



Product Information:

1. Lighting for pathway, steps, coves, undercabinet, accent
2. 12 Volts for Easy and Safe Installation
3. Choose from a variety of LED colors or LED whites.
4. Available with LEDs that can be replaced individually if there are any failures.
5. U-Channel shipped in 8' lengths (Field Cuttable), StripLite in maximum of 80' lengths (Field Cuttable)
6. Can be ordered to specific lengths for easier installation when exact dimensions are known. Example: 3 x 30'6"
7. Product is Field Cuttable.
8. Lead Wires are 36" long and exit on one end. Consult factory for other lengths.
9. LPL8175 is very flexible which allows for easy field configurations for non-straight runs.

Installation Recommendations:

1. LipLite u-channels can be screwed to sheetrock, concrete, or wood using proper mounting screws or double face tape (double stick tape).
2. Conduit raceway should be sleeved at one end for low voltage wires going to transformer.
3. Provide run lengths at time of order. This will alleviate any field cutting or modifications when lengths are provided. If necessary, LPL8175 can be field cut anywhere between the LED circuit boards.
4. Install transformers as close proximity to first LED. See voltage drop table for wire sizes based on load and distance from transformer to first LED.

Electrical

LipLite 8175 requires a 12 Volt Transformer/Power Supply/Driver.

Transformer:

1. To calculate transformers size find LED wattage. Example: LED-BY is .36 Watts Each
2. Determine LED Spacing and # of LEDs per foot. Example: 2" on center, divide 12" by 2" = 6 Lamps per foot
3. Determine Length in Feet. Example: 10'
4. Calculate Load: Multiply Lamp or LED wattage x lamps Per Foot x Length in Feet. Example: .36 W x 6 lamps x 10' = 21.6W
5. Choose Transformer from Catalog. Example: TRA150
6. Determine Maximum Distance using Maximum Wire Length Table. Example: For 21.6 Watts go to next wattage in table which is 40W. Using # 14 wire maximum distance is 75' from Transformer to first LED.

Note: You can have multiple feeds from one transformer as long as total wattage does not exceed maximum transformer load.

Example: For a TRA150, the following two runs can be connected
1st run = 72W, 2nd run = 60W, Total = 132W

Installation Tools Required

- | | |
|------------------------------------|--|
| 1. Electric Compound Miter Saw | 8. Electric Hammer Drills (optional) |
| 2. 14.4 to 28 Volt Cordless Drills | 9. Wire Strippers & Long Nose Pliers |
| 3. Adhesive - Consult Factory | 10. Philips Bits - Sufficient Quantity |
| 4. Utility Knife | 11. Drill Bits - Concrete or Wood |
| 5. Electrical Cords | 12. Electrical Three Ways |
| 6. Safety Glasses | 13. Measuring Tape |
| 7. Marker | 14. Chalk Line |



Drawing # LPL8175-Installation

Read Instructions Entirely Before Starting Installation:

1. Read and follow all safety instructions listed below.
2. Do not cover LipLite as the covering may cause it to overheat, melt, and even ignite.
3. Do not use LipLite if damaged, such as, broken outer jacket, loose connections, or frayed wire insulation. Inspect periodically.
4. Do not secure LipLite with staples, nails, or like means that might damage the insulation. Secure it by using mounting clips, double stick tape, or tie-wraps.
5. Do not submerge LipLite in liquid.
6. Do not install LipLite on places where it is subject to continuous flexing.
7. Do not mount LipLite inside tanks, or enclosures of any kind.
8. Ground Fault Circuit Interrupter (GFCI) protections should be provided on circuits or outlets when LipLite is used for outdoor applications.
9. Surge protector is recommended for electrical power system to avoid damaging LipLite lighting system.

WARNING:

When using LipLite for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injuries. LipLite must be installed in accordance with the NEC or CEC as applicable. Do not install LipLite in hazardous locations or closer than 6" from any combustible material.

Read Installation Instructions Entirely Before Starting Installation:

1. VERY IMPORTANT: VERIFY CORRECT PRODUCT WAS RECEIVED WITH CORRECT COLOR TEMPERATURE AND VOLTAGE BEFORE CUTTING OR INSTALLING. CALI WILL NOT BE RESPONSIBLE IF INCORRECT PRODUCT IS INSTALLED.
2. A junction box or feed point should be located as close as possible to the beginning of a LipLite run.
3. Measure area where LipLite will be mounted.
4. Cut LipLite to proper length using electrical cutters. Use wire strippers/cutters, diagonal cutters, or electrician scissors. LPL8100 can be cut at anywhere along the StripLite between the LED or lamp sockets.
5. Remove double face tape backing (if ordered) and lay LipLite on desired location.
6. Secure LipLite using mounting clips with proper mounting screws if required. (For face down applications mounting clips are required to prevent LipLite from falling or swaying)
7. Strip Conductor at beginning of run and connect to power connector or junction box. (Stripping conductor can be completed after step two if desired)
8. Connect power source to power connector or junction box. (LEDs have polarity (+ -), if LEDs do not turn on, switch the wires to fix polarity)

Warning: Do not exceed maximum lamps per circuit. See maximum leds per circuit table for additional information.

Watts (VA) Per Circuit - Maximum Wire Length Table
(Distances below from transformers to first LED/lamp)

Wire Size	40 VA	80 VA	120 VA	160 VA	200 VA	240 VA	260 VA	280 VA	300 VA
14GA	75'	37'	25'	19'	15'	12'	12'	11'	10'
12GA	118'	59'	39'	30'	24'	18'	18'	17'	16'
10GA	188'	94'	63'	47'	38'	29'	29'	27'	25'
8GA	299'	149'	100'	75'	60'	46'	46'	43'	40'

Wire Size	320 VA	340 VA	360 VA	380 VA	400 VA	440 VA	460 VA	480 VA	500 VA
14GA	9'	9'	8'						
12GA	15'	14'	13'	12'	12'	11'	10'	10'	
10GA	24'	22'	21'	20'	19'	18'	16'	16'	15'
8GA	37'	35'	33'	31'	30'	28'	26'	25'	24'

Product Features

- Applications:** Indirect, Cove, Accent Ltg.
Voltage: 12V LEDs
Socket Base: Custom Socket
Length: Built to Order
Wire Finish: White
Feed: Standard 36" Leads

Maximum Run Table - 5 Amps

Lamp #	Description	Max. Lamps
LED-XX	Warm White LED	75
LED-XX	Cool White LED	75
LED-A	Amber LED	75
LED-R	Red LED	75
LED-G	Green LED	75
LED-B	Blue LED	75

Percent Light Output Table

Wire Size	Dist. From Trans.	50 VA	100 VA	150 VA	200 VA	250 VA	300 VA
12GA	20'	99	98	97	95	94	89
	40'	98	95	89	83	80	79
	60'	97	89	82	82	72	70
	80'	95	83	79	71	63	56
	100'	90	80	73	63	54	52
	160'	83	71	56	45	35	26
10GA	20'	99	99	98	97	96	92
	40'	99	97	92	91	88	84
	60'	98	92	89	84	81	80
	80'	98	91	84	80	78	73
	100'	97	88	81	78	72	65
	160'	90	80	73	63	55	51
8GA	20'	88	78	65	55	45	40
	40'	99	99	99	99	98	98
	60'	99	98	98	98	97	97
	80'	99	98	97	97	88	83
	100'	98	97	89	83	81	79
	160'	97	88	81	78	72	65
	200'	92	83	80	72	64	56
	400'	83	72	57	45	39	27

