# EASY LINE - Frost LL28

designplan®

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.**

UL 676

Fixture Dimensions

0.26"
0.37"

0.37"
0.26"

NOT CUTTABLE IN THE FIELD

TECHNICAL DATA

Wattage	11W / 3.28 ft (1 m)
Power Supply	Remote Fountain/Pool Approved 24VDC Power Supply, not included. See page 2.
Construction	Body: Opal Polyurethane Resin Outercase: White PVC
CCT	2850K, 3250K, 4450K, 5550K (108 LED / 3.28') Single Colors: Red, Green, Blue, Amber
CRI	85
Delivered Lumens	750 lm / 3.28' (2850K) 850 lm / 3.28' (4450K) 830 lm / 3.28' (3250K) 730 lm / 3.28' (5550K)
Efficacy	68.2 lm/W (2850K) 77.3 lm/W (4450K) 75.5 lm/W (3250K) 66.4 lm/W (5550K)
Nanoscale	Red: 625 nm Blue: 465 nm Green: 525 nm Amber: 590 nm
Optics	120°
Fixture Dimensions	0.37" w x 0.26" h x Various Lengths
LED Source	SMD 3030
LED Spacing	108 LED per 3.28 ft (1 m), 0.36" 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
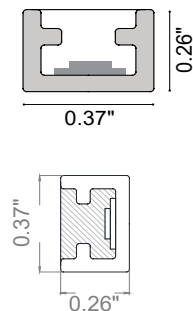
ORDERING INFORMATION

Example: LL28-N.24.68.F.US. Power Supplies / Accessories ordered separately.

LL28	-		.24	.	. F	. US

Model No.	CCT		Power	IP Rating		
LL28 - 108 LED / 3.28' (1 m)	**V** - 2850K	**R** - Red	**24** - 24VDC	**65** - IP65	**F** - Frost	**US**
	W - 3250K	**G** - Green		**68** - IP68		
	N - 4450K	**B** - Blue				
	C - 5550K	**A** - Amber				

Job Name/Date:

Fixture Type Designation:

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

Part Number	Description	Input/Output	# of Fixtures
FPV-100110024	ELV / TRIAC & 0-10V Dimming (100 to 0%)	120-277VAC to 24VDC, 100W, Class 2, NEMA 4	1-6
FPV-100000024	Non-Dim	120-277VAC to 24VDC, 100W, Class 2, NEMA 4	1-7
FPV-100100024	0-10V Dimming (2 Channels)	120-277VAC to 24VDC, 100W, Class 2, NEMA 4	1-14

SUGGESTED POWER SUPPLIES
24VDC - TO BE USE FOR INDOOR/OUTDOOR USE - NOT Fountain / Swimming Pool

Part Number	Description	Input/Output	# of Fixtures
PPLT00690	ELV / TRIAC & 0-10V Dimming	120-277VAC to 24VDC, 40W, Class 2, IP67	1-2
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	1-7

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

| Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00273	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 24VDC, 40W, Class 2	1-2
PPLT00530	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 24VDC , 96W, Class 2	1-6

For other power supply options consult factory.
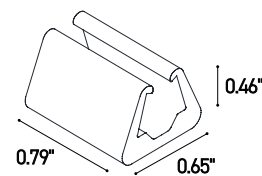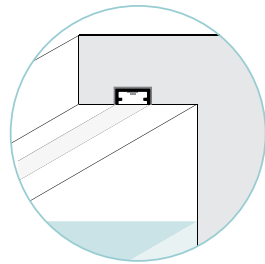
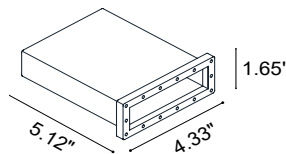## ACCESSORIES - Installation
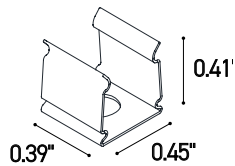
CLIP-AC-9.5x6.5-AC
Harmonic steel clips
0.41", 0.39", 0.45"
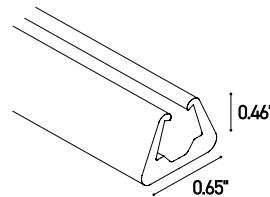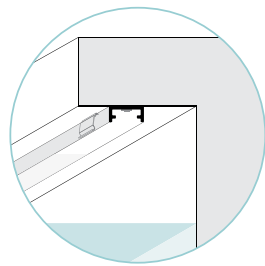
OUT-S-9.5x6.5.F/W
Flexible Silicone Outercase
L=16.4"
0.46", 0.65"
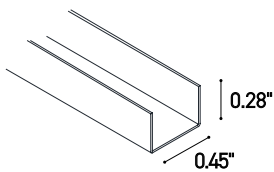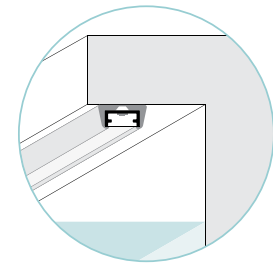
PRO-AL-9.5x6.5-AL
Rigid Aluminum Outercase
L=9.84'
0.28", 0.45"

CLIP-S-9.5x6.5.F/W
Silicone Clip
0.46", 0.79", 0.65"

CABLE-BOX
Cable box
1.65", 5.12", 4.33"

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EASY LINE - Frost LL28

POWER CABLE EXIT / AREA WITH REDUCED LIGHT

0.20"

Opposite side

0.39"

X. End feed

0.39"

* Only IP65

Z. Back feed

Job Name/Date:

Fixture Type Designation: