

2019 Proposed Holiday Lighting

CITY OF MIAMI BEACH • FLORIDA • USA





Lincoln Road - additional tree lighting, move Sylma

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Lincoln Road - 10ft Teddy Bear and trunk wraps

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Lincoln Road - 20ft Manon tree with 3D Ornaments and tree wrap

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Lincoln Road - move Walk Thru Ornament

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Sunset Garage - add 10ft Giftbox decor

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City Hall Campus - Nativity White resin decor

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City Hall Campus - Nativity illuminated decor

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City Hall Campus - Meridian trees with fronds

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Ocean Drive - view 1 - Animated Ribbon Arch - <https://youtu.be/F3XwZtxIEoQ>

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Ocean Drive - view 2 - Majestic Angel decor
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Ocean Drive - view 3a - Walk Thru Giftbox with Majestic Decor

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Ocean Drive - view 3b - 3D Starburst with Majestic Decor

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LIGHT 365

Permanent Lighting Option

PRODUCT HIGHLIGHTS:

- UV protected with a built in UV blocking cap
- Each diode has it's own driver, so if a bulb burns out only that bulb will be out (not an entire section)
- 5 year warranty
- The install of tree lighting in California has been up for over 8 years without a single light failure (Port of Los Angeles)
- Installed all over the world for many years
- A true full time installation that is built to last in the hot sun
- Foam backing on the diodes that allows for tree growth
- Larger bulbs that provide a better, more permanent look to them
- Wide range of color temperatures
- Customized spacing of lights can be determined by city upon sample install
- Rated for 17 years

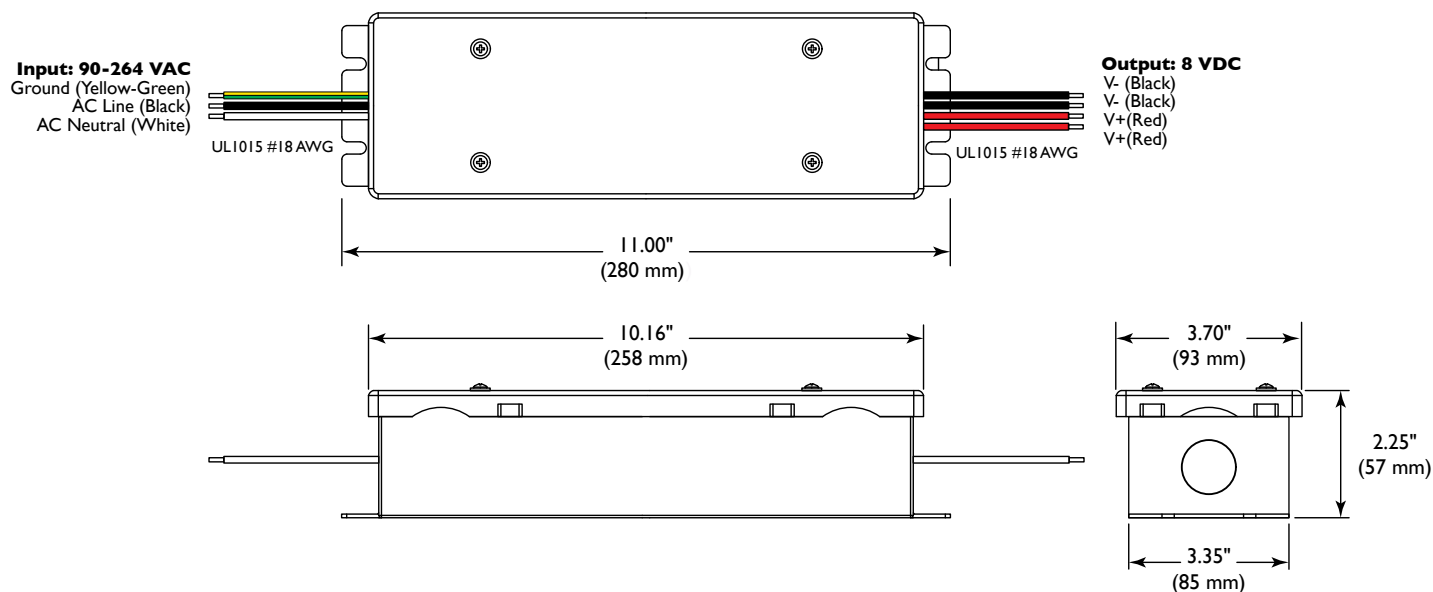


LIGHT 355

LDR8-80 LED Driver

The design allows for all DC and AC wiring to be done inside the unit, without the need for external junction boxes. The enclosure is rated Nema 3/IP 65 and suitable for wet locations.

Input range is 90-264 VAC/47-63 Hz, and the output may be adjusted +5% / -30%. Tokistar offers a wide range of dimming options which are installed on the secondary outputs. The primary input is not to be dimmed.



