Diffusion Lighting
Lighting
BY RJCROSS

Diffusion Lighting Product Catalog

2024 Edition

Browse our collection of high-quality linear LED ribbons, channels, drivers, controllers, and accessories for your next project.

SL1 - Indoor
Diffusion LED Strip

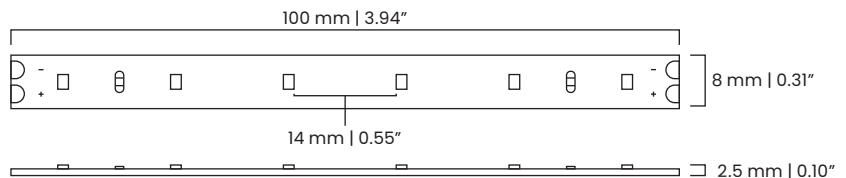| **50,000 HRS**	**24 V DC**	**5 W/M (1.5W/FT)**	**91+**
LAMP LIFE	POWER INPUT	LED WATTS	CRI

Description

The Diffusion SL1 Indoor is a flexible 8 mm wide linear LED strip. It is available in 16 ft and 100 ft rolls that can be cut every 6 LEDs (100 mm or 4 in).

Custom lengths available upon request*

Specifications

WATTAGE	5 W/m (1.5W/ft)	**CRI**	91 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	16 ft, 100 ft, Custom Cut	**CUTTING POINT**	3.9 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

100 mm | 3.94"
8 mm | 0.31"
14 mm | 0.55"
2.5 mm | 0.10"

Ordering Information

ORDERING CODE		LENGTH		VOLTAGE		KELVIN
SL1 - IN	—	XX	—	24V	—	XX
		16 ft				2700K
		100 ft				3000K
		CUSTOM CUT				3400K
						4100K

Lumens

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

Note* Custom Kelvins available upon request

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5 YEAR WARRANTY | DIMMABLE | 91+ CRI HIGH CRI | c UL us LISTED E486690

SL3 - Indoor
Diffusion LED Strip

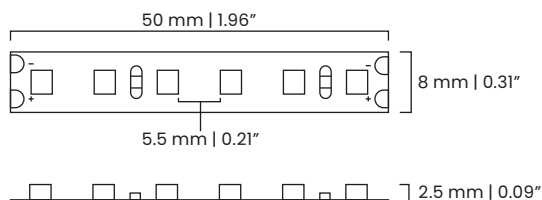|			
50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**10 W/M (3 W/FT)** LED WATTS	**91+** CRI

Description

The Diffusion SL3 Indoor is a flexible 8 mm wide linear LED strip. It is available in 16 ft and 100 ft rolls that can be cut every 6 LEDs (50 mm or 2 in).

Custom lengths available upon request*

Specifications

WATTAGE	10 W/m (3 W/ft)		**CRI**	91 + CRI
VOLTAGE	24 Volts DC		**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	16 ft, 100 ft, Custom Cut		**CUTTING POINT**	2 in
DIMMABLE	Yes		**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80		**WARRANTY**	5 Year Warranty

Diagram

50 mm | 1.96"
8 mm | 0.31"
5.5 mm | 0.21"
2.5 mm | 0.09"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL3 - IN	XX	24V	XX
	16 ft 100 ft CUSTOM CUT		2200K 2700K 3000K 3400K 4100K 5000K

Lumens

2200K	**2700K**	**3000K**	**3400K**	**4100K**	**5000K**
718 lm/m (215 lm/ft)	788 lm/m (236 lm/ft)	832 lm/m (249 lm/ft)	876 lm/m (263 lm/ft)	908 lm/m (279 lm/ft)	1034 lm/m (318 lm/ft)

Note* Custom Kelvins available upon request

SL3 - Zig-Zag - Indoor
Diffusion LED Strip

50,000 HRS
LAMP LIFE

24 V DC
POWER INPUT

**10 W/m (3 W/ft)**
LED WATTS

91+
CRI

Description

The Diffusion SL3-Zig-Zag-Indoor is a Zig-Zag LED ribbon ideal for custom shape lighting applications and can be installed on a variety of non-linear surfaces. It is only available in custom cut and can be cut every 6 LEDs (83 mm or 3.26")

Custom lengths available upon request*

Specifications

WATTAGE	10 W/m (3 W/ft)	**CRI**	91 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	−40°C to 120°C
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	3.26 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

83 mm | 3.26"

8 mm | 0.31"

11 mm | 0.43"

1.5 mm | 0.06"
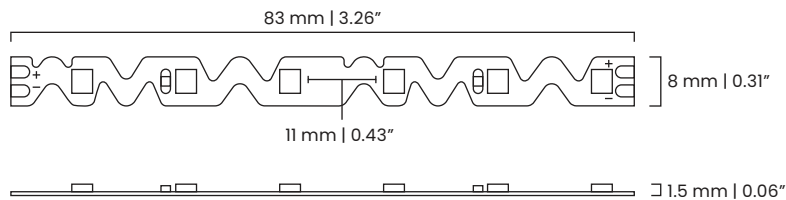
Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL3-Z-IN	XX	24V	X
	CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

Lumens

2700K
502 lm/m
(153 lm/ft)

3000K
531 lm/m
(162 lm/ft)

3400K
561 lm/m
(171 lm/ft)

4100K
593 lm/m
(181 lm/ft)

Note* Custom Kelvins available upon request

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5 YEAR WARRANTY

DIMMABLE

91+ CRI HIGH CRI

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SL4 - Indoor
Diffusion LED Strip

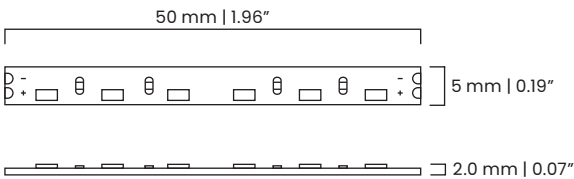| **50,000 HRS** LAMP LIFE	**24 V DC** POWER INPUT	**10 W/M (3 W/FT)** LED WATTS	**91+** CRI

Description

The Diffusion SL4-Indoor is a flexible 5mm wide side mount linear LED strip. It is only available in custom cut that can be cut every 6 LEDs (50 mm or 2 in).

*Custom lengths available upon request**

Specifications

WATTAGE	10 W/m (3 W/ft)	**CRI**	91 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	2 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

50 mm | 1.96"

5 mm | 0.19"

2.0 mm | 0.07"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL4 - IN	XX	24V	XX
	CUSTOM CUT ONLY		3000K 4000K

Lumens

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

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

Note Custom Kelvins available upon request*

SL5 - RGB(W)-Indoor
Diffusion LED Strip

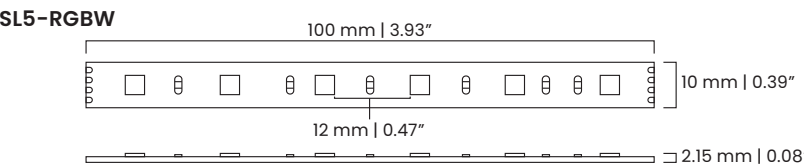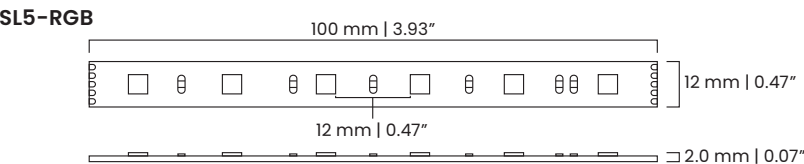|			
50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**14.4 W/M (4.32 W/FT)** **19.2 W/M (6 W/FT)** LED WATTS	**91+** CRI

Description

The Diffusion SL5-RGB Indoor is a 10 mm wide LED strip that allows you to choose your colors using RGB. The Diffusion SL5-RGBW Indoor is a 12 mm wide LED strip that offers color choices with RGB and warm white (2700K). Both are available in 16 ft and 100 ft rolls, cuttable every 6 LEDs (100 mm or 4 in).

*Custom lengths available upon request**

Specifications

WATTAGE RGB	14.4 W/m (4.32 W/ft)	**CRI**	91 + CRI
WATTAGE RGBW	19.2 W/m (6 W/ft)	**OPERATING TEMP**	-40°C to 120°C
VOLTAGE	24 Volts DC	**CUTTING POINT**	4 in
ROLL LENGTH	16 ft, 100 ft, Custom Cut	**ADHESIVE**	3M Double Coated
DIMMABLE	Yes	**WARRANTY**	5 Year Warranty
LAMP LIFE	50,000 hrs LM-80		

Diagram

SL5-RGB

100 mm | 3.93"
12 mm | 0.47"
12 mm | 0.47"
2.0 mm | 0.07"

SL5-RGBW

100 mm | 3.93"
10 mm | 0.39"
12 mm | 0.47"
2.15 mm | 0.08"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL5 - IN	— XX —	24V	— XX
	16 FT 100 FT CUSTOM CUT		RGB RGBW

Lumens

RGB
591 lm/m
(180 lm/ft)

W (2700K)
400 lm/m
(122 lm/ft)

Note Custom Kelvins available upon request*

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SL6 - Indoor
Diffusion LED Strip

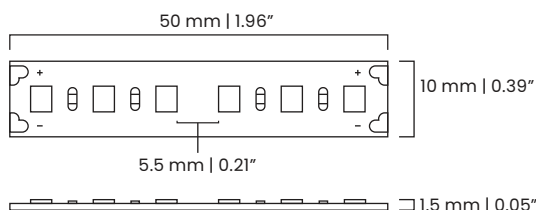|			
50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**14.4 W/M (4.5W/FT)** LED WATTS	**91+** CRI

Description

The Diffusion SL6 Indoor is a flexible 10 mm wide linear LED strip. It is available in 16 ft and 100 ft rolls that can be cut every 6 LEDs (50 mm or 2 in).

Custom lengths available upon request*

Specifications

WATTAGE	14.4 W/m (4.5W/ft)	**CRI**	91 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	16 ft, 100 ft, Custom Cut	**CUTTING POINT**	2 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

50 mm | 1.96"

10 mm | 0.39"

5.5 mm | 0.21"

1.5 mm | 0.05"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL6 - IN	XX	24V	XX
	16 FT 100 FT CUSTOM CUT		2200K 2700K 3000K 3400K 4100K 5000K

Lumens

2200K 1120 lm/m (336 lm/ft)	**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)	**5000K** 1580 lm/m (474 lm/ft)

Note* Custom Kelvins available upon request

SL7.3 - Indoor
Diffusion LED Ribbon

50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**10 W/M (3W/FT)** LED WATTS	**95+** CRI

Description

The Diffusion SL7.3 Indoor is a high-fidelity flexible 10 mm wide linear LED strip. It is only available in custom cut that can be cut every 7 LEDs (25 mm or 1 in).
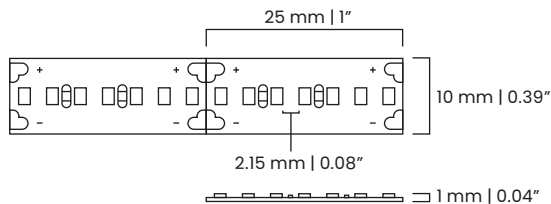
Custom lengths available upon request*
Note: SL7.3 needs to be installed in aluminum channel*

Specifications

WATTAGE	10 W/m (3w/ft)	**CRI**	95 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	1 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

25 mm | 1"
10 mm | 0.39"
2.15 mm | 0.08"
1 mm | 0.04"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.3 - IN	XX	24V	XX
	CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

Lumens

2700K	**3000K**	**3400K**	**4100K**
928 lm/m (282 lm/ft)	970 lm/m (295 lm/ft)	1013 lm/m (308 lm/ft)	1055 lm/m (321 lm/ft)

Note* Custom Kelvins available upon request

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SL7.5 - Indoor
Diffusion LED Strip

50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**16.4 W/M (5 W/FT)** LED WATTS	**95+** CRI

Description

The Diffusion SL7.5 Indoor is a high-fidelity flexible 10 mm wide linear LED strip. It is only available in custom cut and can be cut every 7 LED chips (25 mm or 1 in).
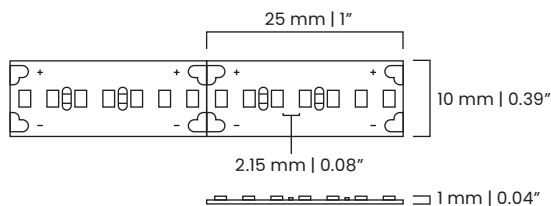
*Custom lengths available upon request**
*Note: SL7.5 needs to be installed in aluminum channel**

Specifications

WATTAGE	16.4 W/m (5 W/ft)	**CRI**	95 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	−40ºC to 120ºC
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	1 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

25 mm | 1"

10 mm | 0.39"

2.15 mm | 0.08"

1 mm | 0.04"

Ordering Information

ORDERING CODE		LENGTH	VOLTAGE	KELVIN
SL7.5 - IN	—	XX	24V	XX
		CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

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)

Note Custom Kelvins available upon request*

SL7.5 - DW - Indoor
Diffusion LED Strip

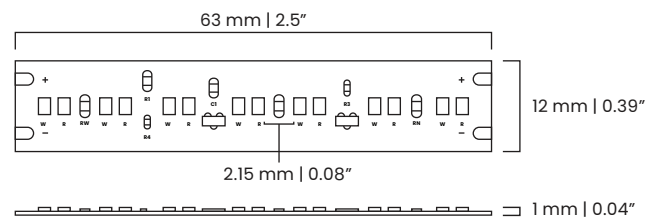| **50,000 HRS**	**24 V DC**	**16.4 W/M (5 W/FT)**	**95+**
LAMP LIFE	POWER INPUT	LED WATTS	CRI

Description

The Diffusion SL7.5-DW Indoor is a flexible 12 mm wide linear LED strip. It offers dim-to-warm functionality, allowing you to create the perfect warm glow for any ambiance. It can cut every 14 LED chips (63 mm or 2.5 in)

*Custom lengths available upon request**

Specifications

WATTAGE	16.4 W/m (5 W/ft)	**CRI**	95 + CRI
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	2.5 in
DIMMABLE	Yes	**ADHESIVE**	3M Double Coated
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

63 mm | 2.5"
12 mm | 0.39"
2.15 mm | 0.08"
1 mm | 0.04"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.5 - DW - IN	XX	24V	1800K/3000K
	CUSTOM CUT ONLY		

Lumens

1800K - 3000K
≤ 1770 lm/m
(≤ 539 /ft)

Exact Kelvin Range Will Slightly Change
Note Custom Kelvins Ranges available upon request*

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SL7.1 - Micron - Indoor
Diffusion LED Strip

50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**5 W/M (1.5 W/FT)** LED WATTS	**95+** CRI

Description

The Diffusion SL7.1 Micron Indoor is a flexible 5 mm wide linear LED strip. It is available in custom lengths and can be cut every 7 LED chips (38.5 mm/ 1.5″).

Custom lengths available upon request*
Note: Only compatible with Micron Series Channels

Specifications

Wattage	5 W/m (1.5 W/ft)	**IP Rating**	IP 20
Voltage	24 Volts DC	**Environment**	Indoor Only
Roll Length	Custom Cut Only	**Operating Temp**	-40°C to 120°C
Dimmable	Yes	**Cutting Point**	1.5 in
Lamp Life	50,000 hrs LM80	**Adhesive**	3M Double Coated
CRI	95 + CRI	**Warranty**	5 Year Warranty

Diagram

38.5 mm | 1.5″
5 mm | 0.19″
2.0 mm | 0.08″
1 mm | 0.04″
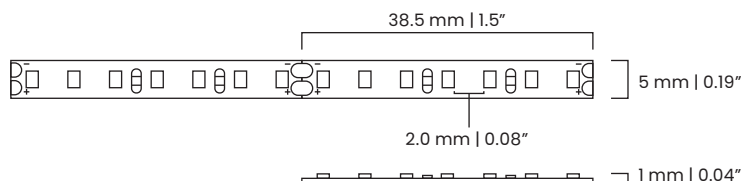
Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.1 - MICRON - IN	XX	24V	XX
	CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

Lumens

2700K	**3000K**	**3400K**	**4100K**
403 lm/m	433 lm/m	466 lm/m	500 lm/m
123 lm/ft	132 lm/ft	142 lm/ft	152 lm/ft

Note* Custom Kelvins available upon request

SL7.3 - Micron - Indoor
Diffusion LED Strip

50,000 HRS LAMP LIFE	**24 V DC** POWER INPUT	**10 W/M (3 W/FT)** LED WATTS	**95+** CRI

Description

Diffusion LED Strip SL7.3 Micron Indoor is a flexible 5mm wide linear LED strip. It is available in custom lengths and can be cut every 7 LED chips (38.5 mm/ 1.5″).

*Custom lengths available upon request**
Note: Only compatible with Micron Series Channels

Specifications

Wattage	10 W/m (3 W/ft)	**IP Rating**	IP 20
Voltage	24 Volts DC	**Environment**	Indoor Only
Roll Length	Custom Cut Only	**Operating Temp**	-40°C to 120°C
Dimmable	Yes	**Cutting Point**	1.5 in
Lamp Life	50,000 hrs LM80	**Adhesive**	3M Double Coated
CRI	95 + CRI	**Warranty**	5 Year Warranty

Diagram

38.5 mm | 1.5″
5 mm | 0.19″
2.0 mm | 0.08″
1 mm | 0.04″
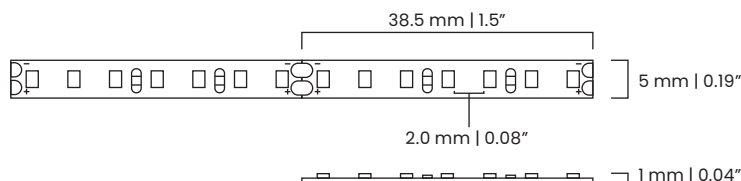
Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.3 - MICRON - IN	XX	24V	XX
	CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

Lumens

2700K 807 lm/m 246 lm/ft	**3000K** 866 lm/m 264 lm/ft	**3400K** 932 lm/m 284 lm/ft	**4100K** 1001 lm/m 305 lm/ft

Note Custom Kelvins available upon request*

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SL1 - Outdoor
Diffusion LED Strip

50,000 HRS
LAMP LIFE

24 V DC
POWER INPUT

5W/M (1.5W/FT)
LED WATTS

IP67
IP RATING

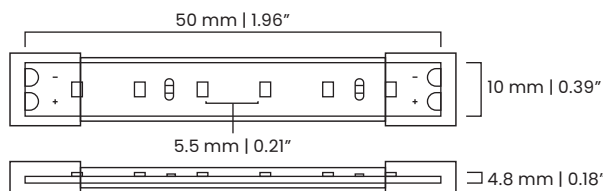**91+**
CRI

Description

The Diffusion SL1 Outdoor is a flexible 10 mm wide linear LED strip. It is available in 16 ft and 32 ft rolls that can be cut every 6 LEDs (100 mm or 4 in).

*Custom lengths available upon request**

Specifications

WATTAGE	5 W/m (1.5W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40ºC to 120ºC
ROLL LENGTH	16 ft, 32 ft, Custom Cut	**CUTTING POINT**	4 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty
CRI	91 + CRI		

Diagram

100 mm | 3.93"

10 mm | 0.39"

14 mm | 0.55"

4.8 mm | 0.18"
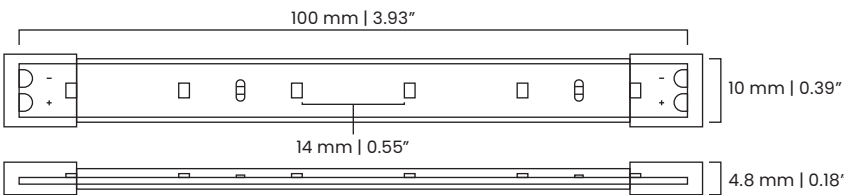
Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL1 - OUT	XX	24V	XX
	16 ft 32 ft CUSTOM CUT		2700K 3000K 3400K 4100K

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)

Note Custom Kelvins available upon request*

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IP67 IP67 RATED

5 YEAR WARRANTY

DIMMABLE

91+ CRI HIGH CRI

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SL3 - Outdoor
Diffusion LED Strip

50,000 HRS	**24 V DC**	**10 W/M (3W/FT)**	**IP67**	**91+**
LAMP LIFE	POWER INPUT	LED WATTS	IP RATING	CRI

Description

The Diffusion SL3 Outdoor is a flexible 10 mm wide linear LED strip. It is available in 16 ft and 32 ft rolls that can be cut every 6 LEDs (50 mm or 2 in).

*Custom lengths available upon request**

Specifications

WATTAGE	10 W/m (3W/ft)	ENVIRONMENT	Sauna Approved
VOLTAGE	24 Volts DC	OPERATING TEMP	-40°C to 120°C
ROLL LENGTH	16 ft, 32 ft, Custom Cut	CUTTING POINT	2 in
DIMMABLE	Yes	IP RATING	IP67
LAMP LIFE	50,000 hrs LM-80	WARRANTY	5 Year Warranty
CRI	91 + CRI		

Diagram

50 mm | 1.96"
10 mm | 0.39"
5.5 mm | 0.21"
4.8 mm | 0.18"

Ordering Information

ORDERING CODE		LENGTH	VOLTAGE	KELVIN
SL3 - OUT	—	XX	24V	XX

LENGTH:
16 ft
32 ft
CUSTOM CUT

KELVIN:
2200K
2700K
3000K
3400K
4100K
5000K

Lumens

2200K	**2700K**	**3000K**	**3400K**	**4100K**	**5000K**
699 lm/m	788 lm/m	820 lm/m	876 lm/m	908 lm/m	1061 lm/m
(209 lm/ft)	(236 lm/ft)	(252 lm/ft)	(263 lm/ft)	(279 lm/ft)	(326 lm/ft)

Note Custom Kelvins available upon request*

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IP67 RATED | 5 YEAR WARRANTY | DIMMABLE | 91+ CRI HIGH CRI | c UL us LISTED E486690

SL4 - Outdoor
Diffusion LED Strip

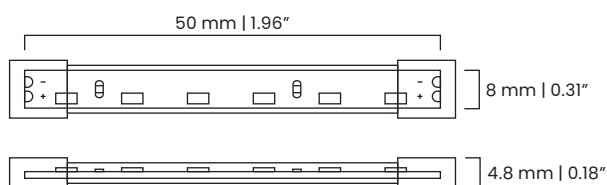| **50,000 HRS** LAMP LIFE	**24 V DC** POWER INPUT	**10 W/M (3W/FT)** LED WATTS	**IP67** IP RATING	**91+** CRI

Description

The Diffusion SL4 Outdoor is a flexible 8 mm wide side mount linear LED strip. It is only available in custom cut that can be cut every 6 LEDs (50 mm or 2 in).

Custom lengths available upon request*

Specifications

WATTAGE	10 W/m (3W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40ºC to 120ºC
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	2 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty
CRI	91 + CRI		

Diagram

50 mm | 1.96"

8 mm | 0.31"

4.8 mm | 0.18"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL4 - OUT	XX	24V	XX
	CUSTOM CUT ONLY		3000K 4000K

Lumens

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

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

Note* Custom Kelvins available upon request

Diffusion Lighting
BY RJCROSS

diffusionlighting.com
1-(866)-RJCROSS (752-7677)

IP67 IP67 RATED	5 YEAR WARRANTY	DIMMABLE	91+ CRI HIGH CRI	c(UL)us LISTED E486690

SL5 - RGB(W) Outdoor
Diffusion LED Strip

50,000 HRS	**24 V DC**	**14.4 W/M (4.32 W/FT)**	**IP67**	**91+**
LAMP LIFE	POWER INPUT	**19.2 W/M (6 W/FT)**	IP RATING	CRI
		LED WATTS		

Description

The Diffusion SL5-RGB Outdoor is a 12 mm wide LED strip that allows you to choose your colors using RGB. The Diffusion SL5-RGBW Outdoor is a 14 mm wide LED strip that offers color choices with RGB and warm white (2700K). Both are available in 16 ft and 32 ft rolls, cuttable every 6 LEDs (100 mm or 4 in).

