DIFFUSION

by RJCROSS
architectural products ltd.

lighting

1

No two LED's can be exactly the same causing major issues with LED light output and color. This is why some products have large variations in color consistency.
At Diffusion Lighting we use a One Bin Selection, meaning that all of our LEDs must fit within our extremely tight parameters in order to be included in our line. Most manufactures stay away from a One Bin Selection to save money or they charge a premium. This is just another reason Diffusion Lighting is set apart from their competition. We keep the price competitive, but do not sacrifice the quality.

2

MacAdam Ellipse is a region on a chromaticity diagram which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse. The contour of the ellipse therefore represents the just noticeable differences of chromaticity. In simpler terms MacAdam Ellipse was developed to determine boundaries around target color points on the CIE chromaticity diagram whereby the source can deviate before the observer can perceive a difference in target color. MacAdam Ellipses were evolved to describe the "steps", which define standard deviations from the target point in all color directions. ANSI recommends that light engine manufactures stay within a "4 step" ellipse. We surpass ANSI's recommendations and most of our competitors in the market place with our 2 step MacAdam Ellipse.

3

At Diffusion Lighting we strive to keep our quality to the highest standards we can. So we have developed a 3Test Quality Control that happens from start to finish. This means that our LEDs get tested 3 times while our product is being constructed to ensure the end result is flawless. Our LEDs get thoughly tested after originally being manufactured, get tested after being installed on our custom PCB board and finally get tested one last time before anything ships out. This process ensures your product is exactly what you expected and will match from one batch to the other.

5

Year Warranty

Here at Diffusion LED Lighting we truly stand behind our product. We offer an outstanding 5 year warranty and work extremely hard to make sure you and your customer are happy. In some cases we have even been known to warranty issues that are not even a result of Diffusion.

DIFFUSION
by **RJCROSS** architectural products ltd. | lighting

SL1 - Indoor Diffusion LED Strip

Description

Diffusion SL-1 is a flexible 8mm wide linear LED strip. It is available in 16´ and 100´ rolls that can be cut every 6 LEDs (100mm or 4″).

Features

• 3M industrial strength adhesive tape
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
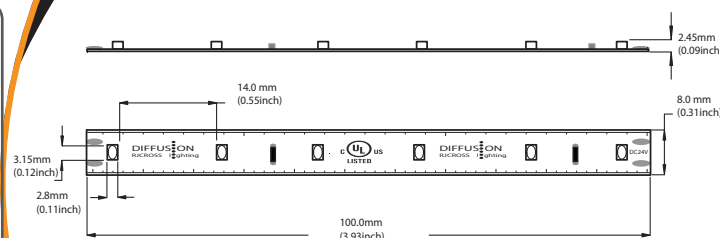
Custom lengths available upon request

Specifications

• LED : 4.8 W/m (1.5W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 60/m (18/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

2700K = 394 lm/m (120 lm/ft)
3000K = 416 lm/m (126 lm/ft)
3400K = 438 lm/m (132 lm/ft)
4100K = 460 lm/m (140 lm/ft)

Custom Kelvins available upon request

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

WARRANTY 5 YEARS WARRANTY

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Dimensions

2.45mm (0.09inch)
14.0 mm (0.55inch)
8.0 mm (0.31inch)
3.15mm (0.12inch)
2.8mm (0.11inch)
100.0mm (3.93inch)

DIFFUSION RJCROSS lighting | c UL us LISTED | DIFFUSION RJCROSS lighting | DC 24V

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL1-IN	xx	24V	xxxx
SL1-IN	16 ft 100 ft	24 Volt	2700 K 3000 K 3400 K 4100 K

SL1 - Outdoor Diffusion LED Strip

Description

Diffusion SL-1 is a flexible 10mm wide linear LED strip. It is available in 16´ and 32´ rolls that can be cut every 6 LEDs (100mm or 4″).

Features

• Includes endcaps and mounting clips with screws
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
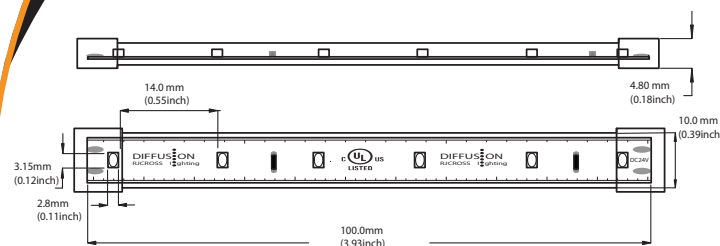• IP67

Custom lengths available upon request

Specifications

• LED : 4.8 W/m (1.5W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 60/m (18/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

2700K = 394 lm/m (120 lm/ft)
3000K = 416 lm/m (126 lm/ft)
3400K = 438 lm/m (132 lm/ft)
4100K = 460 lm/m (140 lm/ft)

Custom Kelvins available upon request

14.0 mm (0.55inch)
4.80 mm (0.18inch)
10.0 mm (0.39inch)
3.15mm (0.12inch)
2.8mm (0.11inch)
100.0mm (3.93inch)

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL1-OUT	xx	24V	xxxx
SL1-OUT	16 ft 32 ft	24 Volt	2700 K 3000 K 3400 K 4100 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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SL3 - Indoor Diffusion LED Strip

Description

Diffusion SL-3 is a flexible 8mm wide linear LED strip. It is available in 16´ and 100´ rolls that can be cut every 6 LEDs (50mm or 2″).

Features

• 3M industrial strength adhesive tape
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll

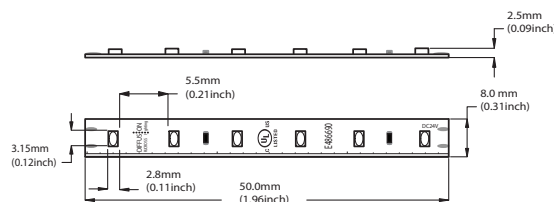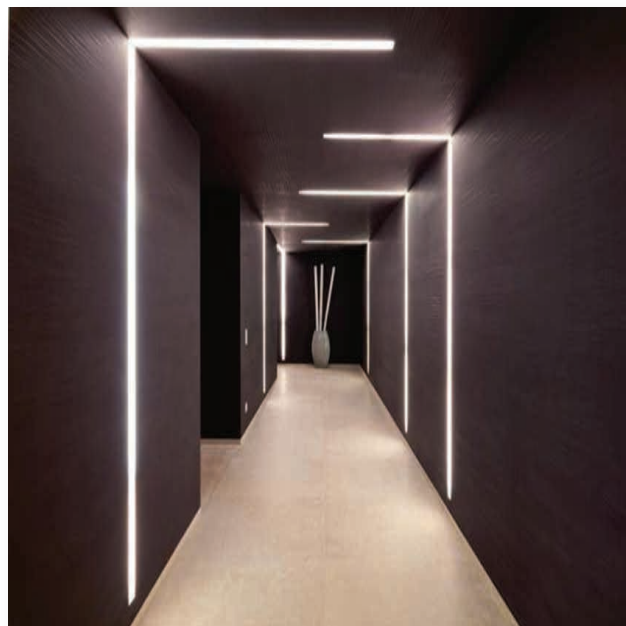*Custom lengths available upon request*

Specifications

• LED : 10 W/m (3 W/ft)
• Lamp Life : 50,000 hrs LM80
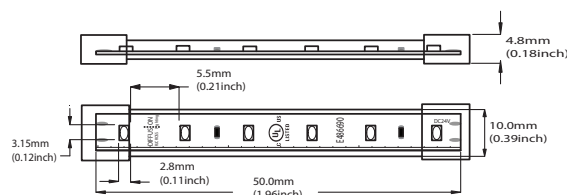• LED/Meter : 120/m (36/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

2700K = 788 lm/m (236 lm/ft)
3000K = 832 lm/m (249 lm/ft)
3400K = 876 lm/m (263 lm/ft)
4100K = 908 lm/m (279 lm/ft)

Custom Kelvins available upon request

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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2.5mm (0.09inch)
5.5mm (0.21inch)
8.0 mm (0.31inch)
3.15mm (0.12inch)
2.8mm (0.11inch)
50.0mm (1.96inch)

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL3-IN	xx	24V	xxxx
SL3-IN	16 ft	24 Volt	2700 K
	100 ft		3000 K
			3400 K
			4100 K

SL3 - Outdoor Diffusion LED Strip

Description

Diffusion SL-3 is a flexible 10mm wide linear LED strip. It is available in 16´ and 32´ rolls that can be cut every 6 LEDs (50mm or 2″).

