LUXLINE™

2016/182/5 Indoor Series

HIGH BRIGHTNESS & FLEXIBILITY

To brilliantly illuminate tight, compact spaces, we offer our slim 5mm **LUXLINE™ LED Strip 2016/182/5**. This light strip solution features 182 LEDs with high brightness, an outstanding color rendering index of 90+ for uncompromised color quality, and impeccable evenness. Featuring a slim width and compact profile, this LED strip may be cut and curved to snugly fit highly customized and narrow applications without sacrificing performance. Great for applications requiring minimal spacing between the LED and diffuser material.

Slim. Bright. Flexible.

KEY FEATURES

CRI 90+ OPTIMAL COLOR RENDERING	OUTSTANDING BRIGHTNESS	LONG LED LIFESPAN	**120°** WIDE BEAM ANGLE
FLEX & CURVE	**5mm** SLIM WIDTH (5mm)	CUTTABLE	80% ENERGY EFFICIENT
CUSTOM LENGTHS	CUSTOM COLOR TEMPS	**DC** CONSTANT VOLTAGE	**ONE BIN ONLY** CONSISTENT LIGHT COLOR

COMPATIBLE LUXLINEAR TUBES

Normal *1715*
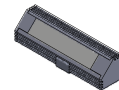
Corner *1919*
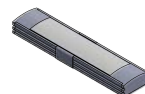
Low *1707*

Round *2019*

Slim *1008*

ASSURED QUALITY

c**UL**us LISTED — E477011

Q Quality approved — 100% QC

5 YEAR — LIMITED WARRANTY

CE

✓RoHS

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

PSS.19.01.R0

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MECHANICAL

PARAMETERS
LED Type EPISTAR 2016 SMD LED
LED Count 49 LEDs/ft (182 LEDs/m)
LED Strip Dimensions 0.20" (w) x 0.09" (h) [5mm (w) x 2.2mm (h)]
LED Pitch 0.21" (5.33mm)
LED Strip Width 0.20" (5mm)
LED Node Size 2016
Max. Run 8.2ft (2.5m)
Roll Length 16 ft $^3/_8$ in (5m)
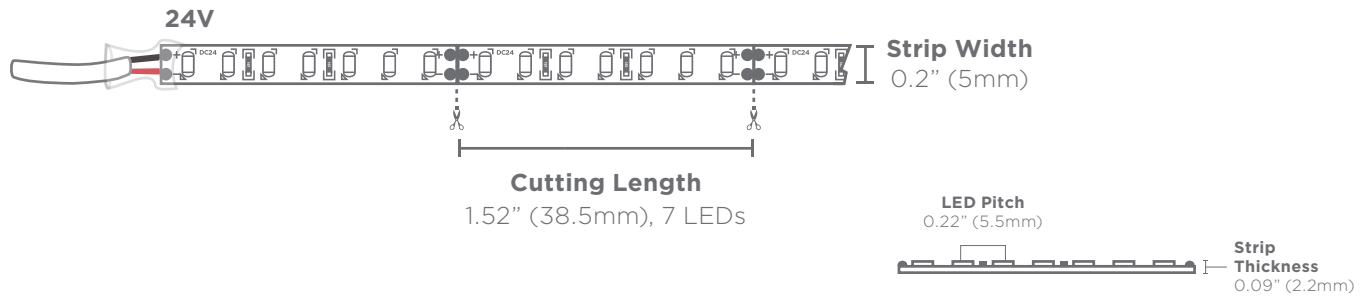
CONSTRUCTION & BASE MATERIAL
Substrate Material Flexible PET
Metal Material Rolled copper for PCB flexibility

COMPLIANCE & REGULATORY APPROVAL
UL E477011 · **cUL** E477011 · **RoHs** · **CE** · **Lead Free** · **Warranty** 5 years

LED STRIP CUTTING DIAGRAM

24V

Strip Width
0.2" (5mm)

Cutting Length
1.52" (38.5mm), 7 LEDs

LED Pitch
0.22" (5.5mm)

Strip Thickness
0.09" (2.2mm)

LED SIZE	OPERATING VOLTAGE	PITCH center-to-center	CUTTING LENGTH	WIDTH	# LEDS per cut section
2016	24V	0.21" 5.33mm	1.52" 38.5mm	0.20" 5mm	7

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ELECTRICAL

PHOTOMETRICS

Wide Beam Angle 120°
Lamp Life 54,000+ hours
Color Rendering Index 90+ across all color temperatures • 90+ available upon request
Standard Color Temperatures 3000K • 3250K • 4100K
Custom Color Temperatures Available upon request
Lumen Output[1] 241-256 lm/ft (790-840 lm/m)

