## LEO Series

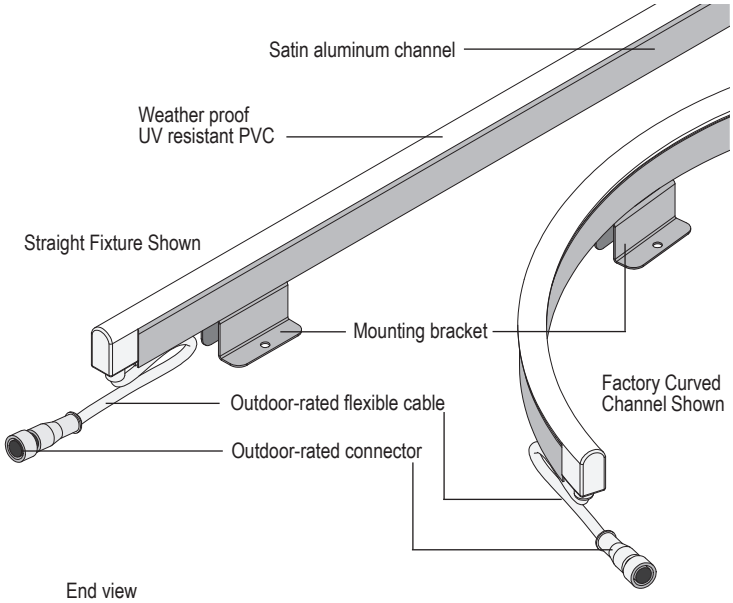
### Features
- Rugged, surface-mounted LED striplight rated for wet location
- Ideal for outline applications, including neon replacement

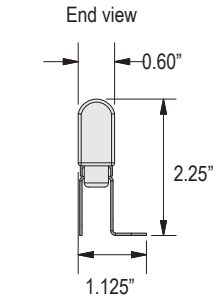
### Fixture Construction
- Extruded aluminum housing provides long-term durability of fixture (Ships in 5ft sections)
- Anodized aluminum finish protects against corrosion
- Custom curving to radius available (20" minimum radius)
- LED lightstrip inside is fully sealed, protecting lightsource against water
- Available in nominal 10ft lengths (Order in linear feet)
- Aluminum ships with mounting clips pre-attached for quicker installation.
- Outdoor-rated connectors are included, simplifying weatherproof connection between fixtures
- Connectors placed at the back of the lightstrip allow for seamless illumination with virtually no darkspots between fixtures
- Actual cut lengths may vary based on color of LED and overall run lengths.

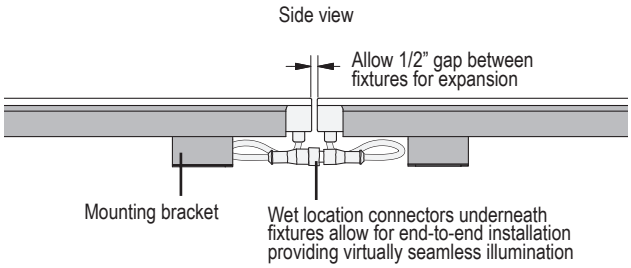
### Optical Characteristics
- Solid LED light emulates neon without the risk of broken glass
- Available in 2700K, 3000K, 3500K and 4000K white LEDs
- Available in Red, Orange, Yellow, Green and Blue LEDs
- Tight color-binning of LEDs ensures uniformity of color
- Emits no UV and no IR

### Electrical Specifications
- Consumes only 2.2 watts per foot for Red and Yellow, 3.7 Watts per foot for White, Blue, Green and Orange.
- Runs on 24V DC (Use with available Power Supply)
- Maximum run length is 30 feet for Red and Yellow
- Maximum run length is 20 feet for White, Blue, Green and Orange.
- Operating temperature is -30$^{O}$ to 60$^{O}$ Celsius
- Storage temperature is -30$^{O}$ to 60$^{O}$ Celsius
- IP68 rated (Waterproof / Dustproof)

