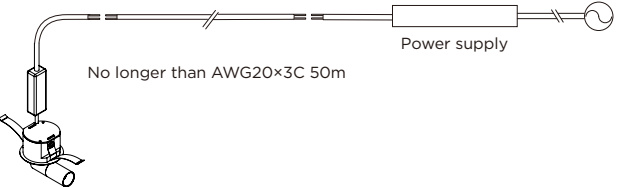
Recommended uses for this series

1. Incorporation into shelves, cabinetry and display cases
2. Highlighting artwork
3. Restaurants & bars



Product Components

Micro Light Cannon (Recessed) requires power supplies.



No longer than AWG20×3C 50m

Power supply

Micro Light Cannon (Recessed)

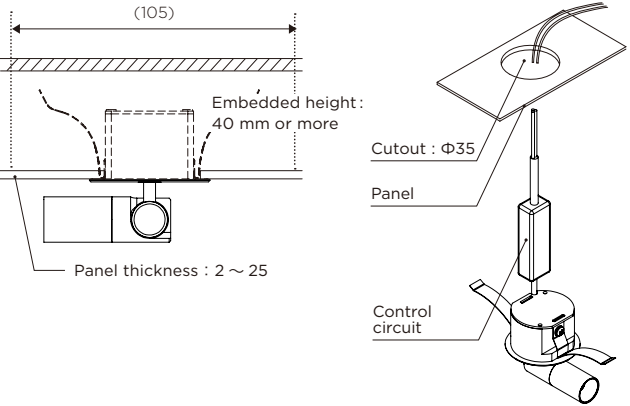
Light Distribution

All values shown are for 3000K modules ※The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	100 lm (86lm)	120 lm (104lm)	75 lm (65lm)
500	Φ140 2753 (2368)	Φ230 1869 (1619)	Φ290 756 (655)
1000	Φ280 688 (592)	Φ450 467 (405)	Φ580 189 (164)
1500	Φ430 306 (263)	Φ680 208 (180)	Φ870 84 (73)
2000	Φ570 172 (148)	Φ910 117 (101)	Φ1150 47 (41)
2500	Φ710 110 (95)	Φ1140 75 (65)	Φ1440 30 (26)
[mm]	[lx]		

Installation

The power supply cannot be installed through the cutout (Φ35)



(mm)

To the 24VDC Power supply

Cutout : Φ35

Panel

Control circuit

Panel thickness : 2 ~ 25

Embedded height : 40 mm or more

Refer to Page 39-40 for the power supplies and dimming of Micro Light Cannon (Recessed) .

28 SPOTLIGHT (Recessed)

INDOOR

170mA

CRI93

Current = 170mA
 Wattage = 6.5W
 Main Materials = Aluminum, Steel & PMMA
 Weight = 120g
 Glare-cut Angle = 35°

TEEM01-

LED Color

Beam Angle

Module Color

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

16D : 16°
 24D : 24°
 30D : 30°
 50D : 50°

B : Black
 W : White

System Features

Point 01

Φ28mm compact recessed spotlight

With a flange diameter of 50mm and a cylinder diameter of 28mm, this compact recessed spotlight seamlessly blends into any space.

Recommended uses for this series

1. Highlighting artwork

2. Restaurants & bars

Point 02

450lm brightness & glare-free

Despite its compact size, this spotlight provides a brightness of 450lm. It also features a cone designed to minimize glare.

Available beam angles: 16°, 24°, 30°, and 50°.

Note: The brightness is 320lm for the 16° beam angle. The values provided are for 3000K modules for all beam angles.

CG Image

Specifications

Installation

The power supply can be installed through the cutout (Φ40).

Panel thickness : 3 ~ 25

Not suitable for use with insulating material construction. To insert the power supply through cutout, the ceiling height must be 180mm or more.

Light Distribution

All values shown are for 3000K modules

16D 320 lm			24D 450 lm			30D 450 lm			50D 450 lm		
1/2 Intensity Angle	1/2 Beam Angle		1/2 Intensity Angle	1/2 Beam Angle		1/2 Intensity Angle	1/2 Beam Angle		1/2 Intensity Angle	1/2 Beam Angle	
15°	16°		22°	24°		27°	30°		46°	50°	
Φ280	Φ280	3066lx	Φ410	Φ410	2225lx	Φ540	Φ540	1572lx	Φ860	Φ860	797lx
1000	1000	2000lx	1000	1000	2000lx	1000	1000	2000lx	1000	1000	2000lx
2000	2000	1000lx	2000	2000	1000lx	2000	2000	1000lx	2000	2000	500lx
3000	3000	500lx	3000	3000	500lx	3000	3000	500lx	3000	3000	200lx
4000	4000	200lx	4000	4000	200lx	4000	4000	200lx	4000	4000	100lx
5000	5000	100lx	5000	5000	100lx	5000	5000	100lx	5000	5000	32lx

Product Components

28 Spotlight (Recessed) requires power supplies.

Refer to Page 45 for the power supplies and dimming of 28 Spotlight (Recessed) .

INDOOR

5VDC

0-10V

CRI85

CRI95

Voltage = 5VDC

Wattage = 1.2W

Main Materials = Aluminum, Stainless steel & PMMA

Weight = 16g (Shaft length : 30mm)

MICRO SPOTLIGHT

MSP01-□□K-□□D-□-□□□

LED Color	Beam Angle	Fixture Color	Shaft Length	
CRI85	CRI95	16D : 16°	B : Black	30 : 30mm
27K : 2700K	HC27K	24D : 24°	S : Silver	150 : 150mm
30K : 3000K	HC30K	30D : 30°		250 : 250mm
35K : 3500K	HC35K		350 : 350mm
40K : 4000K	HC40K	Custom		
50K : 5000K	HC50K	80D : 80°		

Fixtures and mounting parts

MSP01-__K-__D-_-30	Weight 16g	Fixture (Shaft length 30mm)
MSP01-__K-__D-_-150	Weight 25g	Fixture (Shaft length 150mm)
MSP01-__K-__D-_-250	Weight 32g	Fixture (Shaft length 250mm)
MSP01-__K-__D-_-350	Weight 40g	Fixture (Shaft length 350mm)
MSP-SKT-※(Socket color : B,S)		Standard socket
MS04-WSKT-※(including extension cord 8m)		Socket for wall

Distribution Box with AC Adapter

LPS-350-6CH-04	For Non-Dimming
LPS-MS-DIM	For Dimming

Option

MS-EXTC10	Extension cord (8m)
-----------	---------------------

Point 01

Unique in Form and Technology

The swing angle is adjustable for irradiation 60° above and 60° below.

Simple and sophisticated appearance.

The 3.5mm phone connector allows stems to rotate 360°.

Innovative technology and a hightech appearance make Micro Spotlight a perfect solution for a variety of design objectives.

Point 02

Functional and Aesthetically pleasing

The quality of light and superior craftsmanship of Micro Spotlights make them ideal for highlighting fine jewelry and valuable artifacts in vitrines. Available in a silver or black finish, these slender fixtures discreetly blend into any setting.

Sirena Azzurro Matsuzakaya Shizuoka Store

Design: VAL・PLANNING INC.

Hiroataka Omotesando

MSP01-30K-16D-B-350

Design : TORAFU ARCHITECTS

Lighting Design : BRANCH LIGHTING DESIGN

Specifications

Cutout (standard socket) : Φ16

Cutout (socket for wall) : Φ14

Panel thickness : 2.0 to 37.0

Minimum installation space : 200 mm or more is recommended for adequate working space

Standard socket (47) dimensions: Head Φ12.5, Shaft dia. Φ4, Shaft length, Phone Connector, Standard socket (47) Φ20, 1.5, 2000, Φ16.

Socket for wall (40.3) dimensions: Head Φ12.5, Shaft dia. Φ4, Shaft length, Phone Connector, Socket for wall (40.3) Φ34, 7.5, 2000, Φ13.8.

An extension cord(8m) is included in the socket for wall.

Light Distribution

All values shown are for 3000K modules ※The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	107 lm (82 lm)	107 lm (82 lm)	88 lm (68 lm)
100	Φ30 65500 (50300)	Φ46 37900 (29100)	Φ55 21200 (16400)
200	Φ60 16400 (12600)	Φ92 9490 (7270)	Φ109 5300 (4090)
300	Φ90 7290 (5580)	Φ138 4220 (3230)	Φ164 2350 (1820)
400	Φ120 4100 (3140)	Φ184 2370 (1820)	Φ218 1320 (1020)
500	Φ140 2620 (2010)	Φ230 1500 (1160)	Φ270 847 (655)
Distance [mm]			
Illuminance [lx]			

Product Components

Micro Spotlight requires sockets, Distribution box and AC Adapter.

Installation

Horizontal and ceiling mounting ➡ Standard socket (cutout Φ16 mm)

Insert the socket assembly through the hole and secure with the nut and washer provided.

Mounting surface : 1 ~ 5mm

Required installation depth : 200mm or more

Mounting to wall ➡ Socket for wall (cutout Φ14mm)

Micro Spotlight can also be provided with a socket designed for wall mounting.

※An extension cord (8m) is included in the socket for wall.

Mounting surface : 5 ~ 37mm

Required installation depth : 200mm or more

Decorative cover

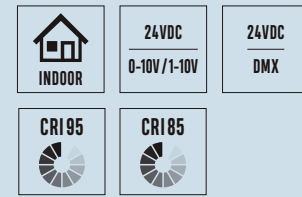
48mm

Refer to Page 47 for the power supply and dimming of Micro Spotlight.

25

26

ORBIT STAND



Voltage = 24VDC
Wattage = 1.7W/LED
Main Materials = Aluminum, PC & PMMA
Weight = 16g/LED
Glare-cut Angle = 30°

OBS02- □□K- □□D-□

LED Color

CRI85
27K : 2700K
30K : 3000K
35K : 3500K
40K : 4000K
50K : 5000K

CRI95

HC27K
HC30K
HC35K
HC40K
HC50K

Beam Angle

16D : 16°
24D : 24°
30D : 30°

Module Color

B : Black
S : Silver

REQUIRED

Power stand	OB-STD24V-※(※Color : B, S)
-------------	----------------------------

*Please be sure to specify the length of the power stand when ordering. Depending on the installation method, the embedded length must be considered. Please check the dimensional drawing.

Manufacturing range : 0.1m to 1.2m
In increments : 0.1m (10cm)

*If the stand length exceeds 0.6m, the fixture may sway due to vibrations from the motor or air conditioning. Please contact us for details.

Stand lead processing	OB-SLC-※(※Color of Cover and Top Cap : B, S)
-----------------------	--

* 2m lead wire, Mount base, Cover and Top cap are included.