Features

• Includes endcaps and mounting clips with screws
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
• IP67

Custom lengths available upon request

Specifications

• LED : 10 W/m (3 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 120/m (36/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

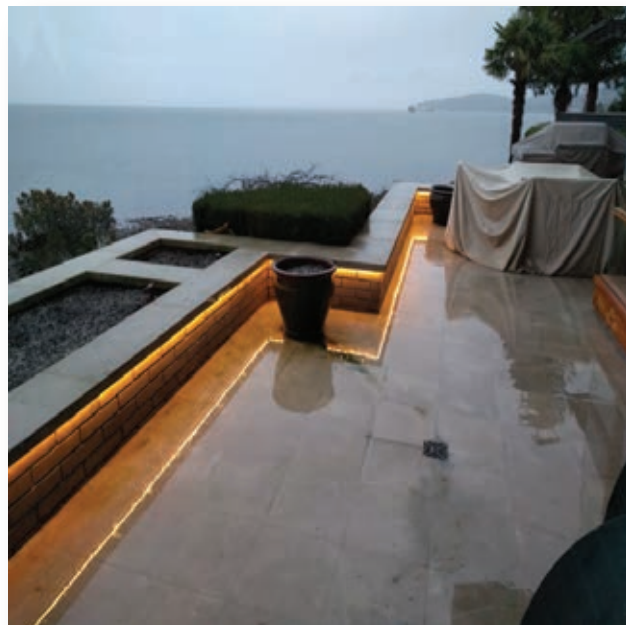2700K = 788 lm/m (236 lm/ft)
3000K = 820 lm/m (252 lm/ft)
3400K = 876 lm/m (263 lm/ft)
4100K = 908 lm/m (279 lm/ft)

Custom Kelvins available upon request

4.8mm (0.18inch)
5.5mm (0.21inch)
10.0mm (0.39inch)
3.15mm (0.12inch)
2.8mm (0.11inch)
50.0mm (1.96inch)

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL3-OUT	xx	24V	xxxx
SL3-OUT	16 ft 32 ft	24 Volt	2700 K 3000 K 3400 K 4100 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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SL4 - Indoor Diffusion LED Strip

Description

Diffusion SL-4 is a flexible 5mm wide side mount linear LED strip. It is available in 16´ rolls that can be cut every 6 LEDs (50mm or 2″).

Features

• 3M industrial strength adhesive tape
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll

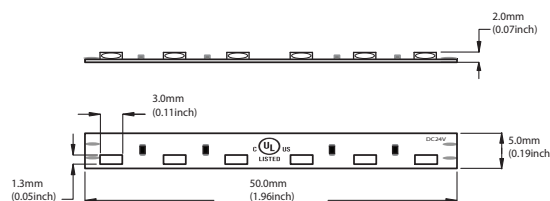*Custom lengths available upon request*
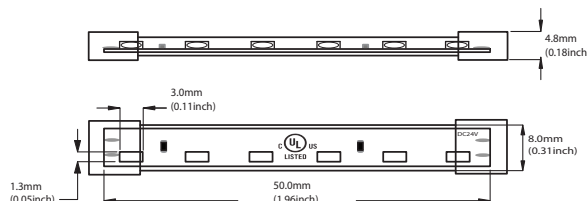
Specifications

• LED : 10 W/m (3 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 120/m (36/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

3000K = 728 lm/m (222 lm/ft)

4000K = 812 lm/m (247 lm/ft)

Custom Kelvins available upon request

2.0mm (0.07inch)
3.0mm (0.11inch)
5.0mm (0.19inch)
1.3mm (0.05inch)
50.0mm (1.96inch)
DC24V

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL4-IN	xx	24V	xxxx
SL4-IN	16 ft	24 Volt	3000 K 4000 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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SL4 - Outdoor Diffusion LED Strip

Description

Diffusion SL-4 is a flexible 8mm wide side mount linear LED strip. It is available in 16´ and 32´ rolls that can be cut every 6 LEDs (50mm or 2″).

Features

• Includes endcaps and mounting clips with screws
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
• IP67

Custom lengths available upon request

Specifications

• LED : 10 W/m (3 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 120/m (36/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

3000K = 728 lm/m (222 lm/ft)

4000K = 812 lm/m (247 lm/ft)

Custom Kelvins available upon request

4.8mm (0.18inch)
3.0mm (0.11inch)
8.0mm (0.31inch)
DC24V
c UL us LISTED
50.0mm (1.96inch)
1.3mm (0.05inch)

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL4-OUT	xx	24V	xxxx
SL4-OUT	16 ft 32 ft	24 Volt	3000 K 4000 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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SL5-RGB(W) Indoor Diffusion LED Strip

Description

Diffusion SL5-RGB is a flexible 10mm wide linear LED strip. Diffusion SL5-RGBW is a flexible 12mm wide linear LED strip. Both are available in 16´ and 100´ rolls that can be cut every 6 LEDs (100mm or 4″).

Features

• 3M industrial strength adhesive tape
• Long life LED : 50,000 hrs
• 2´ power feeds on both ends of every roll
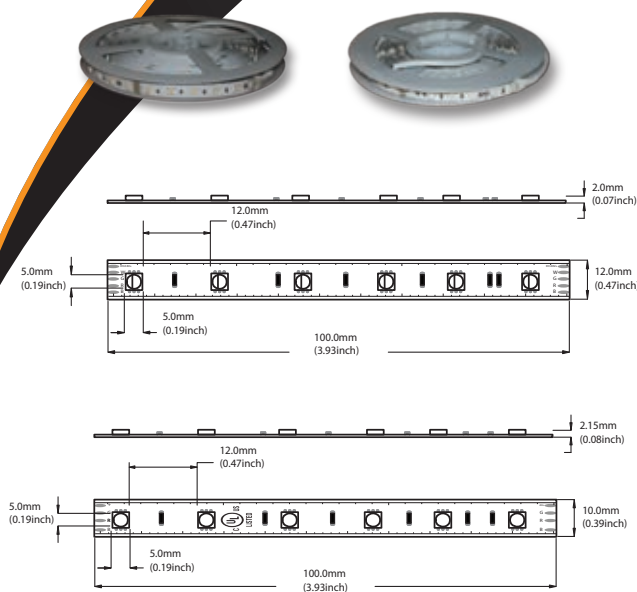
Custom lengths available upon request
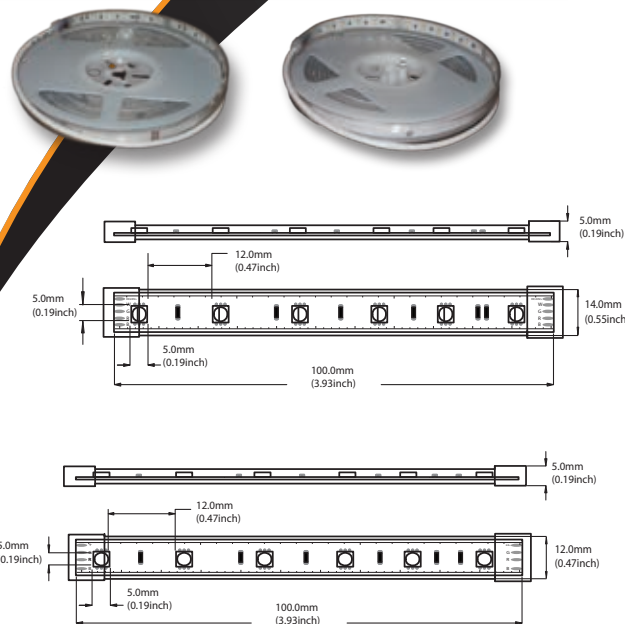
Specifications

• RGB LED : 14.4 W/m (4.32 W/ft)
• RGBW LED : 19.2 W/m (6 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 60/m (18/ft)
• Power Input : 24V DC

Lumens

RGB =Up to 591 lm/m (180 lm/ft)

W(2700K) = Up to 400 lm/m (122 lm/ft)

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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Strip diagram 1

2.0mm (0.07inch)
12.0mm (0.47inch)
12.0mm (0.47inch)
5.0mm (0.19inch)
5.0mm (0.19inch)
100.0mm (3.93inch)

Strip diagram 2

2.15mm (0.08inch)
12.0mm (0.47inch)
10.0mm (0.39inch)
5.0mm (0.19inch)
5.0mm (0.19inch)
100.0mm (3.93inch)

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL5-IN	xx	24V	xxxx
SL5-IN	16 ft 100 ft	24 Volt	RGB RGBW

SL5-RGB(W) Outdoor Diffusion LED Strip

Description

Diffusion SL5-RGB is a flexible 12mm wide linear LED strip. Diffusion SL5-RGBW is a flexible 14mm wide linear LED strip. Both are available in 16´ and 32´ rolls that can be cut every 6 LEDs (100mm or 4″).

Features

• Includes endcaps and mounting clips with screws
• Long life LED : 50,000 hrs
• 2´ power feeds on both ends of every roll
• IP67

Custom lengths available upon request

Specifications

• RGB LED : 14.4 W/m (4.32 W/ft)
• RGBW LED : 19.2 W/m (6 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 60/m (18/ft)
• Power Input : 24V DC

Lumens

RGB =Up to 591 lm/m (180 lm/ft)

W(2700K) = Up to 400 lm/m (122 lm/ft)

| 5.0mm (0.19inch) | 12.0mm (0.47inch) | 5.0mm (0.19inch) | 100.0mm (3.93inch) | 5.0mm (0.19inch) | 14.0mm (0.55inch) |

| 5.0mm (0.19inch) | 12.0mm (0.47inch) | 5.0mm (0.19inch) | 100.0mm (3.93inch) | 5.0mm (0.19inch) | 12.0mm (0.47inch) |

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL5-OUT	xx	24V	xxxx
SL5-OUT	16 ft 32 ft	24 Volt	RGB RGBW

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

WARRANTY 5 YEARS WARRANTY

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www.rjcross.com | info@rjcross.com | 1-866-RJCROSS (752-7677) | Surrey B.C. Canada

SL6 - Indoor Diffusion LED Strip

Description

Diffusion SL-6 is a flexible 10mm wide linear LED strip. It is available in 16´ and 100´ rolls that can be cut every 6 LEDs (50mm or 2″).

