Bandis Vision Brochure

01
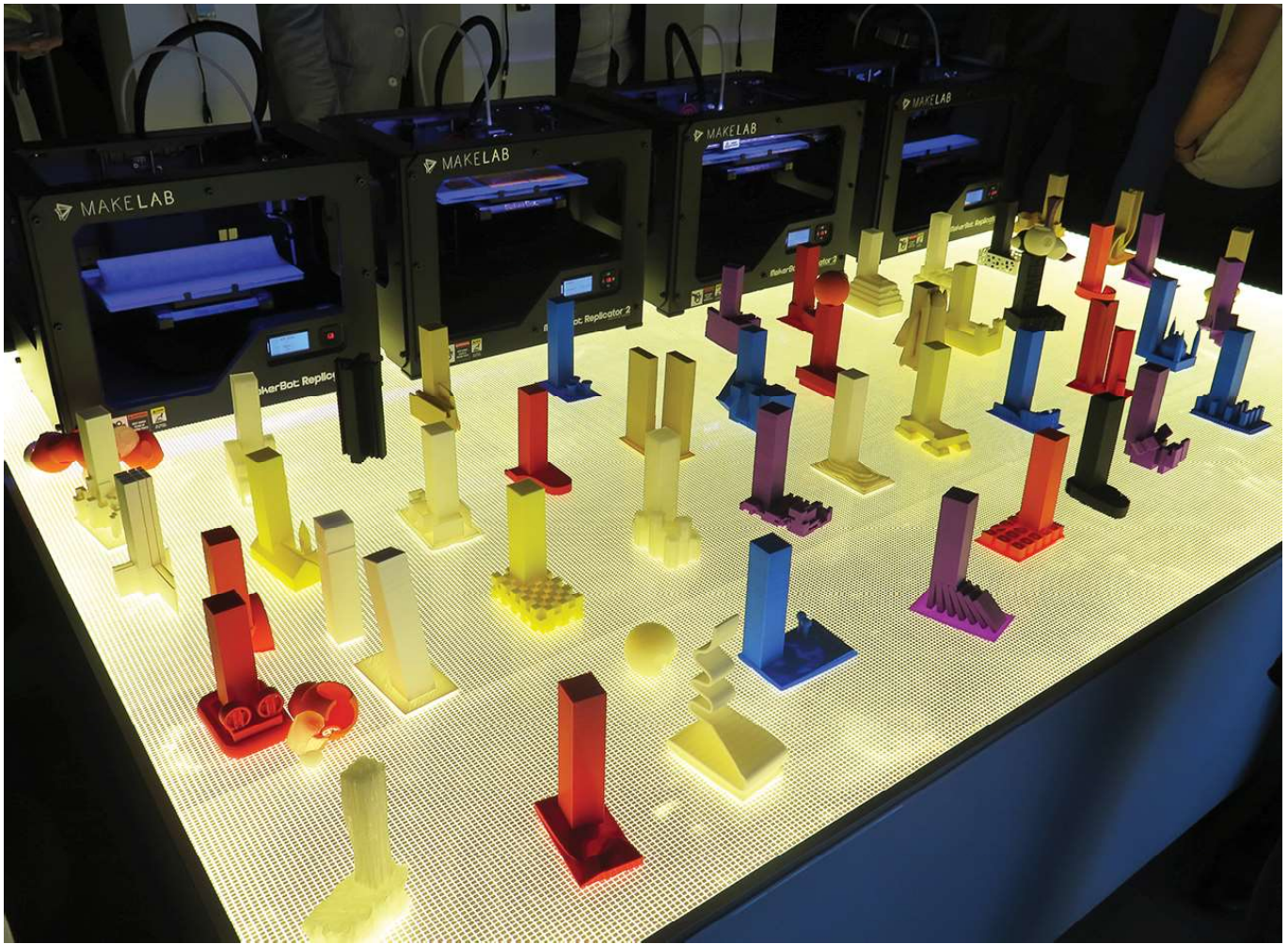# LGP
LIGHT GUIDED PANEL

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LGP
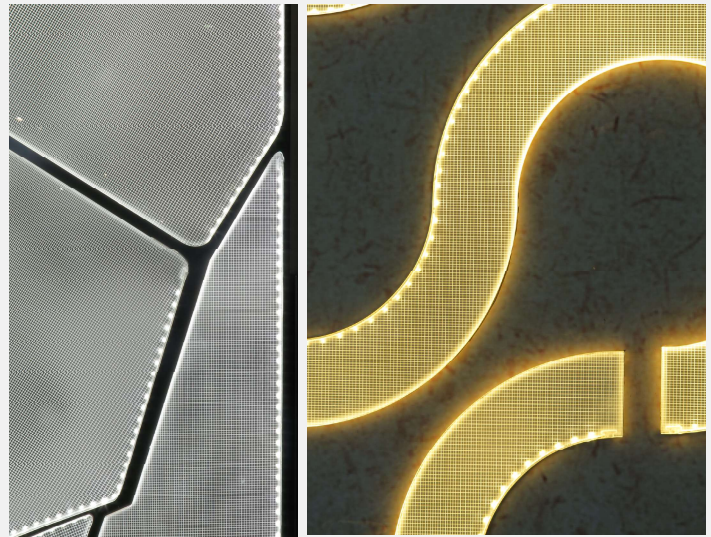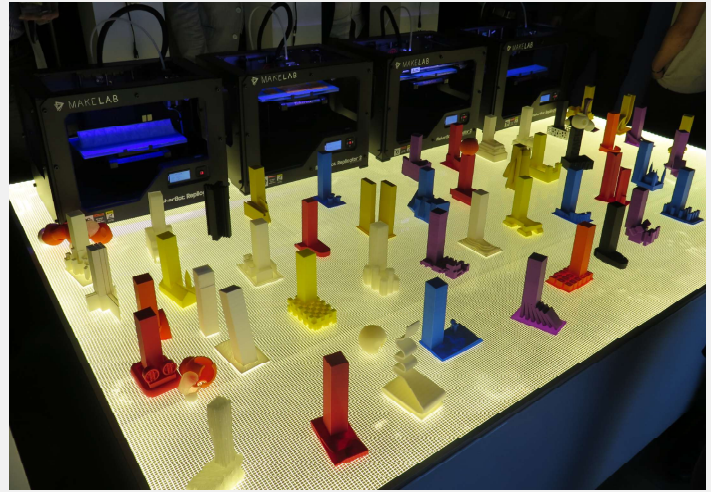
01 LED LIGHT PANEL

LED light Panel is a sub-assembly light source that delivers flawless illumination on a various surfaces and materials. The Light Panel features high-quality LEDs and 3D V-cut engraved light guiding plate, ensuring uniform illumination across the entire panel surface at various color temperatures, made to fit your needs.

Ideal for illuminating compact and narrow flat surfaces of all sizes and forms. It may be used for displays, feature walls, ceilings, countertops, and floors, among many others, giving designers a simple yet effective approach to create visually-striking lighting solutions in environments of all types.

