

Date:	Project:	Type:	Notes:	Catalog #:
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## L85-EX SERIES LED Strip (Extrusion)

The L85-EX Series LED Strip is a functional multi-purpose LED Strip that incorporates premium performance and construction durability.



### Features & Specifications

#### Applications

Ideal for use in warehouses, distribution centers, parking garages, stairwells and corridors.

#### Construction

Housing made from die formed heavy gauge pre-painted cold rolled steel and is finished with a post- production white polyester polymer.

#### Mounting

Surface mount individually or in continuous rows. Chain or cable Mount Ready. Cord and plug options offered.

#### Electrical

Utilizes high-efficiency LED power supply and circuit boards. 120-277V & 0-10V dimming standard. 480V option. 50/60HZ input frequency.

#### Operating Temperature

Suitable for -40°C – 50°C Ambient

#### Lumen Maintenance

L70 rating of 238,000 hours

#### Warranty

Five-year warranty. Terms and Conditions Apply. See warranty documentation for more information.

#### Certification

ETL Compliant. Adheres to LM79, LM80 and TM21 industry standards. DesignLights Consortium® (DLC) qualified<sup>1</sup>. RoHS Compliant.

### Performance Data

Configuration	Tested Wattage	Delivered Lumens	Efficacy	CRI
109-N1	10.5W	1,155 LM	110 LPW	>80
209-N1	20.4W	2,244 LM	110 LPW	>80
209-H1	24.3W	2,677 LM	110 LPW	>80
112-N1	15.5W	1,729 LM	111 LPW	>80
212-N1	28.8W	3,075 LM	106 LPW	>80
212-H1	34.1W	3,751 LM	110 LPW	>80
113-N1	16.4W	1,882 LM	114 LPW	>80
213-N1	29.9W	3,465 LM	115 LPW	>80
213-H1	37.4W	4,323 LM	115 LPW	>80
125-N1	27.2W	3,680 LM	135 LPW	>80
225-N1	54.2W	7,360 LM	135 LPW	>80
155-N1	59.2W	6,968 LM	117 LPW	>80
255-N2	118.4W	13,936 LM	117 LPW	>80
409-N1	36.6W	4,024 LM	110 LPW	>80
409-H1	48.4W	5,324 LM	110 LPW	>80
413-N1	52.5W	6,002 LM	114 LPW	>80
413-H1	66.3W	7,621 LM	114 LPW	>80
425-N2	108.8W	14,720 LM	135 LPW	>80
455-N4	236.8W	27,872 LM	117 LPW	>80



<b>L85</b>	2	3	4	5	6	7	8	8
1	2	3	4	5	6	7	8	8

1 - Series	2 - Length in Inches	3 - Configuration	4 - Color Temp (CCT)	5 - Kit
L85	24 - EX (24" Extrusion Strip)	<b>109-N1</b> (1) 2' Light Engine, (1) Driver, Normal Mode <b>209-N1</b> (2) 2' Light Engine, (1) Driver, Normal Mode <b>209-H1</b> (2) 2' Light Engine, (1) Driver, High Mode	<b>30K</b> (3000 Kelvin Temp) <b>35K</b> (3500 Kelvin Temp) <b>40K</b> (4000 Kelvin Temp) <b>50K</b> (5000 Kelvin Temp)	U (Universal)
	36 - EX (36" Extrusion Strip)	<b>109-N1</b> (1) 2' Light Engine, (1) Driver, Normal Mode <b>209-N1</b> (2) 2' Light Engine, (1) Driver, Normal Mode <b>209-H1</b> (2) 2' Light Engine, (1) Driver, High Mode <b>112-N1</b> (1) 3' Light Engine, (1) Driver, Normal Mode <b>212-N1</b> (2) 3' Light Engine, (1) Driver, Normal Mode <b>212-H1</b> (2) 3' Light Engine, (1) Driver, High Mode		
	48 - EX (48" Extrusion Strip)	<b>109-N1</b> (1) 2' Light Engine, (1) Driver, Normal Mode <b>209-N1</b> (2) 2' Light Engine, (1) Driver, Normal Mode <b>209-H1</b> (2) 2' Light Engine, (1) Driver, High Mode <b>112-N1</b> (1) 3' Light Engine, (1) Driver, Normal Mode <b>212-N1</b> (2) 3' Light Engine, (1) Driver, Normal Mode <b>212-H1</b> (2) 3' Light Engine, (1) Driver, High Mode <b>113-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>213-N1</b> (2) 4' Light Engine, (1) Driver, Normal Mode <b>213-H1</b> (2) 4' Light Engine, (1) Driver, High Mode <b>125-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>225-N1</b> (2) 4' Light Engine, (1) Driver, Normal Mode <b>155-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>255-N2</b> (2) 4' Light Engine, (2) Driver, Normal Mode		
	96 - EX (96" Extrusion Strip)	<b>109-N1</b> (1) 2' Light Engine, (1) Driver, Normal Mode <b>209-N1</b> (2) 2' Light Engine, (1) Driver, Normal Mode <b>209-H1</b> (2) 2' Light Engine, (1) Driver, High Mode <b>409-N1</b> (4) 2' Light Engine, (1) Driver, Normal Mode <b>409-H1</b> (4) 2' Light Engine, (1) Driver, High Mode <b>112-N1</b> (1) 3' Light Engine, (1) Driver, Normal Mode <b>212-N1</b> (2) 3' Light Engine, (1) Driver, Normal Mode <b>212-H1</b> (2) 3' Light Engine, (1) Driver, High Mode <b>412-N1</b> (4) 4' Light Engine, (1) Driver, Normal Mode <b>113-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>213-N1</b> (2) 4' Light Engine, (1) Driver, Normal Mode <b>213-H1</b> (2) 4' Light Engine, (1) Driver, High Mode <b>413-N1</b> (4) 4' Light Engine, (1) Driver, Normal Mode <b>413-H1</b> (4) 4' Light Engine, (1) Driver, High Mode <b>125-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>225-N1</b> (2) 4' Light Engine, (1) Driver, Normal Mode <b>425-N1</b> (4) 4' Light Engine, (2) Drivers, Normal Mode <b>155-N1</b> (1) 4' Light Engine, (1) Driver, Normal Mode <b>255-N2</b> (2) 4' Light Engine, (2) Driver, Normal Mode <b>455-N4</b> (4) 4' Light Engine, (4) Driver, Normal Mode		