Note: SL6 needs to be installed in aluminum channel

Features

• 3M industrial strength adhesive tape
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
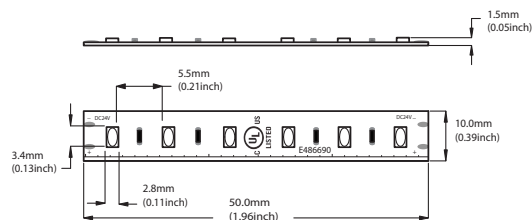
Custom lengths available upon request

Specifications

• LED : 14.4 W/m (4.5 W/ft)
• Lamp Life : 50,000 hrs LM80
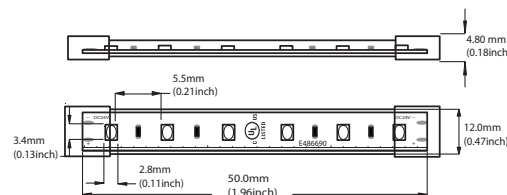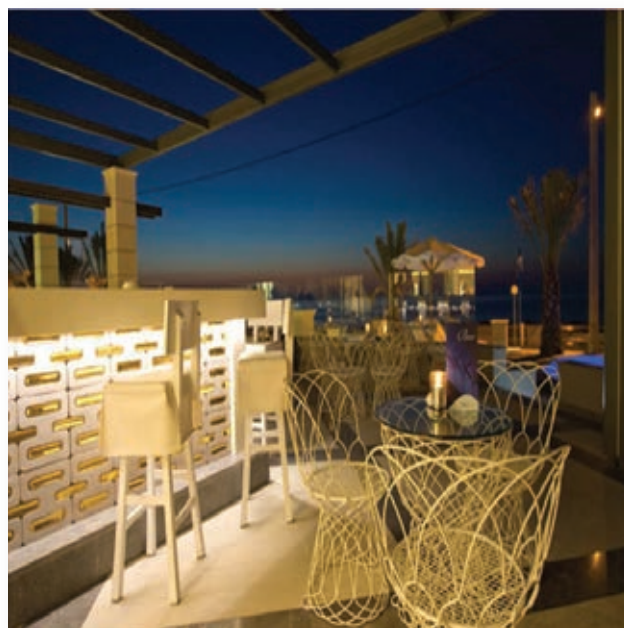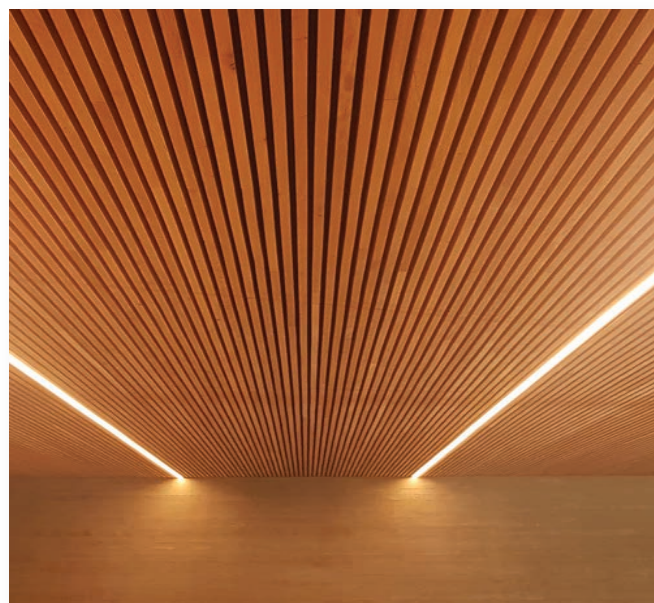• LED/Meter : 120/m (36/ft)
• Power Input : 24V DC
• CRI > 91

Lumens

2700K = 1220 lm/m (366 lm/ft)
3000K = 1282 lm/m (384 lm/ft)
3400K = 1344 lm/m (402 lm/ft)
4100K = 1400 lm/m (420 lm/ft)

Custom Kelvins available upon request

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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Diagram dimensions:
1.5mm (0.05inch)
5.5mm (0.21inch)
3.4mm (0.13inch)
2.8mm (0.11inch)
50.0mm (1.96inch)
10.0mm (0.39inch)
DC24V   E486690   DC24V

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL6-IN	xx	24V	xxxx
SL6-IN	16 ft	24 Volt	2700 K
	100 ft		3000 K
			3400 K
			4100 K

DIFFUSION
by RJCROSS
architectural products ltd.
lighting

SL6 - Outdoor Diffusion LED Strip

Description

Diffusion SL-6 is a flexible 12mm wide linear LED strip. It is available in 16´ and 32´ rolls that can be cut every 6 LEDs (50mm or 2″).

Features

• Includes endcaps and mounting clips with screws
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 2´ power feeds on both ends of every roll
• IP67

Custom lengths available upon request

Specifications

• LED : 14.4 W/m (4.5 W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 120/m (36/ft)
• Power Input : 24 VDC
• CRI > 91

Lumens

2700K = 1220 lm/m (366 lm/ft)
3000K = 1282 lm/m (384 lm/ft)
3400K = 1344 lm/m (402 lm/ft)
4100K = 1400 lm/m (420 lm/ft)

Custom Kelvins available upon request

4.80 mm (0.18inch)
5.5mm (0.21inch)
12.0mm (0.47inch)
3.4mm (0.13inch)
2.8mm (0.11inch)
50.0mm (1.96inch)
E486690

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL6-OUT	xx	24V	xxxx
SL6-OUT	16 ft 32 ft	24 Volt	2700 K 3000 K 3400 K 4100 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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SL7.5 - Indoor Diffusion LED Strip

Description

Diffusion LED Strip SL7.5 is a flexible 10mm wide linear LED strip. It is only available in custom cut and can be cut every 7 LEDs (25mm or 1").

Note: SL7.5 needs to be installed in aluminum channel

Features

• 3M industrial strength adhesive tape (included)
• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 24″ leads on both ends of each roll

Custom lengths recommended

Must order in custom cuts
No connectors for SL7 series

Specifications

• LED : 16.4 W/m (5W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 252/m (77/ft)
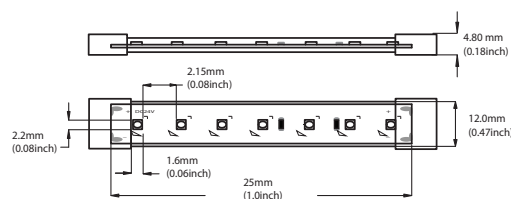• Power Input : 24V DC
• CRI > 95
• R values all over 95

Lumens

2700K = 1576 lm/m (472 lm/ft)
3000K = 1680 lm/m (504 lm/ft)
3400K = 1800 lm/m (540 lm/ft)
4100K = 1936 lm/m (580 lm/ft)

Custom Kelvins available upon request

1.0mm (0.04inch)
2.15mm (0.08inch)
2.2mm (0.08inch)
10.0mm (0.39inch)
1.6mm (0.06inch)
25mm (1.0inch)
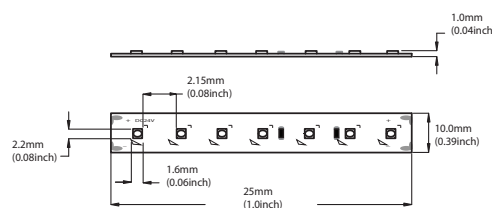
ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.5-IN	xx	24V	xxxx
SL7.5-IN		24 Volt	2700 K 3000 K 3400 K 4100 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

c UL us LISTED

SL7.5 - Outdoor Diffusion LED Strip

Description

Diffusion LED Strip SL7.5 is a flexible 12mm wide linear LED strip. It is only available in custom cut and can be cut every 7 LED chips (25mm/1″).

Note: SL7.5 needs to be installed in aluminum channel

Features

• Long life LED : 50,000 hrs
• Dimmable with dimming power supply
• 24″ leads on both ends of each roll
• IP 65

Custom lengths recommended

Specifications

• LED : 14.4 W/m (4.5W/ft)
• Lamp Life : 50,000 hrs LM80
• LED/Meter : 252/m (77/ft)
• Power Input : 24V DC
• CRI > 95
• R values all over 95

Lumens

2700K = 1418 lm/m (425 lm/ft)
3000K = 1512 lm/m (453 lm/ft)
3400K = 1620 lm/m (486 lm/ft)
4100K = 1742 lm/m (522 lm/ft)

Custom Kelvins available upon request

Must order in custom cuts

4.80 mm (0.18inch)
2.15mm (0.08inch)
2.2mm (0.08inch)
12.0mm (0.47inch)
1.6mm (0.06inch)
25mm (1.0inch)

ORDERING CODE

ORDERING CODE	LENGTH	VOLTAGE	COLOUR
SL7.5-OUT	xx	24V	xxxx
SL7.5-OUT		24 Volt	2700 K
			3000 K
			3400 K
			4100 K

1 BIN SELECTION
2 STEP MACADAM ELLIPSE
3 TEST QUALITY CONTROL

5 YEARS WARRANTY

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UL

SLC-002S

Description

Low profile, anodized aluminum channel that comes complete with three clear mounting clips, two grey endcaps, and an opal polycarbonate lens.

Extra clips and endcaps available by request.

Specifications

- Channel : Anodized aluminum extrusion
- Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant
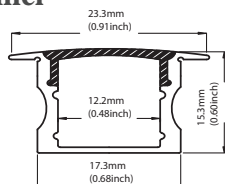- Length : 8´ (2.44 meters)
- Color : Silver, White, Black
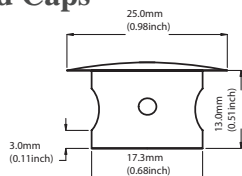
Custom color available.

Applications

- Coves
- Top kitchen cabinet
- Wardrobe
- Shelving
- Closets

If seen directly or through a reflective surface, not recommended unless used with SL7.5

NEW FLAT LENS (Standard on every order)
If you need Old Round Lens please specify when ordering

Shows Dotting unless used with high fidelity SL7 Series ribbon.