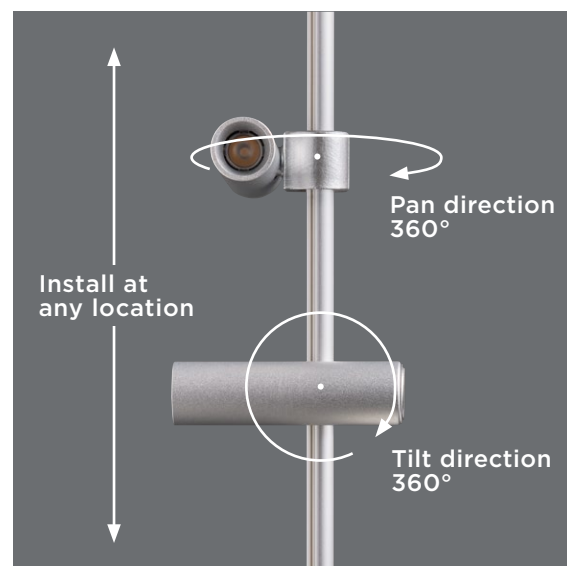
System Features

Point
01

Freely adjustable heights and directions



*If the stand length exceeds 0.6m, the fixture may sway due to vibrations from the motor or air conditioning. Please contact us for details.

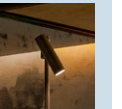


LED modules may be positioned at any location on the stand, even when the light is on, it can be adjusted. Additionally, the pan and tilt directions can each be rotated 360°, allowing for free illuminating. The stand length can be specified between 0.1m and 1.2m.



Shellman GINZA

OBS01-30K-24D-S
Interior Design : MOND Inc.
Lighting Design : Aquila Inc



System Features

Point
02

Easy dimming with our PTD (Press-to-Dim) Feature

You can easily dim each module independently (stepless dimming) by just pushing the fixture towards the power stand.

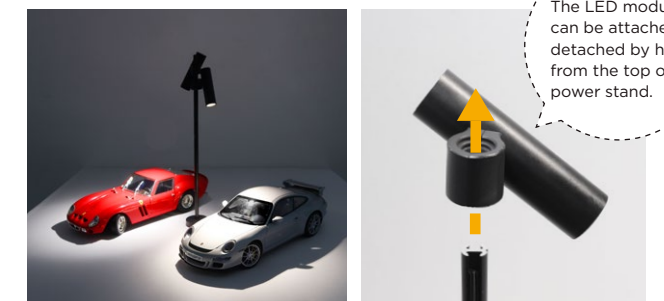


It is also possible to dim all the lights at once by using a dedicated dimmer unit. Since control is based on individually set dimming values, the overall brightness can be changed while maintaining the brightness ratio of each spotlight.

Point
03

Easy to replace or add LED modules

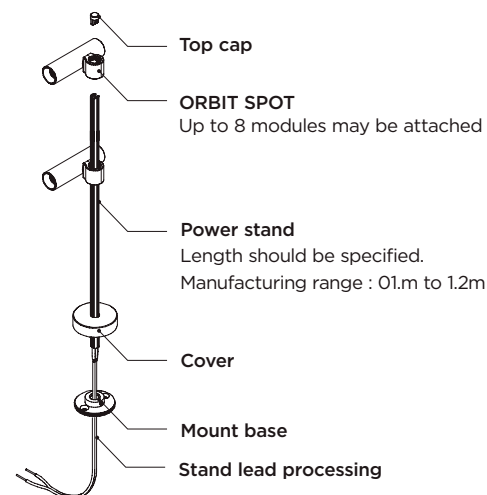
1 to 8 LED modules may be attached to a single power stand. It is possible to illuminate multiple exhibits at the same time, or to illuminate an exhibit that tends to cast shadows from both the top and bottom. Even if the exhibition layout changes, LED modules can easily be replaced with different LED colors or beam angles, reduced or added, ensuring that the exhibits always receive the optimal light.



*Please pay attention to the installation direction.

Product Components

Mount base, cover Top cap are included in Stand lead processing.



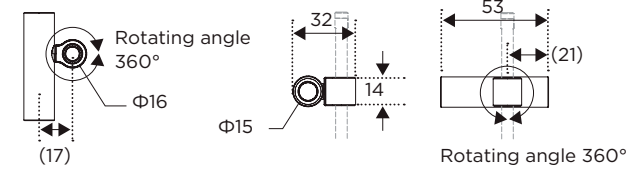
Light Distribution

All values shown are for 3000K modules
*The values in parentheses are CRI95, 3000K modules

	16D	24D	30D
	87 lm(78 lm)	86 lm(78 lm)	72 lm(58 lm)
100	Φ30 56184(27326)	Φ50 29172(13379)	Φ60 18676(8354)
200	Φ60 14046(6832)	Φ100 7293(3345)	Φ110 4669(2089)
300	Φ90 6243(3036)	Φ150 3241(1487)	Φ170 2075(928)
400	Φ120 3512(1708)	Φ200 1823(836)	Φ230 1167(522)
500	Φ140 2247(1093)	Φ250 1167(535)	Φ280 747(334)
	[mm]	[lx]	

Specifications

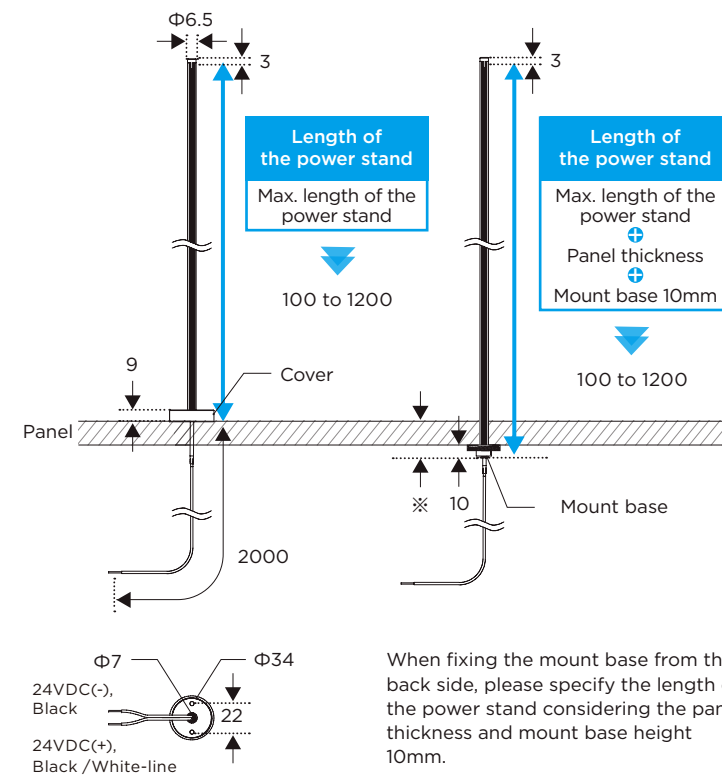
(mm)



Length of the power stand can be adjusted on site.

Fixed from the front side

Fixed from the back side

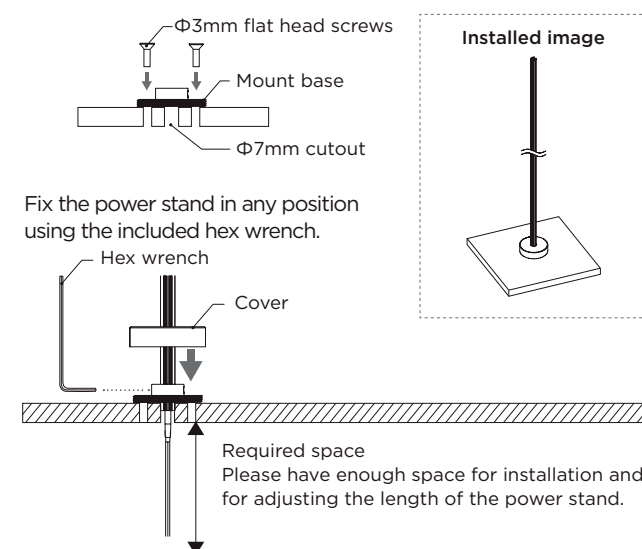


CG Image

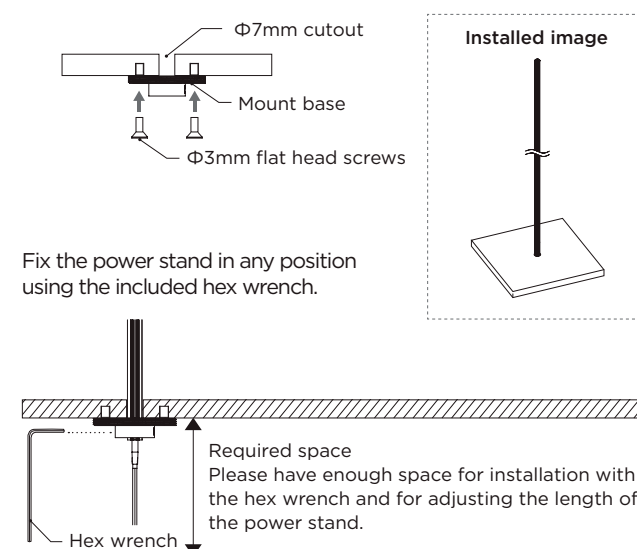
Instructions

The mount base can be fixed from the front side or from the back side.

Fixed from the front side



Fixed from the back side



Refer to Page 47-48 for the power supplies and dimming of Orbit Stand.

MICRO SPOTLIGHT OUTDOOR





OUTDOOR



IP66



700mA



CRI85

Current = 700mA

Wattage = 2.1W

Main Materials = Aluminum & Tempered glass

Weight = 150g (Main unit)

Glare-cut Angle = 35°

Standard

OSP01-□□K-□□D-□□-B

LED Color

Beam Angle

Honeycomb Louver

Module Color

27K : 2700K

15D : 15°

HL : Honeycomb Louver

B : Black

30K : 3000K

30D : 30°

40K : 4000K

50D : 50°

Standard with Stake

OSP01-□□K-□□D-□□-B-SPI

LED Color

Beam Angle

Honeycomb Louver

Module Color

27K : 2700K

15D : 15°

HL : Honeycomb Louver

B : Black

30K : 3000K

30D : 30°

40K : 4000K

50D : 50°

Standard with Low Pole and Stake

OSP01-□□K-□□D-□□-B-LP-SPI

LED Color

Beam Angle

Honeycomb Louver

Module Color

27K : 2700K

15D : 15°

HL : Honeycomb Louver

B : Black

30K : 3000K

30D : 30°

40K : 4000K

50D : 50°

Standard with Tree Band

OSP01-□□K-□□D-□□-B-TB

LED Color

Beam Angle

Honeycomb Louver

Module Color

27K : 2700K

15D : 15°

HL : Honeycomb Louver

B : Black

30K : 3000K

30D : 30°

40K : 4000K

50D : 50°

Standard with Base Plate

OSP01-□□K-□□D-□□-B-BP

LED Color

Beam Angle

Honeycomb Louver

Module Color

27K : 2700K

15D : 15°

HL : Honeycomb Louver

B : Black

30K : 3000K

30D : 30°

40K : 4000K

50D : 50°

Honeycomb Louver

*Select the honeycomb louver option when choosing the fixture.

