

# EASY LINE - Frost LL9

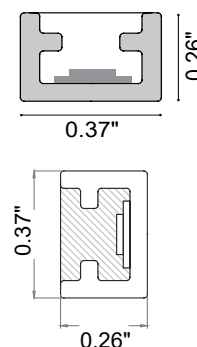
EASY LINE is a vertical, bendable LED strip that is IP65-IP68 rated ideal for fountains or swimming pools for panel installation in reinforced concrete with tiles or pool liner. It is available in Transparent, Frost, Clear or Total Light with static white, tunable white or RGB, and guarantees protection against UV rays and the corrosive action of salt and sodium hypochlorite. EASY LINE Frost has opal resin with a white outercasing. **Not cuttable in the field.**



## TECHNICAL DATA

|                    |                                                                                            |                                                  |
|--------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| Wattage            | 8W / 3.28 ft (1 m)                                                                         |                                                  |
| Power Supply       | Remote Fountain/Pool Approved 24VDC Power Supply, not included. See page 2.                |                                                  |
| Construction       | Body: Opal Polyurethane Resin<br>Outercase: White PVC                                      |                                                  |
| CCT                | 2900K, 3250K, 4800K, 5950K (204 LED / 3.28')<br>Warm White on request: 2000K, 2400K, 2700K |                                                  |
| CRI                | 85                                                                                         |                                                  |
| Delivered Lumens   | 415 lm / 3.28' (2900K)<br>415 lm / 3.28' (3250K)                                           | 445 lm / 3.28' (4800K)<br>450 lm / 3.28' (5950K) |
| Efficacy           | 51.8 lm/W (2900K)<br>51.8 lm/W (3250K)                                                     | 55.6 lm/W (4800K)<br>56.3 lm/W (5950K)           |
| Optics             | 120°                                                                                       |                                                  |
| Fixture Dimensions | 0.37" w x 0.26" h x Various Lengths                                                        |                                                  |
| Bend Radius        | 2.36"                                                                                      |                                                  |
| LED Source         | SMD 3014                                                                                   |                                                  |
| LED Spacing        | 204 LED per 3.28 ft (1 m), 0.20" between LEDs                                              |                                                  |
| Lumen Maintenance  | L80, B10>50,000 hrs                                                                        |                                                  |
| Color Consistency  | 2-3-Step MacAdam                                                                           |                                                  |
| Operating Temp.    | -22°F to 131°F                                                                             |                                                  |
| IP Rating          | IP65 / IP68                                                                                |                                                  |

Fixture Dimensions



**NOT CUTTABLE IN THE FIELD**

**MUST USE SUITABLE APPROVED  
FOUNTAIN & SWIMMING POOL  
POWER SUPPLY WHICH  
IS REMOTELY MOUNTED**

## ORDERING INFORMATION

Example: LL9E-N.24.68.FX.US. Power Supplies / Accessories ordered separately.

|                                                                                           |           |            |            |           |           |                                                     |            |   |   |  |   |    |
|-------------------------------------------------------------------------------------------|-----------|------------|------------|-----------|-----------|-----------------------------------------------------|------------|---|---|--|---|----|
| LL9E                                                                                      | -         |            | .          | 24        | .         |                                                     | .          | F | . |  | . | US |
| Model No.                                                                                 | CCT       |            | Power      |           | IP Rating |                                                     | Cable Exit |   |   |  |   |    |
| LL9E - 204 LED / 3.28' (1 m)                                                              | V - 2900K | Warm White | 24 - 24VDC | 65 - IP65 | F - Frost | X - End Feed                                        | US         |   |   |  |   |    |
| <div>NOTE: Available in lengths up to 75 feet. Please specify length when ordering.</div> | W - 3250K | On Request |            | 68 - IP68 |           | Z - Back Feed                                       |            |   |   |  |   |    |
|                                                                                           | N - 4800K | V8 - 2000K |            |           |           | NOTE: Back Feed (Z) only available on IP65 versions |            |   |   |  |   |    |
|                                                                                           | C - 5950K | V2 - 2400K |            |           |           |                                                     |            |   |   |  |   |    |
|                                                                                           |           | V5 - 2700K |            |           |           |                                                     |            |   |   |  |   |    |