Specifications

Input Range: 90-264 VAC
Frequency Range: 47-63 Hz
Output: 8VDC (Adjustable +5% / -30%)
Max. Output Current: 10.0A (2 @ 5.0A)
Max. Output Power: 80W (2 @ 40W)

Mechanical Specifications

Dimensions: 11" x 3.7" x 2.25"
Weight: 3.4 lbs./ 1.55 kg.
Enclosure Rating: NEMA 3/IP 65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

LIGHT 355

LDR8-80 LED Driver

Input Specification

Voltage Range	Frequency Range	Max In rush Current	Power Factor	THD
90-264 VAC (100-240 VAC Nominal)	47-63 Hz	30A@230 VAC input, 25°C, cold start-up	0.9 min	<25% @ Full Load

Output Specification

Max Power	80 W	Transient Response	4 mS, full load to half load, 100 VAC Input
Load Regulation	+/- 1% Max	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.
Efficiency	80% typ.	Constant Voltage (CV) Mode Load Regulation	+/- 3% Max (Voltage Setting Adjustable via on-board pot: +5%/-30%)
Noise/Ripple	1.5% of Rated Output Voltage*	Constant-Current (CC) Mode Regulation	+/- 2% Max (Current Setting Adjustable via on-board pot: +5%/-90%)
Start-up Time	2 sec. Typical	Over Voltage Protection	132% Max
Hold-up Time	16mS @ full load, 100VAC input	Over Current Protection	Constant-current limiting

*All noise measurements made at output terminals, connected to a 20MHz low pass filter.

Environmental Specification

MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity
55,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-30°C to 60°C (Full load)	-40°C to 85°C	5% - 95 %

Compliance/Safety

EMI/RFI:	CISPR-22 Class B FCC part 15 Class B EN 55015
Safety Standards:	UL/cUL 1012/1585 UL 1310 Class 2 UL 48 CE
Weatherability:	EN60529 NEMA 3/IP 65

Mechanical

NEMA 3 Design with patented AC and DC Wiring compartments, fully potted PCB.

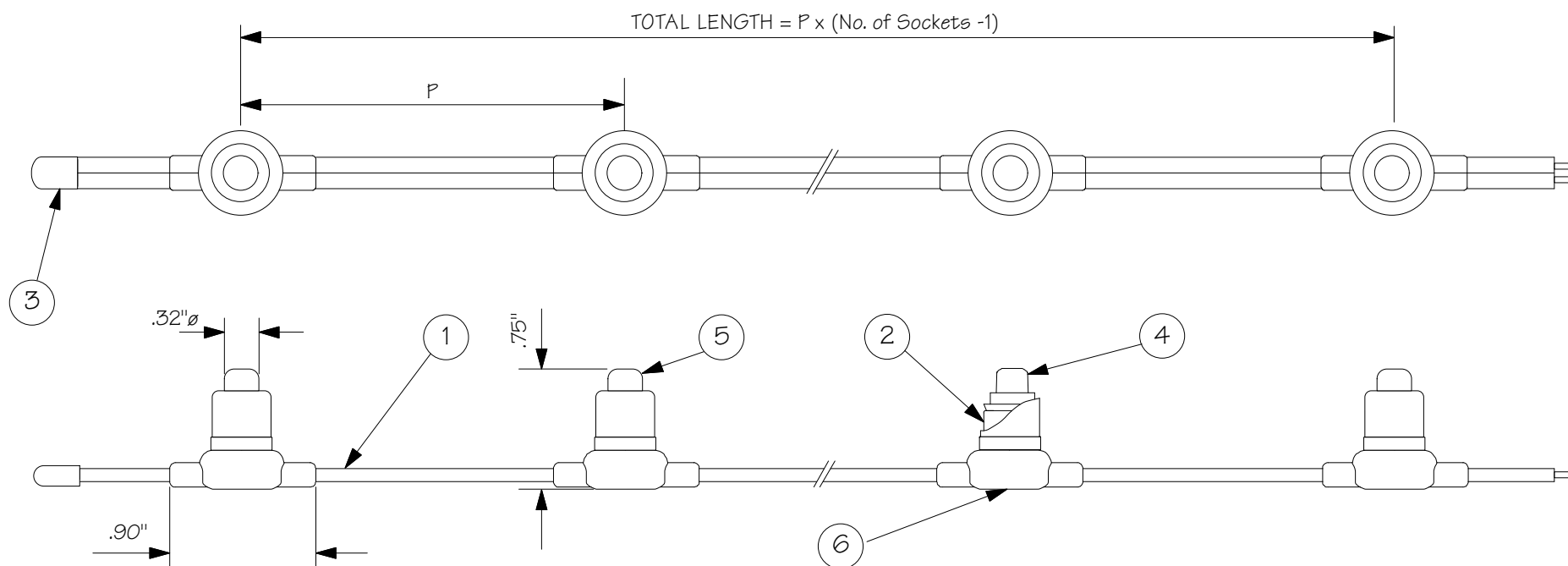
Dimming Options

Tokistar Dimming Controls	Dimming Control
1. LC-1CH-MULTI	• 0/1-10V DC • DMX 512 • PWM • Manual Dip Switches
2. LC-1CH-DP	• Tokistar LC-DMR