Customizable

+Any size and up to **60" (1524mm) x 120" (3048mm)**
+Customizable shapes
+Available in cool white, warm white,
 Tunable White, RGB, Digital LED
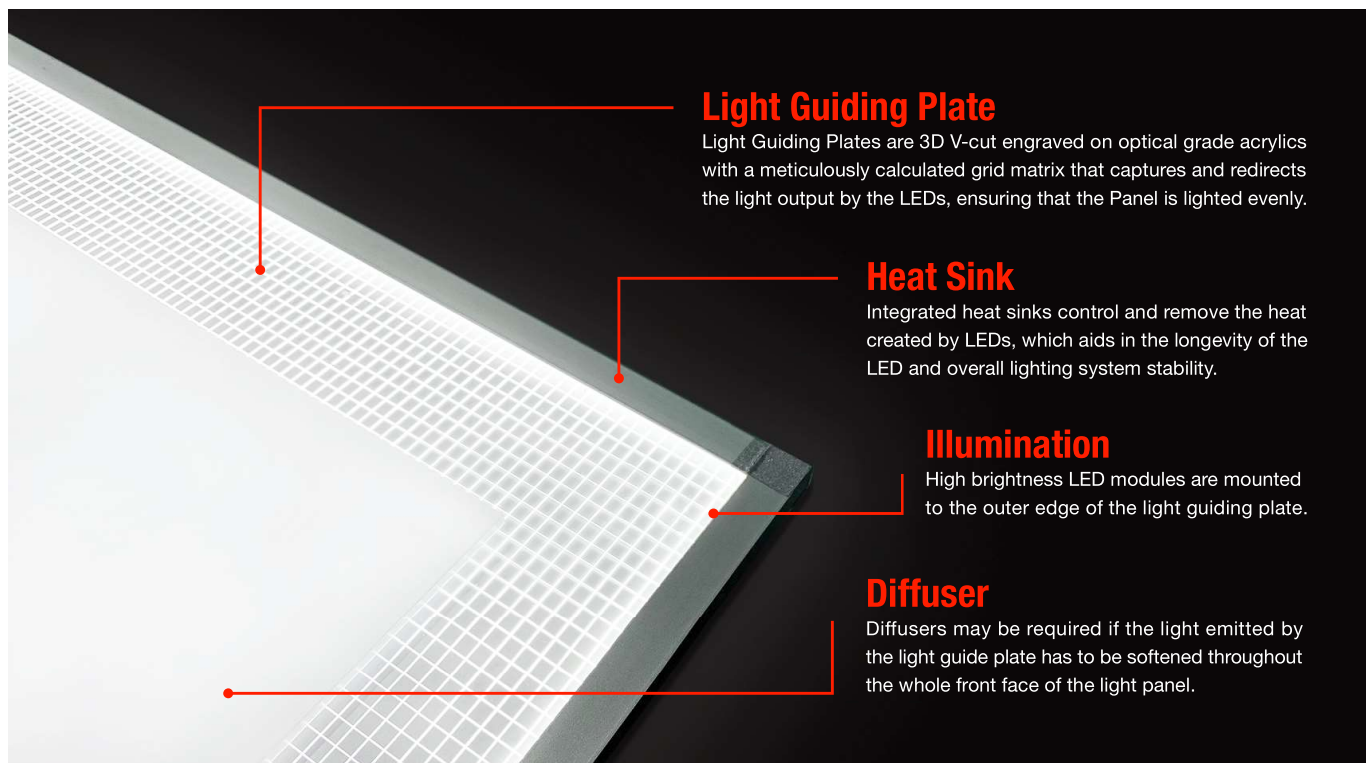+Single or double-sided uses

Bright Uniform Illumination

+3D V-CUT engraved grid matrix
+High-intensity LED modules
+2,000~10,000 LUX
+90+ CRI

Energy Efficient

+Low power consumption & maintenance
+Long LED lifespan up to 70,000 hrs

Warranty

+3 years limited warranty

Light Guiding Plate

Light Guiding Plates are 3D V-cut engraved on optical grade acrylics with a meticulously calculated grid matrix that captures and redirects the light output by the LEDs, ensuring that the Panel is lighted evenly.

Heat Sink

Integrated heat sinks control and remove the heat created by LEDs, which aids in the longevity of the LED and overall lighting system stability.

Illumination

High brightness LED modules are mounted to the outer edge of the light guiding plate.