**NOTE:** Available in lengths up to 75 feet. Please specify length when ordering.

Job Name/Date:

Fixture Type Designation:

**SUGGESTED POWER SUPPLIES**24VDC - **TO BE USED WITH FOUNTAIN / SWIMMING POOLS**

| Part Number                   | Description                             | Input/Output                                      | # of Fixtures |
|-------------------------------|-----------------------------------------|---------------------------------------------------|---------------|
| <a href="#">FPV-100110024</a> | ELV / TRIAC & 0-10V Dimming (100 to 0%) | 120-277VAC to 24VDC, 100W, Class 2, IP66, NEMA 4X | 1-9           |
| <a href="#">FPV-100000024</a> | Non-Dim                                 | 120-277VAC to 24VDC, 100W, Class 2, IP66, NEMA 4X | 1-10          |
| <a href="#">FPV-100100024</a> | 0-10V Dimming (2 Channels)              | 120-277VAC to 24VDC, 100W, Class 2, IP66, NEMA 4X | 1-20          |

**DRIVERS IN NEMA 4X ENCLOSURE - FOR INDOOR/OUTDOOR USE ONLY**

Remote 24VDC - ELV / TRIAC / 0-10V



PPLT00715

| Part Number               | Description                         | Input/Output                                | # of Fixtures |
|---------------------------|-------------------------------------|---------------------------------------------|---------------|
| <a href="#">PPLT00715</a> | ELV / TRIAC / 0-10V Dimming to 0.1% | 120-277VAC to 24VDC, 96W, Class 2, WET/DAMP | 1-9           |

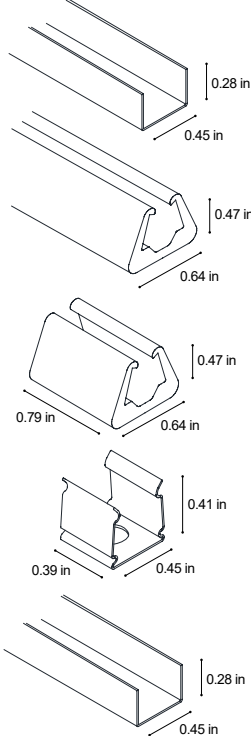
**Suggested Lutron Compatible - FOR INDOOR/OUTDOOR USE ONLY**

| Part Number               | Option         | Lutron SKU | Dim Range | Description                                    | Input/Output                      | # of Fixtures |
|---------------------------|----------------|------------|-----------|------------------------------------------------|-----------------------------------|---------------|
| <a href="#">PPLT00273</a> | L3DAE / L3DA3W | L3DA       | 100%-1%   | Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver | 120-277VAC to 24VDC, 40W, Class 2 | 1-4           |
| <a href="#">PPLT00530</a> | L3DAE / L3DA3W | L3DA       | 100%-1%   | Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver | 120-277VAC to 24VDC, 96W, Class 2 | 1-9           |

*For other power supply options consult factory.**Job Name/Date:**Fixture Type Designation:*

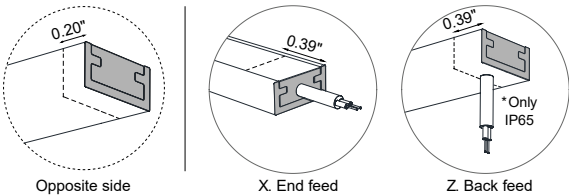
ACCESSORIES

Installation / Mounting for 0.37x0.26 inch



| Code                                 | Finishing               | Description               |
|--------------------------------------|-------------------------|---------------------------|
| PRO-AL-9.5x6.5-AL                    | Aluminum                | Rigid guide L max 9.84 ft |
| OUT-S-9.5x6.5.W<br>OUT-S-9.5x6.5.F   | White<br>Opal           | Silicone profile          |
| CLIP-S-9.5x6.5.W<br>CLIP-S-9.5x6.5.F | White<br>Opal           | Silicone clip             |
| CLIP-AC-9.5x6.5-AC                   | AISI 304 harmonic steel | Steel clip                |
| PRO-AC-9.5x6.5-AC                    | AISI 316 harmonic steel | Rigid guide L max 8.20 ft |

POWER CABLE EXIT / AREA WITH REDUCED LIGHT



Job Name/Date:

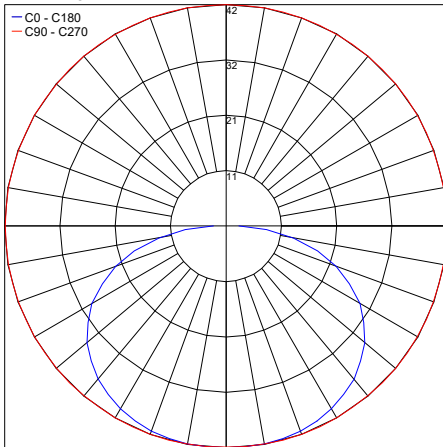
Fixture Type Designation:

## PHOTOMETRIC DATA

### 2900K

Maximum Candela = 42.2

— C0 - C180  
— C90 - C270

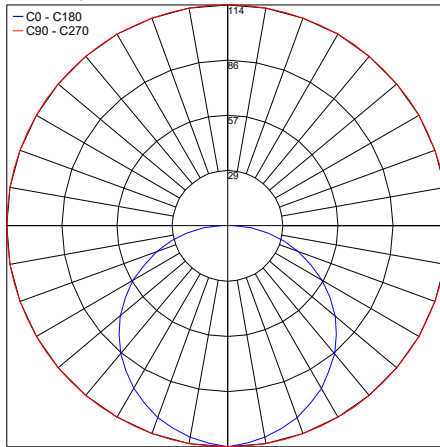


PHOTOMETRIC FILENAME : EASY LINE FROST - LL9.SVF24(R).F 2900K.IES

### 3250K

Maximum Candela = 114.2

— C0 - C180  
— C90 - C270

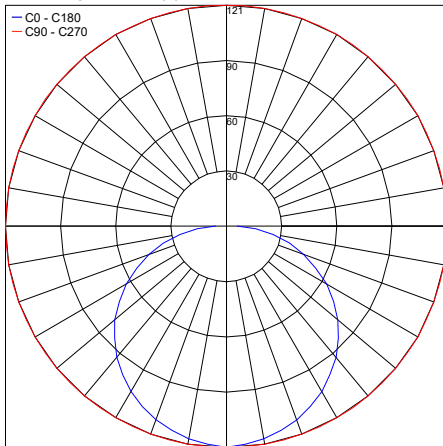


PHOTOMETRIC FILENAME : EASY LINE FROST - LL9.SWF24-6568.F 3250K.IES

### 4800K

Maximum Candela = 120.6

— C0 - C180  
— C90 - C270

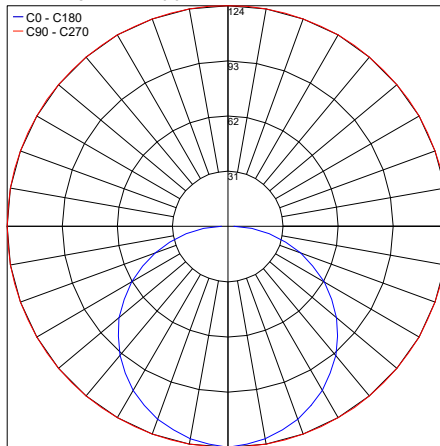


PHOTOMETRIC FILENAME : EASY LINE FROST - LL9.SNF24-6568.F 4800K.IES

### 5950K

Maximum Candela = 123.8

— C0 - C180  
— C90 - C270



PHOTOMETRIC FILENAME : EASY LINE FROST - LL9.SCF24-6568.F 5950K.IES

Job Name/Date:

Fixture Type Designation: