

LUXFIT™ OUTDOOR

LIGHT PANEL

Window & Curtain Applications



DESCRIPTION

Slim in profile and providing bright and even illumination, LEDCONN'S LUXFIT™ LED Outdoor Panels are a revolutionary edge-lit light panel technology designed for customized outdoor lighting applications. Now high rise buildings windows can feature decorative accents with LUXFIT Outdoor. LUXFIT Outdoor's unique laser-etched dot-pattern technology provides even illumination across the panel surface. And its unassumingly slim profile allows for face material to be positioned on top with little to no gap. Compact, narrow, or large outdoor areas - LUXFIT Outdoor fits.

PRODUCT FEATURES

- UV-Safe outdoor IP67 backlight
- Slim design featuring 8mm PMMA acrylic
- Customizable dimensions & color temperatures
- Features LEDCONN's Laser Dot-Pattern Technology for even, bright backlit illumination
- Provided with treated aluminum alloy for outdoor use
- Easy on-site installation
- 2-, 3- & 4- sided framing options
- Window & Curtain applications available

APPLICATIONS

- Outdoor high-rise buildings
- Aesthetic large-area illumination
- Large glass buildings
- Indoor/outdoor decorative lighting
- Luxury hospitality
- Entertainment lighting (i.e. KTV)

CERTIFICATIONS



E477011



100% QC

LIMITED
WARRANTY

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

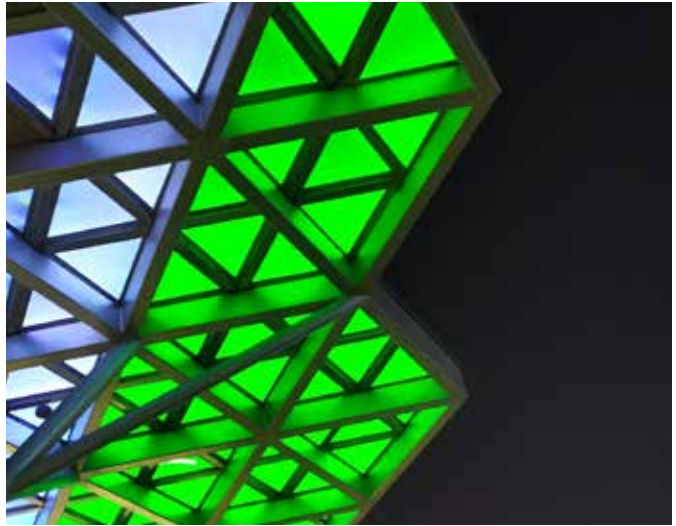
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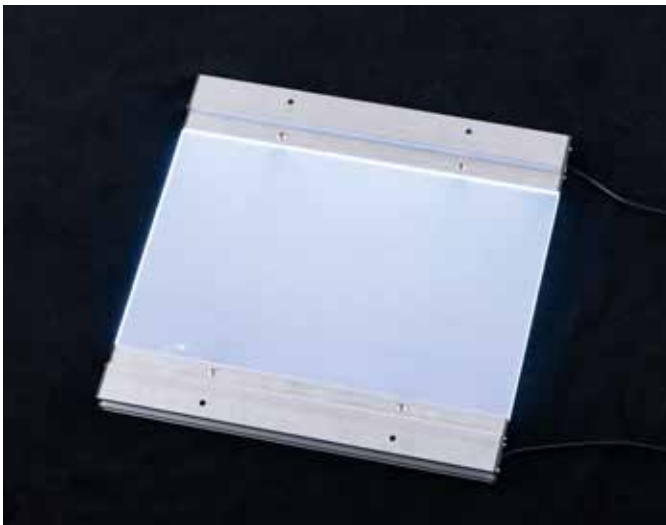
LUXFIT OUTDOOR WINDOW APPLICATION: 3- & 4-SIDED FRAMING

- 3- & 4-sided full frame windows
- Ideal for transparent windows by day, illumination by night
- Rectangular, square and triangular shapes available



LUXFIT OUTDOOR CURTAIN APPLICATION: 2-SIDED FRAMING

- 2-sided framing options
- Ideal for creating a spliced illuminated curtain effect



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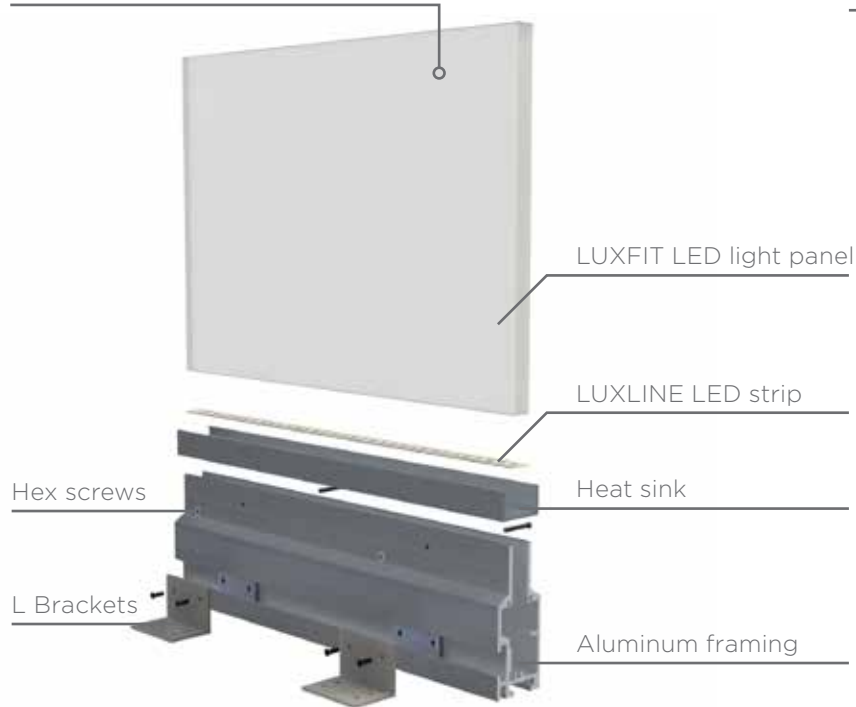
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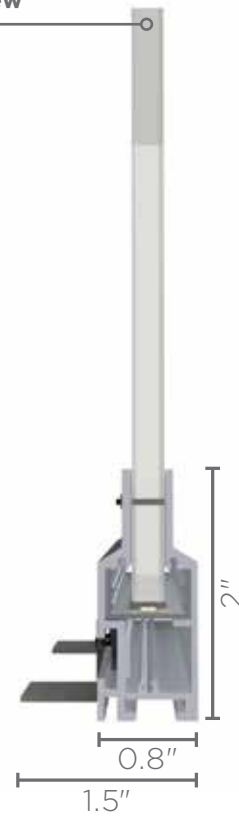
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PRODUCT ASSEMBLY

Exploded View



Side View



Assembled View



CONSTRUCTION & BASE MATERIAL

- **Light Guide Panel** PMMA Optical Grade Acrylic
- **Heat Sink** Aluminum, provided pre-installed
- **Hex Screws** Stainless steel
- **L Brackets** Aluminum

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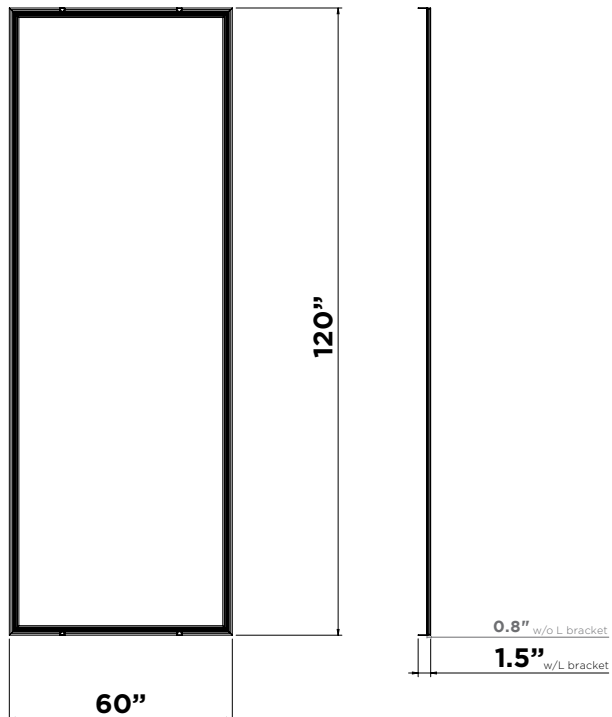
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DIMENSIONS