### Heat Management and Rated Life
- LEDs operate on low current
- Low current generates minimal heat, preserving LED life without need for elaborate heat sink
- Rated life is 50,000 hours, with 70% lumen maintenance, when used in normal environmental conditions
- Long life results in low maintenance and replacement costs
- Produces no radiant heat; optimal for heat-sensitive applications




## How to Specify LEO Series

| LEO - | | - | |
|---|---|---|---|
| | LED Color | | Order in Linear feet |
| | W27 | 2700K | Specify the overall length of the run. |
| | W30 | 3000K | |
| | W35 | 3500K | Shorter pieces may be provided to complete the run. |
| | W40 | 4000K | |
| | B | Blue | |
| | G | Green | |
| | O | Orange | |
| | Y | Yellow | |
| Example | R | Red | |
| LEO - | W30 | - | 39ft |

## Standard fixture length and maximum run

| LED Color | Fixture lengths (Nominal 10ft length) | Watts (Per ft) | Maximum Run |
|---|---|---|---|
| White (all) | 118.125 in | 3.7 W | 20 ft |
| Blue | 118.125 in | 3.7 W | 20 ft |
| Green | 118.125 in | 3.7 W | 20 ft |
| Orange | 118.125 in | 3.7 W | 20 ft |
| Yellow | 118.375 in | 2.2 W | 30 ft |
| Red | 118.375 in | 2.2 W | 30 ft |

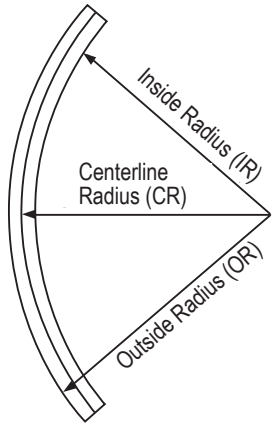
## Radius Guide for LEO Series

The LEO Series fixture can be ordered with custom curves. Complete the form below to specify exact radius information. Consult factory for assistance.

| | | | | |
|---|---|---|---|---|
| **STEP 1 - FILL IN** | Product Code | | | Refer to "How to Specify LEO" |
| **STEP 2 - FILL IN** | Total Length of Run | Feet | Inches | Measure length of entire run with this radius |
| **STEP 3 - FILL IN** | Radius | Feet | Inches | Verify in field prior to ordering. Minimum radius is 20 inches. |
| **STEP 4 - CIRCLE ONE** | Measure Point (See below for details) | **IR** **CR** **OR** | | IR - Inside Radius<br>CR - Centerline Radius<br>OR - Outsdie Radius |
| **STEP 5 - CIRCLE ONE** | Light Position (See below for details) | **LC** **LO** **LI** | | LC - Light Centered<br>LO - Light Outside<br>LI - Light Inside |

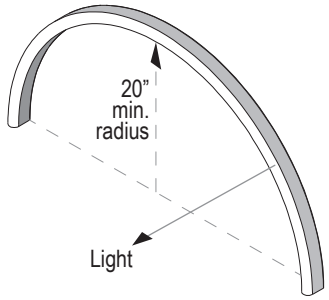
Production will not begin until receipt of above information with appropriate sign-offs. Contractor is responsible for verifying field measurements.
Allow 3 weeks for curving in addition to standard lead times.

### Measure Point

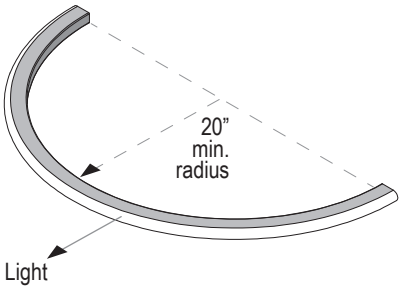



### Light Position

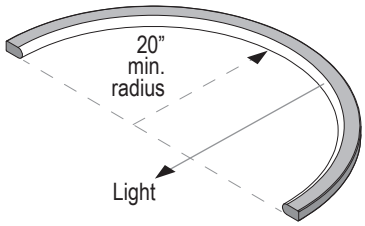
Light Centered (LC)