*Custom lengths available upon request**

Specifications

WATTAGE RGB	14.4 W/m (4.32 W/ft)	**CRI**	91 + CRI
WATTAGE RGBW	19.2 W/m (6 W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	16 ft, 32 ft, Custom Cut	**CUTTING POINT**	3.9 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty

Diagram

SL5-RGB

100 mm | 3.93"
14 mm | 0.55"
12 mm | 0.47"
5.0 mm | 0.19"

SL5-RGBW

100 mm | 3.93"
12 mm | 0.47"
12 mm | 0.47"
5.0 mm | 0.19"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL5 - OUT	XX	24V	XX
	16 ft		RGB
	32 ft		RGBW
	CUSTOM CUT		

Lumens

RGB
591 lm/m
(180 lm/ft)

W (2700K)
400 lm/m
(122 lm/ft)

Note Custom Kelvins available upon request*

SL6 - Outdoor
Diffusion LED Strip

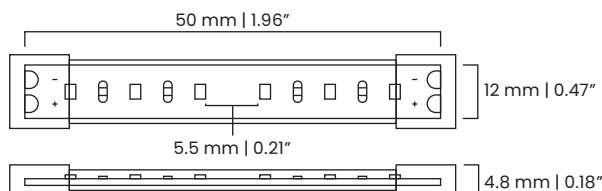| **50,000 HRS**	**24 V DC**	**14.4 W/M (4.5W/FT)**	**IP67**	**91+**
LAMP LIFE	POWER INPUT	LED WATTS	IP RATING	CRI

Description

The Diffusion SL6 Outdoor is a flexible 12 mm wide linear LED strip. It is available in 16 ft and 32 ft rolls that can be cut every 6 LEDs (50 mm or 2 in).

*Custom lengths available upon request**

Specifications

WATTAGE	14.4 W/m (4.5W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	16 ft, 32 ft, Custom Cut	**CUTTING POINT**	2 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty
CRI	91 + CRI		

Diagram

50 mm | 1.96"
12 mm | 0.47"
5.5 mm | 0.21"
4.8 mm | 0.18"

Ordering Information

ORDERING CODE		LENGTH		VOLTAGE		KELVIN
SL6 - OUT	—	XX	—	24V	—	XX
		16 ft				2200K
		32 ft				2700K
		CUSTOM CUT				3000K
						3400K
						4100K
						5000K

Lumens

2200K	**2700K**	**3000K**	**3400K**	**4100K**	**5000K**
1082 lm/m	1220 lm/m	1282 lm/m	1344 lm/m	1400 lm/m	1636 lm/m
(325 lm/ft)	(366 lm/ft)	(384 lm/ft)	(402 lm/ft)	(420 lm/ft)	(491 lm/ft)

Note Custom Kelvins available upon request*

● Diffusion Lighting
BY RJCROSS

diffusionlighting.com
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IP67 — IP67 RATED
5 YEAR — WARRANTY
DIMMABLE
91+ CRI — HIGH CRI
c UL us LISTED E486690

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SL7.5 - Outdoor
Diffusion LED Strip

50,000 HRS	**24 V DC**	**14.4 W/M (4.5W/FT)**	**IP67**	**95+**
LAMP LIFE	POWER INPUT	LED WATTS	IP RATING	CRI

Description

The Diffusion SL7.5 Outdoor is a high-fidelity flexible 12 mm wide linear LED strip. It is only available in custom cut and can be cut every 7 LED chips (25 mm or 1 in).

Custom lengths available upon request*

Specifications

WATTAGE	14.4 W/m (4.5W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40°C to 120°C
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	1 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty
CRI	95 + CRI		

Diagram

25 mm | 1"
12 mm | 0.47"
2.15 mm | 0.08"
4.8 mm | 0.18"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.5 - OUT	XX	24V	XX
	CUSTOM CUT ONLY		2700K 3000K 3400K 4100K

Lumens

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

Note* Custom Kelvins available upon request

Diffusion Lighting BY RJCROSS

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IP67	5 YEAR		95+ CRI	c UL us
IP65 RATED	WARRANTY	DIMMABLE	HIGH CRI	LISTED E486690

SL7.5 - DW - Outdoor
Diffusion LED Strip

50,000 HRS	**24 V DC**	**16.4 W/M (5 W/FT)**	**IP67**	**95+**
LAMP LIFE	POWER INPUT	LED WATTS	IP RATING	CRI

Description

The Diffusion SL7.5-DW Outdoor is a flexible 14 mm wide linear LED strip. It offers dim-to-warm functionality, allowing you to create the perfect warm glow for any ambiance. It can cut every 14 LED chips (63 mm or 2.5 in)

Custom lengths available upon request*

Specifications

WATTAGE	16.4 W/m (5 W/ft)	**ENVIRONMENT**	Sauna Approved
VOLTAGE	24 Volts DC	**OPERATING TEMP**	-40ºC to 120ºC
ROLL LENGTH	Custom Cut Only	**CUTTING POINT**	2.5 in
DIMMABLE	Yes	**IP RATING**	IP67
LAMP LIFE	50,000 hrs LM-80	**WARRANTY**	5 Year Warranty
CRI	95 + CRI		

Diagram

63 mm | 2.5"

14 mm | 0.47"

2.15 mm | 0.08"

2 mm | 0.08"

Ordering Information

ORDERING CODE	LENGTH	VOLTAGE	KELVIN
SL7.5-DW - OUT	XX	24V	1800K - 3000K
	CUSTOM CUT ONLY		

Lumens

1800K - 3000K
≤ 1770 lm/m
(≤ 539 /ft)

Exact Kelvin Range Will Slightly Change
Note* Custom Kelvins Ranges available upon request

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IP67 — IP65 RATED
5 YEAR — WARRANTY
DIMMABLE
95+ CRI — HIGH CRI
c UL us — LISTED E486690

19
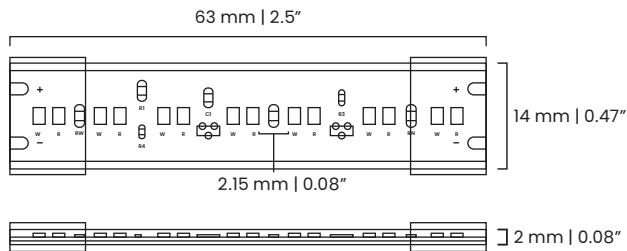
SLC - 002S
Diffusion LED Channel

Description

The Diffusion SLC-002S is a low profile, anodized aluminum LED extrusion that comes complete with three clear mounting clips, two endcaps, and an opal polycarbonate lens.

Note: Extra clips and endcaps are available by request

Application

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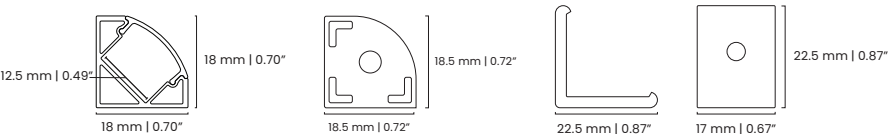- Wardrobe
- Shelving
- Closets
- Top kitchen cabinet

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Plastic
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 002S	XX

Blank (Silver)
WH
BK
Custom RAL

Diagram

13 mm | 0.51"
7.5 mm | 0.29"
17.2 mm | 0.67"

7.5 mm | 0.29"
17.2 mm | 0.67"

21.25 mm | 0.83"
2 mm | 0.07"
2 mm | 0.07"

2 mm | 0.07"
14.5 mm | 0.57"
17.3 mm | 0.68"

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5 YEAR WARRANTY

c UL us LISTED
E486690
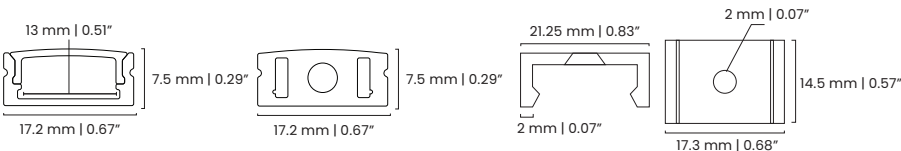
SLC - 003R
Diffusion LED Channel
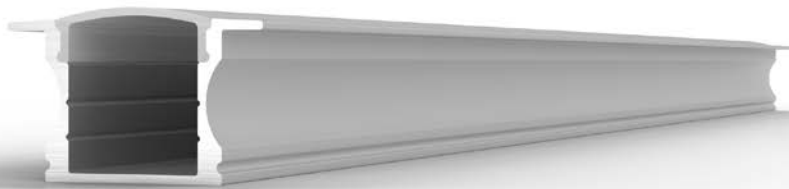
Description

The Diffusion SLC-003R is a recessed, anodized aluminum LED extrusion that comes complete with three clear mounting clips, two endcaps, and an opal polycarbonate lens.

Note: Extra clips and endcaps are available by request

Application

- Drywall
- Shelving
- Wall surface
- Kitchen cabinets
- Furniture
- Recessed

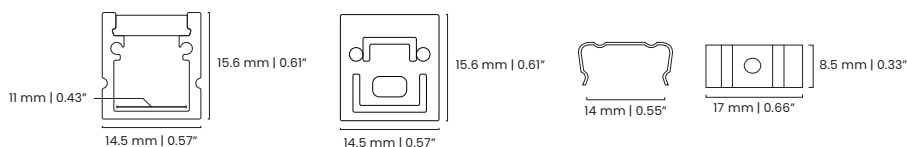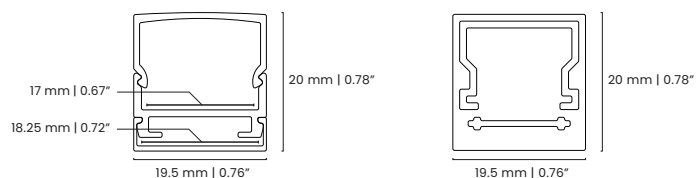## Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Plastic
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE		COLOR
SLC - 003R	—	XX
		Blank (Silver)
		WH
		BK
		Custom RAL

Diagram

25 mm | 0.98"   13 mm | 0.51"   15.5 mm | 0.61"   17.3 mm | 0.68"

25 mm | 0.98"   15.5 mm | 0.61"   17.3 mm | 0.68"

21.5 mm | 0.85"   2 mm | 0.07"

2 mm | 0.07"   14.5 mm | 0.57"   17.3 mm | 0.68"

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5 YEAR WARRANTY

c(UL)us LISTED E486690
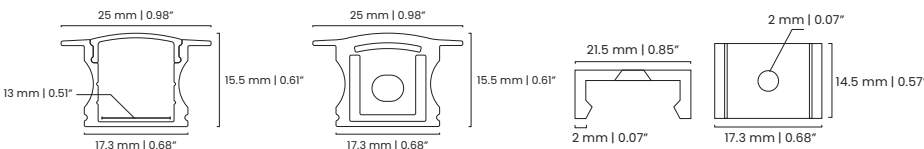
SLC - 007S
Diffusion LED Channel
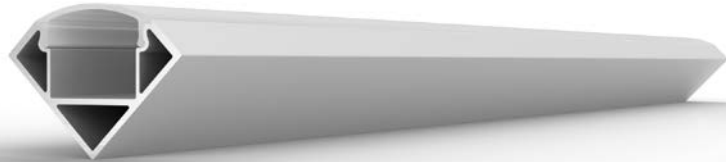
Description

The Diffusion SLC-007S is a 45-degree, anodized aluminum LED extrusion that comes complete with three clear mounting clips, two endcaps, and an opal polycarbonate lens.

Note: Extra clips and endcaps are available by request

Application

- Cove
- Shelving
- Wardrobe
- Kitchen cabinets

## Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Plastic
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

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

Diagram

12.5 mm | 0.49" 18 mm | 0.70" 18 mm | 0.70"

18.5 mm | 0.72" 18.5 mm | 0.72"

22.5 mm | 0.87" 17 mm | 0.67" 22.5 mm | 0.87"

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5 YEAR WARRANTY

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SLC - 402S
Diffusion LED Channel

Description

The Diffusion SLC-402S is narrow an anodized aluminum LED extrusion that comes complete with three mounting hardware, two endcaps, and an extra thick opal polycarbonate lens for zero dotting.

Note: Extra clips and endcaps are available by request

Application

- Platforms
- Shelving
- Niches
- Stairs
- Furniture

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 402S	XX

Blank (Silver)
WH
BK
Custom RAL

Diagram

15.6 mm | 0.61"
11 mm | 0.43"
14.5 mm | 0.57"

15.6 mm | 0.61"
14.5 mm | 0.57"

14 mm | 0.55"

8.5 mm | 0.33"
17 mm | 0.66"

SLC - 011S
Diffusion LED Channel

Description

The Diffusion SLC-011S is a two part, anodized aluminum LED extrusion that comes complete with two endcaps and an opal polycarbonate lens.