*Honeycomb Louver is installed at the factory: on-site installation or removal is not possible.



Short-Slash Hood

*Made of aluminum, set screws are included.

*Installation to be done on-site.



Long-Slash Hood

*Made of silicone, with included fixing clip.

*Installation to be done on-site.



Direct mount spacer



OSP-SSH	Short-Slash Hood
---------	------------------

OSP-SSH	Short-Slash Hood
---------	------------------

OSP-SSH	Short-Slash Hood
---------	------------------

OSP-SSH	Short-Slash Hood
---------	------------------



SEN°C

CUSTOM MICRO SPOTLIGHT OUTDOOR (Fixture Cooperation : DAIKO ELECTRIC CO.,LTD.)
Design : NOMURA Co., Ltd. • MuFF



System Features

Point 01

A micro-sized spotlight that blends into the environment



We are launching a new outdoor lighting fixture based on our Micro Series. It is ideal for use in areas concerned with environmental impact.

Recommended uses for this series

1. Commercial courtyards


2. Rooftop gardens

3. Open-air cafes & restaurants

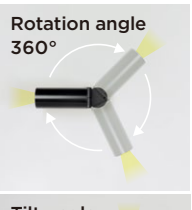
Point 02

Glareless & wide range of motion


Glare-cut angle 35°



Rotation angle 360°



Tilt angle 180°





A black cone with a special finish is standard. In addition, the optical design limits glare. With a wide range of movement and no restrictions on mounting direction, you have more flexibility in your lighting design.

Point 03

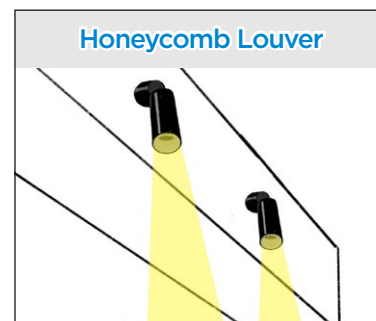
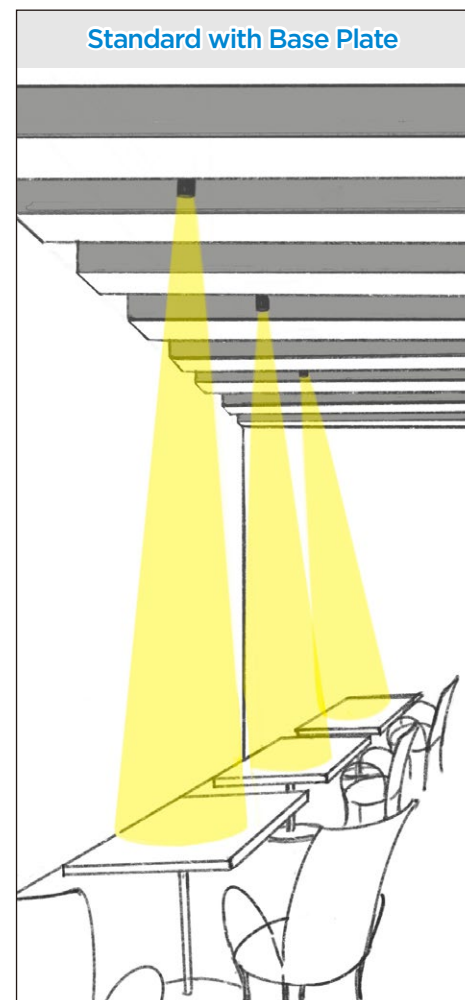
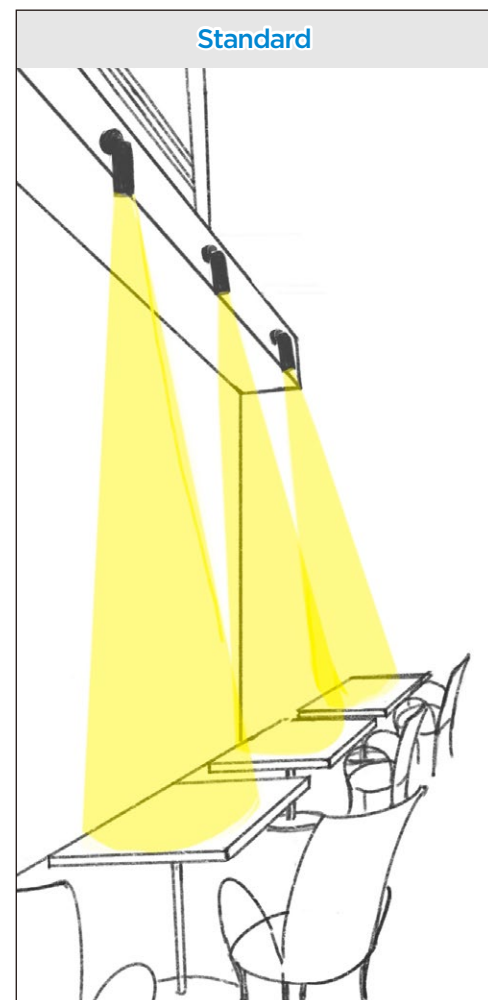
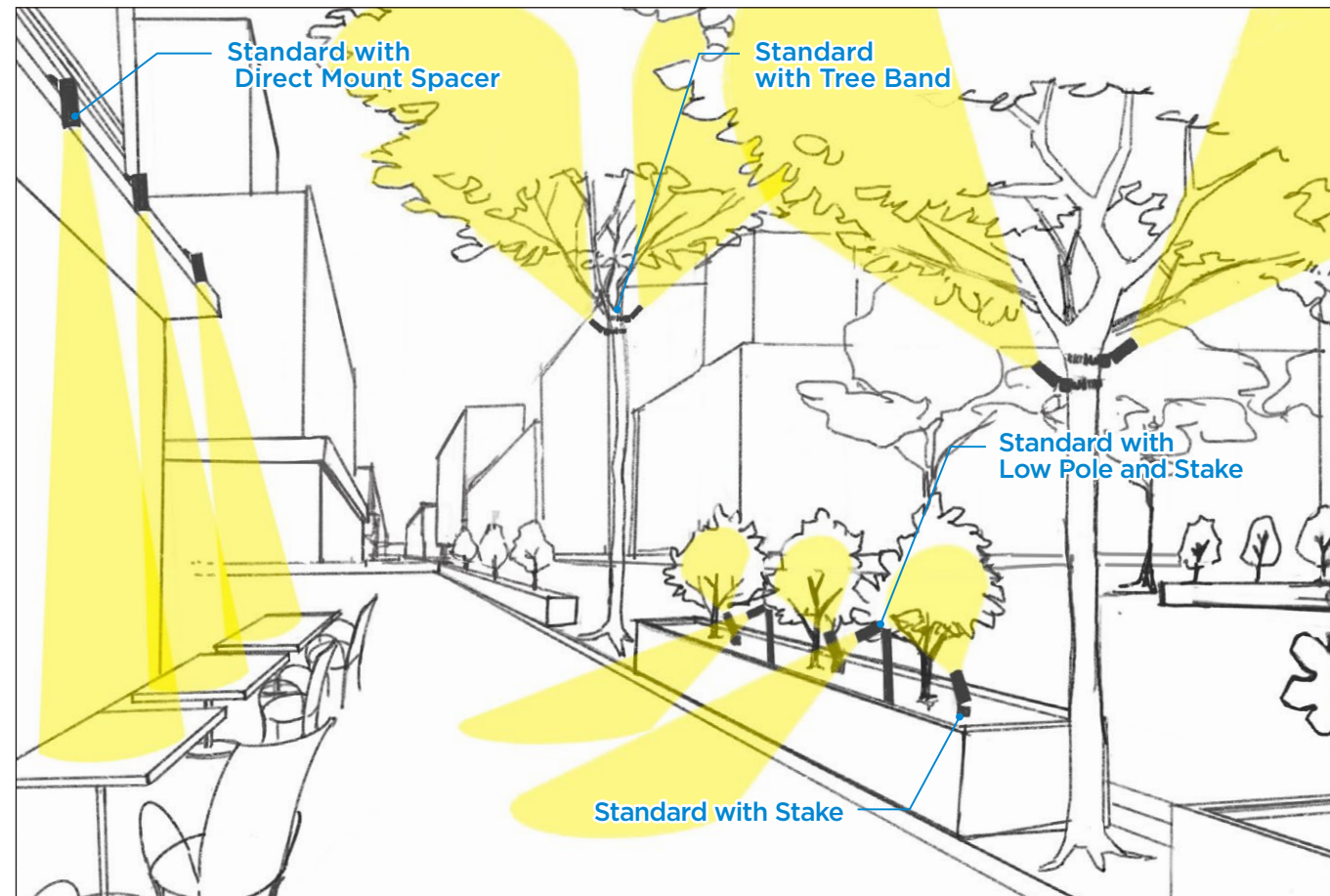
A wide range of designs to choose from to suit your needs

In addition to the original two types with stakes, Standard with Tree Band and Standard with Base Plate were newly added to our OSP series. Please refer to the next page for the characteristics of each type and how to specify.





System Features



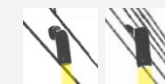
System Features

Standard / with Direct Mount Spacer

In the case of direct mounting, connector installation processing is not applicable. The connector does not pass through the power supply hole. If it is difficult to make a hole for a power supply on the mounting surface, the lead wires can be pulled out from the side using a Direct mount spacer (option). In this case, connector installation processing is applicable.

Recommended applications

Standard : For walls, eaves, parapets, signage
Standard with Direct Mount Spacer :
-When hidden wiring is not possible
-When connector installation processing is needed



Standard



Standard with Direct Mount Spacer



Check the installation video from this code →
Youtube : <https://youtu.be/xszwXfeafE?si=ADK9VHXyB75Juf2h>



Standard with Stake / with Low Pole and Stake

Two types of stakes with different heights are available. Please select according to your application.

Recommended applications

with Stake : For planters, and general landscapes
with Low Pole and Stake : For general landscapes



Standard with Stake



Standard with Low Pole and Stake



Standard with Tree Band



Since it uses soft stainless steel expansion springs, it does not interfere with tree growth and does not damage the epidermis even without curing. Can be used for $\Phi 75$ to $\Phi 125$ mm

Recommended applications

-For lighting up trees
-Easy to attach and detach, making it easy to use even for temporary purposes



Standard with Base Plate



Recommended for saving labor during installations and when the installation area is narrow and difficult to fix. Connector installation processing is also applicable.