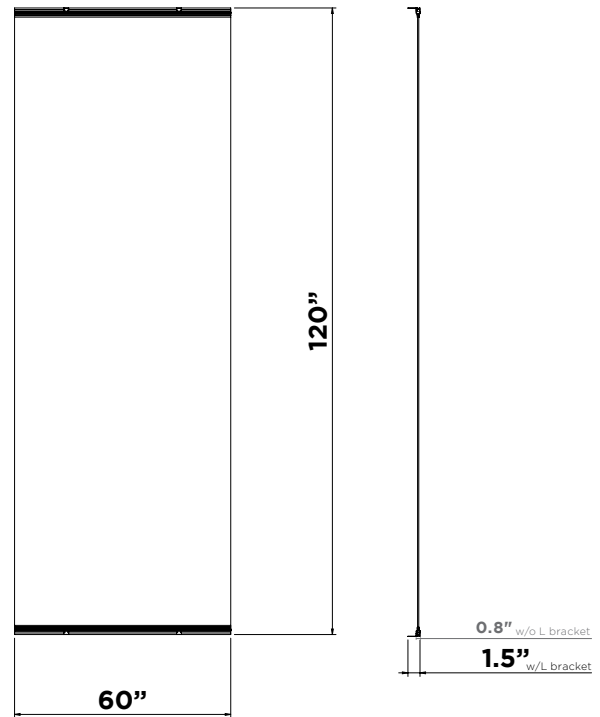
Max. Panel Size	60" x 120" 1524mm x 3048mm
Min. Panel Size	any size less than 60" x 120" any size less than 1524mm x 3048mm
Acrylic Thickness	5/16" 8mm
Overall Thickness	<i>with L bracket</i> 1.5" 38.10mm <i>without L bracket</i> 0.8" 20.32mm

DIMENSIONAL DRAWINGS

WINDOW | 4-Sided Framing



CURTAIN | 2-Sided Framing



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OPTICAL TECHNOLOGY

Optically Refined Dot Pattern Technology LEDCONN's optically-refined Dot Pattern Technology optimizes the quality of light, producing high brightness and evenness. Its higher yield rate compared to V-cutting technology provides more cost-effective solutions. To distribute the light uniformly, the dots are smaller and widely spread when they are close to the LEDs. Farther away from LEDs, the dots become larger and narrowly spaced.

Faster, Cost-Effective Turnaround With three decades of experience serving the LCD industry, our engineering team has built the optical design software with database composed of more than 20,000 combination of dimensions and patterns. We can quickly optimize the reflective pattern by filtering parameters in the database, at the same time, reducing development time for custom projects.



Every dot pattern is unique to its project.

PHOTOMETRICS

- **Lamp Life** 50,000+ hours
- **Standard Color Temperatures** 3000K, 4100K, 5300K, 6500K, RGB
- **Custom Color Temperatures** Available upon request

	CCT	EFFICACY	BEAM ANGLE	LUMINOUS FLUX	POWER	CRI
	3000K Warm White	98.6 lm/W	120°	434 lm/ft 1425 lm/m	4.5 W/ft 14.76 W/m	80+ & 90+ Available
	4100K Neutral White	102.7 lm/W	120°	452 lm/ft 1450 lm/m	4.5 W/ft 14.76 W/m	80+ & 90+ Available
	5300K Daylight	106.8 lm/W	120°	470 lm/ft 1540 lm/m	4.5 W/ft 14.76 W/m	80+ & 90+ Available
	6500K Cool White	111.1 lm/W	120°	489 lm/ft 1600 lm/m	4.5 W/ft 14.76 W/m	80+ & 90+ Available
	RGB Combined	36 lm/W	120°	110.67 lm/ft 363 lm/m	3.07 W/ft 10.08 W/m	N/A
	Red 625nm	35 lm/W	120°	35.67 lm/ft 117 lm/m	1.02 W/ft 3.36 W/m	N/A
	Green 525nm	68 lm/W	120°	69.51 lm/ft 228 lm/m	1.02 W/ft 3.36 W/m	N/A
	Blue 465nm	13.5 lm/W	120°	13.72 lm/ft 45 lm/m	1.02 W/ft 3.36 W/m	N/A

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DIMMING OPTIONS

Fully dimmable to <10% with dimmable power supply.
Dimming options include:

- Pulse-width modulation dimming (PWM)
- 0-10V dimming
- Magnetic low voltage (MLV)
- DMX/DALI
- Remote Control Plugin
- Inline Plugin

POWER SUPPLY

- **Input Voltage** 24VDC available
- **Power Consumption** Varies depending on panel size and strip configuration
- **Please Use with Class 2 Power Only** Inquire for compatible supplies
- **Connector Types** Hardwire and custom connectors
- **Wiring in Parallel** Wire multiple LUXFIT panels to a single power supply up to the maximum output capacity of the selected power supply