Channel

12.3mm (0.48inch)
7.0mm (0.27inch)
17.2mm (0.67inch)

End Caps

7.0mm (0.27inch)
17.3mm (0.68inch)

Mounting Clips

21.5mm (0.85inch)
2.0mm (0.07inch)
14.5mm (0.57inch)
2.0mm (0.07inch)
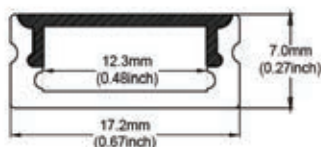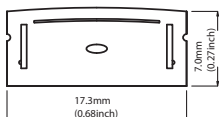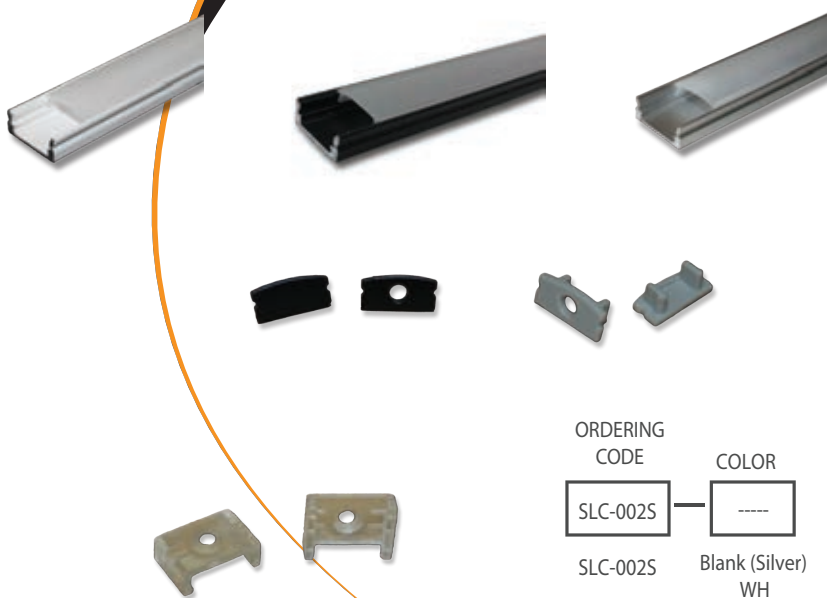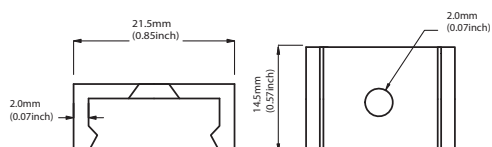
ORDERING CODE	COLOR
SLC-002S	-----
SLC-002S	Blank (Silver) WH BK

Custom RAL color upon request.

SLC-003R

Description

Recessed, anodized aluminum channel that comes complete with three clear mounting clips, two grey endcaps, and an opal polycarbonate lens.

Extra clips and endcaps available by request.

Specifications

• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant
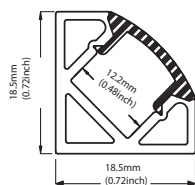• Length : 8´ (2.44 meters)
• Color : Silver, White, Black
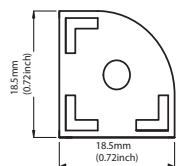
Custom color available.

Applications

• Drywall   • Shelving
• Wall surfaces   • Furniture
• Kitchen cabinet   • Recess

Channel

23.3mm (0.91inch)
12.2mm (0.48inch)
15.3mm (0.60inch)
17.3mm (0.68inch)

End Caps

25.0mm (0.98inch)
13.0mm (0.51inch)
3.0mm (0.11inch)
17.3mm (0.68inch)

Mounting Clips

21.5mm (0.85inch)
2.0mm (0.07inch)
2.0mm (0.07inch)
14.5mm (0.57inch)
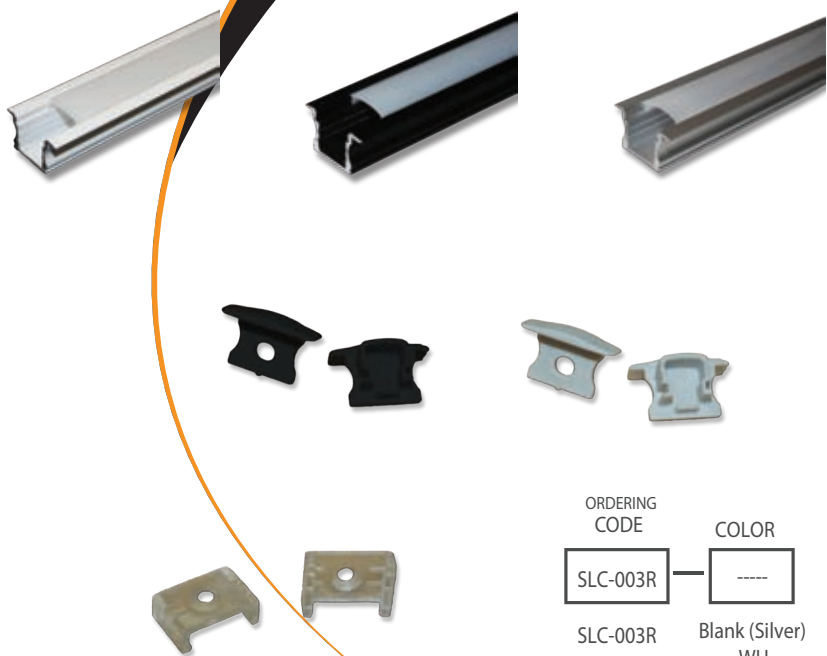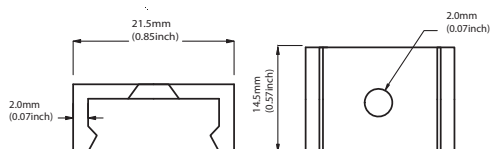
ORDERING CODE	COLOR
SLC-003R	-----
SLC-003R	Blank (Silver) WH BK

Custom RAL color upon request.

SLC-007S

Description

45 degree,anodized aluminum channel that comes complete with three clear mounting clips, two grey endcaps, and an opal polycarbonate lens.

Extra clips and endcaps available by request.

Specifications

- Channel : Anodized aluminum extrusion
- Lens : Opal polycarbonate, high heat resistant,
- UV stable, shatter resistant
- Length : 8´ (2.44 meters)
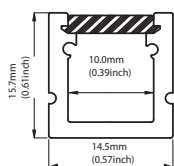- Color : Silver, White, Black
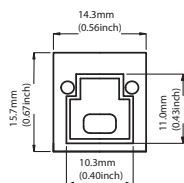
Custom color available.

Applications

- Coves
- Kitchen cabinet
- Wardrobe
- Shelving

Channel
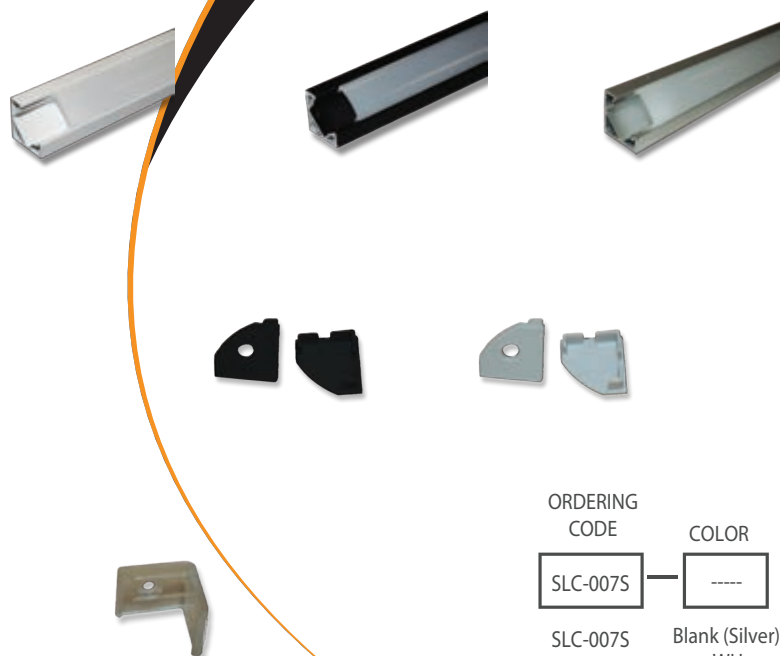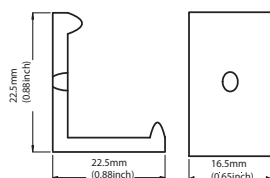
18.5mm
(0.72inch)

12.2mm
(0.48inch)

18.5mm
(0.72inch)

End Caps

18.5mm
(0.72inch)

18.5mm
(0.72inch)

Mounting Clips

22.5mm
(0.88inch)

22.5mm
(0.88inch)

16.5mm
(0.65inch)

ORDERING CODE	COLOR
SLC-007S	-----
SLC-007S	Blank (Silver) WH BK

Custom RAL color upon request.

DIFFUS ON

by RJCROSS
architectural products ltd.

l ghting

SLC-402S

Description
Narrow anodized aluminum channel that comes complete with mounting hardware, two grey endcaps and extra thick opal polycarbonate lens for zero dotting.

Extra clips and endcaps available by request.