RGB Lighting Control Options

Tokistar Lighting Controls	Dimming Control
1. LC-3CH-DMX	• DMX 512
2. LC-3CH-DP	• Tokistar LC-3CH-CM

FL SERIES-0.2 WATT TOKILED5®



CATALOG#	P (INCH)	MAX. LENGTH
FLBK-60-(LED CODE)-(WP)	2.4 ± .20	40 FT.
FLBK-110-(LED CODE)-(WP)	4.25 ± .20	63 FT.
FL(BK,WG)-160-(LED CODE)-(WP)	6.25 ± .20	75 FT.
FL(BK,WG)-210-(LED CODE)-(WP)	8.25 ± .20	87 FT.
FL(BK,WG)-310-(LED CODE)-(WP)	12.25 ± .20	106 FT.
FLBK-410-(LED CODE)-(WP)	16.25 ± .20	122 FT.

CABLE COLOR CODE: BK=BLACK, WG=WARM GREY
 WARM GREY AVAILABLE IN 6.25", 8.25" AND 12.25" ONLY
 WP=OPTIONAL SILICONE CAP FOR OUTDOOR USE

0.2 WATT TOKILED5® 8VDC/25.0mA			
PART #	LED CODE	COLOR	LUMEN
TLED-LW-HB	LW-HB	2000K WHITE	???
TLED-WW-HB	WW-HB	2400K WHITE	2.4Lm
TLED-IW-HB	IW-HB	3000K WHITE	2.6Lm
TLED-WH-HB	WH-HB	6500K WHITE	3.2Lm

LIGHT

355

FL SERIES SUBMITTAL

CATALOG#: FL(BK,WG)-_(LED CODE)-(WP)

DATE: JANUARY 1, 2015

DRAWN BY: R. CORDOVA

SCALE: 1:1

WEIGHT: 15g/ft.

NO.

PART

MATERIAL

1

WIRE

PVC INSULATION WITH #18 AWG X2

2

LAMP SOCKET

POLYCARBONATE WITH PLATED COPPER CONTACTS

3

END CAP

PVC

4

LED

SOLID STATE LED

5

SILICONE CAP

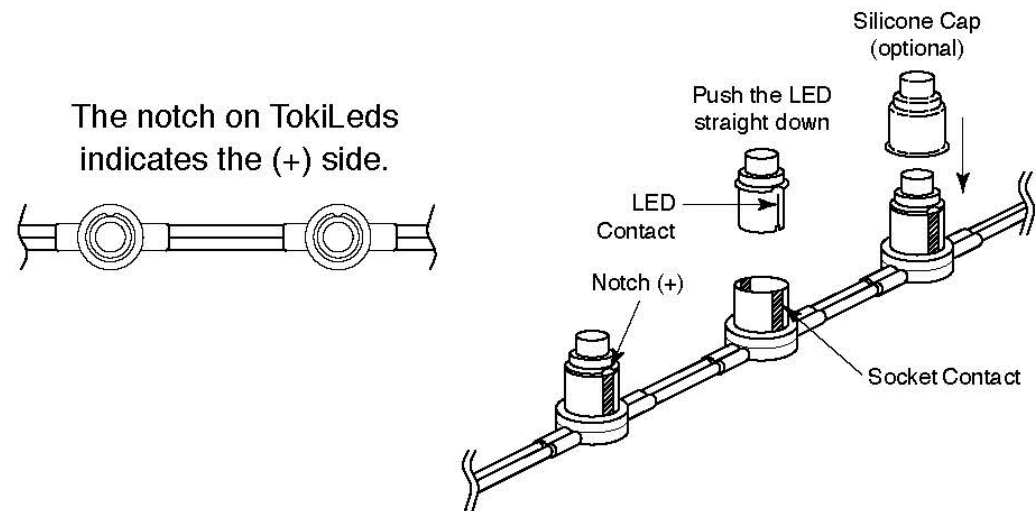
SILICONE (CLEAR)

