











6MLLENS

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

LiteFrame LF6ML is a 6" 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. Approved 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 an option.

LED Light Engine: The LF6ML 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 LF6ML utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the 50,000 hours 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.

Catalog Number	
Comments	Туре

LiteFrame



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 (not with CP option). 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. UL approved for NSF2 splash zone applications.

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

ODDEDING GLIDE Order housing reflector and accessories separately

EXAMPLE: I F6MI-6I FMI 30I 35K8CI

ORDE	RING GUIDE	Order housing, reflector, and acces	sories separately.		EXAMPLE: LF6ML-6LFML30L35K8CL
HOUSING	DRIVER OPTION	VOLTAGE TRIM APERTURE	CRI REF. CO		LENS - ACCESSORIES
LF6ML Medium Lumen 0-10V 10% dimming 120-277V	0-10V dimming at 1% 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 GLFML30L 120V-277V Semi-Diffuse 120V Reflector with 277 3000 Lumen Module HOUSING OPTIONS KELVIN Cp2,4,5,16,17 27K Chicago Plenum 2700 Lutron Vive 30K Enabled, 0-10V, 120-277V LVE (EDM Only) 35K Only 35K Standard 40K Lutron Vive 40K NXWE14,15,16,17 50K NXKE14,15,16,17 50K NXKE14,15,16,17 50K NXKE14,15,16,17 50K Semi-Diffuse Advi 4000 Kelvin 50K Semi-Diffuse Advi 4000 Clear Alzak Advi 4000 Kelvin Semi-Diffuse Advi 4000 Clear Alzak Clear Alzak Advi 4000 Clear Alzak Clear Alzak Advi 4000 Clear Alzak Clear Alz	Go REF. FINISH OPTIONS Bla Standard Semi-Diffuse SSP Specular SSemi-Specular MFC American Matte™ V Kurt Versen Specular VS Kurt Versen Softglow Pa	Jazak	Standard Standard DL8
		NX Enabled, Dual SmartPorts SmartPorts EMR ² Emergency Battery Pack with remote test switch and indicator light	Kurt Versen Fla SoftSheen"	nige 1 For DMI, do not specifi 120 or 277 2 Not available with 34 3 Voltage must be specified by a proper specified with CP hou as standard 5 Not available with DN 6 See Central Inverter and web links on paid in the CP and the	9 Not available with color/finish of Semi-Diffuse finish only. 10 Not available with BNCT, WNCT BNCTB, or WNCTB. 11 Not available with FLU 12 LV requires standard dimming of Must select CL or DL 13 Not available with CP option 14 Not available with EDM, 2DM or compatibility note age 4







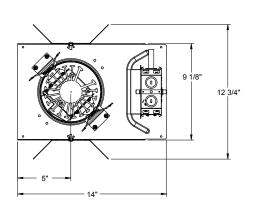


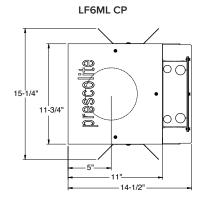
LF6ML LENS

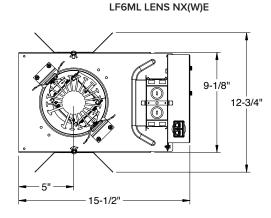
6" LED Lensed Downlight 120V–277V · 0-10V Dimming · NSF2

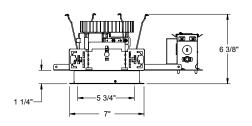
DIMENSIONS

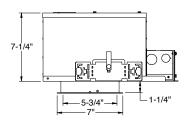
Ceiling Cutout: 6 ¼"
Maximum Ceiling Thickness: 1¼"
For conversion to millimeters, multiply inches by 25.4
Not to Scale

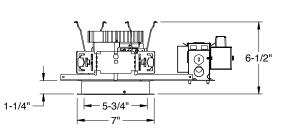












NOTES: When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, max. of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.







120V-277V · 0-10V Dimming · NSF2

PHOTOMETRY

DRIVER DATA	6LFML30L
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

LF6ML-6LFML30L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 32.7W Fixture Delivered Lumens: 3061

Fixture Efficacy: 94					
Spacin	g Criteria: 1.4				
590					

ZONAL LUMEN SUMMARY							
ZONE	LUMENS	%LUMINAIRE					
0-30	1305	42.6					
0-40	2020	66.0					
0-60	2866	93.6					
0-90	3062	100.0					

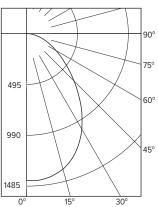
LUMINANCE DATA IN	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	58610
55°	34893
65°	19373
75°	10545
85°	0

		000
		90°
		75°
590		60°
1180		45°
1770 0°	15° 30°	
	.5 50	

CANDELA	DISTRIBUTION
DEG	CANDELA
0	1668
5	1670
15	1637
25	1497
35	1154
45	695
55	336
65	137
75	46
85	0
90	0

\$. 9	6 Effe	ctive	Ceili	ng C	avity	Refie	ctan	ce				
Cavity		8	30			7	0			50		1	30		1	10	
m Ca		20% Effective Floor Cavity Reflectance															
Room	% Wall Reflectance																
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39
10	60	49	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36

LF6ML6LFML30L30K8FLUDL LED Light Engine: 3000K, 80 CRI System Wattage: 32.7W Fixture Delivered Lumens: 2977 Fixture Efficacy: 91 Spacing Criteria: 1.4



CANDELA DISTRIBUTION

Test No. 18.00420-01

Tested at 25°C Ambient

in accordance to IESNA

LM-79-2008

CANDELA	DISTRIBUTIO
DEG	CANDELA
0	1432
5	1432
15	1367
25	1196
35	937
45	653
55	421
65	257
75	133
85	41
90	0

ZONAL LUMEN SUMMARY								
ZONE	LUMENS	%LUMINAIRE						
0-30	1068	35.9						
0-40	1652	55.5						
0-60	2536	85.2						
0-90	2978	100.0						

LUMINANCE DATA	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	60199
55°	47855
65°	39595
75°	33461
85°	30315

2	% Effective Ceiling Cavity Reflectance																
Cavity		8	ю		70			50			30			10			
		20% Effective Floor Cavity Reflectance															
Room		% Wall Reflectance															
æ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31





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



LF6ML LENS

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

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.

 $\textbf{LiteGear:} \ \underline{www.dual\text{-lite.com/products/litegear_lg_series}$

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

NX Distributed 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.