Specifications
• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant.
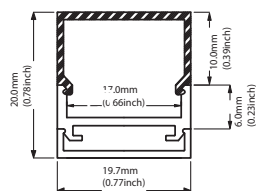• Length : 8´ (2.44 meters)
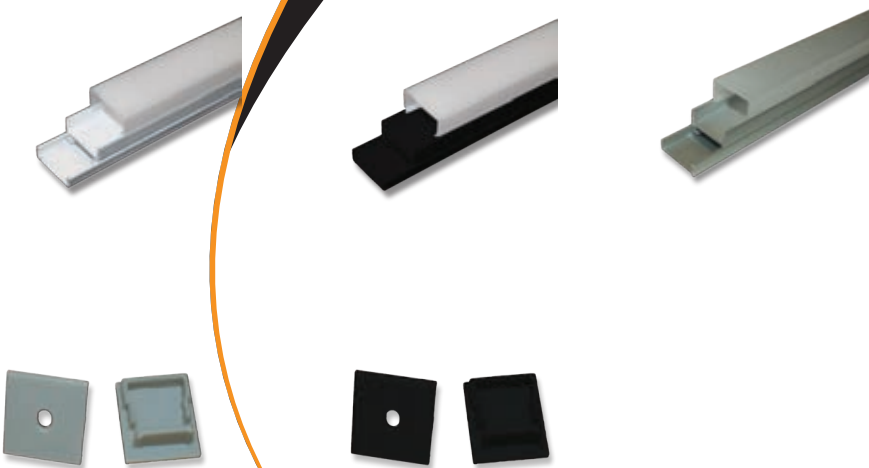• Color : Silver, White, Black

Custom color available.

Applications
• Platforms   • Stairs
• Shelving   • Furniture
• Niches

Channel

10.0mm (0.39inch)
15.7mm (0.61inch)
14.5mm (0.57inch)

End Caps

14.3mm (0.56inch)
15.7mm (0.57inch)
11.0mm (0.43inch)
10.3mm (0.40inch)

Mounting Clips

7.0mm (0.27inch)
3.0mm (0.11inch)
8.5mm (0.33inch)
14.0mm (0.55inch)
17.0mm (0.66inch)
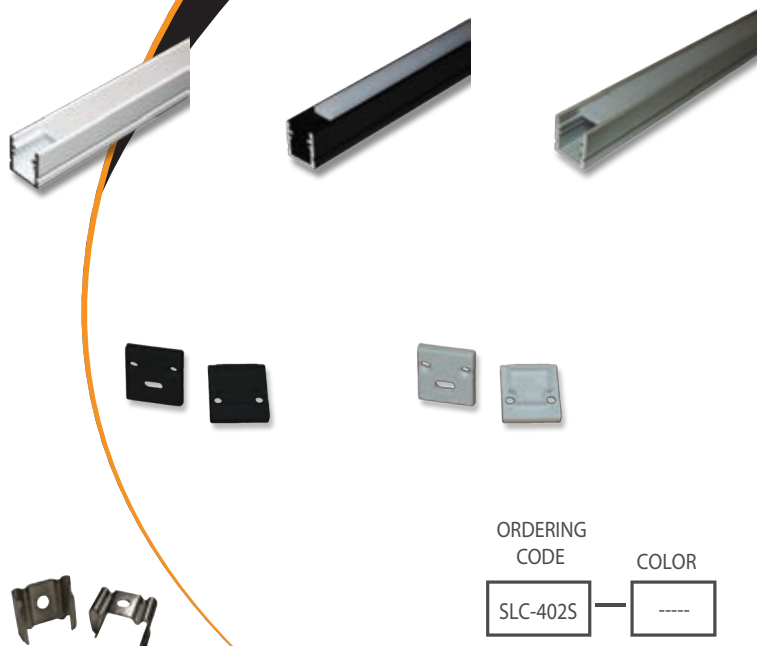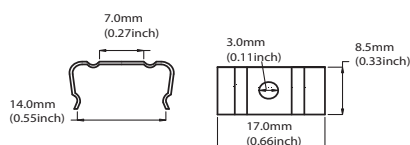
ORDERING CODE	COLOR
SLC-402S	-----
SLC-402S	Blank (Silver) WH BK

Custom RAL color upon request.

SLC-011S

Description

Two part anodized aluminum channel that comes complete with two grey endcaps and an opal polycarbonate lens.

Extra endcaps available by request.

Specifications

• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant
• Length : 8´ (2.44 meters)
• Color : Silver, White, Black
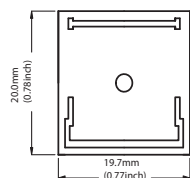
Custom color available.

Applications

• Behind mirrors	• Wardrobe
• Surface mount	• Shelving
• Kitchen cabinet	• Closets

Channel

20.0mm (0.78inch)
17.0mm (0.66inch)
10.0mm (0.39inch)
6.0mm (0.23inch)
19.7mm (0.77inch)

End Caps

20.0mm (0.78inch)
19.7mm (0.77inch)

ORDERING CODE	COLOR
SLC-011S	-----
SLC-011S	Blank (Silver) WH BK

Custom RAL color upon request.

SLC-012T

Description

Trimless anodized aluminum channel that comes complete with two aluminum endcaps and an opal polycarbonate lens.
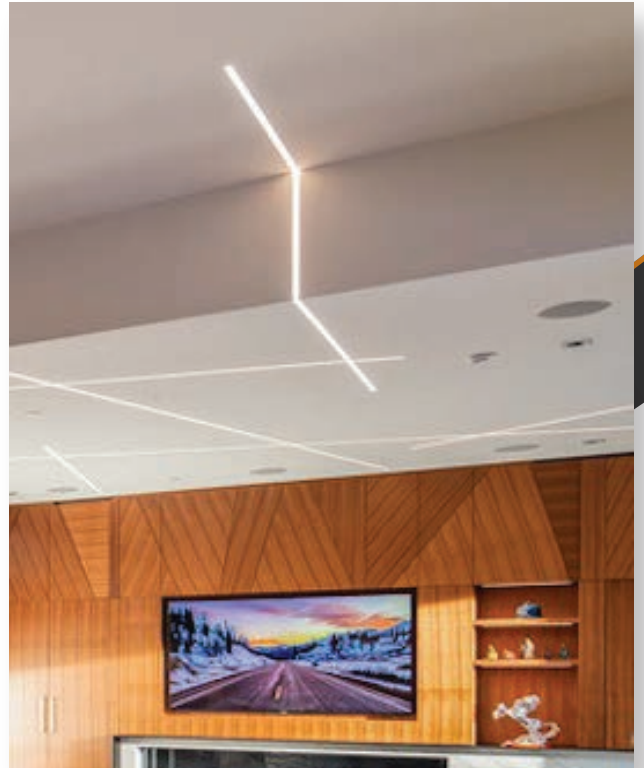
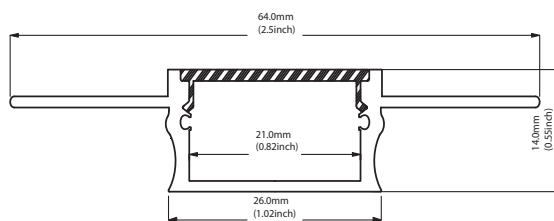*Extra clips and endcaps available by request.*

Specifications

• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant
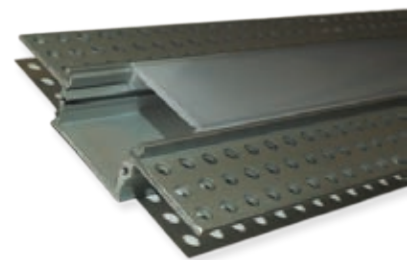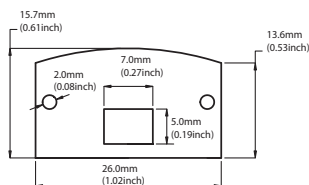• Length : 8´ (2.44 meters)

Applications

• Drywall
• Flanges can be cut off and installed in wood

Channel

64.0mm (2.5inch)
21.0mm (0.82inch)
26.0mm (1.02inch)
14.0mm (0.55inch)

End Caps

15.7mm (0.61inch)
7.0mm (0.27inch)
2.0mm (0.08inch)
5.0mm (0.19inch)
13.6mm (0.53inch)
26.0mm (1.02inch)

SLC-026F

Description

Sideways flexible channel that comes complete with mounting hardware for curved application.

Extra clips and endcaps available by request.

Specifications

• Channel : Flexible opal channel
• Note : Inner dimension is approx 11mm and can accommodate SL1, SL3, SL4, SL6 & RGB indoor ribbon
• Length : Cut to suit
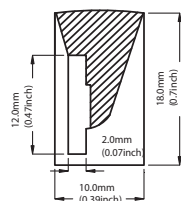• Note : Minor color shift in this channel
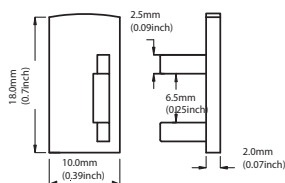• IP67

Custom cut made to order.

