







LF8ML LENS

8" LED Lensed Downlight 120V–277V · 0-10V Dimming · NSF2

LiteFrame LF8ML is a 8" specification grade LED lensed downlight that utilizes high efficiency LEDs to obtain color consistency, energy savings, and low maintenance costs. 50,000 hours minimum life up to 35°C (95°F) in open plenum applications.

SPECIFICATIONS

Housing: One-piece 22 gauge non-corrosive steel platform. Pre-wired j-box with snap-on cover for easy access. Snap-in- connection from driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling and can be upgraded to accommodate technology improvements. Approve for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

Reflector: High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. Painted white self-trim (WT) available as option.

LED Light Engine: The LF8ML uses the Philips Fortimo DLM LED Module. This module provides controlled color consistency (3 SDCM) from fixture to fixture. The system is designed for optimal life and lumen maintenance (>50,000 hours at 70% lumen maintenance). Both reflector and light engine assembly are mechanically retained to housing.

LED Driver: The LF8ML utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the 50,000 hour minimum life expectancy of the system. Meets UL Class 2, inherent short circuit protection, self limited, overload protected. If critical temperatures are reached on driver or LED module, integrated thermal feedback loop will gradually reduce current to protect system life. Optional Lutron Series A driver is also available.

Dimming: Comes standard with 0-10V dimming capability. Flicker-free dimming to 10%. 0-10V control may consume up to 1mA. 0-10V, Lutron 2 wire and EcoSystem dimming available to 1% and DMX with RDM (remote device management) dimming to less than 0.1%.

Catalog Number	
Comments	Туре

LiteFrame



Installation: Adjustable Bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 11/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6).

Certifications: CSA certified to US and Canadian safety standards. Suitable for wet locations. Approved for through wiring. Non-IC rated. UL approved for NSF2 splash zone applications.

Warranty: 5 year warranty. See www.prescolite.com for details.

ORDERING GUIDE Order housing, reflector, and accessories separately.

EXAMPLE: LF8ML-8LFML30L35K8CL

0.0000000000000000000000000000000000000	Order nousing, reflector, and accessorie	s separatery.	EARITE	E: LF8ML-8LFML3UL35K8CL
HOUSING DRIVER OPTION	VOLTAGE TRIM OPTION APERTURE	CRI REF. COLOR OPTIONS	TRIM LENS	ACCESSORIES
LF8ML Standard 0-10V Medium 10% Dimming Lumen 0-10V DM1 10% dimming 120-277V D-10V EDM2.3 Hi-Lume 1% EcoSystem LED Driver 2DM2.3 Hi-Lume 1% 2-wire LED Driver (120V only) DMX2.3 DMX with RDM dimming to <0.1%	Standard 120V-277V 120 Semi-Diffuse Clear Alzak Reflector wir 3000 Lumer Module HOUSING OPTIONS 277 277V Lutron Vive Enabled, 0-10V, 120-277V Lutron Vive Enabled, 0-10V, 350K 3000 Kelvin 30K 3000 Kelvin 35K 3500 Kelvin 40K 4000 Kelvin NXWE4,11 NX Wireless Enabled NXE4,11 NX Enabled, Dual SmartPorts EMR ² Emergency Battery Pack with remote test switch and indicator light	b CG Champagne	Black Non- conductive trim Baffled	Set of two 24" bar hangers for T-bar ceilings B6 Set of two (2) bar hangers for ceiling joist up to 24" centers LFSC8 8" Reflector screw cover SCA8D Sloped ceiling adapter (see note on back page) LiteGear Inverter, single phase central lighting, 125VA-250VA



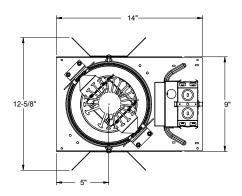


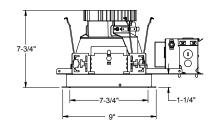
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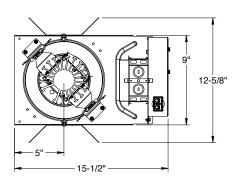
DIMENSIONS

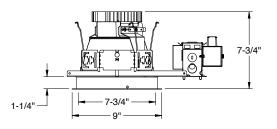
Ceiling Cutout: 8 ¼"
Maximum Ceiling Thickness: 1¼"
For conversion to millimeters, multiply inches by 25.4
Not to Scale





LF8ML LENS NX(W)E





NOTES: When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.







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PHOTOMETRY

DRIVER DATA	8LFML30L
Input Voltage	120V-277V
Input Frequency	60 Hz
Input Current	0.273A (120V)
	0.118A (277V)
Input Power	32.7W
Power Factor	≥0.90
THD	<20%
EMI Filtering	FCC 47CFR
	Part 15, Class A
Operating Temperature	-20°C to 35°C
Dimming	0-10V

Over-voltage, over-current, short-circuit protected

Lumen Multiplier Table

Photometrics published below are for the 3000K, 80 CRI. This table may be used to approximate the lumen values at different Kelvin temperatures and CRI.

4000 Kelvin	1.07
3500 Kelvin	1.00
3000 Kelvin	1.00
2700 Kelvin	0.95

80 CRI.....1.00 90 CRI......0.91

LF8ML-8LFML30L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 32.7W Fixture Delivered Lumens: 3165 Fixture Efficacy: 97 Spacing Criteria: 1.1

50 100 15° 30°

Test No. 18.00445-03

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY								
ZONE	%LUMINAIRE							
0-30	1349	43						
0-40	2088	66						
0-60	2929	93						
0-90	3164	100						

LUMINANCE DATA I	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	31770
55°	19324
65°	12411
75°	7647
85°	2271

			CANDELA	DISTRIBUTION
		—90°	DEG	CANDELA
			0	1685
		75°	5	1688
			15	1682
00			25	1562
		60°	35	1191
			45	684
00			55	338
00		× _{45°}	65	160
		45	75	60
			85	6
00			90	0
	0 450 000			

₽					94	6 Effe	ctive	Ceili	ng C	avity	Refle	ectan	ce				
Cavity		8	0			7	0			50			30			10	
					20	0% E	ffecti	ve Fl	oor C	avity	Refl	ectan	ice				
Room							96	Wal	Refl	ectar	108						
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72
4	89	80	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	50
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36

Dimming Compatibility Table

Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DVTV	http://bit.ly/11jSvZg
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAl
2DM	Lutron	http://bit.ly/1S4WjXK



^{*}Power consumption and photometric output may vary slightly with various driver and CRI options.



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DMX

See instruction sheet on www.prescolite.com for connection & installation information. Other useful links: http://www.eldoled.com/led-drivers/powerdrive/50-watt/ac-561s/

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

NX Distrubuted Intelligence: NX DISTRIBUTED INTELLIGENCE

Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.

See separate NX™ Solutions Guide for additional details.

See Hubbell Controls Solution NX Brochure.

