8" LED Downlight
LF8ML LENS
120V-277V
0-10V Dimming

LiteFrame®

Ceiling Cutout: 8¼"
Maximum Ceiling Thickness 1¼"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:
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.

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. 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. UL approved for NSF2 splash zone applications.

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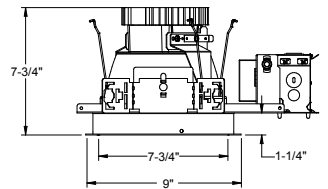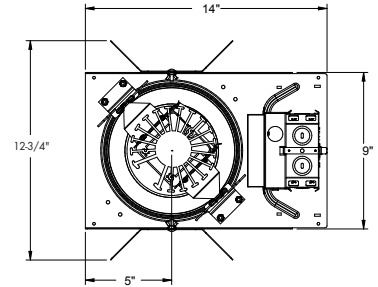5 year warranty. See www.prescolite.com for details.

See page 3 for NX(W)E line art.

CATALOG NUMBER: _____   EXAMPLE: LF8ML-8LFML30L35K8CL

Order housing, reflector, and accessories separately

HOUSING	DRIVER OPTION	VOLTAGE OPTION		TRIM APERTURE	REF. FINISH OPTIONS	REF. COLOR OPTIONS	TRIM OPTIONS	LENS		ACCESSORIES
☐ **LF8ML** Medium Lumen 0-10V 10% dimming 120-277V	*Standard 0-10V 10% Dimming* ☐ **DM1**[1] 0-10V dimming at 1%	*Standard 120V-277V* ☐ **120** 120V ☐ **277** 277V		☐ **8LFML30L** Semi-Diffuse Clear Alzak Reflector with 3000 Lumen Module	☐ **8** 80+ CRI ☐ **9** 90+ CRI	*Standard Clear Alzak* ☐ **CG** Champagne Gold Alzak	☐ **WT** Painted White Flange Only	☐ **CL** Clear Lens (Regressed Standard)	-	☐ **B24** Set of two 24" bar hangers for T-bar ceilings
	☐ **EDM**[2,3] Hi-Lume 1% EcoSystem LED Driver	**HOUSING OPTIONS**		**KELVIN**	**REF. FINISH OPTIONS**	☐ **GD** Gold Alzak	☐ **TRG** Trim Ring Gasket	☐ **DL** Diffuse Lens (Regressed Standard)		☐ **B6** Set of two (2) bar hangers for ceiling joist up to 24" centers
	☐ **2DM**[2,3] Hi-Lume 1% 2-wire LED Driver (120V only)	☐ **LV**[9] Lutron Vive Enabled, 0-10V, 120-277V		☐ **27K** 2700 Kelvin	*Standard Semi-Diffuse* ☐ **SP** Specular	☐ **BL** Black Alzak ☐ **WE** Wheat Alzak	☐ **WF**[8] Wide Flange			☐ **LFSC8** 8" Reflector screw cover
	☐ **DMX**[2,3] DMX with RDM dimming to <0.1%	☐ **LVE (EDM Only)** Lutron Vive Enabled, EcoSystem		☐ **30K** 3000 Kelvin	☐ **SS** Semi-Specular	☐ **LW** Light Wheat Alzak	☐ **BNCT**[7,10] Black Non-conductive trim			☐ **SCA8D** Sloped ceiling adapter (see note on back page)
		☐ **NXWE**[4,11] NX Wireless Enabled		☐ **35K** 3500 Kelvin	☐ **MFC** American Matte™	☐ **PW** Pewter Alzak	☐ **WNCT**[7,10] White Non-conductive trim			☐ **LiteGear**[6] Inverter, single phase central lighting, 125VA-250VA
		☐ **NXE**[4,11] NX Enabled, Dual SmartPorts		☐ **40K** 4000 Kelvin	☐ **V** Kurt Versen Specular	☐ **WH** Painted Matte White Reflector and Flange	☐ **BNCTB**[7,10] Black Non-conductive trim Baffled			☐ **LPS Series**[6] LitePower micro-inverter, 20VA-55VA
		☐ **EMR**[2] Emergency Battery Pack with remote test switch and indicator light		☐ **50K** 5000 Kelvin	☐ **VS** Kurt Versen Softglow® ☐ **VSS** Kurt Versen SoftSheen™	☐ **BC** Painted Black Reflector and Flange	☐ **WNCTB**[7,10] White Non-conductive trim Baffled			

Notes:
1. For DM1, do not specify voltage if 120V or 277V
2. Not available with 347V
3. Voltage must be specified with EDM, 2DM, DMX or EMR
4. Not available with LV, LVE or EMR
5. Not available with DMX
6. See Central Inverter compatibility note and web links on page 3
7. Not available with color/finish options. Semi-Diffuse finish only.
8. Not available with BNCT, WNCT, BNCTB, or WNCTB.
9. LV requires standard dimming or DM1
10. Must select CL or DL
11. Not available with EDM, 2DM or DMX

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Web: **www.prescolite.com** • Tech Support: **(888) 777-4832**

LFR-LED-051

PHOTOMETRIC DATA

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

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

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

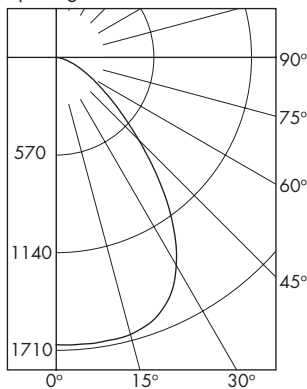|	
80 CRI	1.00
90 CRI	0.91

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	3264	32.7	100	LF8ML-8LFML30L30K8CL
30L	80	Open	3165	32.7	97	LF8ML-8LFML30L30K8DL

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

CANDELA DISTRIBUTION	
DEG	CANDELA
0	1685
5	1688
15	1682
25	1562
35	1191
45	684
55	338
65	160
75	60
85	6
90	0

Test No. 18.00445-03
Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1349	43
0-40	2088	66
0-60	2929	93
0-90	3164	100
90-180	0	0
0-180	3164	100

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	31770
55°	19324
65°	12411
75°	7647
85°	2271

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance														
	80				70				50			30		10	
	20% Effective Floor Cavity Reflectance														
	% Wall Reflectance														
	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	52
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

LF8ML-8LFML30L30K8DL   Test No. 18.00445-03

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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.

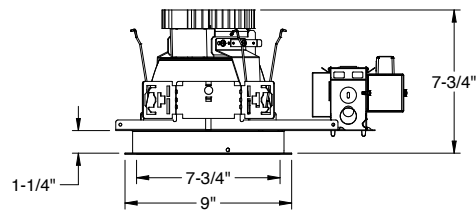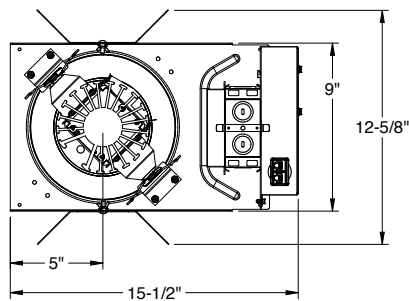**LiteGear:** www.dual-lite.com/products/litegear_lg_series
LPS Series: www.dual-lite.com/products/lps

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 LENS NX(W)E

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