

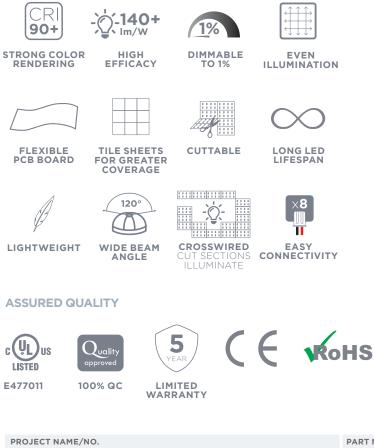
RE-ENGINEERED FOR HIGHER EFFICACY & CRI

Our Re-Engineered LUXFLEX[™] LED Flexible Sheets

provides higher efficacy, 90+ CRI, and smoother dimming reaching dimming levels as low as 1% or lower. These sheets are great for indoor backlighting projects where a lighting solution that is both thin and bendable may be needed to fit into soft, curving surfaces and spaces. Great for projects of many sizes, LUXFLEX may be tiled for grand format illumination or cut into pieces as small as 2" x 4" to meet the needs of your specific application. 3 Wattage packages available to accommodate various lighting power allowances.



KEY FEATURES



Enjoy smoother dimming as low as 1% or less with LUXFLEX Standard re-engineered

QUICK REFERENCE DATA TABLE FLIP TO PAGE 3 FOR COMPLETE TABLE

EET /PE	сст	LUMINOUS FLUX	POWER
SHEI ТҮР		lm/sq.ft.	W/sq.ft
α.	3000K	1298.5	
OWE I HEET	4100K	1350.5	0 5
HIGH POWER 19W SHEET	5300K	1404.5	9.5
T	6500K	1460.5	
R	3000K	817.5	
MEDIUM POWER 12W SHEET	4100K	866.5	6
DIUM 12W S	5300K	886.5	0
ΔE	6500K	921.5	
~	3000K	408.6	
OWEF HEET	4100K	426.0	7
LOW POWER 6W SHEET	5300K	443.4	3
	6500K	460.8	

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE



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MECHANICAL

PARAMETERS

LED Type EPISTAR 2835

LED Count 288 LEDs/sheet • 8 LEDs/cut 2" x 4" piece LED Sheet Dimensions 12" x 24" (609.6mm x 304.8mm). Full sheets and cut pieces may be tiled together for maximum backlighting coverage. LED Pitch 1" (25.5mm)

LED Sheet Thickness

- O Sheet only: 0.02" (0.51mm)
- O LED height: 0.04" (1mm)
- O Connector height: 0.31" (8mm)

LED Node Size 2835

Sheet Weight 6.4 oz (0.18 kg)

CONSTRUCTION & BASE MATERIAL

Substrate Material Flexible PET Flammability Rated UL 94 V-0 Metal Material Rolled copper for PCB flexibility

COMPLIANCE & REGULATORY APPROVAL

UL E477011 · cUL E477011 · RoHs · CE · Lead Free · Warranty 5 years

SHEET CUTTING DIAGRAM

										24	4" (609	9.6	mr	n)												
																					4"	(101	.6mr	n)			
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	12" (3	03.2mm 304.8mi 106.4mi	m)																								
		508mm 609.6m															1										

LED SIZE	OPERATING	PITCH	DIMENSIONS	CONNECTOR	# LEDS
	VOLTAGE	center-to-center	cut grid	HEIGHT	per cut section
2835	24V	1" (25.5mm)	2" x 4" x 0.02" (50.8mm x 101.6mm x 0.51mm)	0.31" (8mm)	8

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ELECTRICAL

SAFETY DISCLOSURES

Electric Code Compliance Please make sure to install LUXFLEX in accordance with standard national and local electrical codes. **Outdoor Usage** LUXFLEX is designed for indoor use only and is not suitable for outdoor applications.

Electrical Connectors LUXFLEX allows for up to 8 connections on a single uncut sheet.¹ Please pay close attention to the polarity (+/-) of the Molex[®] connectors to successfully illuminate LUXFLEX. 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.

1 Outdoor treatment available, contact customer success team for additional information.

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

PHOTOMETRICS

or reorders.