Current  Compatible



- Energy Savings
- Versatile
- Scalable
- Outdoor Rated
- Wired, Wireless or Hybrid

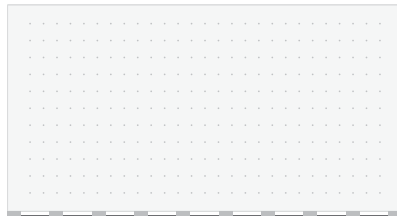
Contact us to inquire about other compatible controls

LED STRIP POSITIONING

- LUXLINE LED light strips illuminate LUXFIT Outdoor LED light panels
- Strips are configurable on all sides of the panel
- Most applications feature 1-, 2-, and 4- sided placement of strips
- LUXLINE LED strips may be provided on the outside edges of the panel or embedded

1-SIDED LED STRIP ILLUMINATION

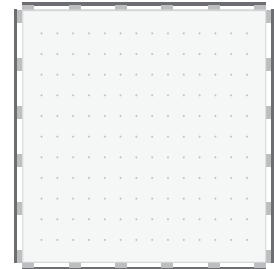
Width **LESS** than
12" (304.8mm)



Max Length 120" (3048mm)

4-SIDED LED STRIP ILLUMINATION

Based on your
application, 4 side
illumination may
be recommended



2-SIDED LED STRIP ILLUMINATION

Width **GREATER** than
12" (304.8mm)



Max Length 120" (3048mm)

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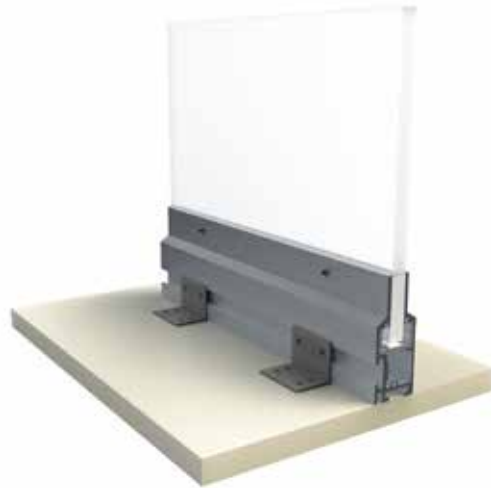
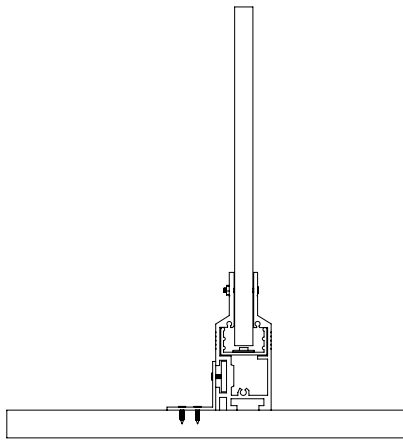
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MOUNTING

- **Easy On-Site Installation** Mounts easily with provided L-shaped aluminum brackets and hexagonal stainless screw locking fasteners. See images below for details.
- **Mounting Types** Perpendicular • Parallel • Hanging • Hole Mount
- **Environment** IP67 Outdoor Rated
- **Operating Temperature** -22°F min to +122°F max (-30°C min to +50°C max)
- **Wire Placement** Wires may be configured to exit from the edge or behind the fixture

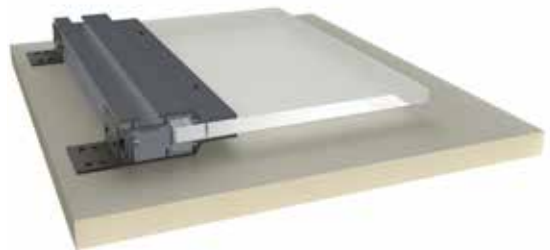
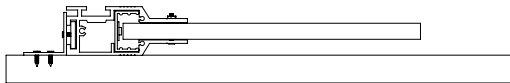
Perpendicular Installation (Vertical Mounting)

L brackets are screwed to the side of the aluminum framing, positioned perpendicular to the installation substrate.



Parallel Installation (Horizontal Mounting)

L brackets are screwed to the base of the aluminum framing, positioned parallel to the substrate.