**6 - Lens & Dimming**

- FF (Frosted Lens & Non-Dimming)
- FD (Frosted Lens & Dimming)
- CF (Clear Lens & Non-Dimming)
- CD (Clear Lens & Dimming)
- NF (No Lens & Non-Dimming)
- ND (No Lens & Dimming)

**7 - Controls**

- OS (Occupancy Sensor)
- PRGOS-LS ([Sensorswitch LSXR-ADC-3v Occ Sensor w/ Dimming Photocell](#))
- PRGOS-LR ([IRTEC LRD509 Programmable Occ Sensor w/ Remote Control](#))
- PRGOS-FS ([Wattstopper FSP211 Programmable Occ Sensor w/ Remote Control/ Integral and J-Box](#))

**8 - Options**

- EM5W (Battery Backup, 5 Watts, ~650 lumens)<sup>2</sup>
- EM10W (Battery Backup, 10 Watts, ~1300 lumens)<sup>2</sup>
- EM5WT20 (Title 20 Compliant Battery Backup, 5 Watts, ~650 lumens)<sup>2</sup>
- EM10WT20 (Title 20 Compliant Battery Backup, 10 Watts, ~1300 lumens)<sup>2</sup>
- 480SD (480 Step-Down)
- 10GL ([10' Loop w/ Gripple Hanging Kit](#))<sup>3</sup>
- PLG (6' SJT Cord & Plug)
- NCH (No Channel)<sup>4</sup>
- CC (Custom Channel)<sup>5</sup>
- BAA (Buy American Act Compliant)

**Notes**

- 1 Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.
- 2 Lumens will change based on fixture selection. Consult with factory for additional options.
- 3 Hanging kit is manufactured by Gripple Inc.
- 4 Channel cover width is 4.25"
- 5 Consult factory

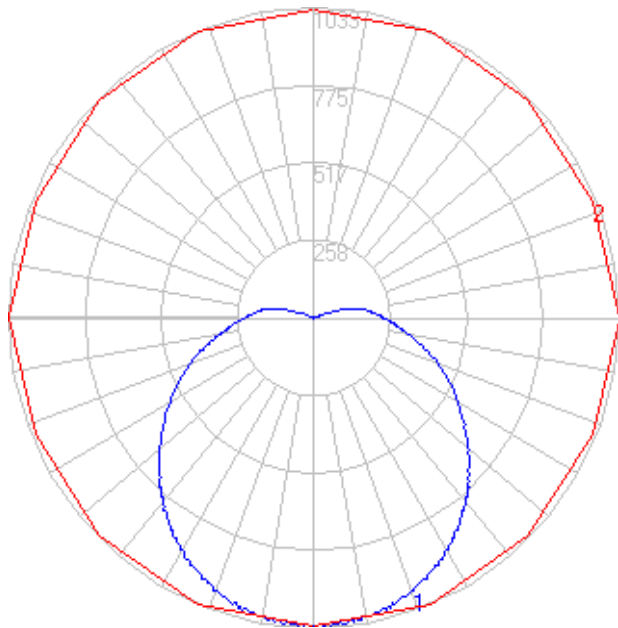
## Photometric Data

L85-48EX-125-N1-40K Tested in accordance to IESNA LM-79

### Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-10	97.14	2.77%
10-20	278.58	7.94%
20-30	423.04	12.05%
30-40	511.98	14.59%
40-50	537.54	15.32%
50-60	503.48	14.34%
60-70	425.88	12.13%
70-80	322.26	9.18%
80-90	213.76	6.09%
90-100	137.07	3.90%
100-110	56.19	1.60%
110-120	2.18	0.06%

### Polar Graph



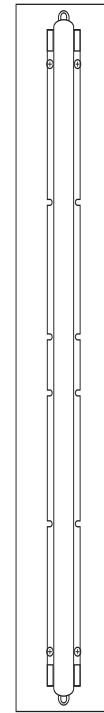
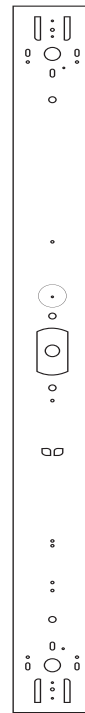
## Physical Characteristics

### Dimensions

Version	Depth	Length	Width	Weight
2FT	1.87"	24.0"	4.37"	3lbs
3FT	1.87"	36.0"	4.37"	4lbs
4FT	1.87"	48.0"	4.37"	6lbs
8FT	1.87"	96.0"	4.37"	12lbs

### Bottom View

### Top View



### End View

### Side View