Recommended applications

-For installations between architectural louvers and slit structures
-When installing a large number of units within a limited construction period (time)



Honeycomb Louver

A new option featuring an internal Honeycomb Louver that enhances glare-free performance. Even in installation conditions where the light source is in the direct line of sight, it effectively reduces uncomfortable glare.

Long-Slash Hood & Short-Slash Hood

We offer optional hoods that reduce glare in the line of sight without significantly diminishing brightness.

As these are sold as separate parts, they can be installed on-site even after construction. Choose between the Short-Slash Hood, made of aluminum with excellent design, and the Long-Slash Hood, made of silicone for ease of use and superior glare-cutting performance.

with Honeycomb Louver



without Honeycomb Louver



Short-Slash Hood

Material : Aluminum



Recommended applications
-Architecture, Interior Design

Long-Slash Hood

Material : Silicone
Fixing clip is included



Recommended applications
-For planters, and general landscapes.

Custom aluminum Long Hood available upon request

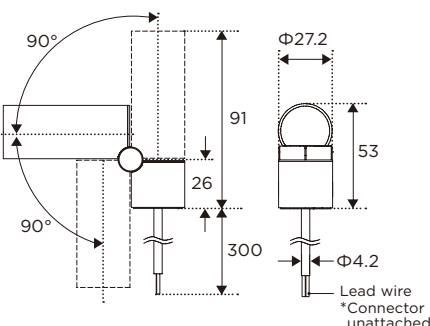


For more details, please contact us.

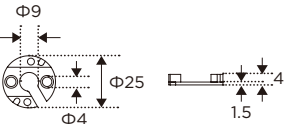
Specifications

(mm)

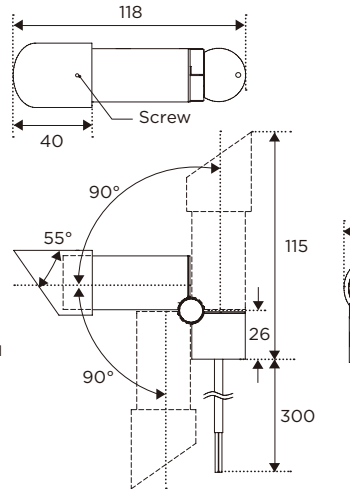
Standard



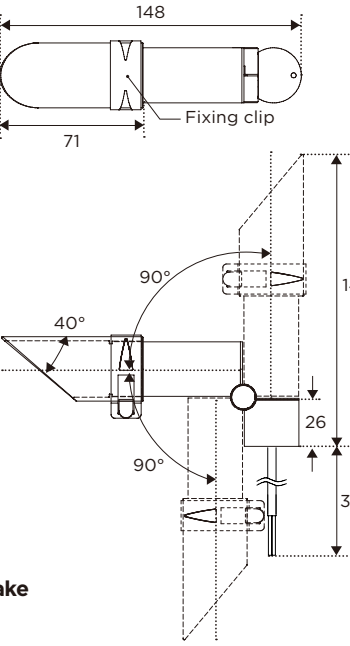
Mount Bracket (Included)



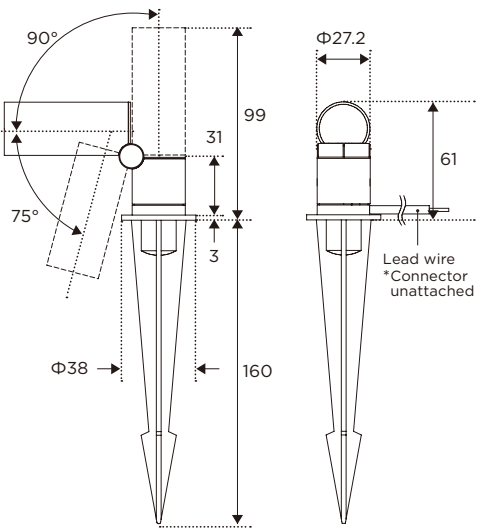
Standard with Short-Slash Hood (Option)



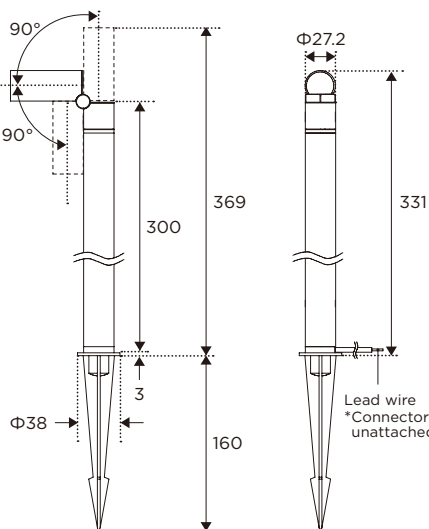
Standard with Long-Slash Hood (Option)



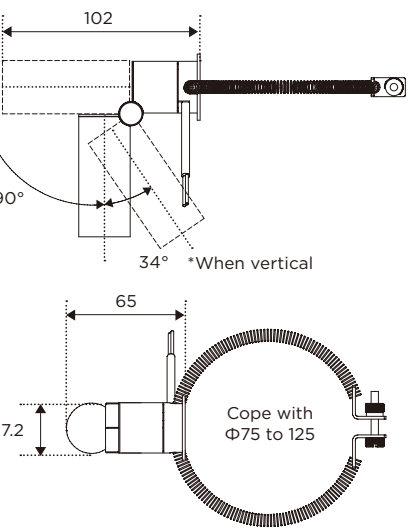
Standard with Stake



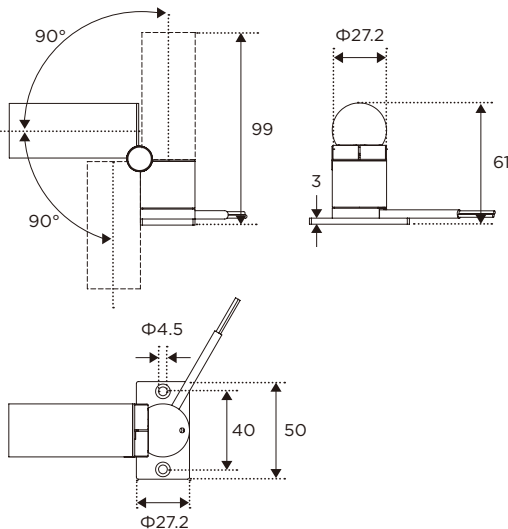
Standard with Low Pole and Stake



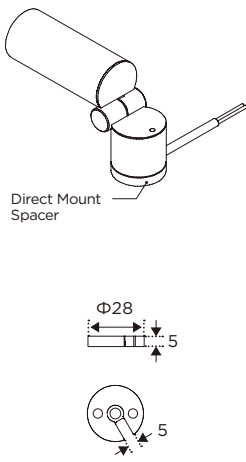
Standard with Tree Band



Standard with Base Plate



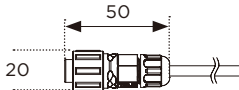
Direct Mount Spacer (Option)



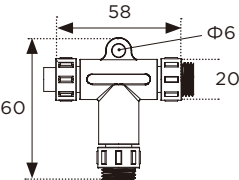
OSP Connectors

(mm)

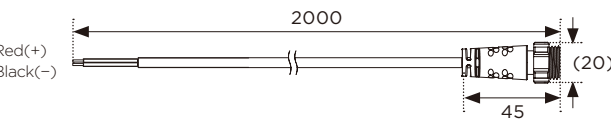
Connector (for installation processing)



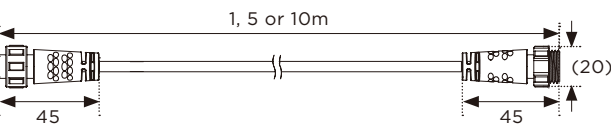
OSP T-branch connector



OSP feed connector with a 2m lead



OSP extension cable 1, 5 or 10m



Light Distribution

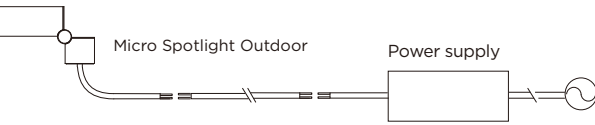
All values shown are for 3000K modules

	15D 220 lm	30D 220 lm	50D 200 lm
1000	Φ270 1759	Φ500 790	Φ960 283
2000	Φ540 440	Φ1000 197	Φ1920 71
3000	Φ810 195	Φ1510 88	Φ2870 31
4000	Φ1080 110	Φ2010 49	Φ3830 18
5000	Φ1350 70	Φ2510 32	Φ4790 11
[mm]	[lx]		

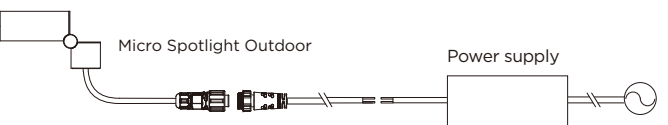
Note: Fixtures with the Honeycomb Louver have a narrower beam angle.

Product Components

Connection without connectors



Connection with the connectors



When connecting two or more fixtures, connector installation processing, extension cables, and T-branch connectors are required for the second and subsequent fixtures.



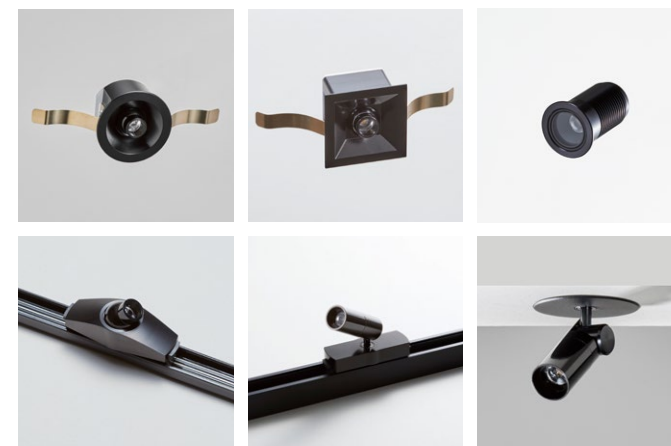
DAIKIN AMICA KARUIZAWA

OSP01-30K-30D-B
Design : KAJIMA DESIGN
Lighting Design :
Uchihara Creative Lighting Design Inc.
Photographer : Fumito Suzuki

Refer to Page 49-50 for the power supplies and dimming of Micro Spotlight Outdoor.

