

LUXFIT™

CLASSIC

Dry & Damp Location Series

ULTRA SLIM & CUSTOMIZABLE

Slim in profile and providing bright and even illumination, LEDCONN'S frameless **LUXFIT™ Classic LED Panels** are a revolutionary edge-lit light panel technology designed for highly customized and embedded lighting applications, including accent lighting. Perfect for illuminating compact and narrow spaces, LUXFIT™ maintains an unassuming slim profile, measuring only 1/4"-3/8" thick. LUXFIT™ panels utilize laser-etched dot-pattern technology, allowing face material to be positioned on top with little to no gap while maintaining even illumination.

KEY FEATURES



STRONG COLOR RENDERING



OUTSTANDING BRIGHTNESS



FRAMELESS DESIGN



EVEN LIGHTING NO DARK SPOTS



CUSTOM & IRREGULAR SHAPES



MULTI-PANEL ILLUMINATION BY TILING



DAMP LOCATION AVAILABLE



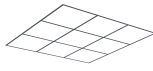
SLIM & THIN DESIGN



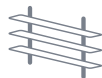
CUSTOM SIZES



CUSTOM COLOR TEMPS



ILLUMINATED CEILINGS & WALLS



ILLUMINATED SHELVES & FIXTURES



Copyright © Advent

Backlit wall illumination featuring LUXFIT panels.

ASSURED QUALITY



E477011



100% QC



LIMITED WARRANTY



E341676

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

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MECHANICAL

	STANDARD	SPECIAL ORDER OPTIONS
Max. Panel Size	60" x 120" 1524mm x 3048mm	Same as standard
Min. Panel Size	any size less than 60" x 120" any size less than 1524mm x 3048mm	Same as standard
Acrylic Thickness for Panel Widths < 2.5ft (750mm) for Panel Widths ≥ 2.5ft (750mm)	$\frac{5}{32}$ " 4mm $\frac{5}{64}$ " 6mm	$\frac{5}{16}$ " 8mm
Overall Thickness for Panel Widths < 2.5ft (750mm) for Panel Widths ≥ 2.5ft (750mm)	$\frac{1}{4}$ " 6.5mm $\frac{3}{8}$ " 9.5mm	Varies
Weight	1.5 lbs per sq. ft. 7.32kg per sq. m.	Varies
Operating Temperature	-22°F to 122°F -30°C to 50°C	Same as standard

CONSTRUCTION & BASE MATERIAL

Light Guide Panel Material PMMA Optical Grade Acrylic panel

Reflective Film Material PET

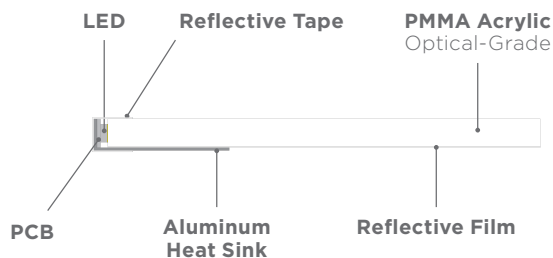
Heat Sink Material Aluminum

Construction LUXFIT™ LED Panels are constructed of a cast PMMA Optical Grade Acrylic panel with a light guide pattern etched uniquely to the acrylic surface. LEDs populate the edges of the acrylic panel. A heat sink and opaque white reflector backer is also provided.

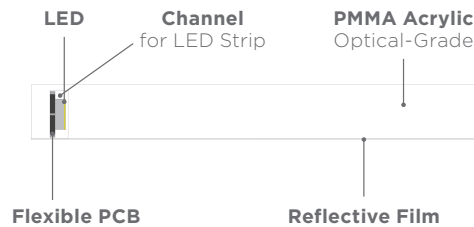
COMPLIANCE & REGULATORY APPROVAL

UL E477011 • cUL E477011 • LUXFIT™ LED Light Panels are certified as UL listed low voltage luminaires and UL listed sign component. • RoHS • CE • Lead Free • Warranty 3 years

PANEL PROFILE



EMBEDDED PANEL PROFILE



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PHYSICAL CHARACTERISTICS

General Description LUXFIT™ Classic LED panel luminaires manufactured and provided to the customer by LEDCONN are described as flat LED panels offered in 3000K, 4100K, 5300K, and 6500K with 80+ CRI. LUXFIT™ Classic luminaires are offered with a wide array of dimming and control accessories.

