

8" LED Downlight LF8ML

120V - 277V 0-10V Dimming

APPLICATIONS:

LiteFrame LF8ML is a 8" specification grade LED open 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.

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 optional 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. Driver is universal 120V-277V. 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%.

INSTALLATION:

Adjustable Bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" 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. EM and EMR are damp rated use only. ENERGY STAR qualified with open clear Alzak reflector. UL approved for NSF2 splash zone applications.

WARRANTY:

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

DATE:	TYPE:	
FIRM NAME:		

LiteFrame



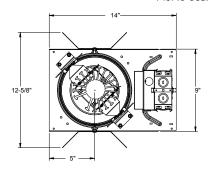
PROJECT:

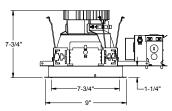
Ceiling Cutout: 8½"

Maximum Ceiling Thickness 1½"

For conversion to millimeters,
multiply inches by 25.4

Not to Scale





See page 3 for EM/EMR, LV(E) and NX(W)E line art

CATALOG NUMBER: EXAMPLE: LF8ML-8LFML30L35K8WT

Order housing, reflector, and accessories separately

HOUSING	DRIVER OPTION	VOLTAGE OPTION	HOUSING OPTIONS	1	TRIM APERTURE		CRI		f. color Ptions	EFLECTOR OPTIONS	-	ACCESSORIES
D LF8ML Medium Lume 0-10V 10% dimming 120-277V	Standard 0-10V n 10% Dimming DM1* 0-10V dimming at 1%, 120-277V EDM1.7 Hi-Lume 1% EcoSystem LED Driv 2DM1.7 Hi-Lume 1% 2-wire LED Driver (120V only) DMX1.7 DMX with RDM dimming to <0.1%	Standard 120V-277V 120 120 120V 277 277V 347 347V	Lutron Vive Enabled, 0-10\ 120-277V LVE (EDM Only) Lutron Vive Enabled, EcoSystem NXWE3.9,10 NX Wireless Enabled NXE3.9,10 NX Enabled, Dual SmartPorts	/,	2700 Kelvin 30K 3000 Kelvin	RE (C) Sto Se	90+ CRI EF. FINISH DPTIONS andard mi-Diffuse SP Specular SS Semi- Specular MFC	Cle	andard ear Alzak CG Champagne Gold Alzak GD Gold Alzak BL Black Alzak WE Wheat Alzak LW Light Wheat Alzak PW	Pre-punched reflector for integral test TRIM OPTIONS		Set of two 24" bar hangers for T-bar ceilings 86 Set of two (2) bar hangers fo ceiling joist up to 24" centers LFSC8 8" Reflector screw cover SCA8D Sloped ceiling adapter (see note on back page)
 Clear Alza Not availal EM option See Centra links on pc For DM1, c Voltage mu 	ole with 347V k standard. Consult factor ole with EM, EMR, DMX, L required on both housing I Inverter compatibility not	V or LVE and trim e and web 20 or 277 2DM and DMX	EM1.4 Emergency Battery Pack with integral test switch and indicator light EMR1 Emergency Battery Pack with remote test switch and indicator light		40K 4000 Kelvin		American Matte™ V Kurt Versen Specular VS Kurt Versen Softglow* VSS Kurt Versen	<u> </u>	Pewter Alzak WH Painted Matte White Reflector and Flange BC Painted Black Reflector and Flange	Flange Only		LiteGear⁵ Inverter, single phase central lighting, 125VA-250VA



⁸ LV requires standard dimming or DM1
 Not available with EM or EMR
 ¹⁰ Not available with EDM, 2DM or DMX

PHOTOMETRIC DATA

LiteFrame - 8" LF8ML Downlight

DRIVER DATA	8LFML30L	
Input Voltage	120V/277V	<u>Lumen Multiplier Table</u>
Input Frequency	60 Hz	Photometrics published below are for the 3000K, 80 CRI.
Input Current	0.273A (120V)	This table may be used to approximate the lumen values at
	0.118A (277V)	different Kelvin temperatures and CRI.
Input Power	32.7W	·
Power Factor	≥0.90	4000 Kelvin 1.07
THD	<20%	3500 Kelvin 1.00
EMI Filtering	FCC 47CFR	3000 Kelvin 1.00
	Part 15, Class A	2700 Kelvin 0.95
Operating Temperature	-20°C to 35°C	
Dimming	0-10V	80 CRI1.00
Over-voltage, over-curre	nt, short-circuit protected	90 CRI0.91
*Power consumption an	d photometric output may vary slightly with various driver and CRI options.	

Delivered Lumens

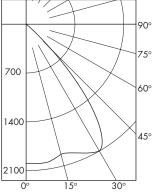
The table below shows the delivered lumens for the various lumen outputs.

Output	CRI	Lens	Delivered Lumens	Input Watts	Lumens Per Watt	Full Catalog String
30L	80	Open	3271	32.7	100	LF8ML-8LFML30L30K8

LF8ML-8LFML30L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 16.0W Fixture Delivered Lumens: 1322

Fixture Efficacy: 83 Spacing Criteria: 1.1



CANDELA	DISTRIBUTIO
DEG	CANDELA
0	1994
5	2004
15	1932
25	2038
35	1863
45	510
55	18
65	4
<i>7</i> 5	1
85	0
90	0

Test No. 18.00453

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

ZONAL LUMEN SUMMARY											
ZONE	LUMENS	%LUMINAIRE									
0-30	1688	51.6									
0-40	2807	85.8									
0-60	3266	99.8									
0-90	3271	100.0									
90-180	0	0.0									
0-180	3271	100.0									

SQ. METER	A III CAINDLLA
Angle in Vertical	Average
45°	23699
55°	1031
65°	311
75°	127
85°	0

I HAINIANCE DATA IN CANDELA /

Ę					. 7			Celli	ng C	avity	Hetie	ctan					
0 0		8	Ю				0			50			30			10	
m Ca Ratio					20	9% E	ffecti	ve Fk	oor C	avity	Refle	ectan	Ce				
Room Cavity Ratio							96	Wall	Refl	ectan	ce						
ž	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43

NOTES:

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







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

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

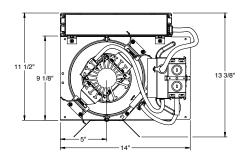
LPS Series: www.dual-lite.com/products/lps

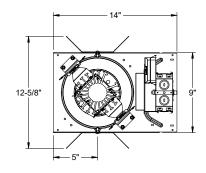
NX Distrubuted Intelligence: NX DISTRIBUTED INTELLIGENCE

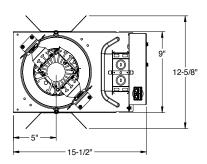
Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.

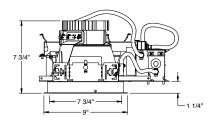
See separate NX™ Solutions Guide for additional details.

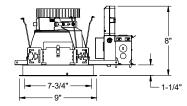
See Hubbell Controls Solution NX Brochure.

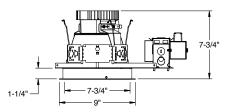












LF8ML EM/EMR

LF8ML LV(E)

LF8ML NX(W)E