DIMMING

· Pulse-width modulation dimming (PWM)
· 0-10V dimming
· Magnetic low voltage (MLV)

POWER SUPPLY

Input Voltage 24VDC constant voltage
Input Current[2] 0.12 A/ft (0.39 A/m)
Power Consumption 2.85 W/ft (9.36 W/m)
Wire Size 20 AWG 2 Wire
Please Use Only with Class 2 Power Supply
Connector Type Molex® • DC Barrel Jack • Hardwire

1 Lumen output is measured according to PMS-80 with a tolerance of ±1mm
2 Input current for a single LED: 20mA

SAFETY DISCLOSURES

Electric Code Compliance Please make sure to install LUXLINE in accordance with standard national and local electrical codes.
Outdoor Usage LUXLINE is suitable for indoor applications.
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.

PHOTOMETRIC DATA TABLE

	CCT	EFFICACY	BEAM ANGLE	LUMINOUS FLUX	POWER
	3000K Warm White	84.5 lm/W		241 lm/ft 790 lm/m	
	3250K Warm White	86.7 lm/W	120°	247 lm/ft 810 lm/m	2.85 W/ft 9.36 W/m
	4100K Neutral White	90 lm/W		256 lm/ft 840 lm/m	

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INSTALLATION

Field Cuttable LUXLINE 2016/182/5 is fully field cuttable and may be cut horizontally or vertically along the designated cutting lines. This 24VDC strip may be cut every 1.52″ (38.5mm) or every 7 LEDs. LUXLINE may be custom cut for many curved and space-sensitive projects.

Environment Indoor/dry location safe (IP22 rating). For best performance, avoid mounting LUXLINE LED strips in direct sunlight, near direct water contact, or by surfaces subject to puddling caused by rainfall or sprinkler sprays. Our craftsmen make every effort to customize and assemble your lighting solution. Even so, dust, debris, water, or moisture may still creep into the adjoining pieces over time.

Custom IP Ratings Available for Outdoor Use Outdoor/exterior application treatment for LUXLINE strips is available upon request. Available IP Ratings include IP65, IP67, and IP68. Please ask a Sales Rep for information.

Ambient Temperature -13˚F ~ +158˚F (-25˚C ~ +70˚C)
Operating Temperature -13˚F ~ +140˚F (-25˚C ~ +60˚C)
Mounting May be mounted with 3M adhesive. All LUXLINE strips feature 3M adhesive on the reverse side of the sheet.
Heat Sink Required for installation.
Avoiding Hotspots To prevent hotspots, we recommend installing LUXLINE at least 1-2″ away from the diffuser or illuminated surface.
Connectors LUXLINE may be connected with Molex® connectors, DC barrel jack, or hardwire.
Curved Applications LUXLINE may be flexed for curved or radius applications to best fit your retail or architectural environment.

APPLICATIONS

· Cove Lighting
· Indoor Accent Lighting
· Architectural Lighting
· Under Cabinet LED Lighting
· Showcase & Bookshelf Lighting
· Retail Merchandising Displays
· Illuminated POP Displays
· Path & Contour Marking
· Ultra slim LED light boxes & light panels
· Promotional Graphics
· Trade Shows & Exhibits
· Signage
· Ambient Lighting
· Ultra LED-slim light boxes & light panels
· ...And Many More!

ILLUMINATED POP DISPLAYS

LUXURY RETAIL MERCHANDISING
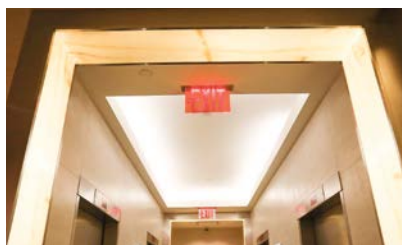
INDOOR ACCENT LIGHTING

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LUXLINE™ LIGHT STRIP PART NUMBER

OPTIONAL

EXAMPLE	LUXLINE™	84"	5300K	NO LENS	SET	2016
U84VN-2835R	**U**	**84**	**V**	**N**	**-x2set**	**-2016**
	PRODUCT LINE/PROFILE	LENGTH	COLOR TEMPERATURE (CCT)	LENS	SET	STRIP TYPE
BUILD IT!						

FOR REQUESTING MULTIPLE SETS IN A SERIES ONLY
OMIT IF N/A

PRODUCT LINE

U   LUXLINE™ LED LIGHT STRIP

LENGTH (IN INCHES)

LL   LENGTH

COLOR TEMPERATURE (CCT)

Y   4100K

Z   3000K

C   CUSTOM CCT

LENS

N   NO LENS

SET (OPTIONAL)

-x2set   SET (OMIT IF N/A)

-LED

-2016   2016/182/5 (5mm)

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