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 • 4100K • 5300K • 6500K **Custom Color Temperatures Available** Please inquire for more information

Lumen Output 408.6-2921.0 lumens per sheet based on the power type. Features high brightness with unmatched superior light consistency and quality.

PHOTOMETRIC DATA TABLES

SHEET			EFFICACY	LU	IMINOUS FL	UX		POWER	!
TYPE		ССТ	lm/W	lm/sq.ft.	lm/sheet	lm/2" x 4" section	W/sq.ft	W/sheet	W/2" x 4" section
an A		3000K Warm White	141	1298.5	2597	72.1			
HIGH POWER 19W SHEET		4100K Neutral White	147	1350.5	2701	75.0	- 9.5	19	0.53
GH P 9W S		5300K Daylight	153	1404.5	2809	78.0	9.5	19	0.55
		6500K Cool White	159	1460.5	2921	81.1	-		
VER	<u> </u>	3000K Warm White	141	817.5	1635	45.4	-		
POV		4100K Neutral White	147	866.5	1733	48.1	- 6	12	0.33
MEDIUM POWER 12W SHEET		5300K Daylight	153	886.5	1773	49.3	-	12	0.35
MED		6500K Cool White	159	921.5	1843	51.2			
R	<u> </u>	3000K Warm White	141	408.6	817	22.7			
NEE		4100K Neutral White	147	426.0	852	23.7	- 3	G	0.17
LOW POWER 6W SHEET	<u>-</u>	5300K Daylight	153	443.4	887	24.6	- s	6	0.17
		6500K Cool White	159	460.8	922	25.6			

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ELECTRICAL

DIMMING

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

POWER SUPPLY

Input Voltage 24VDC constant voltage Input Current 0.39A/ft² (High Power), 0.25A/ft² (Medium Power), 0.12A/ft² (Low Power) Power Consumption Power Consumption 6-19 W/sheet (3-9.5 W/sq ft) based on the power type. Wire Size 20 AWG 2 Wire Please Use Only with Class 2 Power Supply No. of Standard Connectors 8 Connector Type Molex[®]

Current Compatible



Energy Savings
Versatile
Scalable
Outdoor Rated
Wired, Wireless or Hybrid

Contact us to inquire about other compatible controls

DMX DECODER + NICOLAUDIE ESA

BRIGHTNESS LEVEL (%)	DMX STEP	VOLTAGE (V)	LUX (X10)
100%	255	24.1	1315
90%	236	23.7	1190
80%	211	23.1	1052
70%	180	22.4	920
60%	147	21.6	789
50%	122	21.1	657.5
40%	100	20.5	526
30%	79	20.1	394.5
20%	53	19.4	263
10%	25	18.8	131.5
1%	1	18.2	12

Magnitude (0-10V) Minimum Voltage Before Turning Off

18.6V

Amperor (0-10V) Minimum Voltage (10% Brightness)

19.2V

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INSTALLATION

Field Cuttable LUXFLEX is fully field cuttable and may be cut horizontally or vertically along the designated cutting lines. The smallest piece that may be cut measures $2'' \times 4''$ or 50.8mm x 101.6mm. LUXFLEX is fully adaptable for backlighting applications of many sizes and shapes.

Environment Indoor location safe only. For best performance, avoid mounting LUXFLEX LED sheets in direct sunlight, near direct water contact, or by surfaces subject to puddling caused by rainfall or sprinkler sprays.

Custimizable Wattage Available Please reach out to our team for applications requiring specific wattage requests. **Operating Temperature** $-13\degree$ F ~ $+140\degree$ F ($-25\degree$ C ~ $+60\degree$ C)

Ambient Temperature -13°F ~ +158°F (-25°C ~ +70°C)

Mounting May be mounted with 3M adhesives or with standard screws. All LUXFLEX sheets feature 3M adhesive on the reverse side of the sheet and 9 holes per sheet for mounting with screws.

Heat Sink Not required for installation. LUXFLEX illuminates spaces with reduced thermal consumption and output, which makes it perfect for placement behind a diffuser in a compact space.