Overall Thickness Light Panel thickness is determined by panel shape, size, and color temperature. The overall thickness of standard LUXFIT™ panels shall never exceed 1/4" (6.5mm) for standard panel widths less than 2.5ft (750mm). For standard panels greater than or equal to 2.5 ft (750mm), the overall thickness shall never exceed 3/8" (9.5mm). The overall thickness of panels featuring special order options will vary depending on the application.

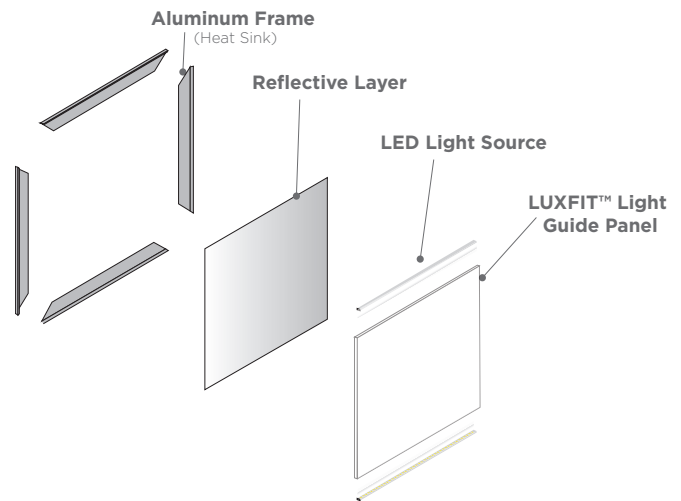
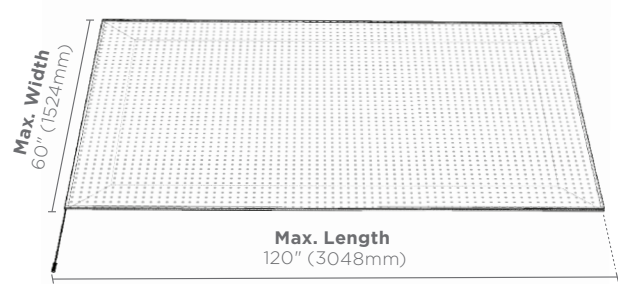
Max. Size The size of any individual LUXFIT™ Classic LED light panels may not exceed 60" x 120" (1524mm x 3048mm). Multiple LUXFIT™ Classic LED light panels may be tiled together for grand format illumination applications larger than the product's individual max. size through a technique called Multi-Panel Tiling.

Min. Size LUXFIT™ Classic LED light panels may be customized for very small applications for any size less than the max. size of 60" x 120" (1524mm x 3048mm).

LUXFIT™ Light Guide Panel & LED Light Source Each acrylic Light Guide Panel shall be powered by 1, 2, or 4 LED light strips placed on the edge or perimeter of the light panel. Light Guide Panels shall be etched with a unique dot pattern designed to allow light to travel evenly.

Reflective Film LUXFIT™ LED panels shall require and be provided with a reflective film designed to optimize brightness.

Aluminum Frame Heat Sink LUXFIT™ LED panels may require and be provided with an integrated heat sink added to the back of the LED light panel, which helps dissipate the build up of thermal energy and prolongs the product lifespan. No additional external cooling is required.



CUSTOMIZATION

Custom Sizes The size of LUXFIT™ LED panels luminaires may be customized for the design or installation being specified. The maximum size allowed for a panel is 60"x120" (1524mm x 3048mm).

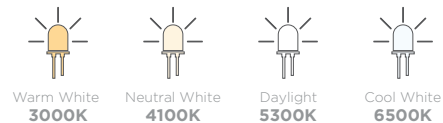
Custom Shapes LUXFIT™ LED panels can be cut into any desired shape including circles, ovals, and uneven shapes. Please consult with a LEDCONN project specialist for more details.

Custom Color Temperatures LUXFIT™ LED panels shall be available for applications requiring color temperatures ranging from 3000K-6500K. Standard CCTs include 3000K, 4100K, 5300K, and 6500K. (Actual Kelvin temperatures may vary ±200K based on environmental conditions and application materials, including the light panel itself and use of diffusion materials.) Custom color temperatures beyond the standard range of CCTs may also be available upon request.

CUSTOM SHAPES & SIZES



STANDARD COLOR TEMPERATURES (CCT)



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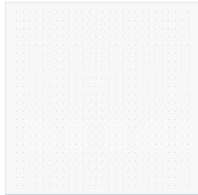
LUXFIT™

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ELECTRICAL

OPTICAL TECHNOLOGY



Introducing 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.

PHOTOMETRICS

Lamp Life Standard lamp life of a luminaire typically exceeds 50,000+ hours, which roughly equates to nearly 6 years of constant usage 24 hours a day, 7 days a week, without ever shutting off. LUXFIT™ light panels require little to no maintenance once installed.

Color Rendering Index LUXFIT™ light panels shall feature a strong color rendering of 80+; 90+ CRI is available upon request.

Standard Color Temperatures LUXFIT™ light panels shall be offered in 3000K · 4100K · 5300K · 6500K as standard color temperatures.

Custom Color Temperatures Custom color temperatures for custom light panels beyond standard color temperatures will be made available upon request.

DIMMING

LUXFIT™ LED light panels are fully dimmable to <10% when utilized with a dimmable power supply. Dimming options include: Pulse-width modulation dimming (PWM) · 0-10V dimming · DMX/DALI · Magnetic low voltage (MLV) · Electronic low voltage (ELV) · Remote Control Plugin · Inline Plugin.

POWER SUPPLY

Input Voltage This luminaire shall be equipped and powered by an external 12VDC or 24VDC constant voltage power supply. A variety of dimming controls compatible with the power supply shall be offered for customizable installations.

Power Consumption Shall vary depending on panel size and selected strip configuration. Larger light panels shall require higher power LEDs to maintain evenness in illumination.

Please Use Only with Class 2 Power Supply LEDCONN offers a full range of Class 2 power supplies that are compatible with LUXFIT.

Connector Type The default connector type for this luminaire shall be DC barrel jack. Light panel luminaires may also be requested with hardwire or Molex® connectors.

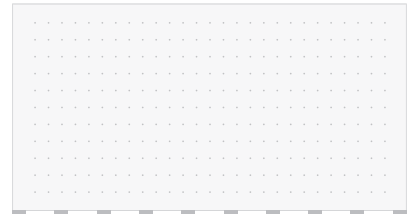
Wiring in Parallel Multiple LUXFIT light panels may share a single power supply when wired in parallel to the power supply. The number of LUXFIT light panels connected to one power supply is limited by the maximum output capacity of the power supply.

LED STRIP POSITIONING

LED strips utilized to power LUXFIT™ panels are configurable on all sides of the panel, including long edges, short edges, inside circumference, outside circumference, and custom configurations. LEDs shall be selected for 1-sided, 2-sided, or 4-sided placement with standard or high power LEDs, depending on the application requirements. LED strips may be placed outside of the panel or embedded.

1-SIDED LED STRIP ILLUMINATION

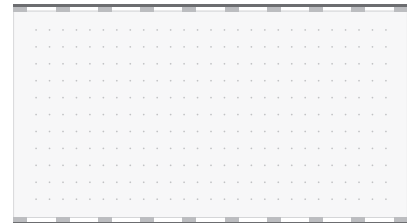
Width **LESS** than 12" (304.8mm)



Max Length 120" (3048mm)

2-SIDED LED STRIP ILLUMINATION

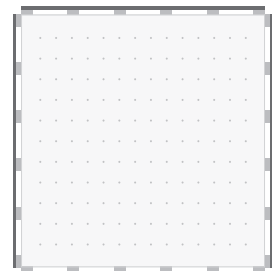
Width **GREATER** than 12" (304.8mm)



Max Length 120" (3048mm)

4-SIDED LED STRIP ILLUMINATION

Based on your application, 4 side illumination may be recommended



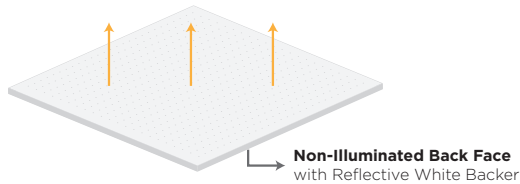
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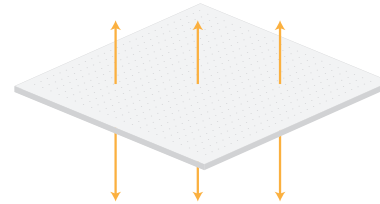
CLASSIC

