

FLEX CC

Constant Current LED Tape

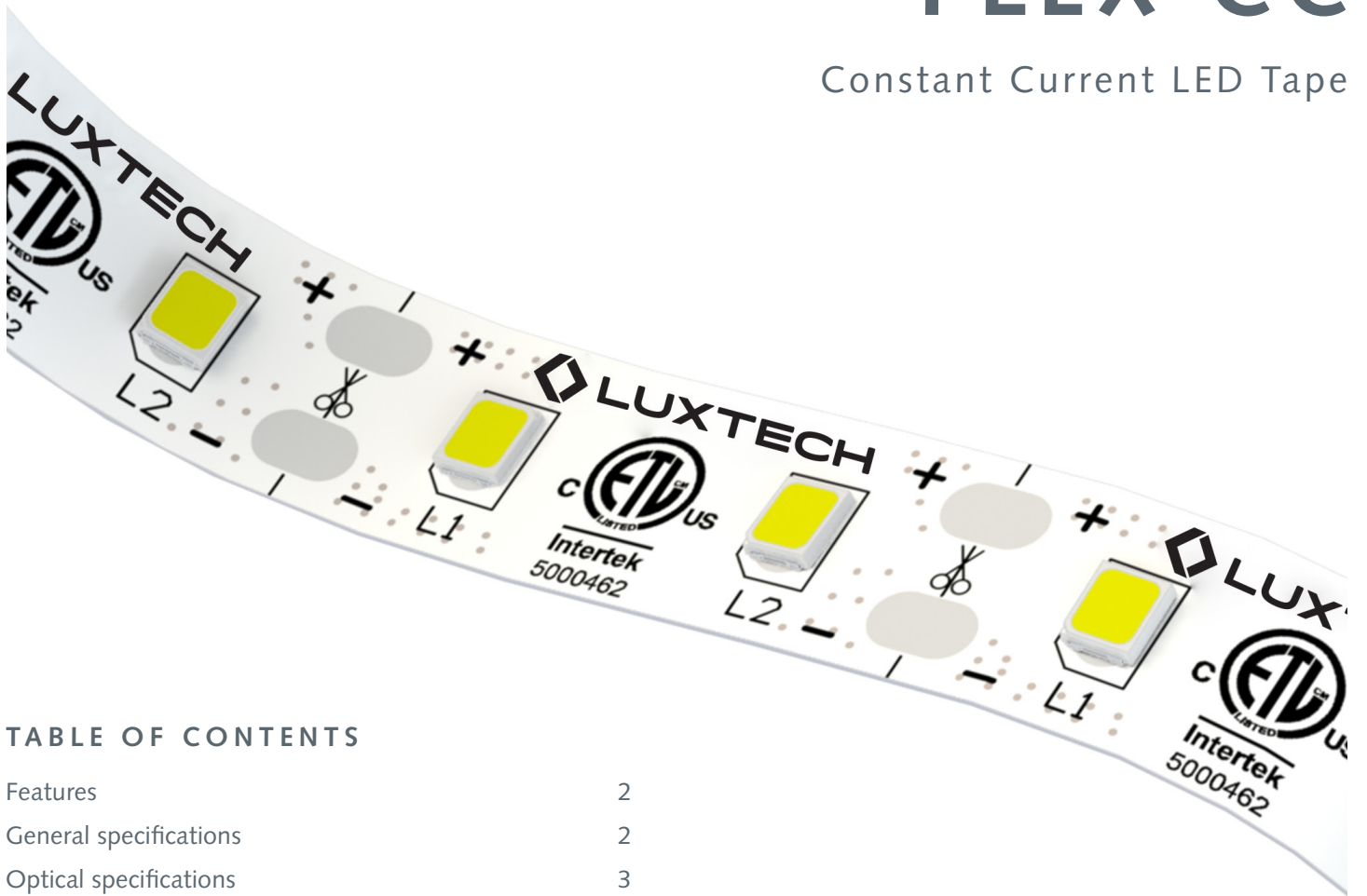


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Project ||

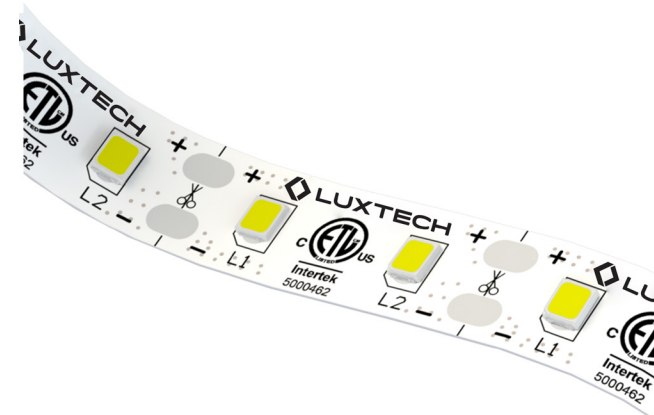
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Quantity ||

FLEX CC

Constant Current LED Tape

LUXTECH FLEX CC bends and curves to fit your application need. Cuttable every inch, this high-performance, specification-grade LED tape provides FLEX-ability in luminaire design and assembly. FLEX CC works with familiar constant current drivers.



FEATURES

- » 5-Year Warranty
- » Flexible LED Strip
- » Cuttable Every Inch
- » Low Profile 0.39" (10mm) Width
- » LM-80 Tested LEDs by Samsung
- » Nominal Efficacy: 132 lm/W