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Hanging Installation (Suspended Mounting)

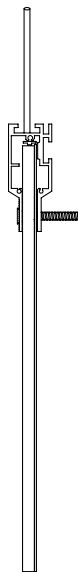
Aviation cables can be slid through and secured to the LUXFIT Outdoor frame.

The opposite end of the aviation cables should be secured to a structural support on the ceiling.



Hole Mount Installation (Wall Mounting)

Pre-drilled holes along the perimeter of the LUXFIT Outdoor frame can be populated to be secured to wall or ceiling with screws.



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HOW TO ORDER

EXAMPLE

XO1620ZNHSH	LUXFIT™ OUTDOOR XO	16" X 20" 1620	3000K Z	NON-DIFFUSED N	HARDWIRE H	SILVER S	HANGING H
	PRODUCT LINE/PROFILE	DIMENSIONS WIDTH X LENGTH	COLOR TEMPERATURE (CCT)	DIFFUSER	POWER CONNECTION TYPE	FRAME COLOR	MOUNTING TYPE
BUILD IT!							

OMIT IF N/A

PRODUCT LINE

XO LUXFIT™ OUTDOOR

DIMENSIONS (IN INCHES)

LL LENGTH (VARIES)

COLOR TEMPERATURE (CCT)

W 6500K

V 5300K

Y 4100K

Z 3000K

C CUSTOM COLOR

DIFFUSER

N NON-DIFFUSED

POWER CONNECTION TYPE

H HARDWIRE

C SPECIAL

FRAME COLOR

S SILVER

K BLACK

C CUSTOM FRAME COLOR

MOUNTING TYPE*

H HANGING (SUSPENDED)

*OMIT FOR NON-SUSPENDED

MOUNTING TYPES

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SAFETY DISCLOSURES

- **Electric Code Compliance** Please make sure to install LUXFIT™ in accordance with standard national and local electrical codes
- **Actual Product Color May Vary** Please note that the product color as seen in this specification sheet, photography, and related marketing material for this product may vary slightly from your actual customized product due to photographic and design limitations.
- **Specifications are Subject to Change Without Notice** While we try to make every effort to inform customers of updates to our products, we reserve the right to make modifications and improvements to our fixture specifications and designs without advance notice.
- **Manufacturer is Not Liable for Matching Fixtures to Pre-Existing Fixture Installations** We cannot guarantee matching the CCT appearance, product design, or lumen output for pre-installed fixtures or reorders.
- **Test Before Installing** Always make sure to test out your light panels before installing them. We put our products through a rigorous testing and quality control process to ensure they operate at the highest quality. Even so, we advise that they are inspected prior to permanent installation and tested for proper illumination.
- **Remove Protective Film** Please remove the protective film prior to using the LUXFIT™ light panel for best performance. To remove any fingerprints, dust, debris, or extraneous substances, use a soft, non-abrasive cloth, applying only minimal pressure to the light panel. Mild soapy water or rubbing alcohol may also be used with the non-abrasive cloth to remove stubborn fingerprints and stains.
- **Class 2 Compliance** When cutting your LUXFIT Outdoor LED Light Panels, keep in mind that Class 2 compliance restricts the max load of the product to 96W.
- **Do Not Connect to AC Power** LUXFIT™ Outdoor panels are not designed for use with AC power. Any direct connection to AC power will damage the LEDs.
- **Managing Power & Voltage Drop** Use of a multi-strand, high strand count wiring is preferred to minimize voltage drop and optimize power distribution for all low voltage DC connections. To manage power distribution and minimize voltage drop, please use the correct recommended wire size and length with the luminaire.
- **Handle with Care.** Light panels are made of acrylic, which makes it very easy for them to become damaged if handled negligently. Always lay the light panel flat against its broadest surface on a surface that will not scratch or damage the acrylic. Exercise caution when handling the panel wiring, which can also be damaged easily. Avoid bending the panel, which should be treated with the same care as a pane of glass. Large light panels will tend to bow, which can damage the LEDs. Exercise caution and provide necessary support for larger panels to prevent bowing.
- **Avoid Using Adhesives** Direct bonding of adhesives to the illuminated surface, including single and double-sided adhesives, is not recommended and may disfigure the light panel appearance.
- **Installation Environment** Please keep the installation location and environment in mind when installing the acrylic light panel. Acrylic material will expand and contract in different temperatures and environments, which can create difficulties in mounting and installation. Light panel failure may occur if environmental conditions are not factored into the installation. Please make sure all variables caused by the installation environment have been accounted for prior to installation.

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