Power supplies & Dimming

24VDC Items



Micro Downlight Standard & Square
Micro Up Light
Micro Tracklight
Micro Light Cannon (Track)
Micro Light Cannon (Recessed)

►► Page 39-40

Others



Micro Foot Light

►► Page 41-42



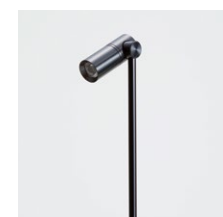
Micro Pinhole Downlight

►► Page 43-44



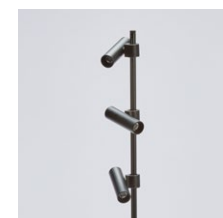
28 Spotlight (Recessed)

►► Page 45



Micro Spotlight

►► Page 46



Orbit Stand

►► Page 47-48



Micro Spotlight Outdoor

►► Page 49-50

24VDC Items Power Supplies & Dimming



Micro Downlight Standard & Square
Micro Up Light
Micro TrackLight
Micro Light Cannon (Track)
Micro Light Cannon (Recessed)

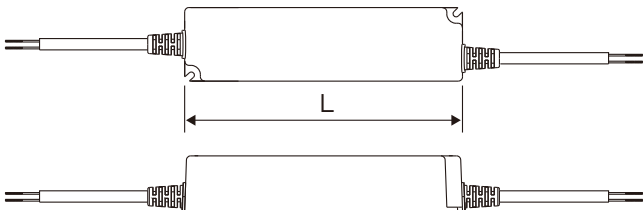
Power Supplies

24VDC Drivers

LDR24-16

Specifications
Max. Output Current : 0.67A
Max. Output Power : 16W
Protection: Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W40 x L150 x H33mm
Weight : 210g
Enclosure Rating : Suitable for use in Dry and Damp Locations/IP30 Rated
Mounting : Flange Mount
LED Module Capacity
2.6Watt LED Modules : 6 each
1.6Watt LED Modules : 10 each
1.5Watt LED Modules : 10 each

IP30



LDR24-25

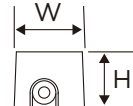
Specifications
Max. Output Current : 1.05A
Max. Output Power : 25W
Protection : Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W40 x L150 x H33mm
Weight : 360g
Enclosure Rating: Suitable for use in Dry, Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount
LED Module Capacity
2.6Watt LED Modules : 9 each
1.6Watt LED Modules : 15 each
1.5Watt LED Modules : 16 each

IP67

LDR24-40

Specifications
Max. Output Current : 1.67A
Max. Output Power : 40W
Protection : Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W43 x L163 x H33mm
Weight : 440g
Enclosure Rating : Suitable for use in Dry, Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount
LED Module Capacity
2.6Watt LED Modules : 15 each
1.6Watt LED Modules : 25 each
1.5Watt LED Modules : 26 each

IP67

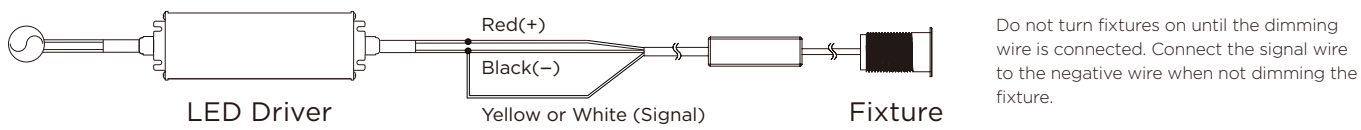


Common Specifications

Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 24VDC (+/- 4%)

EAC CB CCC
CE 05
UK CA cUL US SELV

Non-dimming Wiring Diagram



Dimming Wiring Diagrams

LC-1CH-MULTI Dimming System/24VDC

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0-10/1-10VDC protocol. In the manual mode, a pre-set light level can be set without the use of an external dimmer.



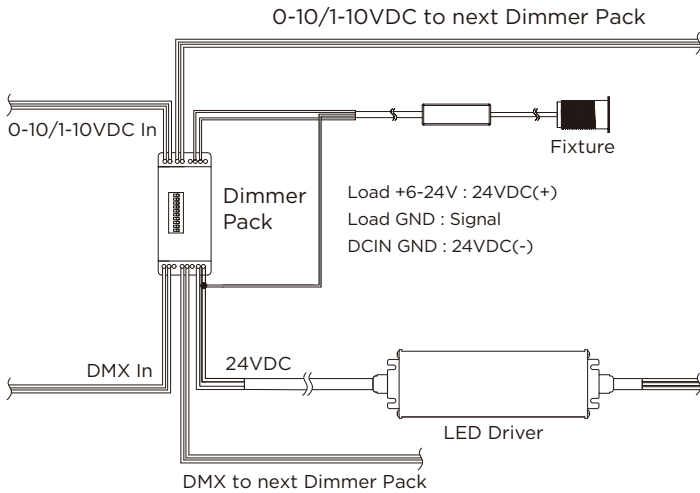
LC-1CH-MULTI
Technical Specifications :
Max. Load : 96W @ 24VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
Listing : ETL Listed/CE Certified
Operating Temperature : 0-+50°C

DMX Mode

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX Splitters.

Analog Mode 0-10/1-10VDC

For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.



Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.

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 LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.



24VDC Item (Micro Foot Light) Power Supplies & Dimming

Power Supplies

24VDC Drivers

LDR24-16

Specifications

Max. Output Current : 0.67A
Max. Output Power : 16W
Protection: Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C

Mechanical Specifications

Dimensions : W40 x L150 x H33mm
Weight : 210g
Enclosure Rating : Suitable for use in Dry
and Damp Locations/IP30 Rated
Mounting : Flange Mount

LED Module Capacity

1.5Watt LED Modules : 10 each

IP30

LDR24-25

Specifications

Max. Output Current : 1.05A
Max. Output Power : 25W
Protection : Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C

Mechanical Specifications

Dimensions : W40 x L150 x H33mm
Weight : 360g
Enclosure Rating: Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount

LED Module Capacity

1.5Watt LED Modules : 16 each

IP67

LDR24-40

Specifications

Max. Output Current : 1.67A
Max. Output Power : 40W
Protection : Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C

Mechanical Specifications

Dimensions : W43 x L163 x H33mm
Weight : 440g
Enclosure Rating : Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount

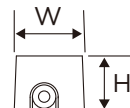
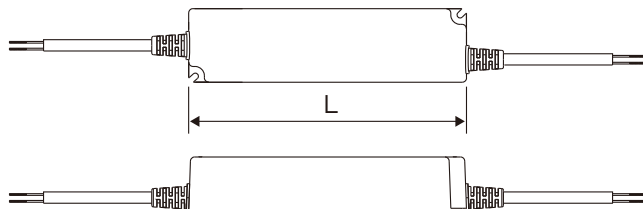
LED Module Capacity

1.5Watt LED Modules : 26 each

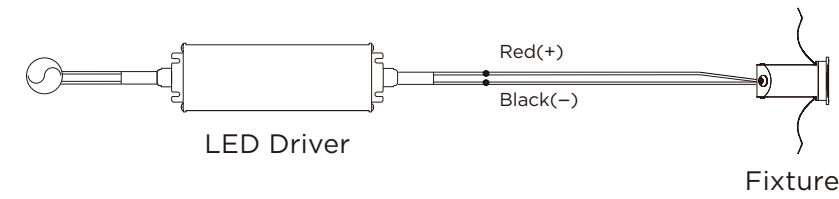
IP67

Common Specifications

Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 24VDC (+/- 4%)



Non-dimming Wiring Diagram



Do not turn fixtures on until the dimming wire is connected. Connect the signal wire to the negative wire when not dimming the fixture.

Dimming Wiring Diagrams

LC-1CH-MULTI Dimming System/24VDC

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0-10/1-10VDC protocol. In the manual mode, a pre-set light level can be set without the use of an external dimmer.



LC-1CH-MULTI

Technical Specifications :

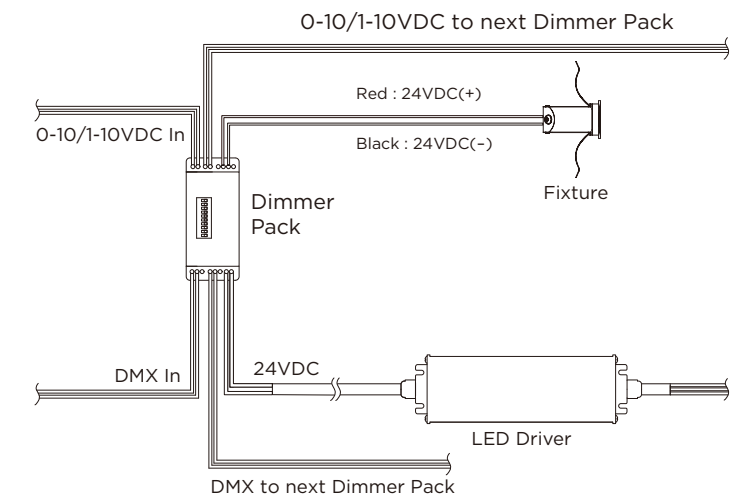
Max. Load : 96W @ 24VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
Listing : ETL Listed/CE Certified
Operating Temperature : 0-+50°C

DMX Mode

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX Splitters.

Analog Mode 0-10/1-10VDC

For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.



Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.

⚠ 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 LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.

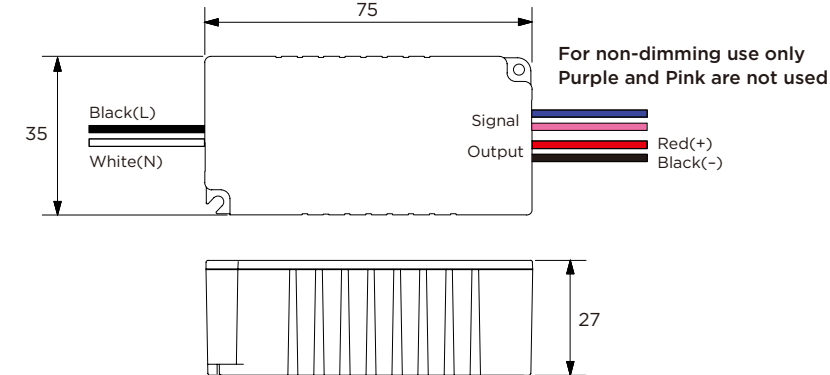


Micro Pinhole Downlight

Power Supplies & Dimming

Power supplies

LDRCC-10



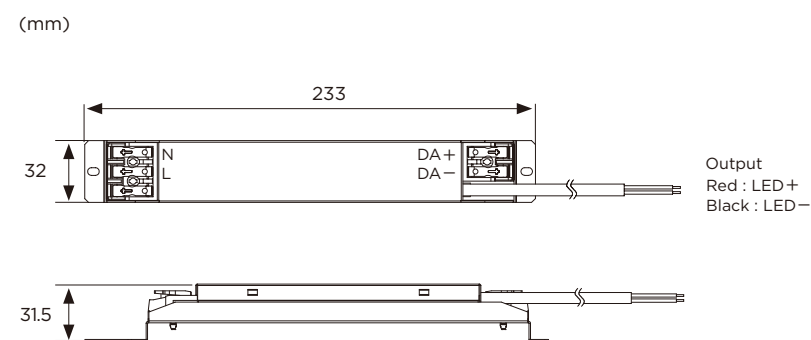
Specifications
Input Voltage : 120-277VAC
Frequency Range : 50/60 Hz
Output : 2-14VDC
Current : 700mA
Protection : Overcurrent, Overload, Short circuit
Operating Temperature : -20°C to +50°C