- » Dimmable With Compatible Constant Current Drivers
- » 3-Step MacAdam Binning
- » Specification-Grade 3M 200MP Adhesive Backing
- » Tape application on bare aluminum recommended

GENERAL SPECIFICATIONS

- » Forward Voltage: 35V, +/- 4V
- » Max Output: 2400 lm/ft (3000K 80 CRI White LEDs)
- » LED Pitch: 0.5"
- » Minimum Bend Radius: 0.50"
- » L70 > 60,000 Hrs for Ts = 55°C, 40mA Per Section
- » L70 = 49,000 Hrs for Ts = 85°C, 40mA Per Section
- » 1+1 oz Copper
- » Beam Angle: 120°
- » Max Recommended Run Length: 8'
- » Reel Length: 16.4' (5m)

Project ||

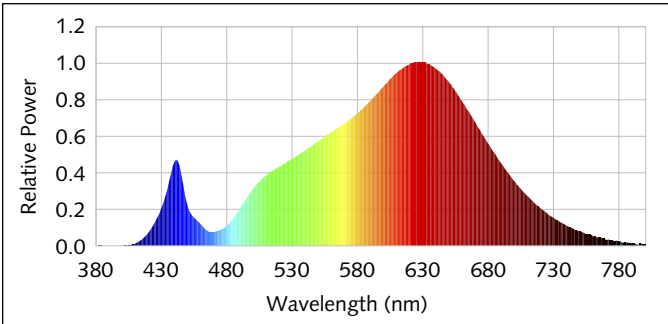
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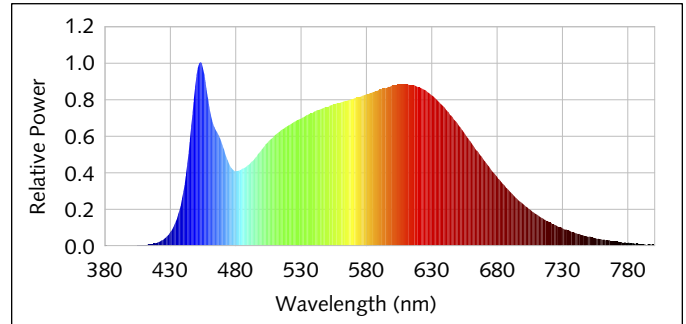
OPTICAL SPECIFICATIONS

