

Date:	Project:	Type:	Notes:	Catalog #:
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EX SERIES LED Retrofit (Extrusion)

The EX Series Universal Retrofit Kit, dramatically enhances existing fixture efficiencies creating substantial energy savings. An excellent alternative to standard retrofit designs.



Features & Specifications

Applications

Ideal for retrofitting, strips, troffers, vaportites and wraparounds.

Construction

Module kits, no lamp sockets needed. Magnet on the back for easy installation. Aluminum backing for heat-sink, independent to fixtures.

Electrical

Utilizes high-efficiency LED power supply and circuit boards. 120-277V. 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 Recognized component. Adheres to LM79, LM80 and TM21 industry standards. DesignLights Consortium® (DLC) qualified¹. RoHS Compliant.

Performance Data

Length	Configuration	Tested Wattage	Delivered Lumens	Efficacy	CRI
2FT	109-N1	10.5W	1,155 LM	110 LPW	>80
2FT	209-N1	20.4W	2,244 LM	110 LPW	>80
2FT	209-H1	24.3W	2,677 LM	110 LPW	>80
2FT	309-N1	29.5W	3,245 LM	110 LPW	>80
2FT	309-H1	36.6W	4,024 LM	110 LPW	>80
2FT	409-N1	48.4W	5,324 LM	110 LPW	>80
3FT	112-N1	15.5W	1,729 LM	111 LPW	>80
3FT	212-N1	28.8W	3,075 LM	106 LPW	>80
3FT	212-H1	34.1W	3,751 LM	110 LPW	>80
3FT	312-N1	40.7W	4,477 LM	110 LPW	>80
3FT	412-N1	57.6W	6,150 LM	106 LPW	>80
3FT	412-H1	68.1W	7,381 LM	108 LPW	>80
4FT	113-N1	18.0W	1,900 LM	114 LPW	>80
4FT	213-N1	29.9W	3,465 LM	115 LPW	>80
4FT	213-H1	37.5W	4,323 LM	115 LPW	>80
4FT	313-N1	50.0W	5,500 LM	110 LPW	>80
4FT	413-N1	52.2W	6,002 LM	114 LPW	>80
4FT	413-H1	66.3W	7,621 LM	114 LPW	>80
4FT	125-N1	27.2W	3,680 LM	135 LPW	>80
4FT	225-N1	54.2W	7,360 LM	135 LPW	>80
4FT	155-N1	59.2W	6,968 LM	117 LPW	>80
4FT	255-N2	118.4W	13,936 LM	117 LPW	>80



EX					
1	2	3	4	5	6
1 - Series	2 - Length in Feet	3 - Configuration		4 - Color Temp (CCT)	5 - Kit
EX	02 (2' Extrusion Strip)	109-N1 (1) 2' Light Engine, (1) Driver, Normal Mode 209-N1 (2) 2' Light Engine, (1) Driver, Normal Mode 209-H1 (2) 2' Light Engine, (1) Driver, High Mode 309-N1 (3) 2' Light Engine, (1) Driver, Normal Mode 309-H1 (3) 2' Light Engine, (1) Driver, High Mode 409-N1 (4) 2' Light Engine, (1) Driver, Normal Mode		30K (3000 Kelvin Temp) 35K (3500 Kelvin Temp) 40K (4000 Kelvin Temp) 50K (5000 Kelvin Temp)	U (Universal)
	03 (3' Extrusion Strip)	112-N1 (1) 3' Light Engine, (1) Driver, Normal Mode 212-N1 (2) 3' Light Engine, (1) Driver, Normal Mode 212-H1 (2) 3' Light Engine, (1) Driver, High Mode 312-N1 (3) 3' Light Engine, (1) Driver, Normal Mode 412-N1 (4) 3' Light Engine, (1) Driver, Normal Mode 412-H1 (4) 3' Light Engine, (1) Driver, High Mode			
	04 (4' Extrusion Strip)	113-N1 (1) 4' Light Engine, (1) Driver, Normal Mode 213-N1 (2) 4' Light Engine, (1) Driver, Normal Mode 213-H1 (2) 4' Light Engine, (1) Driver, High Mode 313-N1 (3) 4' Light Engine, (1) Driver, Normal Mode 413-N1 (4) 4' Light Engine, (1) Driver, Normal Mode 413-H1 (4) 4' Light Engine, (1) Driver, High Mode 125-N1 (1) 4' Light Engine, (1) Driver, Normal Mode 225-N1 (2) 4' Light Engine, (1) Driver, Normal Mode 155-N1 (1) 4' Light Engine, (1) Driver, Normal Mode 255-N2 (2) 4' Light Engine, (2) 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)

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/ to confirm which versions are qualified.

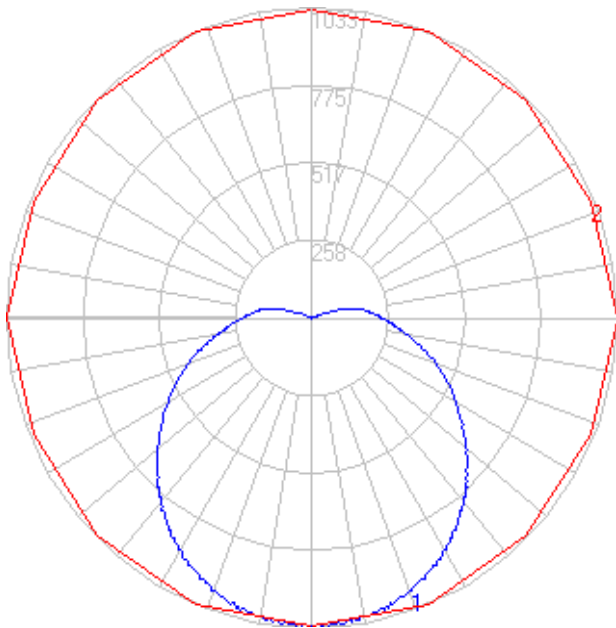
Photometric Data

EX04-125-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

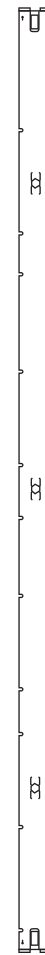
Dimensions

Version	Depth	Length	Width
2FT	0.87"	22.30"	1.50"
3FT	0.87"	33.30"	1.50"
4FT	0.87"	44.30"	1.50"

Top View



Bottom View



Side View



End View