Note: Extra clips and endcaps are available by request

Application

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

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 011S	XX

Blank (Silver)
WH
BK
Custom RAL

Diagram

17 mm | 0.67"
18.25 mm | 0.72"
20 mm | 0.78"
19.5 mm | 0.76"

20 mm | 0.78"
19.5 mm | 0.76"

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5 YEAR WARRANTY

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SLC-012T
Diffusion LED Channel

Description

The Diffusion SLC-012T is a trimless anodized aluminum channel that comes complete with two aluminum endcaps and an opal polycarbonate lens.

Note: Extra clips and endcaps are available by request

Application

- Drywall
- Flanges (can be cut off and installed in wood)
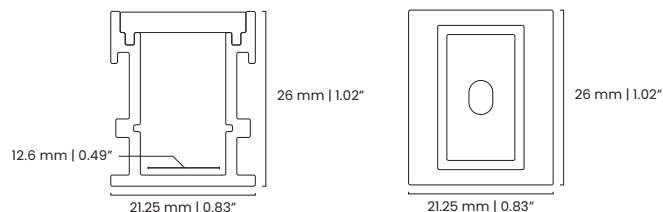
Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE

SLC - 012T

Diagram

64 mm | 2.5"
9.5 mm | 0.37"
21 mm | 0.82"
19 mm | 0.75"
14 mm | 0.55"
26 mm | 1.02"
15.7 mm | 0.61"
26 mm | 1.02"
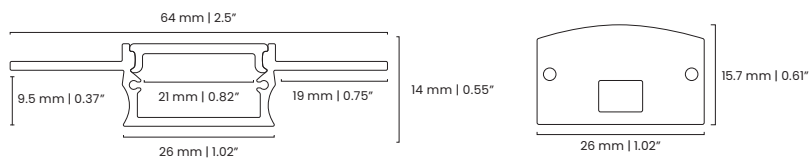
SLC-026F
Diffusion LED Channel

Description

The Diffusion SLC-026F is a sideways flexible channel that comes complete with mounting hardware for curved applications.

Note: Extra clips and endcaps are available by request

Application

- Gardens
- Walkways
- Behind circle mirrors
- Curved applications
- Curved windows

Specifications

CHANNEL	Flexible opal channel
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	Custom cut to order
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE

SLC - 026F

Diagram

11 mm | 0.43"
18 mm | 0.7"
10 mm | 0.39"
10 mm | 0.39"
18 mm | 0.7"
2 mm | 0.07"
11.5 mm | 0.45"
19 mm | 0.74"

Diffusion Lighting
BY RJCROSS

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5 YEAR WARRANTY

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LISTED
E486690
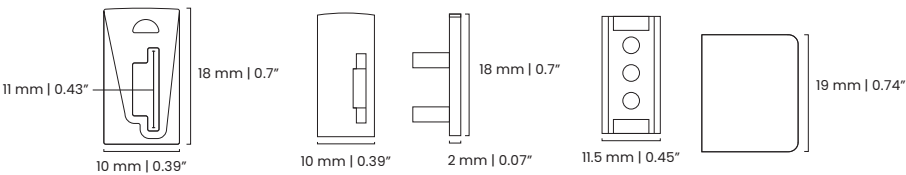
SLC-027F
Diffusion LED Channel

Description

The Diffusion SLC-027F is an up and down flexible channel that comes complete with mounting hardware for curved applications.

Note: Extra clips and endcaps are available by request

Application

- Gardens
- Walkways
- Behind circle mirrors
- Curved applications
- Curved windows

Specifications

CHANNEL	Flexible opal channel
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	Custom cut to order
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE

SLC - 027F

Diagram

15 mm | 0.59"
15 mm | 0.59"
11 mm | 0.43"

17 mm | 0.67"
18 mm | 0.70"
14.5 mm | 0.57"

15 mm | 0.59"
16 mm | 0.62"

14 mm | 0.55"
6 mm | 0.23"

Diffusion Lighting
BY RJCROSS
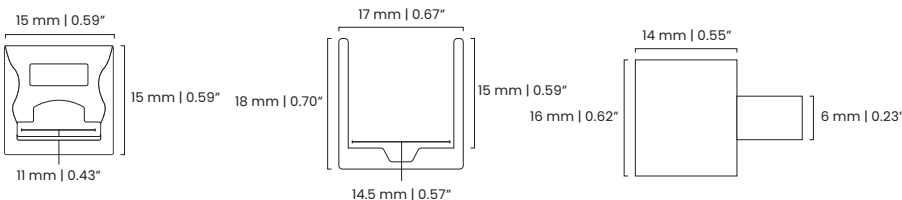
SLC-034R
Diffusion LED Channel
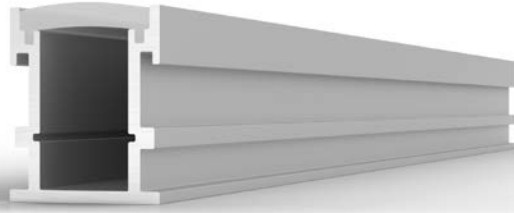
Description

The Diffusion SLC-034R is an in-floor, anodized aluminum channel that comes complete with two endcaps, and a 3mm thick opal polycarbonate lens.

Note: Extra clips and endcaps are available by request
Note: Use Outdoor Ribbon for exterior or walk over applications

Application

- Walkways
- Stairs
- Driveways
- Niches
- Exterior and or Interior use

Specifications

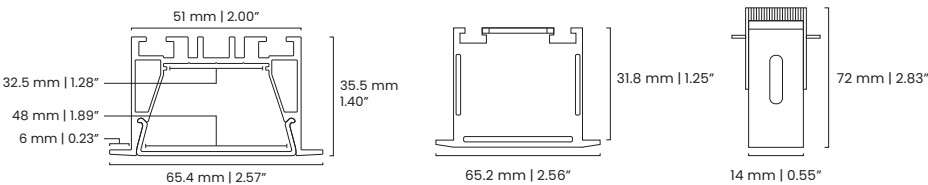|	
CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 034R	XX

Blank (Silver)
WH
BK
Custom RAL

Diagram

26 mm | 1.02"
12.6 mm | 0.49"
21.25 mm | 0.83"

26 mm | 1.02"
21.25 mm | 0.83"

Diffusion Lighting BY RJCROSS

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5 YEAR WARRANTY

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SLC-037C
Diffusion LED Channel
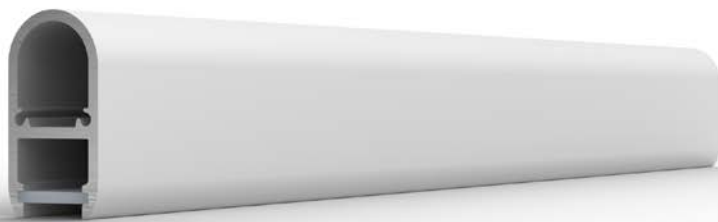
Description

The Diffusion SLC-037C is an anodized aluminum LED extrusion closet rod that comes with a 1.25 mm thick opal polycarbonate lens for zero dotting.

Note: The weight limit is dependent on what the end caps are being mounted to.
The closet rod on its own can handle 50kg/ft.
End fitting and center support are sold separately.

Application

- Closets
- Suspended fixture - with modified components

Specifications

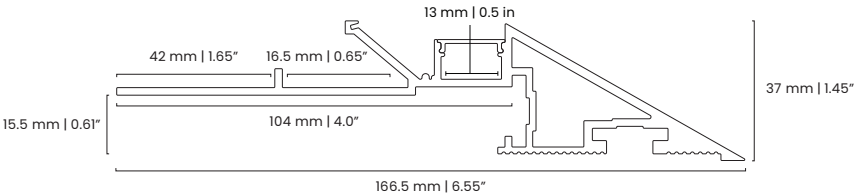|	
CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC – 037C	XX
	Blank (Silver)
	WH
	BK
	Custom RAL

Diagram

11.5 mm | 0.45"
28 mm | 1.10"
14.5 mm | 0.57"
40.8 mm | 1.6"
23.47 mm | 0.92"
44 mm | 1.73"
26.5 mm | 1.04"
75.5 mm | 2.97"
21.5 mm | 0.85"

Diffusion Lighting BY RJCROSS

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5 YEAR WARRANTY

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LISTED
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29
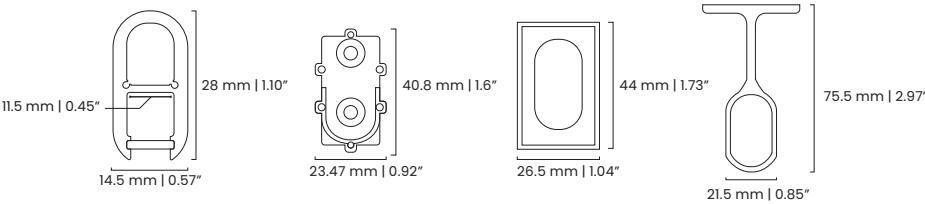
SLC-050SPWH
Diffusion LED Channel

Description

The Diffusion SLC-050SP is a surface/pendant mount aluminum LED extrusion with an opal polycarbonate lens.

Note: Dual row led is required
Note: Extra clips and endcaps are available by request

Application

- Surface mount
- Suspended fixture
- Halls
- Workshops
- Libraries
- Restaurant

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	White (Standard), Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE		COLOR
SLC – 050SP	—	XX

WH
BK
Custom RAL

Diagram

50 mm | 1.96"
32.5 mm | 1.28"
43 mm | 1.69"
28 mm | 1.10"
50 mm | 1.96"
14 mm | 0.55"
43 mm | 1.69"
27.3 mm | 1.07"
25 mm | 0.98"
8 mm | 0.31"
39.9 mm | 1.57"
50 mm | 1.96"

Diffusion Lighting BY RJCROSS

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5 YEAR WARRANTY

c UL us
LISTED
E486690
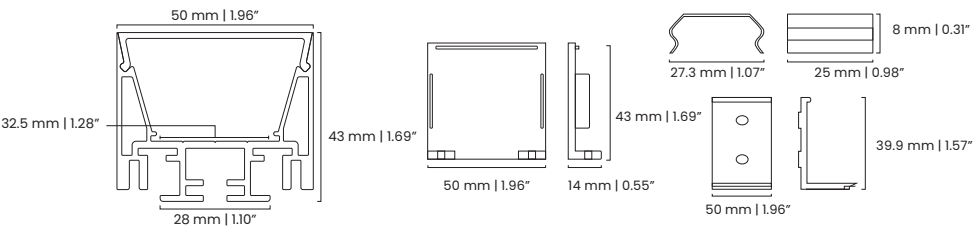
SLC-065RWH
Diffusion LED Channel
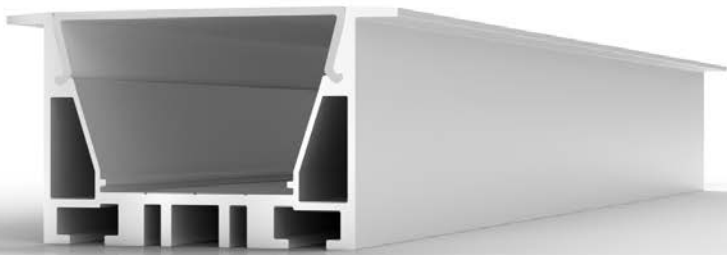
Description

The Diffusion SLC-065R is a recessed mount aluminum LED extrusion with an opal polycarbonate lens.

Note: Dual row led is required
Note: Extra clips and endcaps are available by request

Application

- Halls
- Workshops
- Ballrooms
- Classrooms
- Doctors offices
- Recessed in drywall

## Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 065R	XX

WH
BK
Custom RAL

Diagram

51 mm | 2.00"
32.5 mm | 1.28"
48 mm | 1.89"
6 mm | 0.23"
35.5 mm 1.40"
65.4 mm | 2.57"

31.8 mm | 1.25"
65.2 mm | 2.56"

72 mm | 2.83"
14 mm | 0.55"

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5 YEAR WARRANTY

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SLC-098KE
Diffusion LED Channel
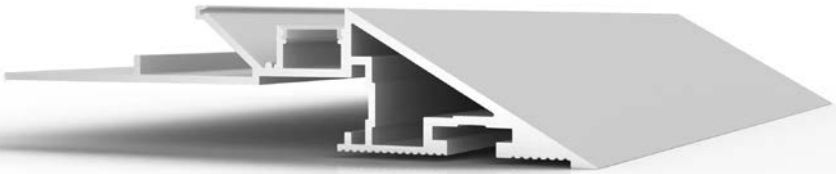
Description

The Diffusion SLC-098KE is an anodized aluminum LED extrusion knife edge profile (Joiners & acrylic lenses sold separately).