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SINGLE FACE ILLUMINATION



DOUBLE FACE ILLUMINATION



Illumination on Both Sides
Without Reflective White Backer
or
2 Panels Back to Back for Better Brightness

WIRE EXITS

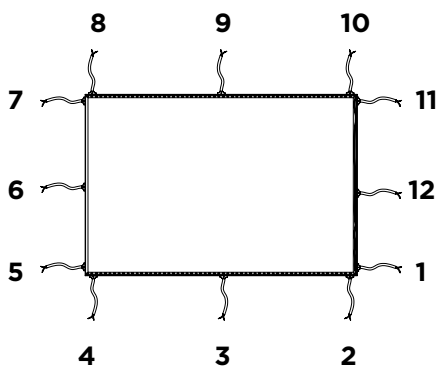
Wire Exit Placement The placement of the primary wire exit shall include corner, side, and rear placement. Wire exit shall be confirmed during the design phase to ensure proper strain relief and maintain product installation integrity. LEDCONN recommends wire exits at any of the 12 locations indicated on the Standard Wire Exit Guide. Outside of recommended standard wire exit locations, custom placements for wire exits may also be accommodated. Any wire exit placements that are requested along a panel's edge with an integrated LED strip may cause dark spots.

Multiple Wire Exits LUXFIT™ panels shall also accommodate multiple wire exits if required for the application. Please consult a project coordinator for more consultation about unique wire exit placements.

Cord Length Standard cord lengths shall be 12" (304.8mm), 36" (914.4mm) & 72" (1828.8mm). Wire length may be customized to any desired length for the unique application requirements.

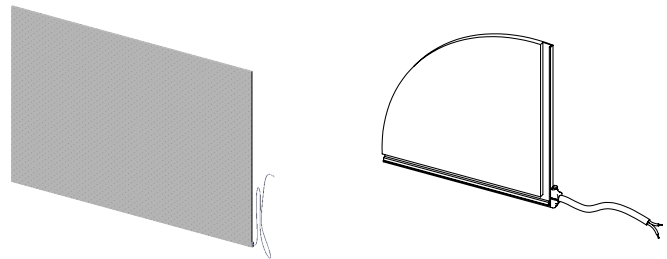
STANDARD WIRE EXIT GUIDE

Choose where you would like to place the wire exit.
Wire exits 1-12 are the most commonly requested positions.

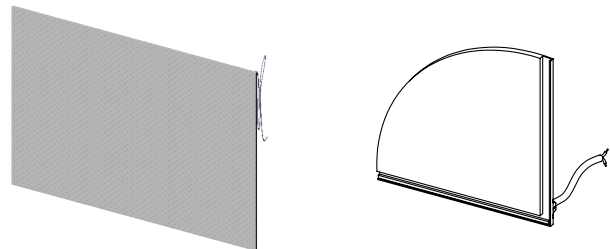


SIDE (EDGE) WIRE EXIT

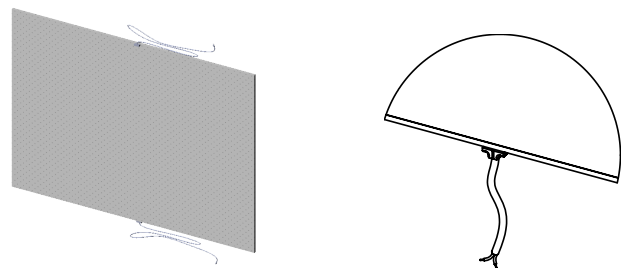
Max. stopper strain relief: 12lbs.



BACK (REAR) WIRE EXIT



CENTER EDGE WIRE EXIT



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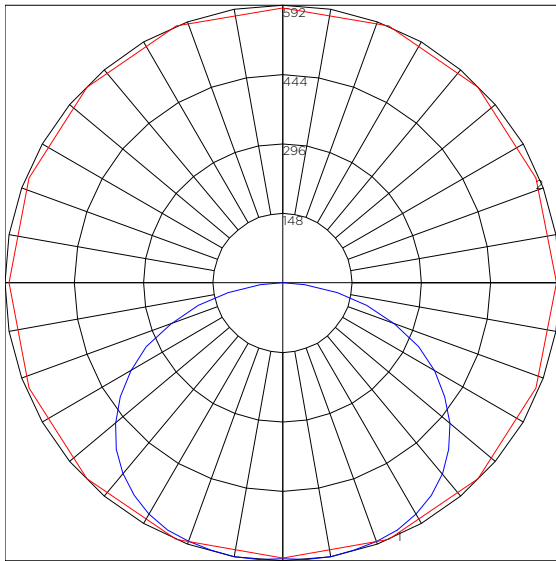
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PHOTOMETRICS