SPECTRAL POWER DISTRIBUTION, WHITE

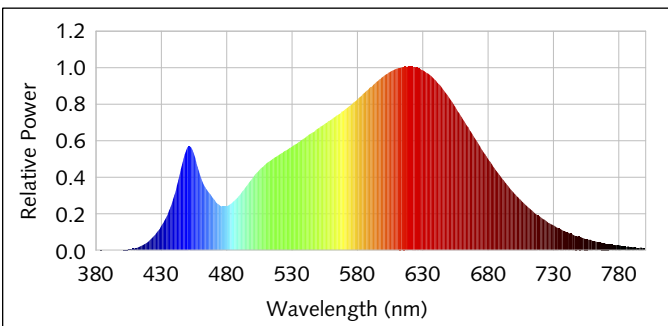
2700K 3-STEP



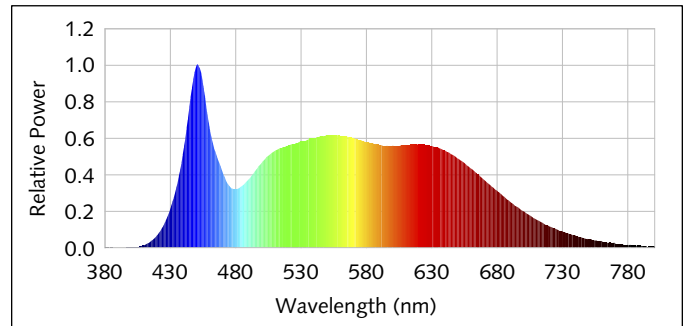
4000K 3-STEP



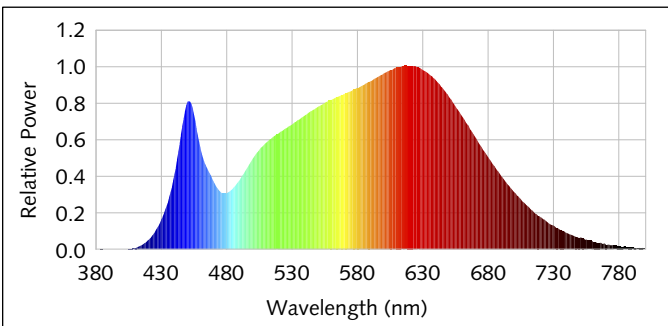
3000K 3-STEP



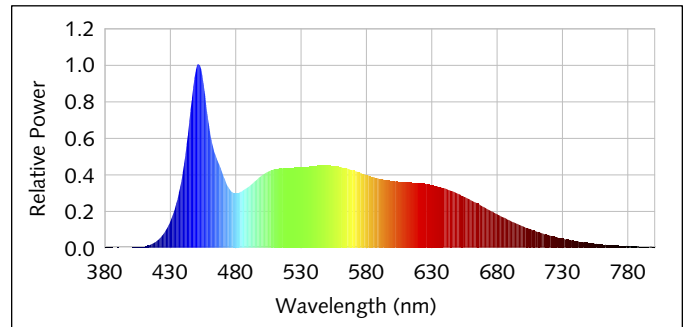
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

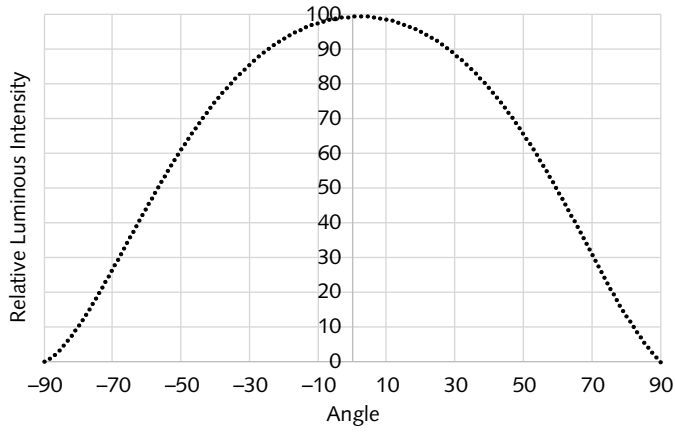
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Quantity ||

OPTICAL SPECIFICATIONS

BEAM ANGLE

WHITE



Project ||

Type ||

Quantity ||

ELECTRICAL CHARACTERISTICS

Assuming 35K 90 CRI

2 FEET					
Current (mA)	100	300	600	840	1080
Voltage (V)	31.4	32.34	33.62	34.56	35.44
Flux (lm)	275	770	1420	1880	2310

4 FEET					
Current (mA)	200	600	1200	1680	2160
Voltage (V)	31.4	32.34	33.62	34.56	35.44
Flux (lm)	275	770	1420	1880	2310