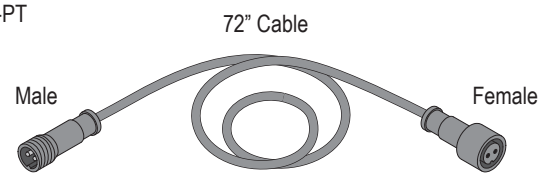

Light Outside (LO)




Light Inside (LI)



**Connector Extension**
LEO-CE-PT

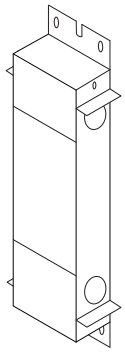



- Use to connect fixtures placed up to 72" apart.
- Use also at beginning of run to connect fixture to power supply. Use either male of female end to connect to fixture and cut off other end. Order one LEO-CE-PT per run.

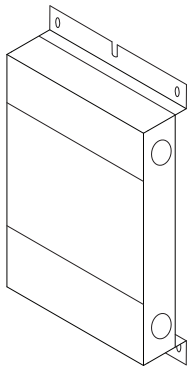
## Dimmable Power Supplies

### Specifications

- Input voltage: 120VAC or 277VAC
- Input frequency: 50 ~ 60 Hertz
- Output voltage: 24VDC
- Output current: 4 Amps per circuit
- Wattage capacity: 100W or 300W
- Overload protection: Manual reset
- Enclosure: Damp location enclosure with conduit knockouts
- Mounting: Wall mount
- Operating environment: -20 to 50 degrees Celsius
- Certification: UL Class 2 Power Supply (Damp Location)



100W



300W

### Maximum Load

- Maximum 20 ft per 4A output circuit for white, blue, green and orange.
- Maximum 30 ft per 4A output circuit for yellow and red.

Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

### Dimming

- Compatible with most standard Electronic Low Voltage Dimmers
- Wire dimmer to primary side of power supply
- Requires minimum 5 ft per 4A output for effective dimming
- Recommended dimmers: Lutron Diva Series DVSCELV-300P-SW, DVELV-300P-WH (120VAC, 300W, single pole)

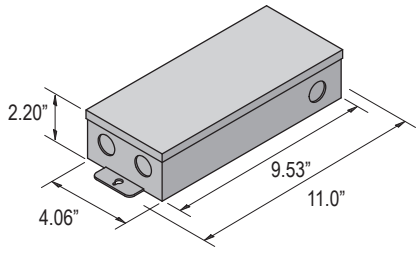
### Ordering codes

| Item Number | Description | H x W x D (in) | Weight |
|---|---|---|---|
| LEO-120-100 | 120VAC to 24VDC, 100W, 4A | 13.875" x 2.625" x 1.3125" | 2lbs |
| LEO-120-300 | 120VAC to 24VDC, 300W, 3 x 4A | 13.875" x 6.125" x 1.875" | 5lbs |
| LEO-277-100 | 277VAC to 24VDC, 100W, 4A | 13.875" x 2.625" x 1.3125" | 2lbs |
| LEO-277-300 | 277VAC to 24VDC, 300W, 3 x 4A | 13.875" x 6.125" x 1.875" | 5lbs |

## Power Supply For Dimming Applications 0-10V:

### Specifications

- Input: 120-277VAC, 50/60Hz
- Output: 24VDC
- Maximum output current: 4.0A
- Maximum output power: 100W (Feeds one 20ft run)
- Overload Protection, Short Circuit, Thermal Protection
- Operating temperature: -40$^{O}$ to 60$^{O}$ Celsius
- Certification: UL Listed for Outdoor Installation