Applications

• Gardens
• Walkways
• Exterior and, or Interior use

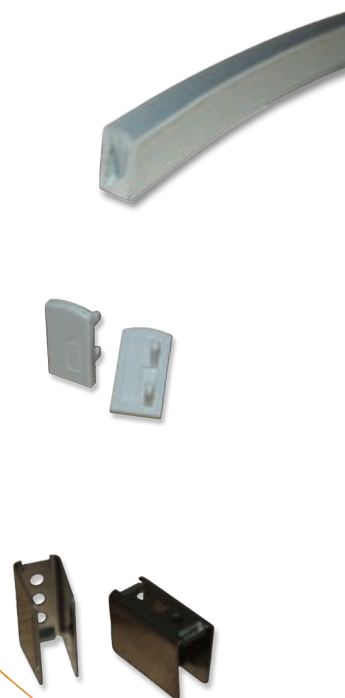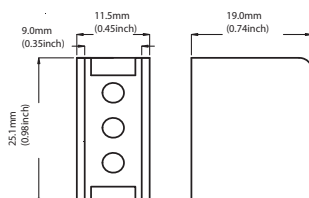• Curved applications
• Behind circle mirrors
• Curved windows

Channel

12.0mm (0.47inch)
18.0mm (0.7inch)
2.0mm (0.07inch)
10.0mm (0.39inch)

End Caps

2.5mm (0.09inch)
18.0mm (0.7inch)
6.5mm (0.25inch)
10.0mm (0.39inch)
2.0mm (0.07inch)

Mounting Clips

9.0mm (0.35inch)
11.5mm (0.45inch)
19.0mm (0.74inch)
25.1mm (0.98inch)

SLC-034R

Description

In-floor anodized aluminum channel that comes complete with two grey endcaps and a 3mm thick opal polycarbonate lens.

Extra endcaps available by request.

Specifications

• Channel : Anodized aluminum extrusion
• Lens : 3mm thick opal polycarbonate, high heat resistant, UV stable, shatter resistant
• Length : 8´ (2.44 meters)
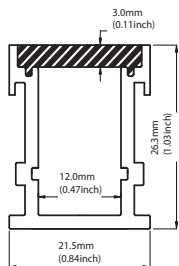• Color : Silver, White, Black

Walk over rated.

Applications

• Walk ways   • Stairs
• Driveways   • Niches
• Exterior and, or Interior use

Use outdoor ribbon for exterior or walk over applications.

Channel

3.0mm (0.11inch)
26.3mm (1.03inch)
12.0mm (0.47inch)
21.5mm (0.84inch)

End Caps

12.5mm (0.49inch)
26.3mm (1.03inch)
21.0mm (0.82inch)
21.5mm (0.84inch)
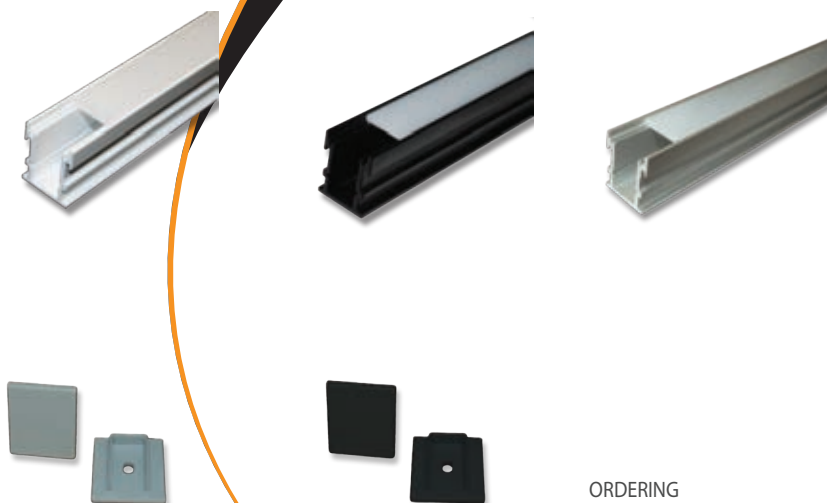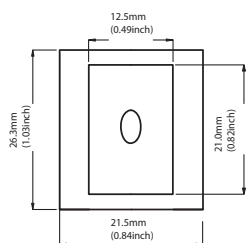
ORDERING CODE	COLOR
SLC-034R	-----
SLC-034R	Blank (Silver) WH BK

Custom RAL color upon request.

DIFFUSION
by **RJCROSS** architectural products ltd. l ghting

SLC-037C

Description

Anodized aluminum closet rod that comes with a 1.25mm thick opal polycarbonate lens for zero dotting.

Weight limit is depending on what the end caps are being mounted to. Closet rod on its own can handle 50KG/ft.

Specifications

• Channel : Anodized aluminum extrusion
• Lens : 1.25mm thick opal polycarbonate, high heat resistant, UV stable, shatter resistant
• Length : 8´ (2.44 meters)
• End fittings and center supports sold separately.
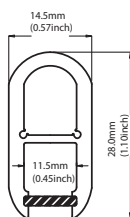• Color : Silvery, White, Black
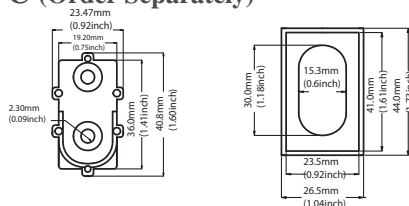
Custom color available.

Applications

• Closets
• Suspended fixture - with modified components (email for more information)
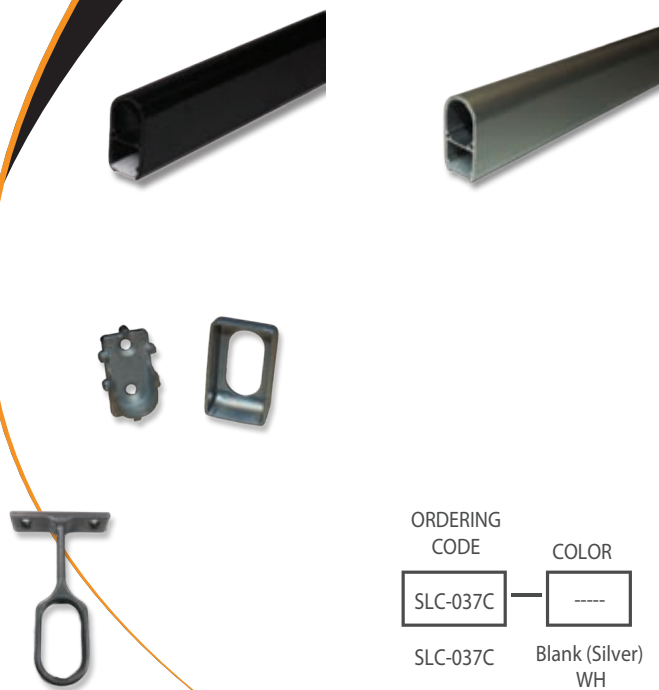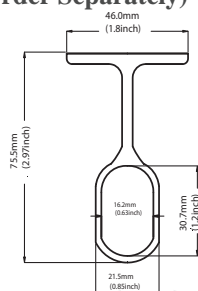
IMAGE COMING SOON

Channel

14.5mm (0.57inch)
28.0mm (1.10inch)
11.5mm (0.45inch)

End Caps E37C (Order Separately)

23.47mm (0.92inch)
19.20mm (0.75inch)
2.30mm (0.09inch)
36.0mm (1.41inch)
40.8mm (1.60inch)

30.0mm (1.18inch)
15.3mm (0.6inch)
41.0mm (1.61inch)
44.0mm (1.73inch)
23.5mm (0.92inch)
26.5mm (1.04inch)

Center Support C37C (Order Separately)

46.0mm (1.8inch)
75.5mm (2.97inch)
16.2mm (0.63inch)
30.7mm (1.2inch)
21.5mm (0.85inch)

ORDERING CODE	COLOR
SLC-037C	-----
SLC-037C	Blank (Silver) WH BK

Custom RAL color upon request.

SLC-050SP

Description

Surface/Pendant mount Aluminum extrusion with opal polycarbonate lens.

Extra clips and endcaps available by request.

Specifications

• Dimensions : 50mm W x 43mm D
• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant,
   UV stable, shatter resistant
• Length : 8´ (2.44 meters)
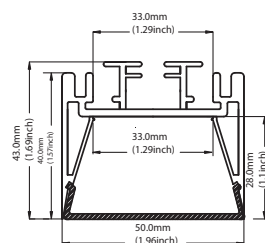• Color : White or Black

Dual Row LED required

Applications

• Surface mount   • Workshops
• Suspended fixture   • Libraries
• Halls   • Restaurants

Channel

33.0mm
(1.29inch)
43.0mm
(1.69inch)
40.0mm
(1.57inch)
33.0mm
(1.29inch)
28.0mm
(1.1inch)
50.0mm
(1.96inch)

End Caps

43.0mm
(1.69inch)
3.0mm
(0.11inch)
11.5mm
(0.45inch)
50.0mm
(1.96inch)
14.0mm
(0.55inch)
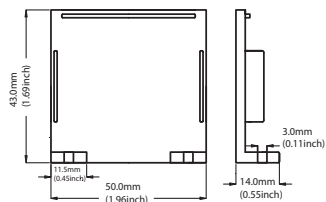
Mounting Clips

● Surface Mounting Clips   ● Wall Mounting Clips

19.3mm
(0.75inch)
25.0mm
(0.98inch)
8.0mm
(0.31inch)
27.3mm
(1.07inch)

39.9mm
(1.57inch)
35.3mm
(1.38inch)
2.6mm
(0.1inch)
19.8mm
(0.77inch)

Optional suspension kits are available.
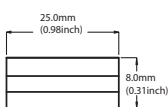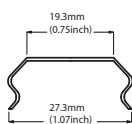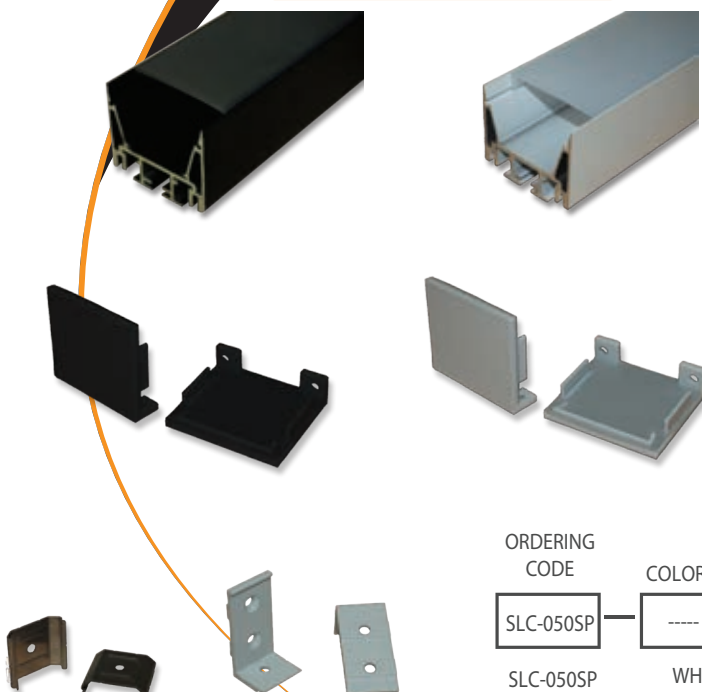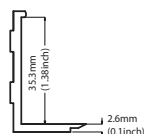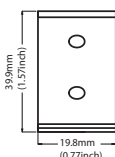
ORDERING CODE | COLOR

SLC-050SP ── -----

SLC-050SP | WH
BK

Custom RAL color upon request.