8 FEET					
Current (mA)	400	1200	2400	3360	4320
Voltage (V)	31.4	32.34	33.62	34.56	35.44
Flux (lm)	275	770	1420	1880	2310

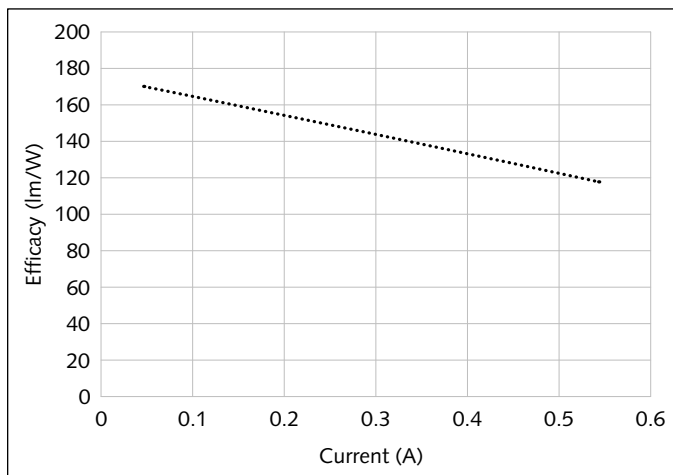
INSTRUCTIONS

Determine the drive current for your application:

1. Start with the target length and lumens/ft to determine the nominal drive current.
2. Multiply by the de-rating factor for the target color temperature.
3. Multiply by the re-rating factor for the expected case temperature.
4. Pick a driver that is compatible with the calculated drive current and compliance voltage range.

EFFICACY VS. CURRENT

WHITE



Project ||

Type ||

Quantity ||

ABSOLUTE MAXIMUM RATINGS

WHITE

Current (mA)	540
Voltage (V)	39
Flux (lm)	2400
Temperature (°C)	85

COMPONENTS

Max Recommended Run Length (ft)	8
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Project ||

Type ||

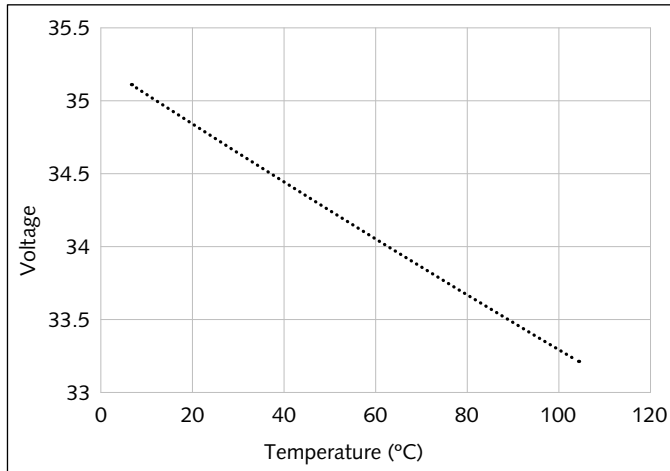
Quantity ||

DERATING

COLOR TEMPERATURE	LIGHT OUTPUT
2700K	97%
3000K	100%
3500K	106%
4000K	111%
5000K	111%
6500K	107%

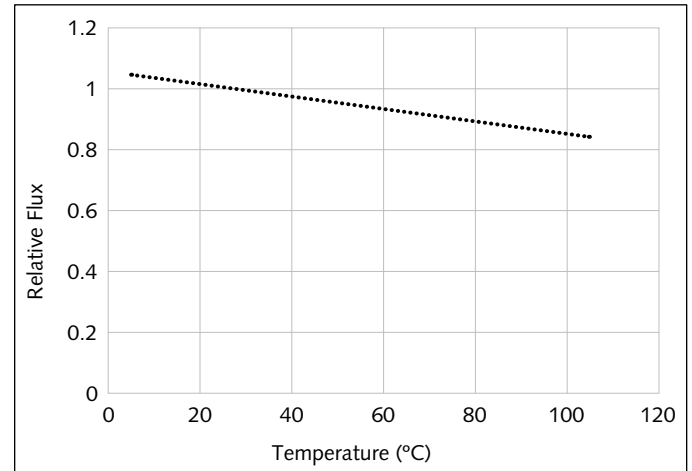
VOLTAGE VS. TEMPERATURE

WHITE



FLUX VS. TEMPERATURE

WHITE



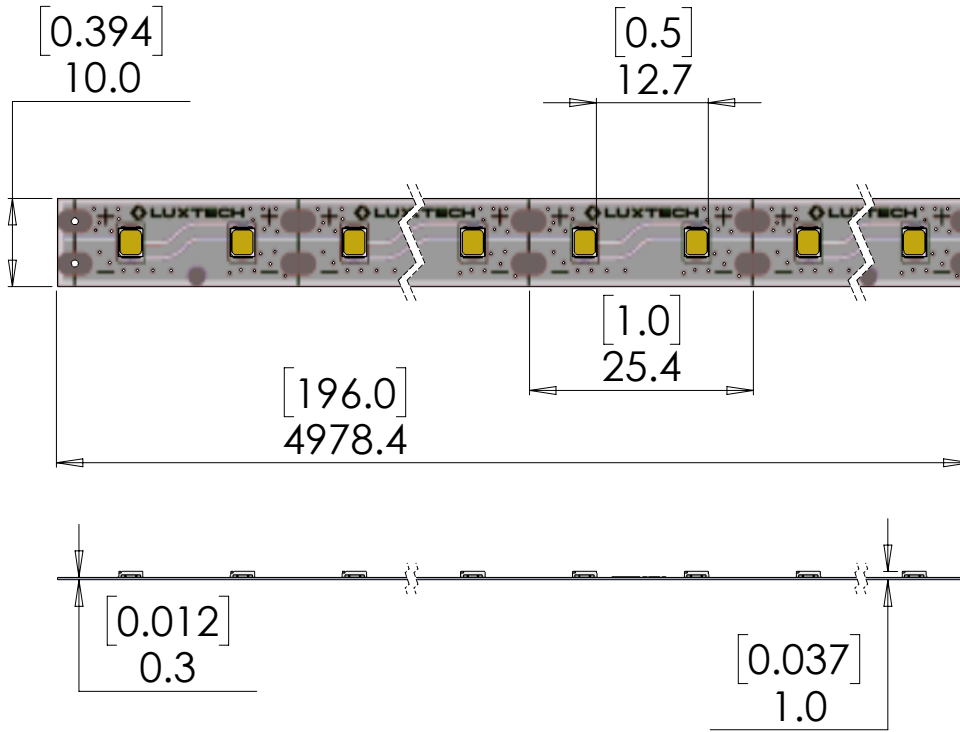
Project ||

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MECHANICAL CHARACTERISTICS

TECHNICAL DRAWING



Units: [Inches] mm

PRODUCT DIMENSIONS

PARAMETER	SPECIFICATION (IN)
Reel Length	196.0
Width	0.39
Thickness	0.12
Solder Joint Length	0.078 +/- 0.010

Project ||

Type ||

Quantity ||

ACCESSORIES AND DESIGN RESOURCES

DRIVER SELECTION

BRAND	MODEL	PROGRAMMABLE DRIVE CURRENT (MA)	OUTPUT VOLTAGE (V)	DIMMING
AC Electronics	AC-50CD1.4APC7	400-1400	15-55	0-10V
EldoLED	SOLOdrive 566/U (A/S/L)	150-1400	1.5-55	0-10V
Philips	Xitanium XR025C100V036XPM1	300-1000	18-36	0-10V
Roal	RSOZ070-60-Full	350-2100	30-56	0-10V
Thomas Research Products	LED55WPG1-055-C1500-D2	100-1500	12-55	0-10V

Design resources: Calculator and CAD files available at LUXTECH.com

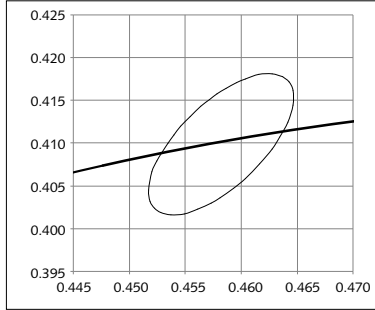
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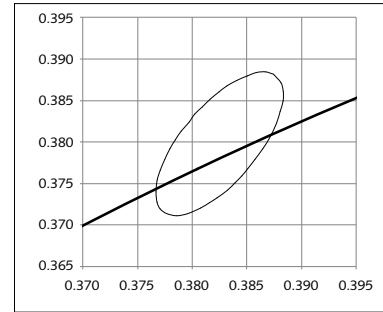
Quantity ||