Diffuser

Diffusers may be required if the light emitted by the light guide plate has to be softened throughout the whole front face of the light panel.
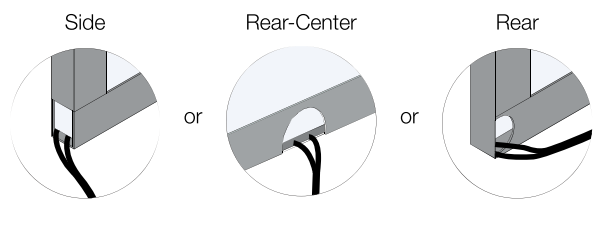
Number of LED Channels

The number of LED channels is determined by your use case, size, and brightness setting.

Our team is happy to help you figure out which options will work best for your specific needs.
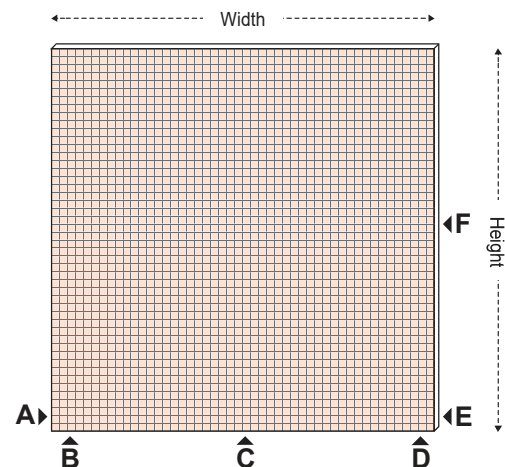
1ch	2ch	4ch
LED on 1 channel	LED on 2 channels	LED on 4 channels

Side   Rear-Center   Rear

or   or

Power Wire Location

* Wire Location: Left or Right
* Default Wire Length: 4' (1.2m)
* Number of Wire: 1 wire required < **12V / 50W** < 2 wires required
  1 wire required < **24V / 75W** < 2 wires required

Width

Height

F

A   E

B   C   D

Standard LGP

Slimline 7mm / 8mm, Seamless Illumination made to fit

LED modules are fixed onto the perimeter edge of the V-cut engraved light directing plate, and its edges are covered with U-channel aluminum, resulting in excellent consistent illumination from within a range of different materials and surfaces.

Key Features

- Slimline 7 mm and 8 mm
- Square shape up to
  60" (1524mm) x 120" (3048mm)
- Custom 3D V-Cutting Technology
- Single or Double-sided uses
  Choices of cool white, warm white,
- Tunable white, RGB
- Dry location use
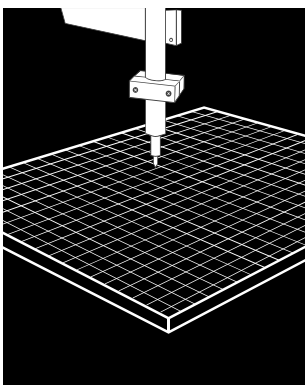- Optional lighting controls available
- Made in Canada

Profile

9/32" (7mm)
5/16" (8mm)

Acrylic Panel

LED   Reflective Paper

Aluminum Heat Sink
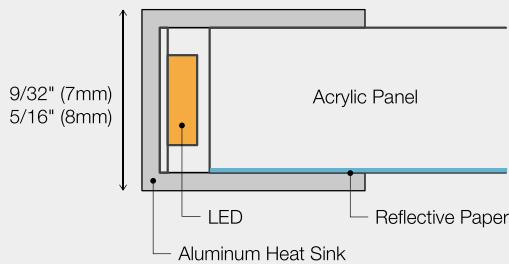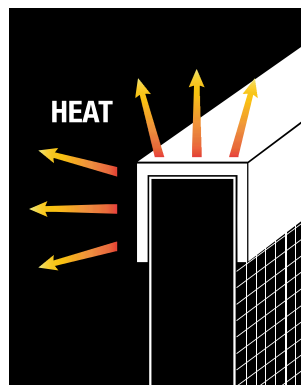
❶ Custom 3D V-Cutting

❷ Aluminum Heat Sink
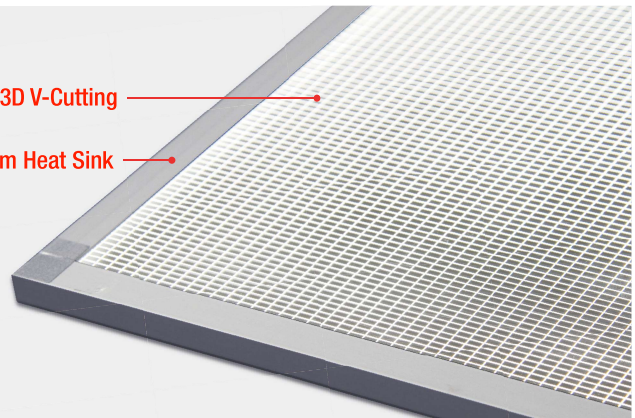
❶ Custom 3D V-Cutting

3-dimensional V-cut etched on optical grade acrylics with a precisely computed grid matrix catches and directs the light output by the LEDs, resulting consistent illumination over the panel.
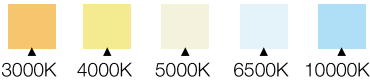
❷ Aluminum Heat Sink

HEAT

Integrated heat sinks reduce the heat generated by LEDs, improving their lifetime and overall lighting system stability.

- LED Longevity
- Performance Stability
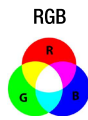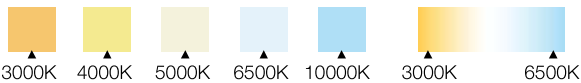- Low Maintenance

LED Color Temperatures

• 9/32" (7mm)
White LED Color Temperature (Standard Color)

3000K   4000K   5000K   6500K   10000K

(R) or (G) or (B)

• 5/16" (8mm)
White LED Color Temperature (Standard Color)   Tunable White

3000K   4000K   5000K   6500K   10000K   3000K   6500K

(R) or (G) or (B)   RGB   Digital LED

Dimming

• 0-10V dimming
• Pulse-with modulation (PWM)

Dimmable

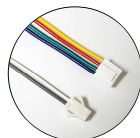# Wire Type

* Default Wire Length : 4' (1.2m)

DC Connector   Pig Tail   JST SM Connector

Mounting Options
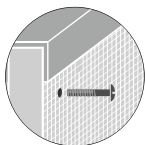
Direct Screw   Z Clip   Mirror Clip

Specifications

Physical	
Max Size	60" (1524mm) x 120" (3048mm)
Min Size	2" (50mm) x 2" (50mm)
Overall Thickness	9/32" (7mm), 5/16" (8mm)
Operating Temperature	-30°C (-22°F) ~ +40°C (+104°F)
Environment	Dry location only (Indoor)
Mounting Options	Direct Screw / Z Clip / Mirror Clip
Weight	9/32" (7mm) : 1.23lb/ft² (6kg/m²) 5/16" (8mm) : 1.5lb/ft² (7.3kg/m²)
Warranty	3 Years

Electrical	
Input Voltage	12V / 24V DC Class 2
Power Consumption	3.0 w/ft / 4.0 w/ft
Brightness	2,000 Lux to 10,000 Lux
Color Temperature	7mm: White LED, R or G or B 8mm: White LED, Tunable, RGB, Digital LED
Available LED Channels	1ch / 2ch / 4ch
CRI	90+

