

## **APPLICATIONS:**

LiteFrame LF6ML is a 6" 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. Prewired j-box with snap-on cover for easy access. Snapin- 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 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 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:**

Medium Lumen 10% Dimming

The LF6ML utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the

### CATALOG NUMBER:

HOUSING

0-10V 10%

dimming

120-277V

LF6ML

Order housing, reflector, and accessories separately DRIVER

OPTION

0-10V dimming

Hi-Lume 1%

Driver

2DM<sup>1,7</sup>

EcoSystem LED

Standard 0-10V

DM16

6" LED Open Downlight LF6ML 120V - 277V 0-10V Dimming

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.

## 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 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:

FIRM NAME

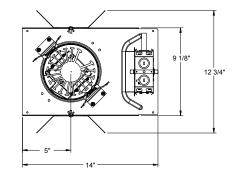
PROJECT:

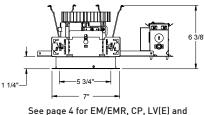
# liteFrame



Ceiling Cutout: 61/4" Maximum Ceiling Thickness 1 1/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale

TYPF







## EXAMPLE: LF6ML-6LFML30L35K8WT

# REFLECTOR

coating on clear Ălzak reflector only

- reflector
- Black Alzak switch

  - WT Painted White
    - TRG
    - Gasket
    - Wide Flange
- BC
  - Painted Black
  - Flange

### □ **B24**<sup>3</sup> Set of two 24" bar hangers for T-bar ceilings

B6<sup>3</sup> Set of two (2) bar hangers for ceiling joist up to 24" centers LFSC6

ACCESSORIES

- 6" Reflector screw cover SCA6
- Sloped ceiling adapter (see note on back page)
- Signos6

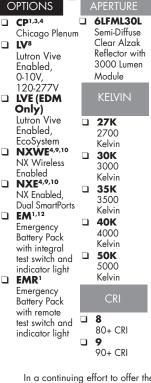
Architectural glass elements. Refer to specification sheets ARCH-SIG-001 and -003

- □ LiteGear<sup>5</sup> Inverter, single phase central lighting, 125VA-250VA
- LPS Series<sup>5</sup> LitePower micro-inverter, 20VA-55VA

## 11 Not available with EM

- <sup>12</sup> EM option required on both housing and trim
- <sup>13</sup> Only available in 90+ CRI





90+ CRI
In a continuing effort to offer the best product possible we reserve the right to change, without
notice, specifications or materials that in our opinion will not alter the function of the product.

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

REF. COLOR **OPTIONS** Antimicrobial Champagne

## Gold Alzak □ **EM**<sup>1,12</sup> Gold Alzak

Pre-punched for integral

WE Wheat Alzak

LW Light Wheat

Alzak 

Flange Only

Trim Ring

WF

Flange

Reflector and

- - VS VSS Kurt Versen

at 1%, 120-277V 277 277 0-10V, 347 347V 

П

HOUSING

Hi-Lume 1%2-wire LED Driver (120V

VOLTAGE

OPTION

Standard

120V-277

120

120V

- only) DMX<sup>1,7</sup>
- DMX with RDM dimming to <0.1%
- Notes: Not available with 347V
- <sup>2</sup> Clear Alzak standard. Consult factory for other colors
- <sup>3</sup> Bar hanger accessory should be selected with CP
- housing, not included as standard <sup>4</sup> Not available with EM, EMR, DMX , LV or LVE.
- <sup>5</sup> See Central Inverter compatibility note and web links on page 3
- <sup>6</sup> For DM1, do not specify a voltage if 120 or 277
- <sup>7</sup> Voltage must be specified with EDM, 2DM, and DMX
- <sup>8</sup> LV requires standard dimming or DM1
- <sup>9</sup> Not available with CP option
- <sup>10</sup> Not available with EDM, 2DM, or DMX

## Battery Pack

- Semi-Specular MFC American

**BEAM ANGLE** 

**OPTIONS** 

Standard Reflector

Nominal 4.5° cutoff

Nominal 35°

□ FL35<sup>11</sup>

cutoff

Standard

SP

SS

Semi-Diffuse

ref. finish

**OPTIONS** 

Specular

- Matte™
- ν Kurt Versen
  - Specular
  - Kurt Versen Softglow<sup>®</sup>

SoftSheen™

PW Pewter Alzak WH Painted Matte White Reflector and

Standard

GD

BL

Clear Alzak

# PHOTOMETRIC DATA

DRIVER DATA	6LFML30L	
Input Voltage	120V-277V	Lumen Multiplier Table
Input Frequency	50/60 Hz	Photometrics published below are for the 3000K, 80 CRI.
Input Current	0.105A (120V)	This table may be used to approximate the lumen values at
	0.045A (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	2700 Kelvili 0.93
Dimming	0-10V	
Over-voltage, over-curre	nt, short-circuit protected	80 CRI1.00
0	d photometric output may vary slightly with various driver and CRI options	s. 90 CRI0.91