Application

• Edgeless covers

Specifications
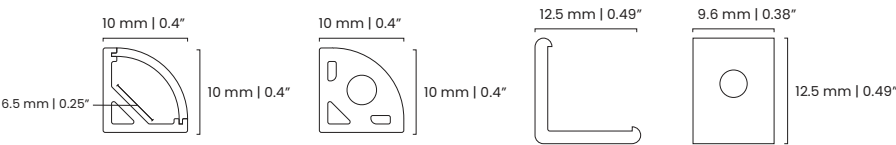
CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
ENVIRONMENT	Indoor and Outdoor
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - 098KE	XX
	Blank (Silver)

Diagram

42 mm | 1.65" 16.5 mm | 0.65" 13 mm | 0.5 in
15.5 mm | 0.61" 104 mm | 4.0" 37 mm | 1.45"
166.5 mm | 6.55"

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SLC - Micron - 213R
Diffusion LED Channel

Description

The Diffusion SLC-Micron-213R is a narrow 45° angle anodized aluminum channel that comes complete with mounting hardware, two gray end caps, and an opal polycarbonate lens for zero dotting.

Note: Only compatible with Micron Series LED Ribbion

Application

- Shelving
- Kitchen cabinet
- Recessed
- Furniture

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - MICRON - 213R	XX

Blank (Silver)
WH
BK
Custom RAL

Diagram

22 mm | 0.86"
45°
12.4 mm | 0.48"
8 mm | 0.31"
12 mm | 0.47"

15.5 mm | 0.61"

12.5 mm | 0.49"
22 mm | 0.86"

Note: installing a lens on micron channels can be difficult and may require patience.

5 YEAR WARRANTY

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SLC - Micron - 102S
Diffusion LED Channel

Description

The Diffusion SLC-Micron-102S is a narrow 10 mm anodized aluminum channel that comes complete with mounting hardware, two grey end caps, and an extra thick opal polycarbonate lens for zero dotting.

Note: Only compatible with Micron Series LED Ribbion

Application

- Platforms
- Stairs
- Shelving
- Furniture
- Niches

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Aluminum
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	COLOR
SLC - MICRON - 102S	XX

Blank (Silver)
WH
BK
Custom RAL
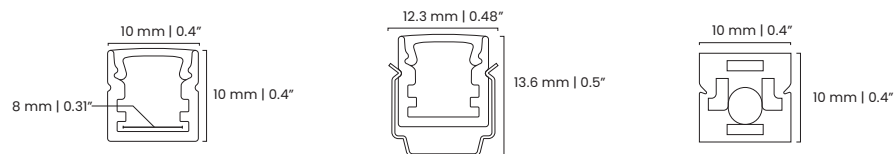
Diagram

10 mm | 0.4"
8 mm | 0.31"
10 mm | 0.4"

12.3 mm | 0.48"
13.6 mm | 0.5"

10 mm | 0.4"
10 mm | 0.4"

Note: installing a lens on micron channels can be difficult and may require patience.

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5 YEAR WARRANTY

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SLC - Micron - 107S
Diffusion LED Channel
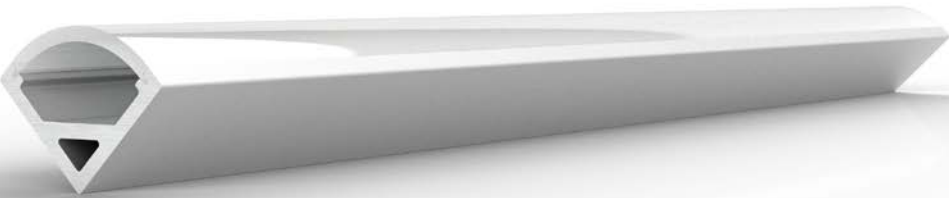
Description

The Diffusion SLC-Micron-107S is a narrow 10 mm 45-degree anodized aluminum channel that comes complete with mounting hardware, end caps, and an opal polycarbonate lens for zero dotting.

Note: Only compatible with Micron Series LED Ribbion

Application

- Shelving
- Furniture
- Stairs
- Platforms
- Kitchen Cabinets
- Niches

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard), White, Black, Antimicrobial Coating and Custom RAL
MOUNTING CLIP MATERIAL	Plastic
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE		COLOR
SLC - MICRON - 107S	—	XX
		Blank (Silver) WH BK Custom RAL

Diagram

10 mm | 0.4"
6.5 mm | 0.25"
10 mm | 0.4"

10 mm | 0.4"
10 mm | 0.4"

12.5 mm | 0.49"

9.6 mm | 0.38"
12.5 mm | 0.49"

Note: installing a lens on micron channels can be difficult and may require patience.

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5 YEAR WARRANTY

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SLC – 090T
Diffusion LED Channel
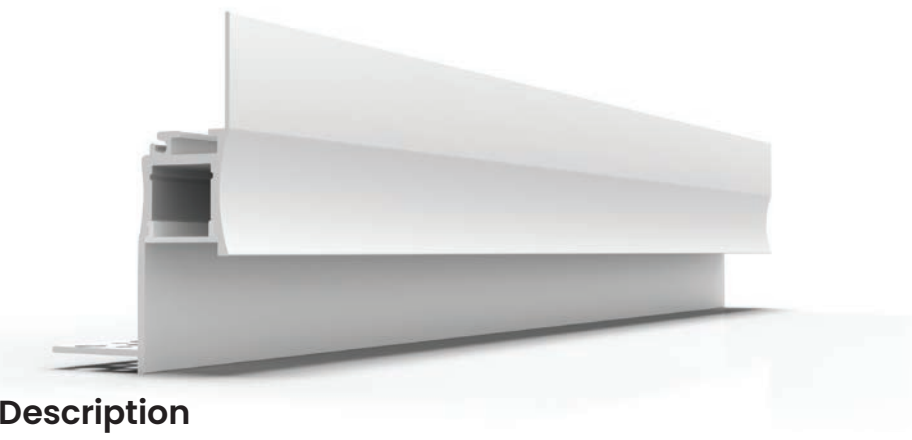
Description

The SLC-090T Diffusion Trimless Perimeter Edge Channel is a trimless channel made of anodized aluminum, with an opal polycarbonate lens that comes complete with two endcaps.

Application

- Wall perimeter lighting
- In-cove lighting
- In ceilings or walls

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, and Shatter Resistant.
LENGTH	8 ft (2.44 meters)
COLOR	White (Standard), Black, Antimicrobial Coating and Custom RAL
WARRANTY	5 Year Warranty

Diagram

46 mm | 1.8 in
12.8 mm | 0.5 in
28 mm | 1.10 in
42 mm | 1.65 in
39 mm | 1.53 in
13 mm 0.5 in
18.5 mm 0.72 in
15.5 mm | 0.61 in
20 mm | 0.78 in
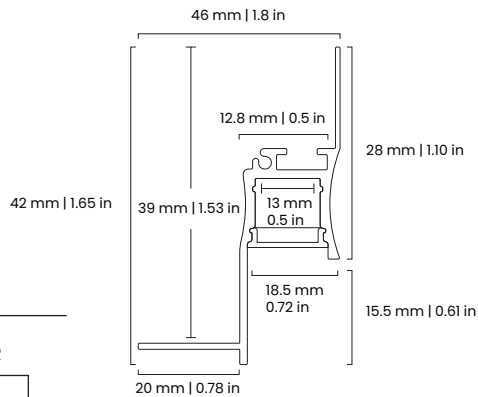
Ordering Information

ORDERING CODE	COLOR
SLC - 090T	— XX

WH
BK
Custom RAL

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SLC-Micron-006T
Diffusion LED Channel
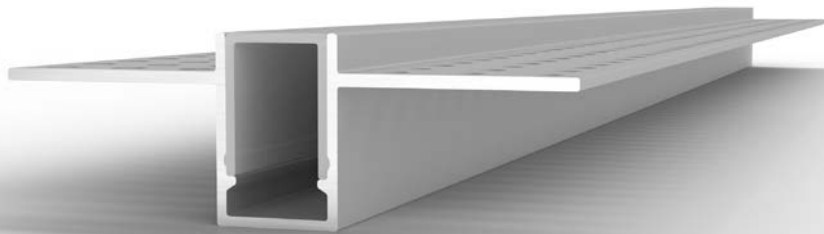
Description

The Diffusion SLC-Micron-006T is a narrow 10 mm trimless anodized aluminum channel that comes complete with mounting hardware, end caps, and an opal polycarbonate lens for zero dotting and It offers lens options for both flush and regressed installations.

Note: Includes filler foam
Note: Only compatible with Micron Series LED Ribbion

Application

- Drywall
- Flanges (can be cut off and installed in wood)

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, High Heat Resistant, UV Stable and Shatter Resistant
LENGTH	8 ft (2.44 meters)
COLOR	Silver (Standard)
WARRANTY	5 Year Warranty

Ordering Information

ORDERING CODE	LENS	COLOR
SLC - MICRON-006T	XX	XX
	Recessed Flush	Blank (Silver)
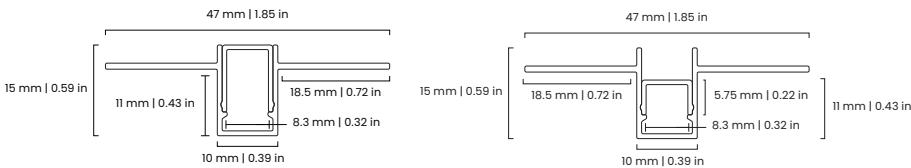
Diagram

47 mm | 1.85 in
15 mm | 0.59 in
11 mm | 0.43 in
18.5 mm | 0.72 in
8.3 mm | 0.32 in
10 mm | 0.39 in

47 mm | 1.85 in
15 mm | 0.59 in
18.5 mm | 0.72 in
5.75 mm | 0.22 in
11 mm | 0.43 in
8.3 mm | 0.32 in
10 mm | 0.39 in

Note: installing a lens on micron channels can be difficult and may require patience.

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SLC - Micron-085T
Diffusion LED Channel
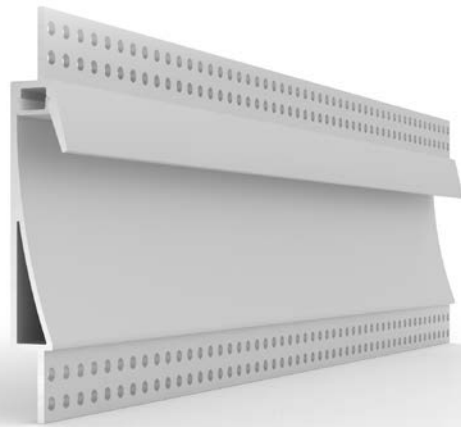
Description

The SLC-085T Diffusion Trimless Wall Channel is a trimless channel made of anodized aluminum, with an opal polycarbonate lens that comes complete with two endcaps.

Note: Only compatible with Micron Series LED Ribbion

Application

- Accent Lighting
- In-cove lighting
- In ceilings or walls

Specifications

CHANNEL	Anodized Aluminum Extrusion
LENS	Opal Polycarbonate, Heat Resistant, and Shatter Resistant.
LENGTH	8 ft (2.44 meters)
COLOR	White (Standard), Black, Antimicrobial Coating and Custom RAL
WARRANTY	5 Year Warranty

Diagram

13.4 mm | 0.52"
15 mm | 0.59"
6 mm | 0.23"
20°
55 mm | 2.16"
85 mm | 3.34"
5.4 mm | 0.21"
15 mm | 0.59"
5.4 mm | 0.21"
10 mm | 0.40"
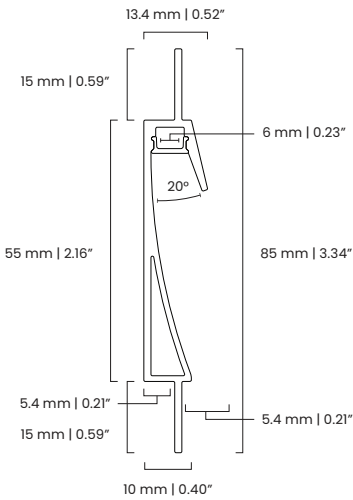
Ordering Information

ORDERING CODE	COLOR
SLC-MICRON-085T	XX

Blank (White)
BK
Custom RAL

Note: installing a lens on micron channels can be difficult and may require patience.