Tiling Multiple Sheets Each LUXFLEX sheet is designed for tiling multiple full and partial sheets in a series and connecting them to one another. To tile LUXFLEX identify the female Molex[®] connector and match the polarity of the connecting wire according to the polarity indicated next to the connector. Red wire is positive. Black wire is negative. The front of the male Molex connector, indicated in the images below, must always be facing up when inserting the wire into the connector. LEDs will immediately light up if the wiring is correct.

Curved Applications LUXFLEX may be flexed for curved or radius applications to best fit your environment.

WIRING THE MOLEX® CONNECTOR

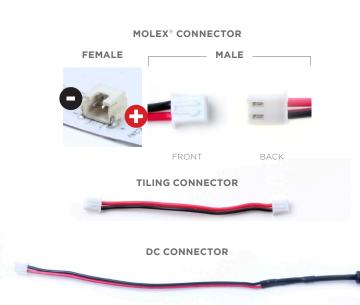


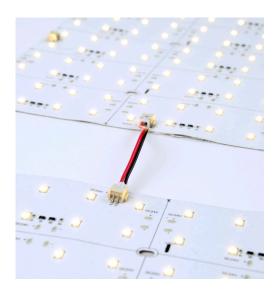
Red wiring should always be aligned to the positive charge. Black wiring should always be aligned to the negative charge.



RED WIRE IS POSITIVE. BLACK WIRE IS NEGATIVE.

TILING LUXFLEX SHEETS OR PIECES





LIMITLESS TILING = ENDLESS CREATIVITY

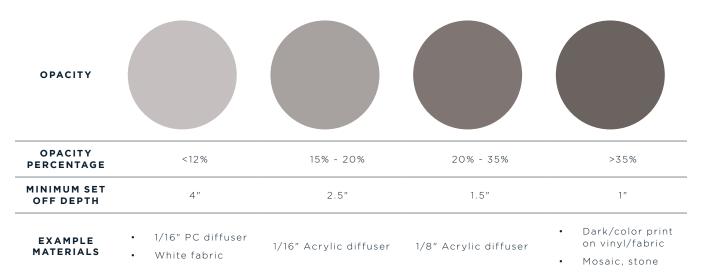
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To Avoid Hotspots, Plan Your Setoff (Airgap) Depth To prevent hotspots, we recommend installing LUXFLEX with a setoff or airgap anywhere from 1-4" away from your diffuser or face material. This setoff or airgap depth will vary depending on the nature of your diffuser or illuminated surface. Review the table below for general guidelines to follow during installation.



*Please notice that **face material testing** is necessary to give final air gap confirmation and the chart above is for reference only but applicable for most applications.



- · Architectural Indoor & Outdoor Entrance Facade
- · Luminous Ceilings & Walls
- · Indoor Ad Signage
- Outdoor Ad Signage
- · Backlighting
- · Architectural Lighting
- · Curved Applications
- · Curved Applications
- · Compact, Space-Sensitive Applications
- Retail Applications
- ...And Many More!



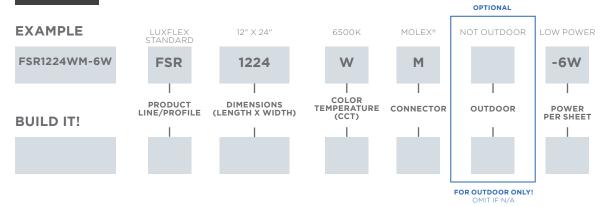
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LUXFLEX[™] STANDARD PART NUMBER



*Custom lumen outputs and wattages are available for this product. Please contact us for more information.

PRODUCT LINE						
FSR	LUXFLEX™	STANDARD				

DIMENSIONS (IN INCHES)

LLWW LENGTH (VARIES)

- Be the FOCUS -

COLOR TEMPERATURE (CCT)						
w	6500K					
v	5300K					

Y	4100K

- z 3000K
- CUSTOM CCT С

CONNECTOR

- в DC BARREL JACK
- **MOLEX**® Μ
- н HARDWIRE

OUTDOOR (OPTIONAL) ο OUTDOOR (OMIT IF N/A) **POWER PER SHEET** LOW POWER -6W MEDIUM POWER -12W -19W **HIGH POWER** CUSTOM WATTAGE -xxw

PROJECT NAME/N	D.	PART NUMBER	
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