COLOR BINNING INFORMATION

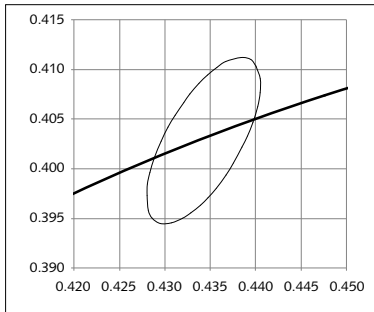
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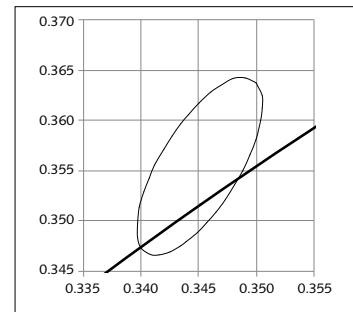
4000K 3-STEP



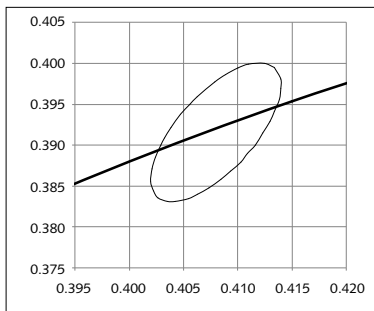
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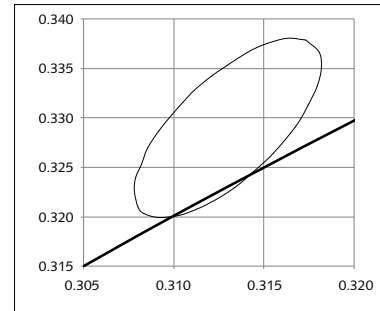
5000K 3-STEP



3500K 3-STEP



6500K 3-STEP



Project ||

Type ||

Quantity ||

ORDERING INFORMATION

PRODUCT CODES

PRODUCT	COLOR TEMP	CRI
FX-CC-10	27K	80
	30K	90
	35K	
	40K	
	50K	

EXAMPLE: FX-CC-10-40K-80
ORDER IN INCREMENTS OF 16.4'

SUGGESTED CONNECTORS

PRODUCT	MANUFACTURER	DESCRIPTION
OL11-SL10XB-2W	Onlumi	10mm Narrow Wire-to-Board Connector with Multicolored Wire
OL11-SL10XB-2	Onlumi	10mm Narrow Wire-to-Board Connector, No Wire
OL11-SL10BB-2W	Onlumi	10mm Narrow Board-to-Board Connector with Multicolored Wire
OL11-SL10XB-2	Onlumi	10mm Narrow Board-to-Board Connector, No Wire
OL11-SEN10XB-2W	Onlumi	10mm Clear Hippo Wire-to-Board Connector with Multicolored Wire
OL11-SEN10XB-2	Onlumi	10mm Clear Hippo Wire-to-Board Connector, No Wire
OL11-SEN10BB-2W	Onlumi	10mm Clear Hippo Board-to-Board Connector with Multicolored Wire
OL11-SEN10BB-2	Onlumi	10mm Clear Hippo Board-to-Board Connector, No Wire

REV. 1.7



People Centric Lighting

ABOUT LUXTECH

LUXTECH is an LED component design and manufacturing company specializing in high quality LED modules and architectural grade lighting solutions. LUXTECH is a catalyst for health and well-being through human centric lighting systems. Our inventive custom engineering for natural lighting is advancing emotional wellness and productivity with the potential for global social impact. LUXTECH is located in Philadelphia's Old City neighborhood.

a 325 Chestnut St. Suite 1212,
Philadelphia, PA 19106

e info@luxtech.com

w www.luxtech.com

p 215-494-3330

f 215-494-1074

in   @LUXTECHLED