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Perch Series
Diffusion Perch
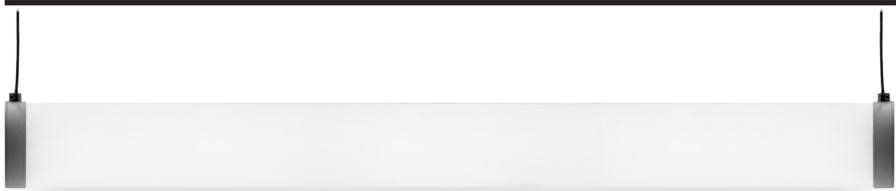
Description

The Diffusion Perch Series is a full 360-degree illumination fixture. It comes up to 9 w/ft, and is approx 900 lumens per ft.

Note: Optional Suspension Kits are available

Application

- Suspended Fixture
- Halls
- Ballrooms
- Libraries
- Restaurants
- And many more

Specifications

LENS	2.3" Diameter, Opal Polycarbonate, Heat Resistant, and Shatter Resistant
COLOR	White, Black, and Custom RAL
ORIENTATION	Suspended Vertically or Horizontally
MODELS	Perch 360º, Perch 180º Up and Perch 180º Down
WARRANTY	5 Year Warranty

Ordering Information

FIXTURE		ORIENTATION		MODELS		FIXTURE LENGTH		SUSPENSION LENGTH		SUSPENSION KIT
PERCH	—	XX	—	XX	—	XX	—	XX	—	XX
		VER HORZ		360º 180º Down 180º Up		Up to 8' Without Joiner More than 8' with Joiners		XX/FT		JB-5-SG (WH/BK/NK) TB-S-LG (WH/BK/NK) WC-2-SG (WH/BK/NK) CT-SG (NK)

Perch Models

Perch 180º Up   Perch 360º   Perch 180º Down

Lumens

2700K	**3000K**	**3400K**	**4100K**
2687 lm/m	2841 lm/m	3005 lm/m	3175 lm/m
(805 lm/ft)	(851 lm/ft)	(900 lm/ft)	(951 lm/ft)

Note Custom Kelvins available upon request*

DLMULTI-024 Series
Diffusion LED Driver

Description

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

Features

- Protection from short circuits, 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° C to 80° C
- Wet location rated
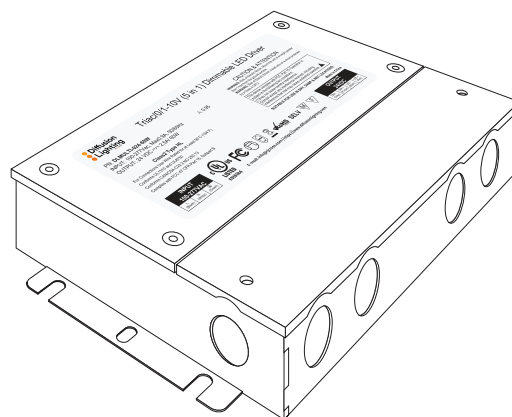
Specifications

INPUT VOLTAGE	100-277 VAC	ENVIRONMENT	Indoor and Outdoor
OUTPUT VOLTAGE	24V DC	OPERATING TEMP	-40°C to 80°C
DIMMING RANGE	0-100%	IP RATING	NEMA 4X
DIMMABLE	Yes	WARRANTY	5 Years

	WATTAGE	OUTPUT CURRENT	DRIVER DIMENSION	KNOCK OUTS
DLMULTI-024-30W	30W	1.25 A	150 mm L x 95 mm W x 25 mm H 6.0 in L x 3.75 in W x 1.0 in H	1/2" won't fit
DLMULTI-024-60W	60W	2.5 A	150 mm L x 93 mm W x 25 mm H 6.875 in L x 3.75 in W x 1.0 in H	1/2" won't fit
DLMULTI-024-100W	100W	4.16 A	206 mm L x 95 mm W x 38 mm H 8.125 in L x 3.75 in W x 38 mm 1.5 in H	3/8"
DLMULTI-024-150W	150W	6.25 A	241 mm L x 104 mm W x 44 mm H 9.5 in L x 4.125 in W x 1.75 in H	3/8"
DLMULTI-024-200W	200W	8.33 A	241 mm L x 104 mm W x 44 mm H 9.5 in L x 4.125 in W x 1.75 in H	3/8"
DLMULTI-024-300W	300W	12.5 A	257 mm L x 111 mm W x 44 mm H 10.125 in L x 4.375 in W x 1.75 in H	3/8"
DLMULTI-024-192W-2T	192W (2*96W)	2X 4.0 A	241 mm L x 104 mm W x 44 mm H 9.5 in L x 4.125 in W x 1.75 in H	3/8"
DLMULTI-024-288W-3T	288W (3X 96W)	3X 4.0 A	285 mm L x 110 mm W x 45 mm H 11.2 in L x 4.3 in W x 1.7 in H	3/8"

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DLDA-024 Series
Dali Dimmable Driver

Description

The Diffusion DLDA-024 Driver is an IP67 waterproof Dali dimming constant voltage electronic driver that is designed to be used indoors or outdoors. It includes a metal enclosure and is ideal for commercial and residential applications.

Driver

Enclosure

Features

- IP67 waterproof, designed for indoors and outdoors
- Suitable for dry & damp location
- Metal enclosure included
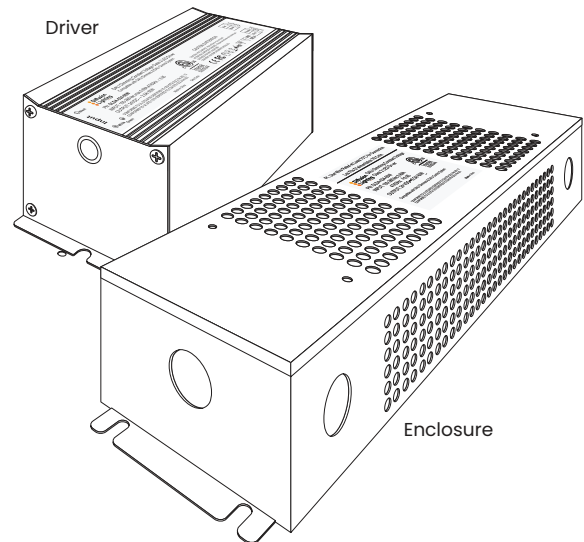
Specifications

INPUT VOLTAGE	100-265V AC	ENVIRONMENT	Indoor and Outdoor
OUTPUT VOLTAGE	24V DC	LOAD CAPABILITIES	80% - 90%
DIMMING RANGE	0-100%	IP RATING	NEMA 4X
DIMMABLE	Yes		

	WATTAGE	DRIVER DIMENSION	Enclosure	KNOCK OUT
DLDA-024-30W	30W	180 mm L x 60 mm W x 35 mm H 7.0 in L x 2.3 in W x 1.3 in H	330 mm L x 76 mm W x 40 mm H 13.0 in L x 3.0 in W x 1.5 in H	Standard
DLDA-024-60W	60W	173 mm L x 68 mm W x 40 mm H 6.8 in L x 2.6 in W x 1.5 in H	330 mm L x 76 mm W x 57 mm H 13.0 in L x 3.0 in W x 2.25 in H	Standard
DLDA-024-100W	100W	205 mm L x 68 mm W x 40 mm H 8.0 in L x 2.6 in W x 1.5 in H	360 mm L x 78 mm W x 57 mm H 14.15 in L x 3.0 in W x 2.25 in H	Standard
DLDA-024-150W	150W	230 mm L x 78 mm W x 45 mm H 9.0 in L x 3.0 in W x 1.7 in H	390 mm L x 85 mm W x 60 mm H 15.35 in L x 3.3 in W x 2.3 in H	Standard

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DLND-24V Series
Non-Dimmable Driver

Description

The Diffusion LED Driver DLND-024V is an electronic non-dimmable driver, housed in a plastic enclosure and is IP40 rated.

Features

- No junction box required
- Rated for Indoor use only
- Available in DLND-24V-18W and DLND-24V-36W
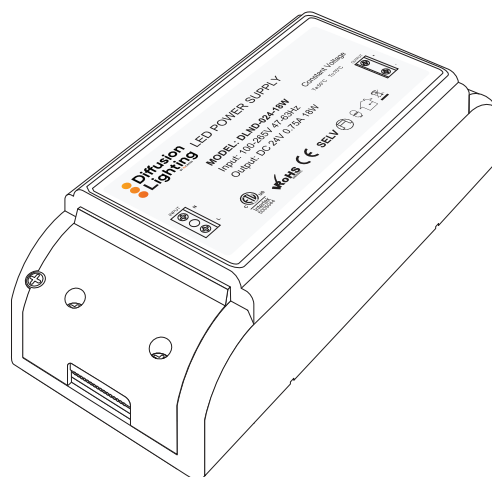
Specifications

INPUT VOLTAGE	120V 60Hz	**ENVIRONMENT**	Indoor Only
OUTPUT VOLTAGE	24V DC	**OPERATING TEMP**	-40ºC to 80ºC
DIMMABLE	No	**IP RATING**	NEMA 4X

	WATTAGE	DRIVER DIMENSION	Enclosure	KNOCK OUT
DLND-024V-18W	30W	114 mm L x 44.5 mm W x 28.5 mm H 4.5 in L x 1.75 in W x 1.12 in H	360 mm L x 78 mm W x 57 mm H 14.15 inL x 3.0 in W x 2.25 in H	Standard
DLND-024V-36W	60W	114 mm L x 44.5 mm W x 28.5 mm H 4.5 in L x 1.75 in W x 1.12 in H	360 mm L x 78 mm W x 57 mm H 14.15 inL x 3.0 in W x 2.25 in H	Standard

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5 YEAR WARRANTY

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Plug-In Drivers
Diffusion Driver

Description

The Diffusion Plug-in Drivers have simple plug-and-play setup and comes with a 2.1mm female jack.

Features

- Simple plug-and-play setup
- Available in 24W, 60W, 100W 24V load
- 2.1 mm female jack included
- cUL Listed

Dimensions

PW24-24V
76.5 mm (3.01 in) L x 46 mm (1.80 in) W x 39 mm (1.54 in) H

PD60-24V
118 mm (4.65 in) L x 61 mm (2.40 in) W x 33 mm (1.30 in) H

PD96-24V
387 mm (15.24 in) L x 60 mm (2.36 in) W x 37.5 mm (1.48 in) H
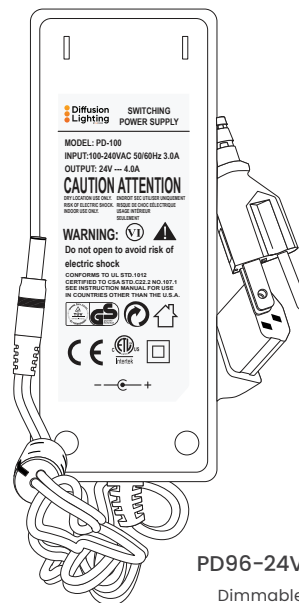
PD96-24V
Dimmable
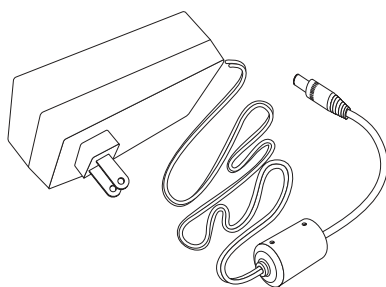
PW24-24V
Non-dimmable
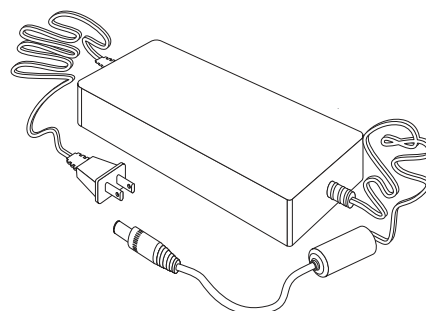
PD60-24V
Non-dimmable

Specifications

WATTAGE	24W, 60W, 100W	**OUTPUT METHOD**	Plug-in with 2.1 mm jack
INPUT VOLTAGE	120V 60Hz	**OPERATING TEMP**	-40ºC to 80ºC
OUTPUT CURRENT	1.0A, 2.5A, 4.0A	**ENVIRONMENT**	Indoor Only
OUTPUT VOLTAGE	24V DC		

Door-Hand Sensor
Diffusion Accessories

Description

The Diffusion Door-Hand Sensor (CRTSIRDH) is a versatile and practical solution for detecting hand movements and object presence in a wide range of applications.