SLC-065R

Description

Recessed mount aluminum extrusion with opal polycarbonate lens.

Extra clips and endcaps available by request.

Specifications

• Channel : Anodized aluminum extrusion
• Lens : Opal polycarbonate, high heat resistant, UV stable, shatter resistant
• Length : 8´ (2.44 meters)
• Mounting : Recess mounting springs
• Color : White or Black

Dual Row LED required

Applications

• Halls	• Recessed into drywall
• Workshops	• Doctors offices
• Ballrooms	• Classrooms

Channel
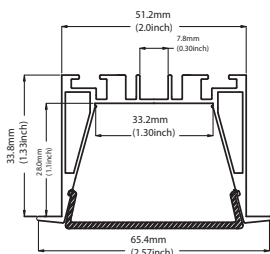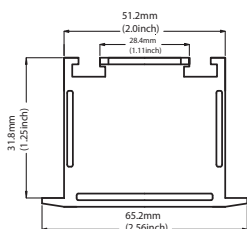
51.2mm (2.0inch)
7.8mm (0.30inch)
33.8mm (1.33inch)
28.0mm (1.1inch)
33.2mm (1.30inch)
65.4mm (2.57inch)

End Caps

51.2mm (2.0inch)
28.4mm (1.11inch)
31.8mm (1.25inch)
65.2mm (2.56inch)

Mounting Clips

20.0mm (0.78inch)
72.0mm (2.83inch)
22.5mm (0.88inch)
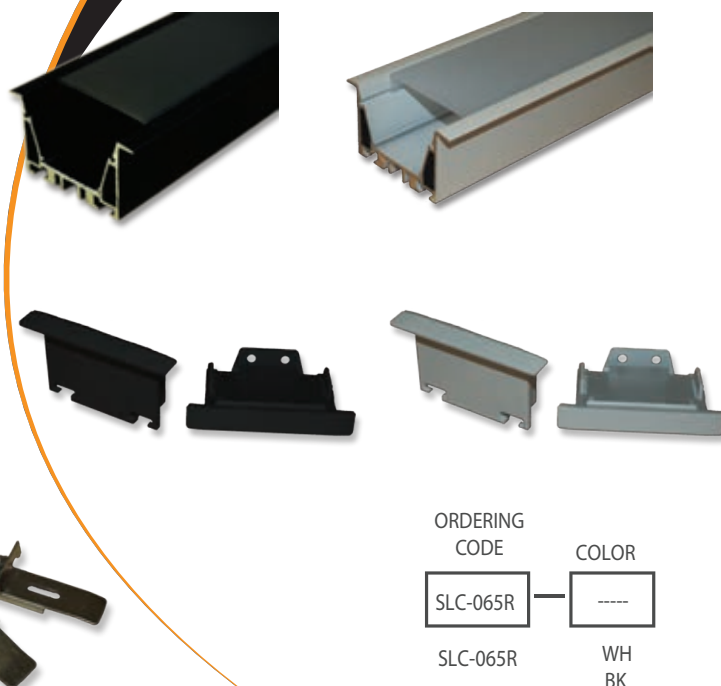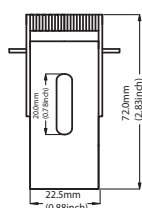
ORDERING CODE | COLOR

SLC-065R — ----

SLC-065R | WH BK

Custom RAL color upon request.

SLC-098KE

Description

Anodized aluminum knife edge profile (Joiners & acrylic lenses sold separately)

Specifications

• Channel : Anodized aluminum extrusion
• Lens : Two different acrylic lenses available upon request
• Length : 8´ (2.44 meters)

Applications

• Edgeless coves

Channel

10.5mm (0.4inch)
15.8mm (0.62inch)
1.8mm (0.07inch)
25.5mm (1.0inch)
78.8mm (3.10inch)
166.5mm (6.55inch)
29.5mm (1.16inch)
20.0mm (078inch)
13.0mm (0.5inch)
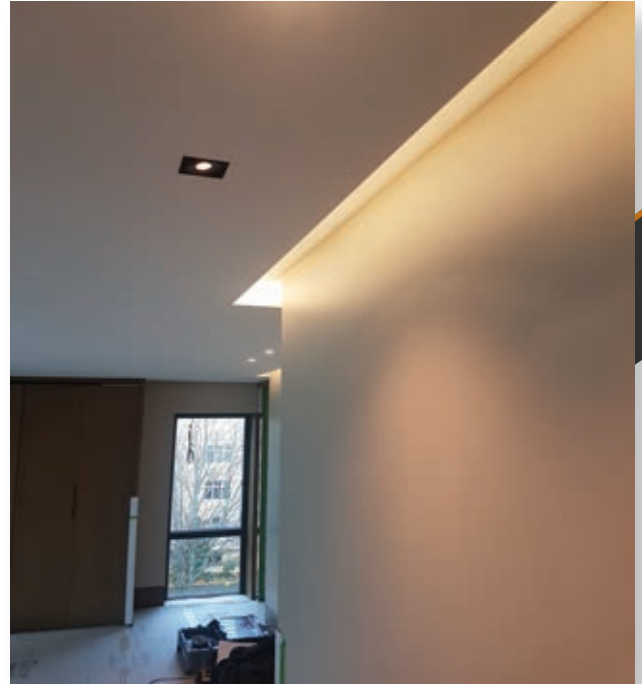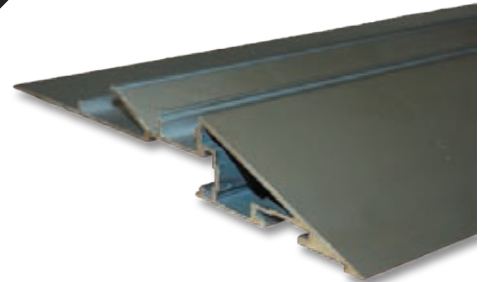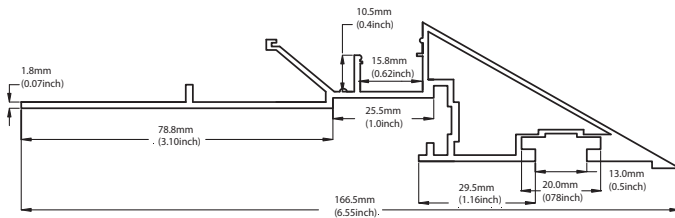
• Lens

• 45° Vertical Joiner

• 45° Horizontal Joiner

• 90° Vertical Joiner

• 90° Horizontal Joiner

• Straight Joiner

Perch

Description

Diffusion Perch Series is a full 360 degree illumination with no shadows throughout. It comes up to 9w/ft approx 900 lumens per foot.

Applications

• Suspended fixture   • Libraries
• Halls   • Restaurants
• Ballrooms

Features

• Lens : 2.3" Diameter, Opal polycarbonate, high heat
  resistant, UV stable, shatter resistant
• Suspended Vertically or Horizontally
• Can be joined together with joiners to create
  longer runs up to an infinite length

• Perch 360°
    √ 6 Runs LED Ribbon, up to 900 lm/ft
• Perch 180° Up
    √ 3 Runs LED Ribbon Up, up to 450 lm/ft
• Perch 180° Down
    √ 3 Runs LED Ribbon Down, up to 450 lm/ft

    Optional Suspension Kits are available

Ø 2.3"
(60mm)
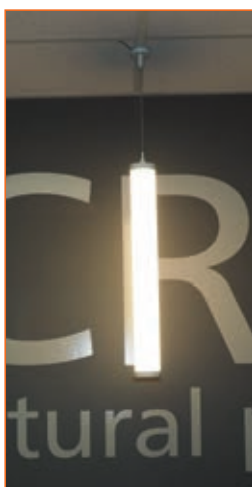
Fixture	Orientation	Models	Fixture length	Suspension length	Suspension Kits
Perch	xx	xx	xx	xx	xx
	VER	360 °	Up to 8' without Joiner	xx/ft	JB-5-SG (WH/BK/NK)
	HORZ	180 ° Down			TB-2-LG (WH/BK/NK)
		180 ° Up	More than 8' with Joiners		WC-2-SG (WH/BK/NK)
					CT-SG (NK)

DLMULTI-024-SERIES
Triac/0/10V (5 in 1) Dimmable Driver

Description

Diffusion DLMULTI-024-Series are Dimmable LED Driver that works with Forward / Reverse phase, ELV, Triac or 0-10V Dimmers.

Features
• Protection from short circuit, over current and
  over voltage
• Internal self reset mini breakers
• Compatible with virtually every style dimmer
• Flicker-free ~ 20,000 Hz
• Indoor/Outdoor
• High Efficiency
• Working Temp : -40 ~ +85° C
• Wet location rated

Specifications
• Input Voltage : 100-277 VAC
• Output Voltage : 24 VDC
• Dimming Range : 0-100%
    0% with select dimmers only

Available Wattages
30W / 60W / 100W / 150W
200W / 300W

Comes with two Connectors for 30W and 60W ONLY

17.2
7.0
16.0
12.0
18.0
10.0
10.5
20.0
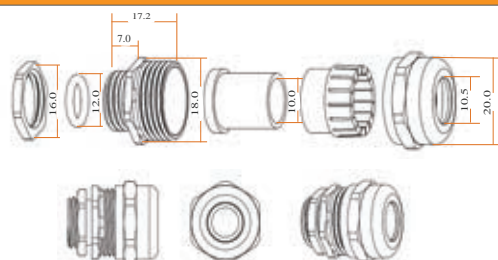
Only takes up to 14/2 loomex or 14/3 sjoow

5 YEARS WARRANTY

c(UL)us LISTED
E516184
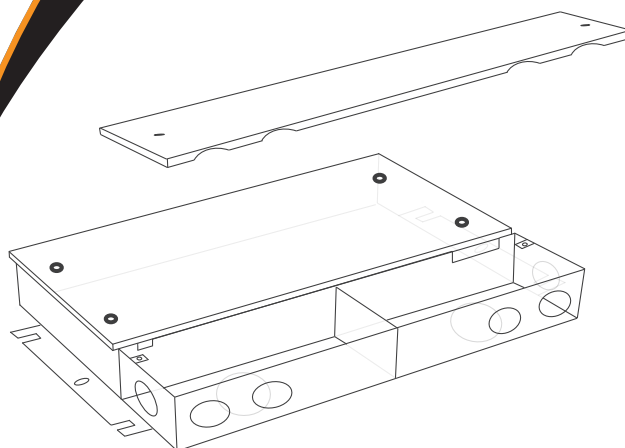
DLND-024V-(18W36W) Electronic Non-Dimmable Driver

Description

Diffusion DLND-024V-(18W/36W) is an electronic, non-dimmable driver in a plastic enclosure.

Features

• No junction box required
• 18W or 36W
• IP40 rating

Rated for indoor use only

Specifications

DLND-024V-18W
• Input : 120V
• Output : 24 VDC
• Output Current : 0.75A
• Dimensions :
4.5" L x 1.75" W x 1.125" H

DLND-024V-36W
• Input : 120V
• Output : 24 VDC
• Output Current : 1.5A
• Dimensions :
5.5" L x 1.75" W x 1.125" H

Plug-In Driver

Description

Diffusion Plug-in drivers are available in 24W and 60W.

Features

• Simple plug and play setup
• cUL Listed

Specifications

• Input : 120V
• Plug-in with 2.1mm jack
• 2.1mm female jack included

• PD60-24V

• PW24-24V

5 YEARS WARRANTY

SC-Connectors Series

Description

Diffusion SC-Connectors Series are designed to be used with SL6 Ribbon but will also work with SL1 and SL3 Ribbons.

Features

• Solderless connections
• Can be used as power feed by using your own cable
• Come with a Screwdriver

Specifications

• SC10W01 comes with 6" power feed.

• Dimensions
  10.2mm L x 10.0mm W x 7.7mm H
  0.40" L x 0.39" W x 0.30" H

SC10W01

SC10W02

L W H
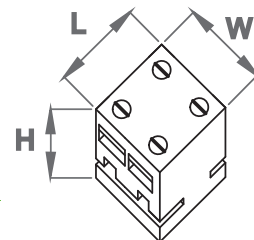
Accessories Indoor Applications

Description

Diffusion clip connectors are designed to be user friendly and versatile enough to be used in almost any indoor application.

Features

• Solderless connections
• Clips closed and firmly holds the ribbon in place
• No special connectors or hardware required

Specifications

H8 SERIES
8mm inner width used with SL1 & SL3 ribbon

H10 SERIES
10mm inner width used with SL6 ribbon

S10 SERIES
10mm inner width used with RGB ribbon

RGBW12 SERIES
12mm inner width used with RGBW ribbon

Power Feeds

H8W1

H10W1

S10W1

RGBW14W1

6" Connectors

H8W2

H10W2

S10W2

RGBW12W2

Butt Connectors

H8W0   H10W0   S10W0   RGBW12W0

Micro Sensors and Switches Inline Channel Mounted

Description

Four unique sensors that can work inline, remote and/or be built into the channel itself.

Specifications

• Input Voltage : 24 VDC
• Loading Power : 8A Max

Features

• Micro push button on/off only
• Touch with dimming and memory
• Proximity (swipe hand near sensor) on/off only
• PIR timed 6-70s

Custom pre-installation assembly available upon request

Measurements

• CRTB01 : 17.3mm x 75mm
• CRTT03 : 17.3mm x 75mm
• CRTSPIRT : 17.3mm x 75mm
• CRTS01 : 17.3mm x 75mm

CRTB01 - Micro Button Switch
One touch on/off switch

Input   Output

CRTS01 - Proximity Hand Sensor
on/off function only
Swipe hand past sensor to active

Input   Output

CRTT03 - Dimming Touch Switch
Blue light identifying where to touch to control,
Hold to dim on/off

Input   Output

CRTSPIRIT - PIR Motion Sensor
Adjustable timer controlling the length of time the lights stay on from 6 to 70 seconds

Input   Output

Switched Dimmable Touch Sensor

Description

Switched Dimmable Touch Sensor offering solutions to a wide range of applications.

Specifications
• Input Voltage : 24 VDC
• Loading Power : 8A Max

Features
• Flush circular dimmable touch switch with memory (offered in black and white)

CRTT04B / CRTT04W - Dimming Touch Switch
Dimensions : 22mm diameter (Hole required is 18mm diameter)
Flush circular dimmable touch switch
Available in black and white
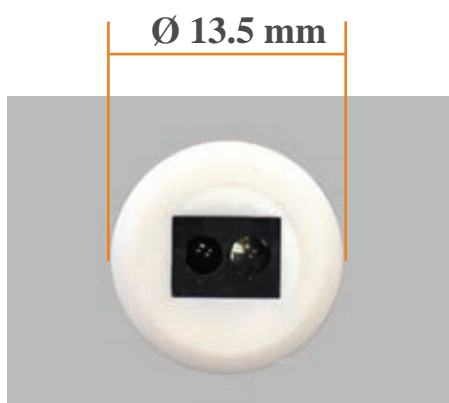
CRTSIRDH
Door/Hand sensor

Description

Door/Hand sensors offering solutions to a wide range of applications.

Specifications

• Input Voltage : 12-24 VDC
• Loading Power : 4A Max

Features

• Interchangeable door/hand operated multi sensor switch
• Detection Range : < 10cm
• Available in Black and White

Ø 13.5 mm

RGB(W) Remote & Controller

Description

Diffusion M8 & M4 Remote & Controller are capable of controlling up to 10 different controllers at once at a distance of up to 50m away (unobstructed distance).

Features

• Designed to control multiple sections of
  RGB(W) ribbon lighting from a single remote
• Interchangeable with both remotes
• Wall mountable

Specifications

• Power Input : 24 VDC
• Max Current Load : 5A x 4 CH (Max 20A)
• Max Output Power : 480W @ 24V
• GreyScale Max :
  4096 x 4096 x 4096 x 4096

• M4 +M4 - 5A

• M8 +M4 - 5A

UX8 RGB(W) Wall Mount Touch Panel

Description

Diffusion UX series touch panels are wall mountable and DMX controlled.

Features

• Easy install and remove design
• 8A per channel max 24A
• With audible buttons which can also be turned off
• Various modes, speed, dimming and multi zone control
• User programmable colour modes

Specifications

• UX8 Wall Unit
• Power Input : 24 VDC
• Output : Control wire to DMX controller

Dimensions :
3.38" L x 3.38" W x 1.41" H
86mm L x 86mm W x 36mm H

WIFI-PLA104 WiFi Controller

Description

Diffusion WIFI-PLA104 is a WiFi controller that enables users to control up to 12 different zones from any Android or IOS device.

Features

• Connect multiple WiFi controllers through a wireless router to increase the number of zones able to be controlled at once
• Direct connect or expand coverage using a wireless router
• Free App

Specifications

• Com. Standard : 2.4Ghz WiFi, 802.11 b/g/n protocol
• Input Voltage : 24 VDC
• Output Current : 4A x 4CH Max 16A
• Control Distance Max : 100m
• Compatible with R4-5A Receiver

44.5mm

127.6mm

73mm

DIFFUSION

by **RJCROSS**
architectural products ltd.

lighting

5
Year Warranty

Limited 5 year warranty

RJcross Architectural Products ltd ("We", "us" or "Seller") warrant Diffusion LED products and accessory(s) ("Diffusion Lighting") to be free from defects in materials and workmanship, and to operate from the date of installation (or date of manufacture if installation date is not known or available or verifiable) for a period of five (5) years. If a Diffusion Lighting Product fails to operate during the warranty period, we will repair or replace, at our discretion, the Diffusion Lighting Product in accordance with our Terms and Conditions. (labor is not included)