Mechanical Specifications
Case Material : White Polycarbonate
Dimensions : W 35 x L 75 x H 27 mm
Weight : 96g
IP Rating : IP20

LED Capacity
2.1Watt LED Modules : 1-3 each



LDCC-15W-700DALI



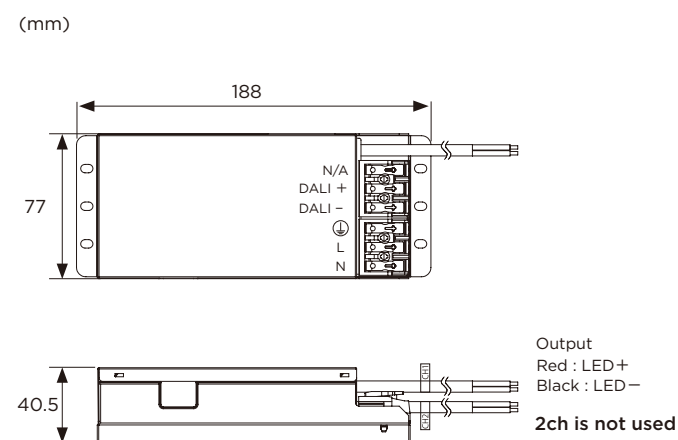
Specifications
Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 2.5-15VDC
Current : 700mA
Max. Output Power : 15W(MAX)
Protection : Overload, Overcurrent, Short Circuit
Operating Temperature : 0C to +40°C

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

LED Capacity
2.1Watt LED Modules : 1-3 each



LDCC-50W-700DALI/1ch



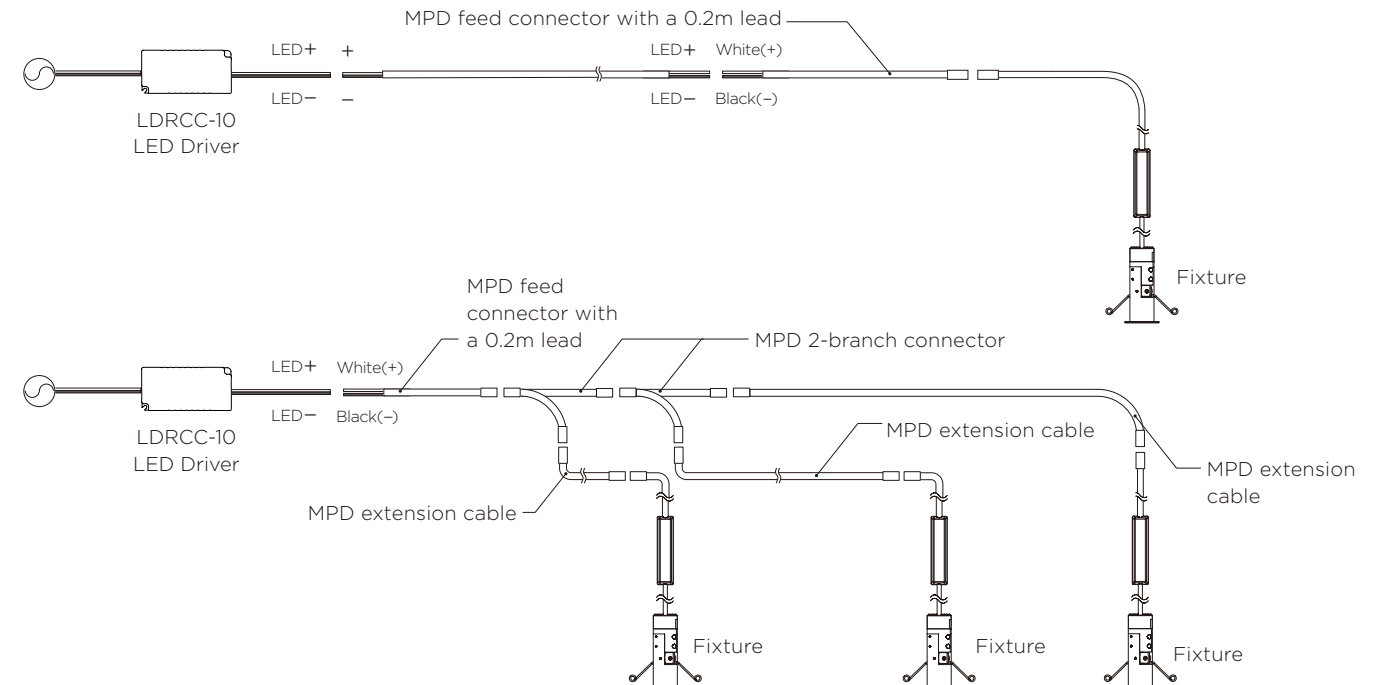
Specifications
Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 8-55VDC
Current : 700mA
Max. Output Power : 50W(MAX)
Protection : Overload, Overcurrent, Short Circuit
Operating Temperature : 0C to +40°C

Mechanical Specifications
Dimensions : W77 x L 188 x H 40.5 mm
Weight : 460g

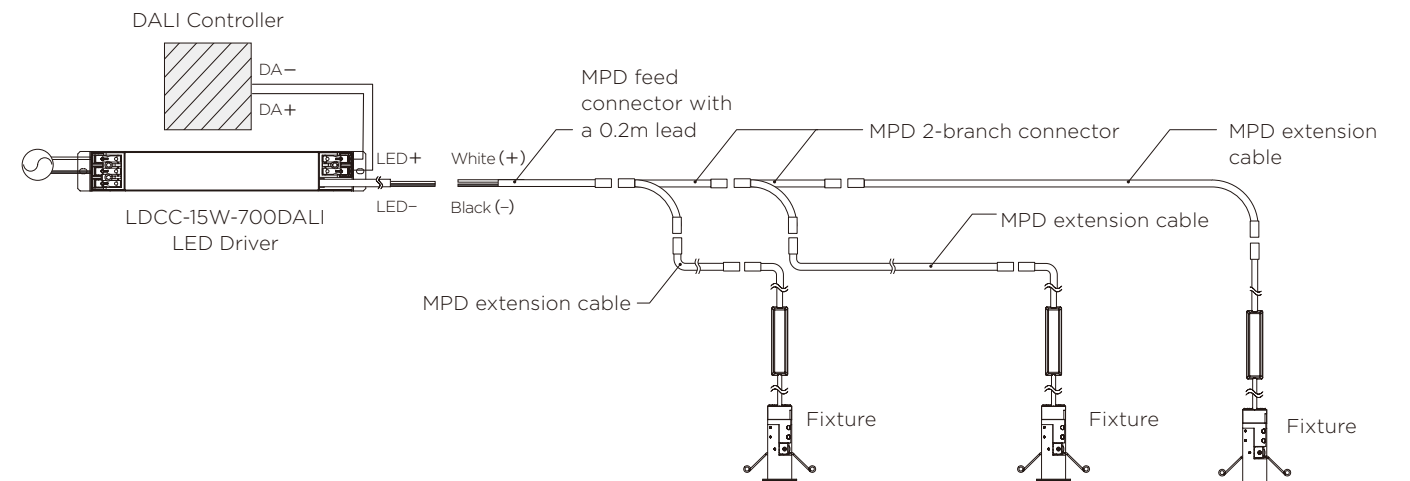
LED Capacity
2.1Watt LED Modules : 3-15 each



Non-dimming Wiring Diagram



Dimming Wiring Diagram



Required Extension Cables and Maximum lead length

Catalog #	# of LEDs	Max / Cable length
LDRCC-10	1-3LED	Total of dedicated extension cables and additional lead (AWG16) on site : 62m
LDCC-15W-700DALI	1-3LED	Total of dedicated extension cables and additional lead (AWG16) on site : 40m
LDCC-50W-700DALI/1ch	3-15LEDs	

When using the MPD 2-branch connectors, please connect and branch in the vicinity of the power supply.

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 LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.



28 Spotlight (Recessed) Power Supplies & Dimming

Power supply

LDCC-M-12W-170DALI

Specifications

Input Voltage : 120-277VAC
Frequency Range : 50/60 Hz
Current : 170mA
Max. Output Power : 12W(MAX)
Operating Temperature : 0°C to +40°C

Mechanical Specifications

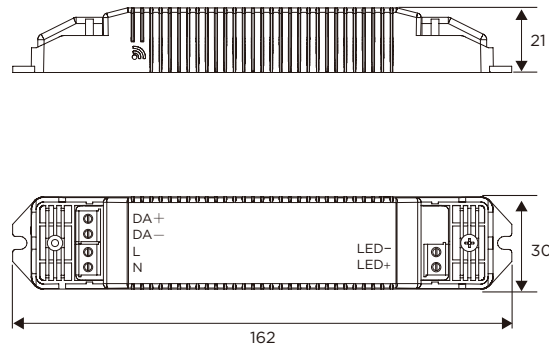
Dimensions : W 30 x L 162 x H 21 mm
Weight : 80g

LED Capacity

2.1Watt LED Modules : 1 LED

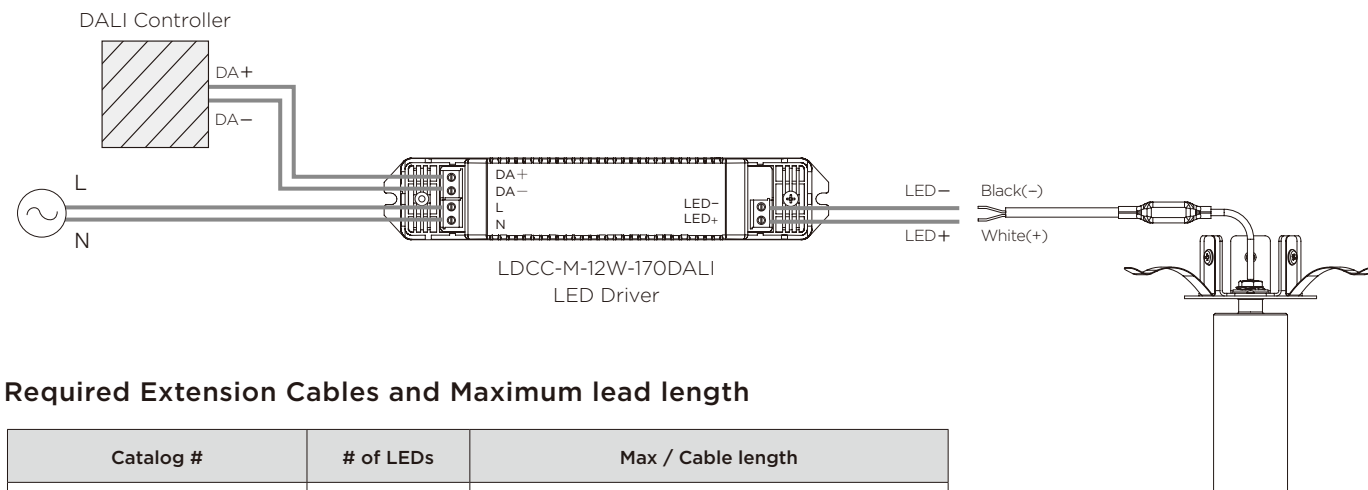


CE SELV



(mm)

Dimming Wiring Diagram



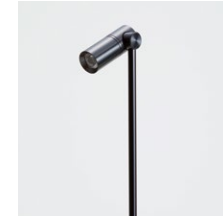
Required Extension Cables and Maximum lead length

Catalog #	# of LEDs	Max / Cable length
LDCC-M-12W-170DALI	1 LED	Total of additional lead (AWG16) on site : 40m

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 LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.