### Ordering codes

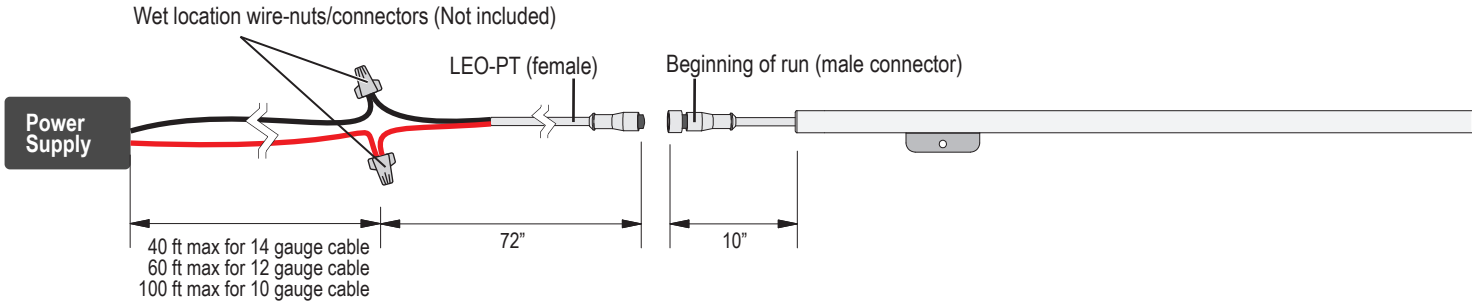
| Item Number | Description | Weight |
|---|---|---|
| DD-010-24 | 100W, 120-277VAC to 24VDC for 0-10V dimming* | 3lbs |

* Recommended dimmer: Lutron Nova Series Part No. NTSTV-DV, Ballast or LED Driver Control

Must be mounted in an accessible location with sufficient ventilation and must not be submerged.

## How to Feed LEO Series

If the location of the power supply is more than 72" from the start of the lightstrip, connect additional wire using wet location connectors. (Not included)
See below to determine what cable gauge wire is required, depending on distance of power supply from the start of the lightstrip.

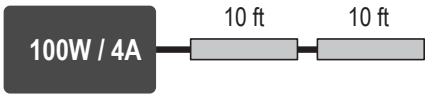



## Maximum run depends on color of the lightstrip

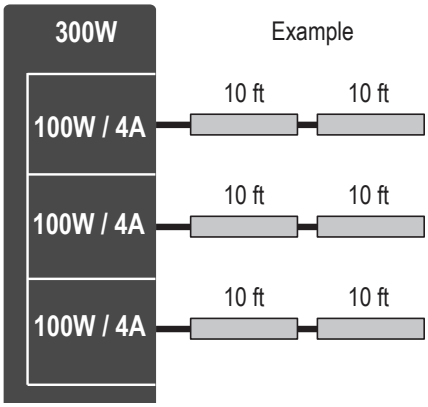
### 20ft for White (all color temps), Blue, Green, and Orange

**100W Power Supply**
Feeds up to 20ft

Example



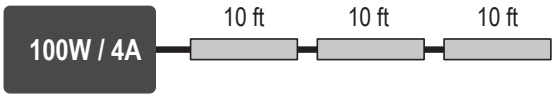

**300W Power Supply**
Feeds up to 60ft total (20ft per 100W output)



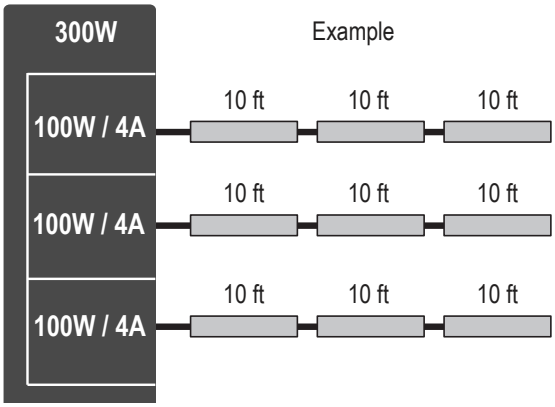

### 30ft for Yellow and Red

**100W Power Supply**
Feeds up to 30ft

Example




**300W Power Supply**
Feeds up to 90ft total (30ft per 100W output)




Multiple combinations of 10ft nominal fixtures may be connected together, so long as total length of run does not exceed the maximum run.