Trimless LGP

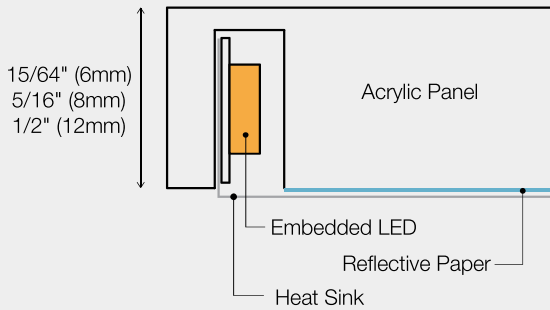Custom shapes, 6mm / 8mm / 12mm Trimless light panel
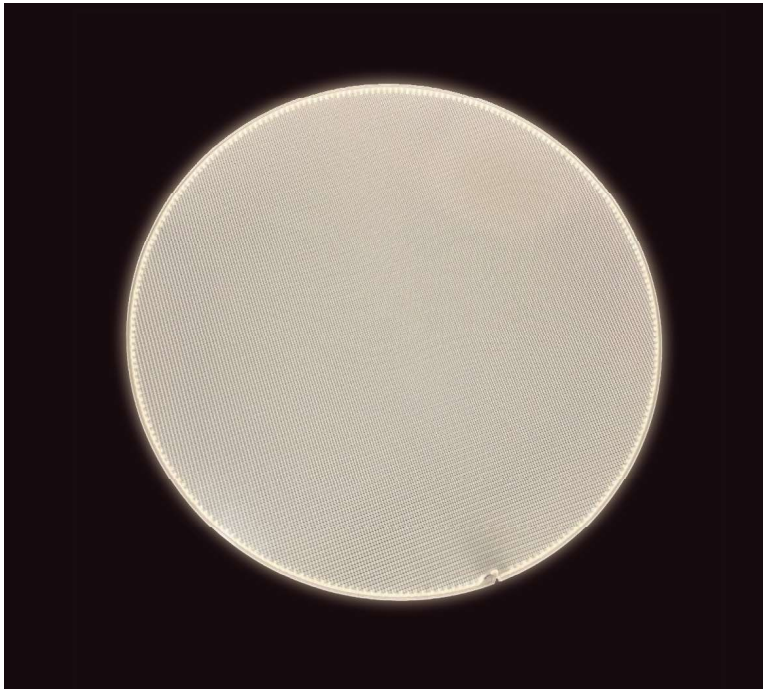
Built to be premium in both style and function, with a heat sink and LED modules mounted to the outer edge of the Light directing plate to provide crisp, homogenous illumination. Enabling the customization of sizes and forms.
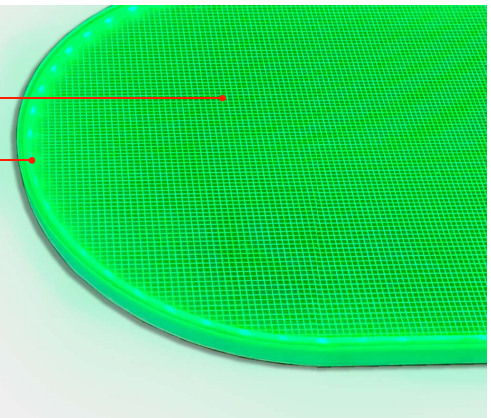
Key Features

- Slimline 6 mm, 8mm, and 12 mm Customizable shapes up to
- 60" (1524mm) x 120" (3048mm)
- Trimless Construction
- Custom 3D V-Cutting Technology
- Single or Double-sided uses Choices of cool white, warm white,
- Tunable white, RGB
- Dry location use
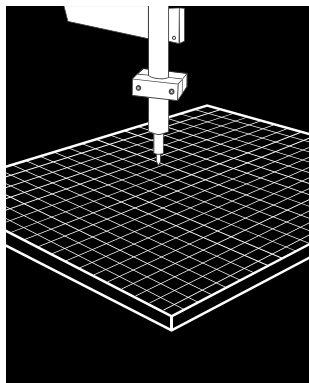- Optional lighting controls available
- Made in Canada

Profile

15/64" (6mm)
5/16" (8mm)
1/2" (12mm)

Acrylic Panel

Embedded LED

Reflective Paper
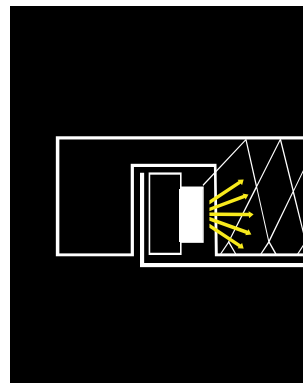
Heat Sink

❶ Custom 3D V-Cutting

❷ Embedded LED

❶ Custom 3D V-Cutting

3-dimensional V-cut etched on optical grade acrylics with a precisely computed grid matrix catches and directs the light output by the LEDs, resulting consistent illumination over the panel.
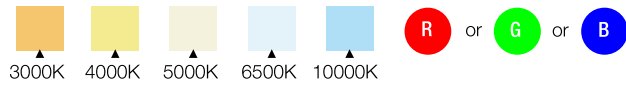
❷ Embedded LED

LED modules are embedded directly onto the perimeter edge of the light guide plate, eliminating the need for rigid frames. This method enables the light panel to be built in any form.
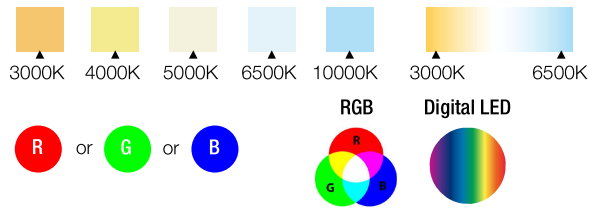
LED Color Temperatures

• 15/64" (6mm)
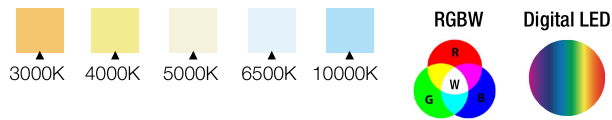White LED Color Temperature (Standard Color)

| 3000K | 4000K | 5000K | 6500K | 10000K |

R or G or B

• 5/16" (8mm)
White LED Color Temperature (Standard Color)   Tunable White

| 3000K | 4000K | 5000K | 6500K | 10000K | | 3000K | 6500K |

R or G or B

RGB   **Digital LED**

• 1/2" (12mm)
White LED Color Temperature (Standard Color)

| 3000K | 4000K | 5000K | 6500K | 10000K |

RGBW   **Digital LED**

Dimming

• 0-10V dimming
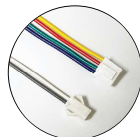• Pulse-with modulation (PWM)

Dimmable

Wire Type

* Default Wire Length : 4' (1.2m)

| DC Connector | Pig Tail | JST SM Connector |

Mounting Options
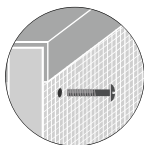
| Direct Screw | Z Clip | Mirror Clip |

Specifications

Physical	
Max Size	15/64" (6mm) : 60" x 120" 5/16" (8mm), 1/2" (12mm) : 48" x 96"
Min Size	2" (50mm) x 2" (50mm)
Overall Thickness	15/64" (6mm), 5/16" (8mm), 1/2" (12mm)
Operating Temperature	-30°C (-22°F) ~ +40°C (+104°F)
Environment	Dry location only (Indoor)
Mounting Options	Direct Screw / Z Clip / Mirror Clip
Weight	15/64" (6mm) : 1.5lb/ft² (7.3kg/m²) 5/16" (8mm) : 2lb/ft² (9.8kg/m²) 1/2" (12mm) : 3lb/ft² (14.6kg/m²)
Warranty	3 Years
Electrical	
Input Voltage	12V / 24V DC Class 2
Power Consumption	3.0 w/ft / 4.0 w/ft
Brightness	2,000 Lux to 10,000 Lux
Color Temperature	6mm : White LED, R or G or B 8mm : White LED, R or G or B, RGB, Tunable, Digital LED 12mm : White LED, RGBW, Digital LED (DMX)
Available LED Channels	1ch / 2ch / 4ch
CRI	90+