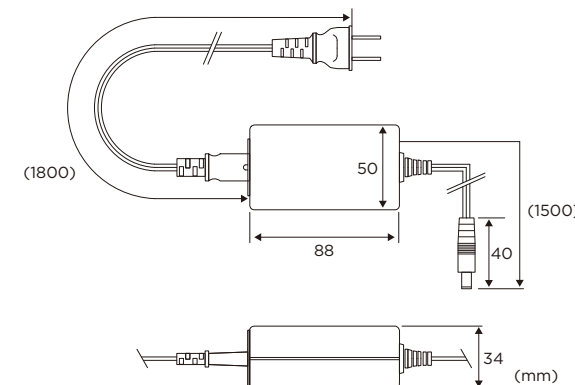


Micro Spotlight Power Supplies & Dimming

Power supplies

AC Adapter

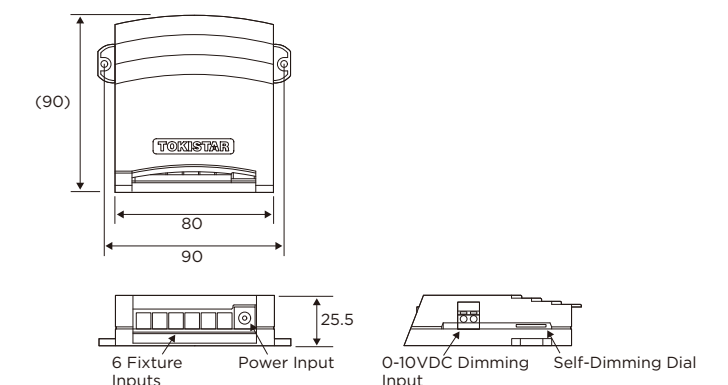
Input : 100-240VAC 47/63 Hz
Output Rating : 4A, 20W Max.
For both Non-Dimming and Dimming type



Distribution Box

Input : 5VDC
Output : 350mA x 6 channel

Features Optional 0-10VDC Dimming or Self-Dimming Dial (For Dimming type only)



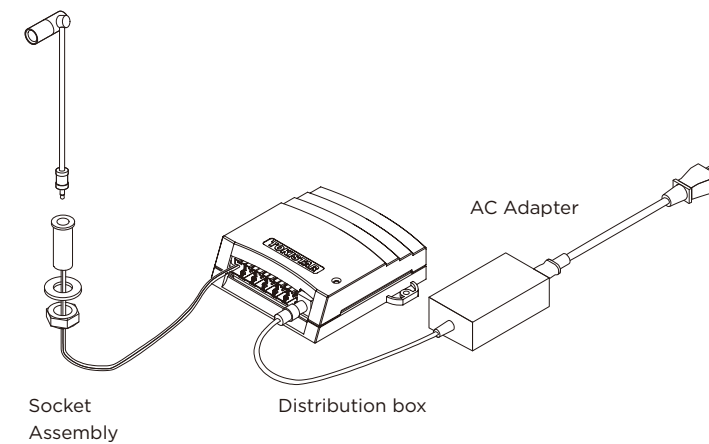
(mm)

System Components

Micro Spotlight System Components:

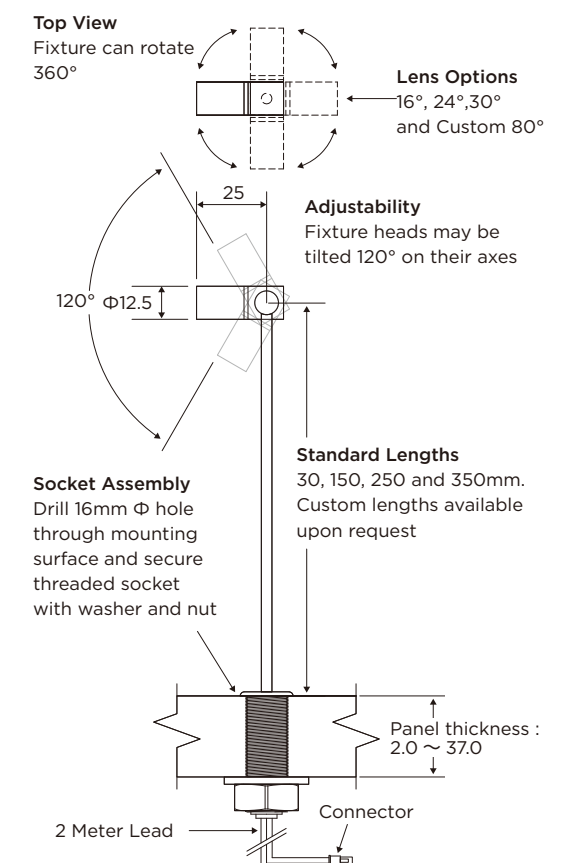
- Fixture including stem and LED head assembly
- Socket Assembly with 2 meter lead to connector
- Distribution box for operating from 1 to 6 fixtures
- Dimmable Distribution box is available
- Power Supply / AC Adapter with universal-input voltage

Micro Spotlight



Fixture / Socket Details

(mm)





Orbit Stand Power Supplies & Dimming

Power Supplies & Dimmer Packs

24VDC Drivers

LDR24-16

Specifications

Max. Output Current : 0.67A
Max. Output Power : 16W
Protection: Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C~+50°C

Mechanical Specifications

Dimensions : W40 x L150 x H33mm
Weight : 210g
Enclosure Rating: Suitable for use in Dry
and Damp Locations/IP30 Rated
Mounting : Flange Mount

LED Module Capacity

OBS LED module : 6 each

LDR24-25

Specifications

Max. Output Current : 1.05A
Max. Output Power : 25W
Protection : Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C~+50°C

Mechanical Specifications

Dimensions : W40 x L150 x H33mm
Weight : 360g
Enclosure Rating: Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount

LED Module Capacity

OBS LED module : 9 each

LDR24-40

Specifications

Max. Output Current : 1.67A
Max. Output Power : 40W
Protection : Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C~+50°C

Mechanical Specifications

Dimensions : W43 x L163 x H33mm
Weight : 440g
Enclosure Rating: Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount

LED Module Capacity

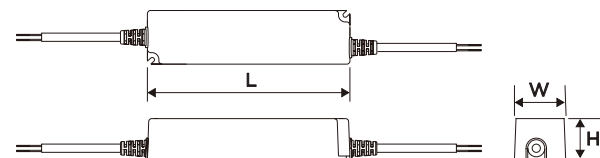
OBS LED module : 15 each

Common Specifications

Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 24VDC (+/- 4%)



IP30

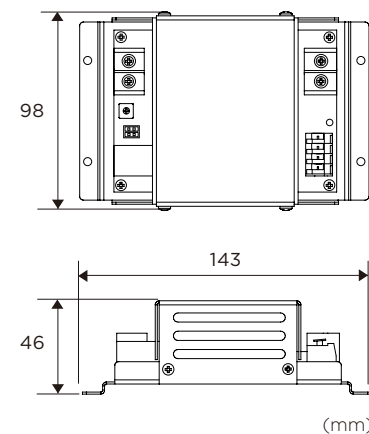


IP67

IP67

Dimmer Packs

LC-OB-DIM



Technical Specifications

Voltage : 24VDC
Max. Load : DC24V 5A
Weight : 350g

LC-1CH-MULTI

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0-10V/1-10V protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.



Technical Specifications

Max. Load : 96W @ 24VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
Listing : ETL Listed/CE Certified
Operating Temperature : 0~+50°C

DMX Mode

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX Splitters.

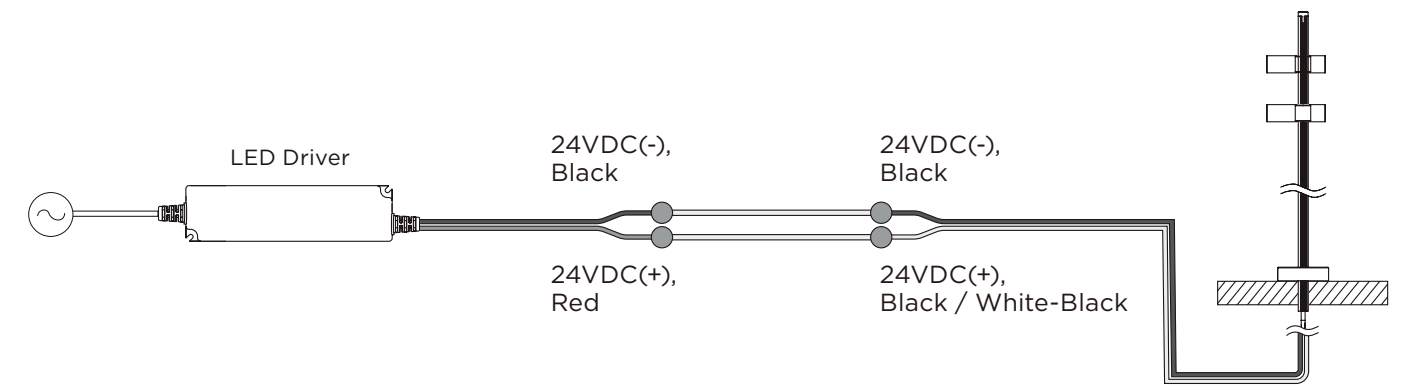
Analog Mode 0-10/1-10VDC

For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.