6

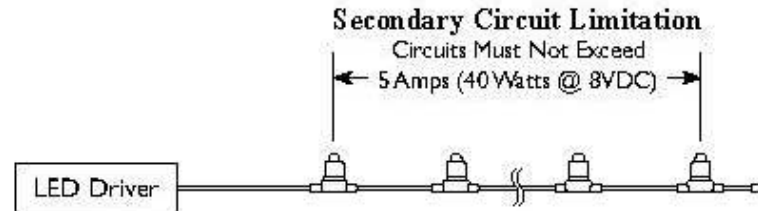
INSULATION

HOT MELT

LIGHT 355



Secondary Circuit Wiring



Maximum Run Lengths

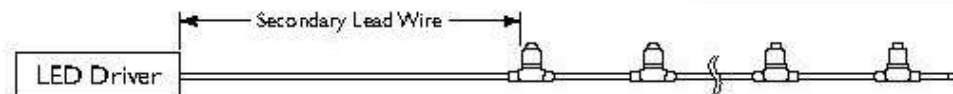
To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown in the chart to the right for each independent length of Lightstring.

Spacing	0.1 Watt LED	0.2 Watt LED	0.27 Watt LED	0.4 Watt LED
2.40" (60 mm)	63' (19 M)	40' (12 M)	30' (9 M)	20' (6 M)
4.25" (110 mm)	84' (26 M)	63' (19 M)	48' (14 M)	36' (11 M)
6.25" (160 mm)	100' (30 M)	75' (23 M)	50' (15 M)	50' (15 M)
8.25" (210 mm)	116' (36 M)	87' (26 M)	65' (20 M)	56' (17 M)
12.25" (310 mm)	142' (43 M)	106' (32 M)	80' (24 M)	70' (21 M)
16.25" (410 mm)	164' (50 M)	122' (37 M)	90' (28 M)	82' (25 M)

Recommended Lead Wire Size

The distance from the LED Driver to the fixture, and the load of the fixture, will determine the proper size of secondary wire. The chart to the right indicates recommended wire size based upon the driver being loaded to its full capacity of 5 Amps/40 Watts.

Secondary Lead Wires	
Wire Size	Wire Length
#16AWG	12' (3.6 M)
#14AWG	20' (6.1 M)
#12AWG	30' (9.1 M)
#10AWG	45' (13.7 M)



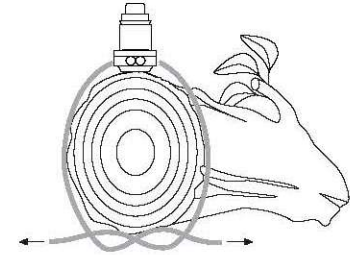
LIGHT 355

Mounting Fixtures

The proper mounting device is determined by the surface the Lightstring is being attached to.

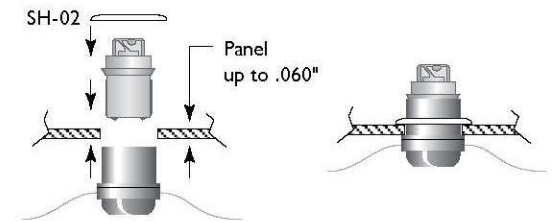
Option 1 - Part#: NSY-TP

Clear elastic nursery tape may be used to secure Lightstrings to branches without inhibiting growth.



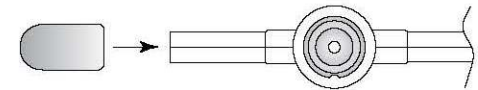
Option 2 - Part#: SH-02 Stainless Steel Fastener

The SH-02 fastener is used to securely attach Lightstring sockets to panels through a 3/8" Ø hole.



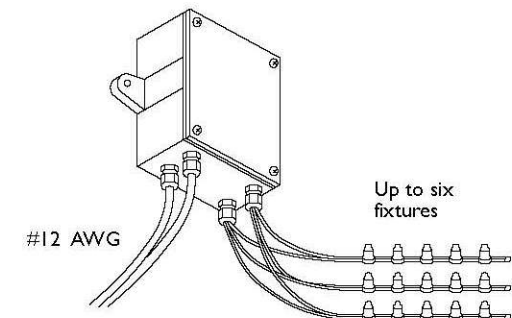
Part#: EC-FL Vinyl End Caps

Lightstrings may be cut to size on site. Vinyl end caps insulate the end of the wire.



Part#: HC-10 Junction Box

This gasketed junction box accepts #12 AWG Landscape Cable, which may be spliced to 6 independent Lightstring fixtures.





73rd & Ocean Terrace - add pole decor

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Collins East - add tree wraps

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Collins West - add tree wraps

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Open Space Park - move decor from Ocean Drive
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Normandy Fountain - Majestic Angels with Radiant Stars

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16th Street - Add 3M Pole Decor

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Fire Department - Icicle lights, Tree wraps and 10ft Snowflakes

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Alton South of 5th - add 1M Pole Decor

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South Pointe Beach - option to add decor from Ocean Drive

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