LUXFIT™ CLASSIC STANDARD 12V / 6500K / 24" X 36"



Maximum Candela = 591.84. Located At Horizontal Angle = 67.5, Vertical Angle = 10
 # 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	221.01	10.70
0-30	482.23	23.30
0-40	816.10	39.40
0-60	1542.67	74.40
0-80	2019.36	97.40
0-90	2073.33	100.00
10-90	2017.25	97.30
20-40	595.10	28.70
20-50	964.36	46.50
40-70	1021.53	49.30
60-80	476.69	23.00
70-80	181.72	8.80
80-90	53.98	2.60
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	2073.33	100.00

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	587.29	587.29	587.29	587.29	587.29
5	586.22	585.58	588.76	591.02	584.55
10	583.90	584.52	588.96	591.84	585.80
15	577.35	579.28	580.67	589.22	585.26
20	566.31	569.05	575.27	585.95	583.17
25	551.26	554.49	563.51	580.22	575.48
30	533.26	539.59	552.71	569.21	564.79
35	510.27	517.27	534.16	552.64	550.88
40	483.58	490.81	508.99	530.17	525.86
45	452.21	460.27	480.06	501.38	498.85
50	413.17	422.45	443.96	465.42	465.84
55	370.63	380.37	400.02	422.78	425.59
60	324.07	332.05	352.24	374.10	377.76
65	273.76	282.38	301.33	320.78	323.91
70	213.52	219.49	238.37	254.17	258.38
75	152.06	157.23	171.42	186.05	191.60
80	94.32	97.94	108.17	118.15	123.84
85	41.36	42.14	45.24	47.32	49.12
90	0.00	0.00	0.00	0.00	0.00

Total Luminaire Efficiency = N.A.%

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82	
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	76	73	69	67	
3	88	77	68	61	86	75	67	61	72	65	60	69	64	59	67	62	58	55	
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46	
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40	
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34	
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30	
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	28	27	
9	54	40	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24	
10	51	37	29	24	49	37	29	23	36	28	23	35	28	23	34	28	23	21	

ADDITIONAL IES PHOTOMETRIC DATA MAY BE FOUND ONLINE WWW.LEDCONN.COM.

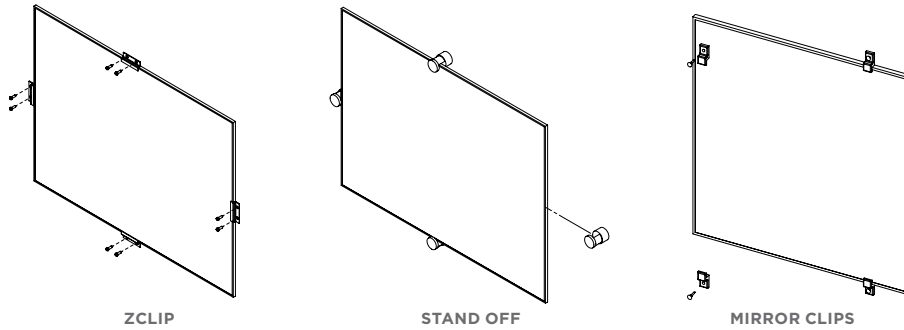
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INSTALLATION



Environment LUXFIT™ LED light panels shall be used for indoor and dry location applications only. For environments requiring damp location treatment, optional IP65 waterproof treatment is available.

IP65 Outdoor Rating LUXFIT™ LED panels requested with IP65 damp location treatment shall be dust tight and protect against gentle water contact or humidity. Panels requested for indoor/dry location only are IP22 safe by default. For custom shapes, please confirm with LEDCONN if damp location is feasible for your application.

Operating Temperature LUXFIT™ LED light panels shall operate in a temperature range of -22°F min to +122°F max (-30°C min to +50°C max).

Heat Sink LUXFIT™ shall be assembled and distributed with heat sink pre-installed.

Predrilled Holes & Cutouts During production, LUXFIT™ light panels may be custom ordered with predrilled holes or cut outs.

Drilling On-Site LUXFIT™ light panels may be drilled on-site but doing so may void the warranty.

Deflection As LUXFIT™ LED light panels increase in size, they tend to bow more easily. To prevent bowing, additional reinforcements shall be recommended to facilitate handling the needs of larger applications.

Mounting Mounting options for LUXFIT™ light panels shall include Z clips, stand offs, and mirror clips.

Full Solutions LED Light Boxes For applications requiring a full solution LED light box, we offer SOA state-of-the art snap frames and Fabric Light Boxes. For more information, please reach out to a Sales Rep or visit us online

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.

Do Not Connect to AC Power LUXFIT™ 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.

Storage Please install panels in a clean, dry area where it is difficult for moisture or dust to enter. Maintain an ambient temperature equivalent to room temperature with a mild humidity level for longevity. With exception to damp treated light panels, do not allow the panels to become moist or install in environments prone to moisture to prevent voiding the warranty.

On-Site Drilling and Cutting Although on-site drilling is feasible, doing so may disrupt the evenness of the lighting or create large dark spots depending on the application and nature of the drilled hole or cut out. LEDCONN does not recommend on-site modifications due to compromised lighting performance. Each light panel is fabricated with a unique dot pattern which allows light to travel evenly across that particular light panel. Requesting holes and cut outs during the pre-production specification process will yield far better results than on-site drilling or cutting.

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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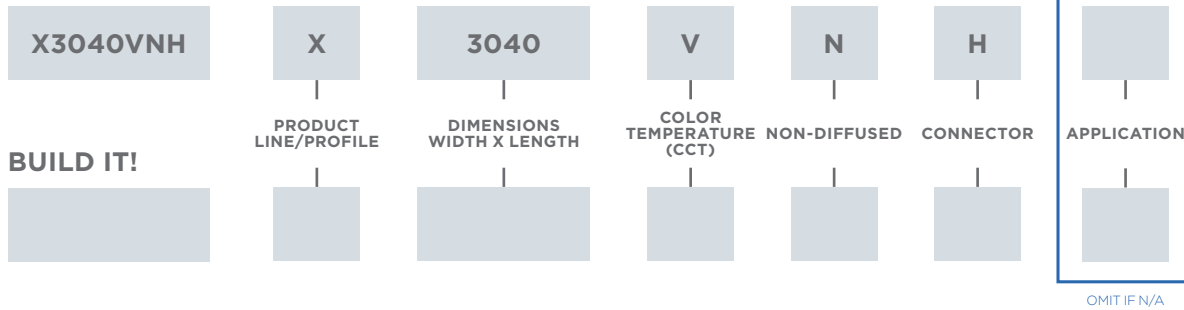
APPLICATIONS

- Luminous Ceilings & Walls
- Luminous Shelving
- Backlighting
- Architectural Lighting (Interior & Exterior Design)
- Hospitality Lighting
- Cove Lighting
- Accent Lighting
- Task Lighting
- Illuminated Custom Retail Fixtures & Displays
- Illuminated Signage & Branding
- Compact, Space-Sensitive Applications
- ...And Many More!



LUXFIT™ LIGHT PANEL PART NUMBER

EXAMPLE



PRODUCT LINE

- X** LUXFIT™ CLASSIC
- XG** LUXFIT™ GRAPH
- XC** LUXFIT™ SHAPE
- XR** LUXFIT™ ROUND

DIMENSIONS (IN INCHES)

- LLWW** LENGTH X WIDTH (VARIES)

COLOR TEMPERATURE (CCT)

- W** 6500K
- V** 5300K
- Y** 4100K
- Z** 3000K
- T** TRICOLOR (RGB)
- C** CUSTOM CCT

NON-DIFFUSED

- N** NON-DIFFUSED

CONNECTOR

- B** DC BARREL JACK
- M** MOLEX®
- H** HARDWIRE
- P** 4-PIN CONNECTOR
- C** SPECIAL

APPLICATION TYPE (OPTIONAL)

- O** DAMP LOCATION
- R** CRI90
- D** DOUBLE-SIDED
- U** U-CHANNEL

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