Non-dimming Wiring Diagram

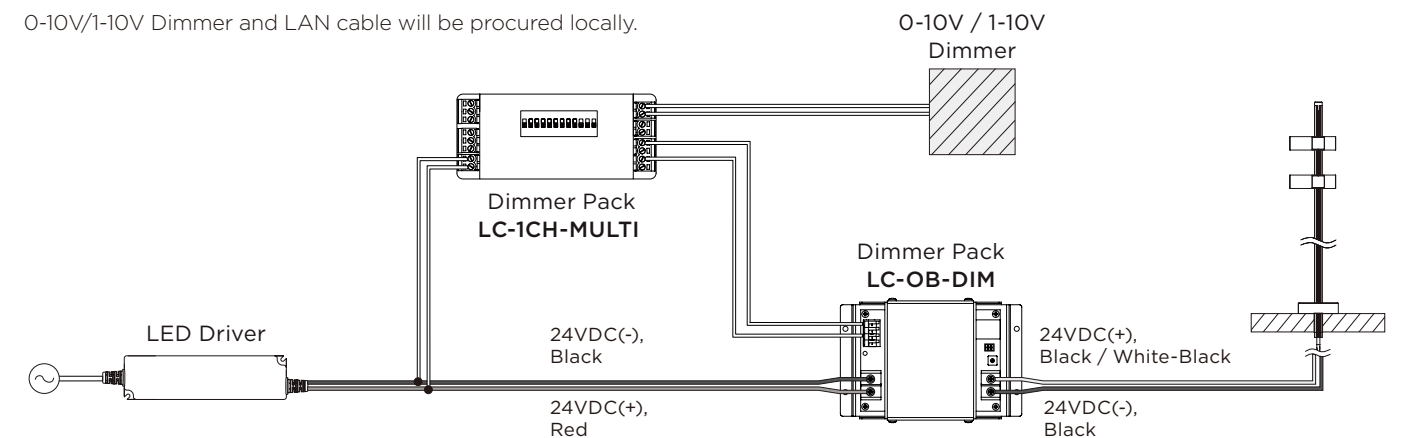


Dimming Wiring Diagram

Even when not dimming the entire lights, it is possible to dim each LED module individually by pushing it towards the power stand.

0-10V/1-10V Dimming

0-10V/1-10V Dimmer and LAN cable will be procured locally.



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 the power supply on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.



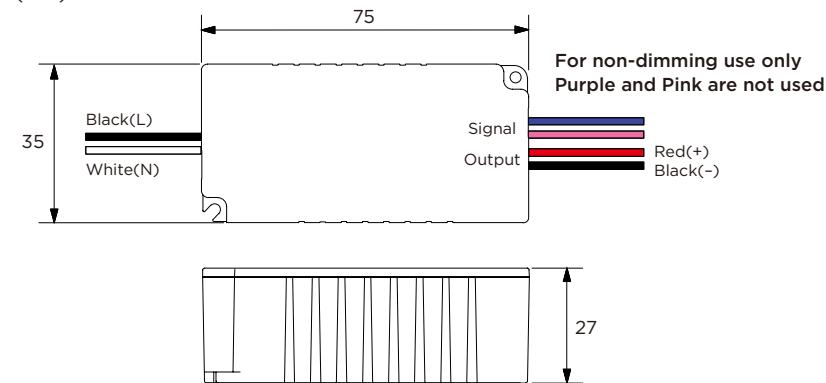
Micro Spotlight Outdoor

Power Supplies & Dimming

Power supplies

LDRCC-10

(mm)



Specifications

Input Voltage : 120-277VAC
Frequency Range : 50/60 Hz
Output : 2-14VDC
Current : 700mA
Protection : Overcurrent, Overload, Short circuit
Operating Temperature : -20°C to +50°C

Mechanical Specifications

Case Material : White Polycarbonate
Dimensions : W 35 x L 75 x H 27 mm
Weight : 96g
IP Rating : IP20

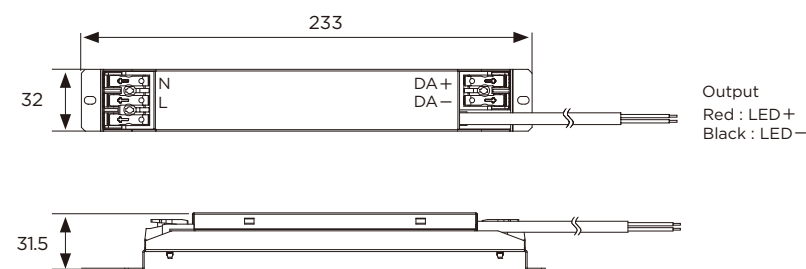
LED Capacity

2.1Watt LED Modules : 1-3 each



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

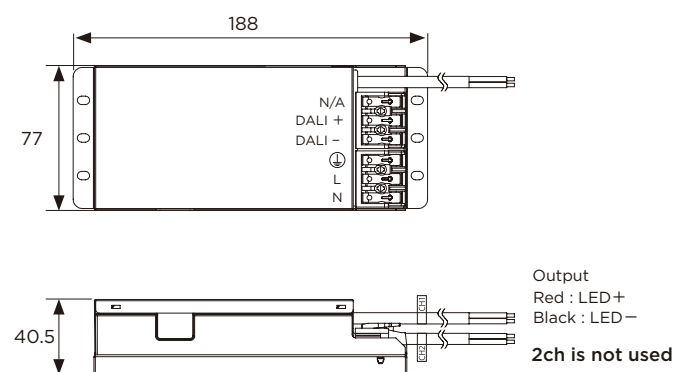
LED Capacity

2.1Watt LED Modules : 1-3 each



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

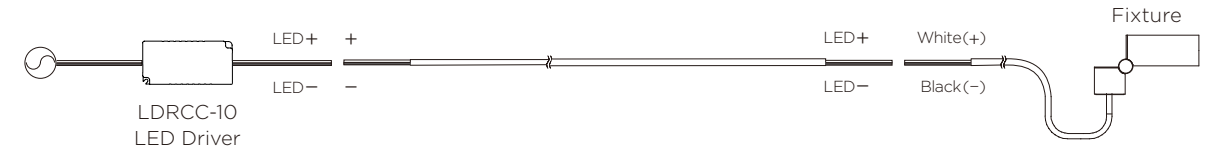
LED Capacity

2.1Watt LED Modules : 3-15 each



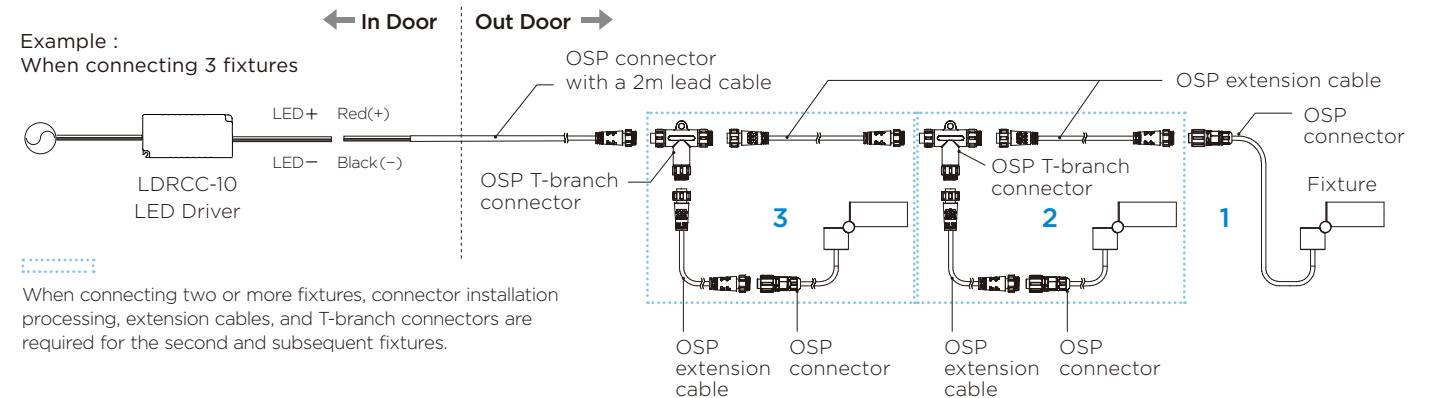
Non-dimming Wiring Diagrams

Without Connector



With Connector

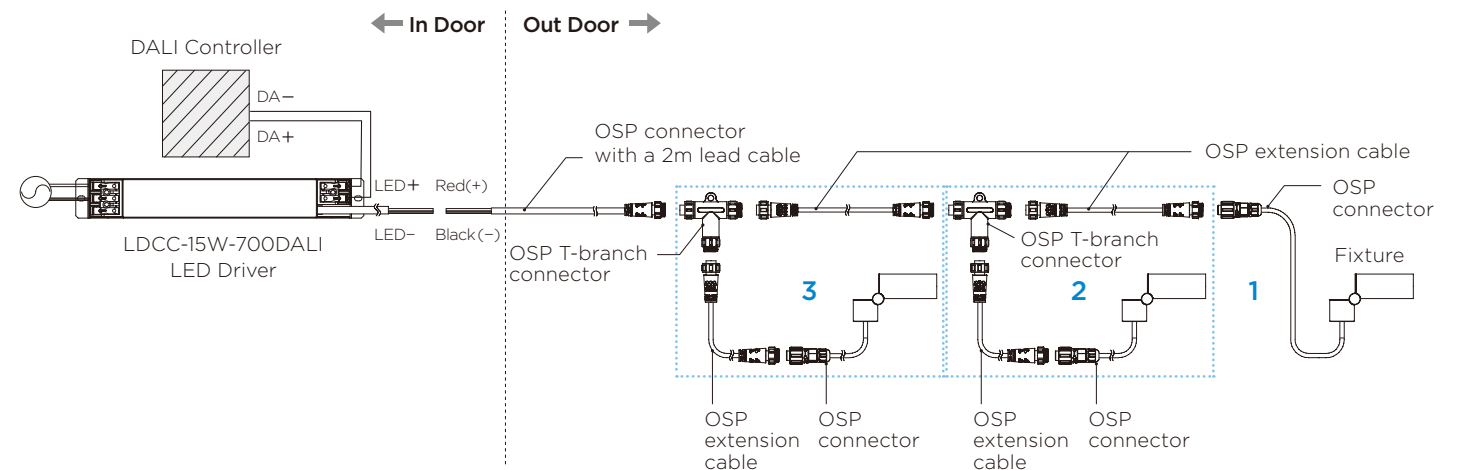
Example :
When connecting 3 fixtures



When connecting two or more fixtures, connector installation processing, extension cables, and T-branch connectors are required for the second and subsequent fixtures.

Dimming Wiring Diagram

Example : When connecting 3 fixtures



Required Extension Cables and Maximum lead length

Catalog #	# of LEDs	Max / Cable length
LDRCC-10	1-3LED	Total of dedicated extension cables and additional lead (AWG16) on site : 100m
LDCC-15W-700DALI	1-3LED	Total of dedicated extension cables and additional lead (AWG16) on site : 40m
LDCC-50W-700DALI/1ch	3-15LEDs	

⚠ 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 LED Driver on only after all connections have been made and tested.
6. Use only LED Drivers provided by Tokistar with the system.