Features

- Interchangeable door/hand-operated multi-sensor switch
- 1 or 2 detectors in the sensor unit
- LED light that switches on/off within a 10cm detection range
- Perfect for use in wardrobes with two doors or sliding doors
- Easy to use and install
- Reliable and efficient performance
- Compact and user-friendly design
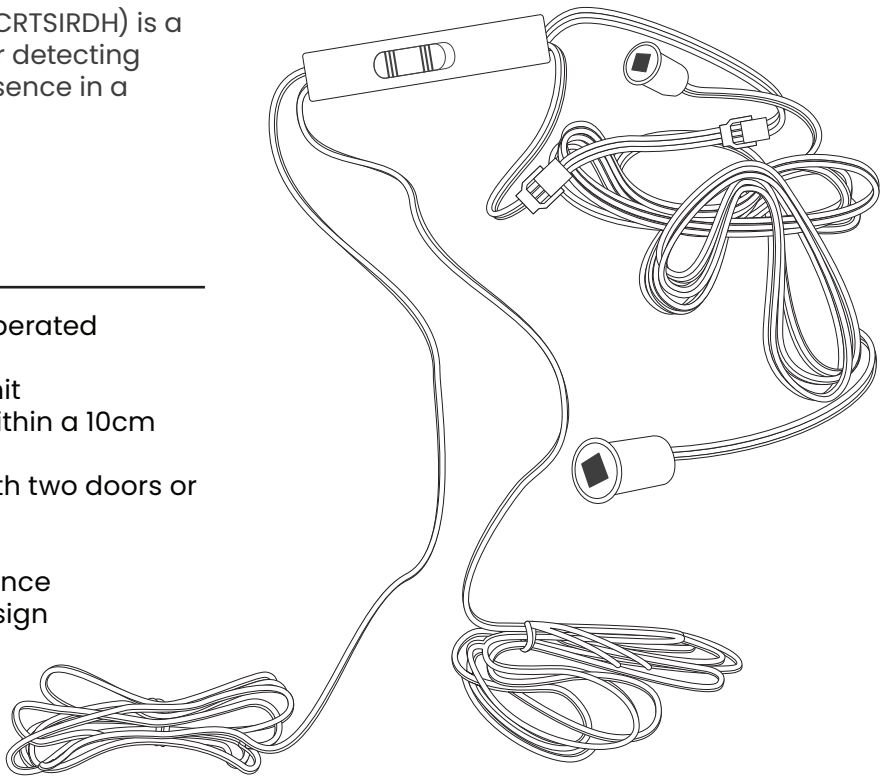
Specifications

INPUT VOLTAGE	24V DC
LOADING POWER	4A Max
INSTALLATION	Recessed Mounting
DETECTION RANGE	≤ 10 cm
COLOR	Black, White
WARRANTY	5 Year Warranty

5 YEAR WARRANTY

Clip Connectors
Diffusion Accessories

Description

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

Features

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

H8 Series

H10 Series

S10 Series
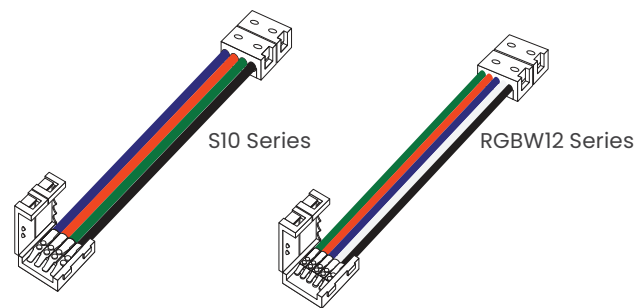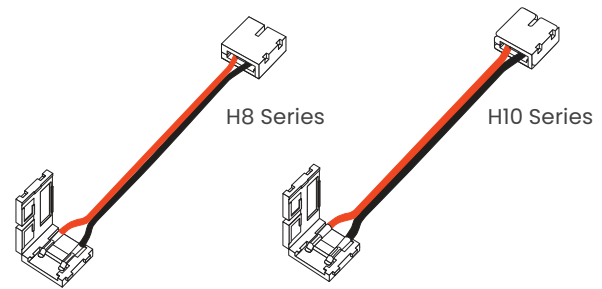
RGBW12 Series

Specifications

H8 SERIES	8 mm inner width | Compatible with SL3-Indoor and SL1-Indoor
H10 SERIES	10 mm inner width | Compatible with SL6-Indoor and SL7.5-Indoor
S10 SERIES	10mm inner width | Compatible with RGB-Indoor
RGBW12 SERIES	12mm inner width | Compatible with RGBW-Indoor

Micro Sensors
Diffusion Accessories

Description

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

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

Features

- Micro push button on/off only
- Touch with dimming and memory
- Proximity (swipe hand near sensor) on/off only
- PIR timed 6-70s
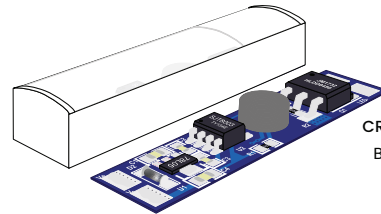
CRTT03 Dimming Touch Switch
Blue light identifying where to touch to control.
Hold to dim on/off.

Dimensions

CRTSPIRIT PIR Motion Sensor
73 mm (2.87") L x 10 mm (0.39") W x 11.5 mm (0.45") H

CRTT03 Dimming Touch Switch
43 mm (1.69") L x 10 mm (0.39") W x 12 mm (0.47") H

CRTS01 Proximity Hand Sensor
71 mm (2.79") L x 10 mm (0.39") W x 5.5 mm (0.21") H

CRTB01 Micro Button Switch
71 mm (2.79") L x 10 mm (0.39") W x 5.5 mm (0.21") H
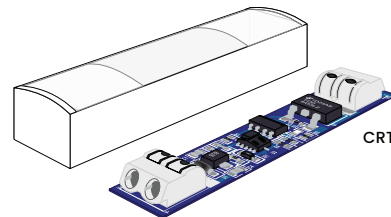
CRTS01 Proximity Hand Sensor
On/off function only.
Swipe hand past sensor to activate.
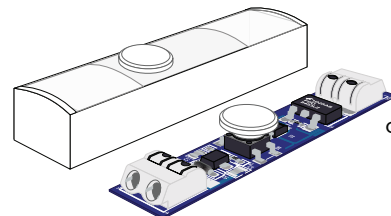
CRTB01 Micro Button Switch
One touch on/off switch.

Specifications

VOLTAGE	24 Volts DC
MAX INPUT AT LOAD	8 A
TYPE	Passive Infrared
ENVIRONMENT	Indoor Only
IP RATING	IP 20
WARRANTY	5 Year Warranty

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5 YEAR WARRANTY

SC-Connectors Series
Diffusion Accessories

Description

The SC10W01 and SC10W02 are designed to be used with SL6 Ribbon. They come with a 1.3mm hole and a 2.5mm hole, but they are also compatible with SL1 and SL3 Ribbons.

SC10W02

Features

- Solderless connections
- It can be used as a power feed by using your own cable
- Includes a compatible Screwdriver

SC10W01

Notes

SC10W01 comes with a 6" power feed.
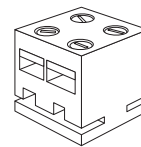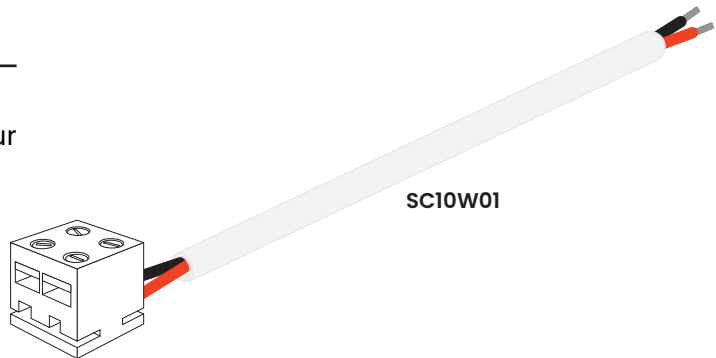
Specifications

COMPATIBILITY	SL6 Indoor, SL3 Indoor, SL1 Indoor

Pendant Mount
Diffusion Accessories

Description

The Diffusion Pendant Mounts are accessories for suspending Diffusion pendant fixtures. Featuring a modern and sleek design, they are suitable for both residential and commercial lighting projects.

Features

- Mounting Hardware Included
- Easy to install
- Durable construction
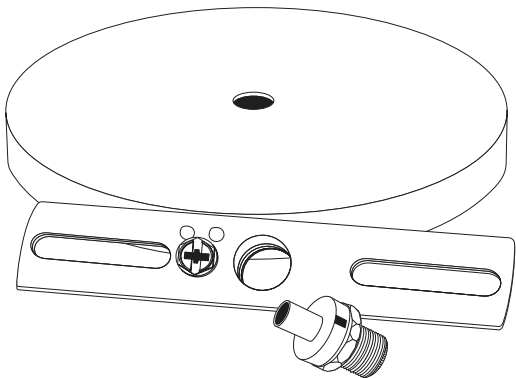
JB-5-SG-(WH/BK/NK)
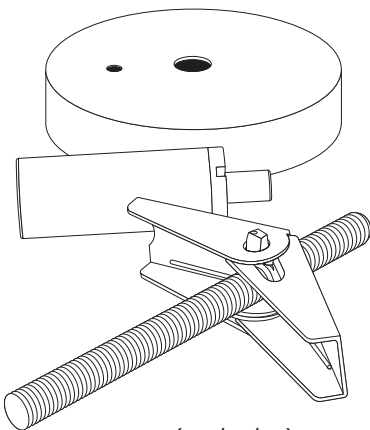
BF-2-LG-(WH/BK/NK)
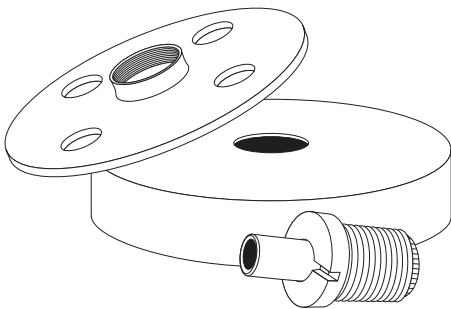
WC-2-SG-(WH/BK/NK)
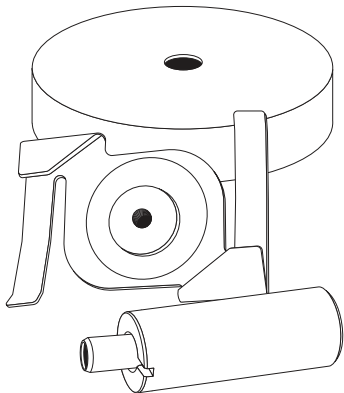
TB-2-LG-(WH/BK/NK)

Specifications

COLOR	Black, White
MOUNTING	Pendant
MATERIAL	Aluminum
ENVIRONMENT	Indoor Recommended
WARRANTY	5 Year Warranty

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5 YEAR WARRANTY

Switches Dimmable Touch Sensor
Diffusion Accessories

Description

The Diffusion CRTT04B/CRTT04W - Dimming Touch Switch Sensors offer solutions to a wide range of applications with its Flush circular dimmable touch switch and it is available in black and white.

Features

- Compatibility with a wide range of fixtures
- Easy installation
- Reliable and efficient performance
- Compact and user-friendly design
- Durable construction
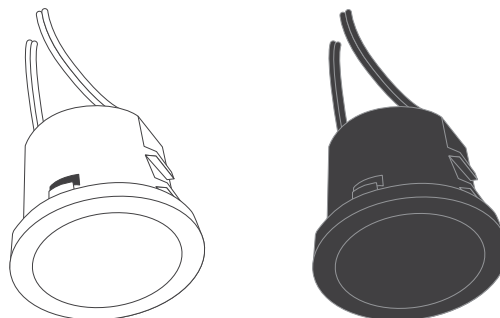
Dimensions

Diameter: 22 mm (0.86 in)
Hole required is 18 mm (0.70) diameter

Specifications

INPUT VOLTAGE	24V DC
LOADING POWER	8A Max
MATERIAL	Polymer-Based
COLOR	Black and White
ENVIRONMENT	Indoor Recommended

LT-820-5A RGBW DMX Decoder
Diffusion LED Controller

Description

The Diffusion LT-820-5A RGBW DMX Controller is an OLED display DMX decoder.

Features

- OLED real-time display
- 16bit/8bit input
- Frame rate as high as 850FPS
- Built-in circuit protection
- 5A load per channel to a max of 20A
- Require electronic drivers only
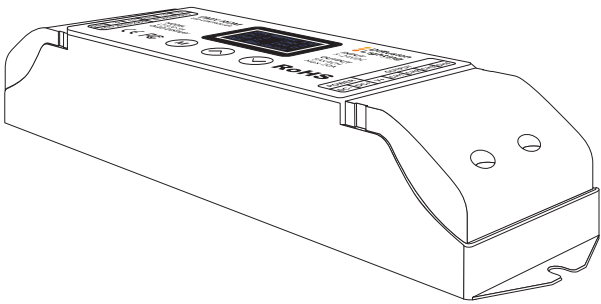
Dimensions

Decoder
175 mm (6.8 in) L x 44 mm (1.7 in) W x 30 mm (1.1 in) H

Specifications

POWER INPUT	24V DC
MAX CURRENT LOAD	5A x 4 CH (Max 20A)
MAX OUTPUT POWER	480W @ 24V
DIMMING RANGE	0–100%

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5 YEAR WARRANTY

RGB(W) Remote & Controller
## Diffusion LED Controller

Description

Diffusion RGB(W) Remote Controller is 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
- Require electronic drivers only
- Wall mountable
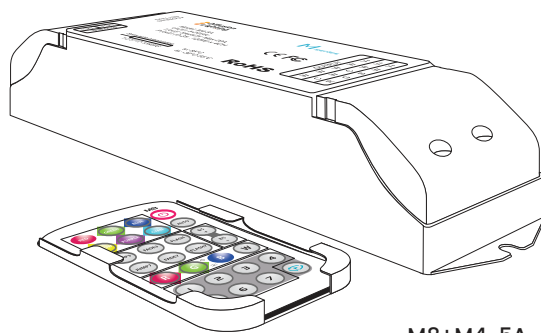
M8+M4-5A
Interchangeable with M4 remote
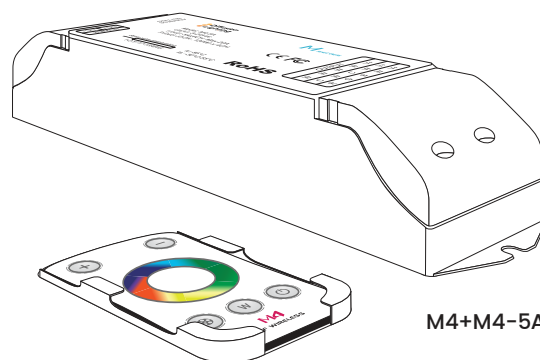
M4+M4-5A

Specifications

POWER INPUT	24V DC
MAX OUTPUT POWER	480W @ 24V
ENVIRONMENT	Indoor Only
IP RATING	IP 20

	MAX CURRENT LOAD	GRAYSCALE MAX	LED OUTPUT	CONTROLLER DIMENSION
M4+M4-5A	5A x 4 CH (Max 20A)	4096 x 4096 x 4096 x 4096	–	175 mm L x 44 mm W x 30 mm H 6.8 in L x 1.7 in W x 1.1 in H
M8+M4-5A	5A x 4 CH (Max 20A)	4096 x 4096 x 4096 x 4096	–	175 mm L x 44 mm W x 30 mm H 6.8 in L x 1.7 in W x 1.1 in H

Casabmi LED and RGBW Controller
Diffusion Lighting is Casabmi Ready
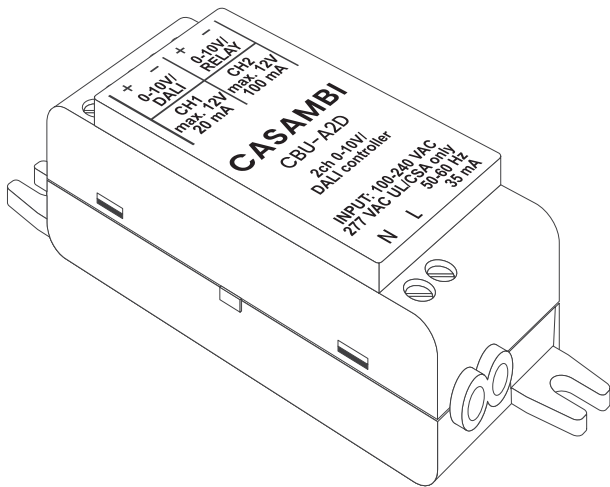
Casambi CBU-A2D
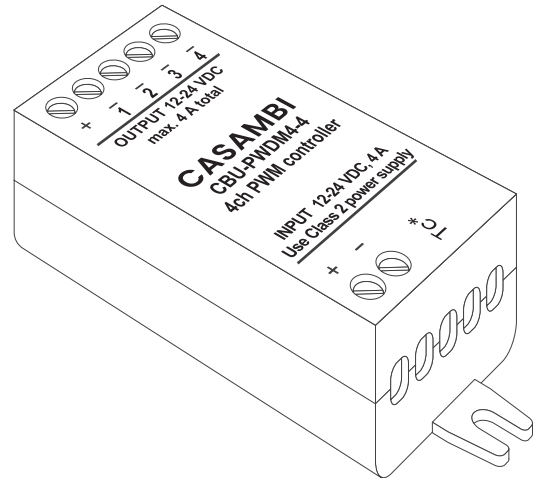
Casambi CBU-PWM4

Description

Casambi is a Bluetooth-enabled controller that operates on the 0-10V/DALI protocol, making it compatible with a wide range of LED drivers. It can also be used RGBW applications as well as dim to warm and more. The controller can be easily managed through the Casambi app and operated individually or as part of a mesh network consisting of up to 250 units.

Features

- Bluetooth 4.0 connectivity for wireless control via the Casambi app
- Universal input voltage range of 100-277 VAC
- Supports 0-10V control for 1-2 LED drivers or tunable white LED driver
- Configurable as a DALI controller for DALI LED drivers/sensors
- Enables standalone DALI output, acting as both controller and power supply
- Mesh network technology for extended range and network reliability

5 YEAR WARRANTY

UX8 RGB(W) Wall Mount Touch Panel
Diffusion LED Controller

Description

Diffusion UX8 RGB(W) Wall Mount 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

Dimensions

Panel

145.8 mm (5.74 in) L x 105.9 mm (4.17 in) W x 10.4 mm (0.41 in) H

Specifications

COM. STANDARD	2.4Ghz WiFi, 802.11 b/g/n protocol
POWER INPUT	24V DC
MAX CURRENT LOAD	4A x 4CH Max 16A

WIFI-PLA104 WIFI CONTROLLER
Diffusion LED 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
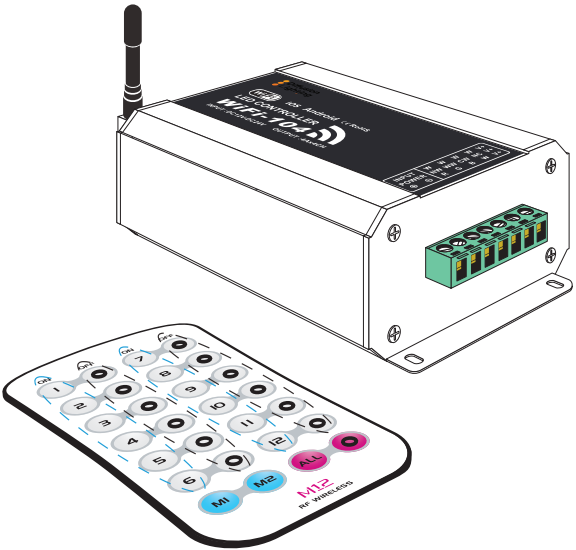- Require electronic drivers only

Dimensions

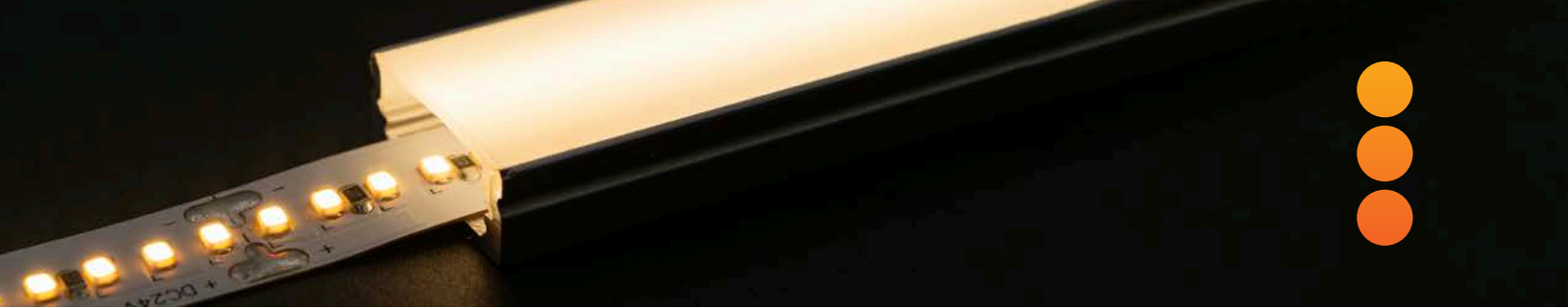### Controller

175 mm (6.8 in) L x 127.6 mm (5 in) W x 40 mm (1.5 in) H

Remote

104 mm (4 in) L x 60 mm (2.3 in) W x 10 mm (0.4 in) H

Specifications

COM. STANDARD	2.4Ghz WiFi, 802.11 b/g/n protocol
POWER INPUT	24V DC
MAX CURRENT LOAD	4A x 4CH Max 16A
CONTROL DISTANCE MAX	100m
COMPATIBLE WITH	R4-5A Receiver

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5 YEAR WARRANTY

Five Year Warranty

At Diffusion Lighting, we are dedicated to elevating lighting to new heights. Our commitment to quality and consistency is clear in every product we manufacture. Our One Bin Selection, 2-step MacAdam Ellipse, and Three Step Quality Test Control process are a testament to our unwavering pursuit of excellence. Our comprehensive 5-year warranty and dedication to customer satisfaction is further evidence of our commitment to delivering the best lighting experience possible. Trust us to bring quality and professionalism to your lighting needs.

One Bin Selection

At Diffusion Lighting, we understand the discerning nature of quality-conscious customers who demand the absolute best. Our One Bin Selection method embodies our commitment to unparalleled color consistency and exceptional quality in every product we manufacture. While other manufacturers may compromise on quality to cut costs, we take pride in delivering premium products at competitive prices.

Two-Step MacAdam Ellipse

Our two-step MacAdam Ellipse elevates us to the forefront of color accuracy in the industry. Our stringent adherence to a 2-step MacAdam ellipse, instead of the widely accepted 4-step, ensures that our products deliver a more precise and accurate representation of the color. This makes Diffusion Lighting the ideal choice for the most color-sensitive applications.

Three step Quality Test Control

To guarantee that our products are nothing short of perfect, we have implemented a Three Step Quality Test Control process. Each LED undergoes rigorous testing three times during production to guarantee its performance and quality. The testing is conducted after manufacture, after installation on custom PCB boards, and before shipping to ensure that each product meets our stringent quality standards.

Get In Touch

Our experienced team is here to illuminate your next project. Contact us today to get started.

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