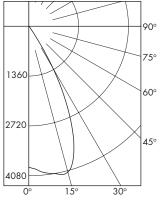
## **Delivered Lumens**

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

Output	CRI	Lens	Distribution	Delivered Lumens	Input Watts	Lumens Per Watt	Full Catalog String
30L	80	Open		3268	32.7	100	LF6ML-6LFML30L30K8
30L	80	Open	FL35	2942	32.7	90	LF6ML-6LFML30L30K8FL35
30L	90	Open		2522	36.1	70	LF6ML-6LFML30L30K9
30L	90	Open	FL35	2271	36.1	63	LF6ML-6LFML30L30K9FL35

## LF6ML-6LFML30L30K8FL35

LED Light Engine: 3000K, 80 CRI System Wattage:32.7W Fixture Delivered Lumens: 2942 Fixture Efficacy: 90 Spacing Criteria: 0.8



Test No. 17.00114-01 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

**CANDELA DISTRIBUTION** 

CANDELA

3847

3989

4122

2579

250

17

4

1

0

0

0

DEG

0

5

15

25

35

45

55

65

75

85

90

ZONAL LU	MEN SUMM	ARY	LUMINANCE DAT	A IN CANDELA/
ZONE	lumens	%LUMINAIRE	SQ. METER	
0-30	2658	90.4	Angle in Vertical	Average
0-40	2914	99.1	45°	1304
0-60	2940	100.0	55°	371
0-90	2942	100.0	65°	168
90-180	0	0.0	75°	0
0-180	2942	100.0	85°	0

¥					%	Effe	ctive	Ceil	ing C	avity	Ref	ectar	nce				
ð.e		80	%			70	%		1	50%		:	30%			10%	
- 6					20	% E	fecti	ve Fi	oor C	avity	Ref	lecta	nce				
Ēď		% Wall Reflectance															
Noo Noo	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74
7	88	80	75	81	87	80	75	71	78	74	71	77	73	70	76	73	70
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66
9	81	73	68	64	80	72	67	64	71	67	64	71	66	64	70	66	63
10	78	69	64	61	77	69	64	61	68	64	61	68	63	60	67	63	43



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# PHOTOMETRIC DATA

## LiteFrame - 6" LF6ML Downlight

LF6ML-6LFML30L30K8			ZONAL L		MARY	LUMINANCE DAT	A IN CANDELA/
LED Light Engine: 3000K, 80 CRI System Wattage:32.7W			ZONE	LUMENS	%LUMINAIRE	SQ. METER	
Fixture Delivered Lumens: 3268			0-30	1594	48.8	Angle in Vertical	Average
Fixture Efficacy: 100			0-40	2589	79.2	45°	69474
Spacing Criteria: 1.3			0-60	3264	99.9	55°	2706
	CANE	DELA DISTRIBUTION	0-90	3268	100.0	65°	424
90°	DEG	CANDELA	90-180	0	0.0	75°	231
	0	1938	0-180	3268	100.0	85°	0
75°	5	1945					
650	15	1952					
	25	1856	COEFFICIE	NTS OF UTILIZA	TION ZONAL CAVI	TY METHOD	
60°	35	1620	Aix		tive Ceiling Cavity Reflectance	1	
	45	823	Room Cavity Ratio	80 70 20% Eff	50 30 ective Floor Cavity Reflectance	10	
300	55	26	00 TO 50	30 10 70 50 3	% Wall Reflectance 0 10 50 30 10 50 30	10 50 30 10	
	65	3	1 113 1	0 107 104 110 107 1	05 103 103 101 100 100 98	97 96 95 94 97 96 97 95	
	75	1	3 100 9	2 87 82 98 91	86 81 88 84 80 86 82	79 83 80 77	
	85	0	4 93 8 5 88 7	5 78 73 91 83 8 71 66 86 77	78 73 81 76 72 79 75 71 66 75 69 65 73 68	71 77 73 70 65 72 67 64	
950	90	0	6 82 7	2 65 60 80 71	64 60 69 64 59 68 63	59 66 62 58	
	/0	v	8 72 6	1 54 50 71 61	54 50 60 54 49 58 53	49 57 52 49	
0° 15° 30°			9 68 5 10 64 5	7 50 46 67 56 3 46 42 63 53	50 45 55 49 45 54 49 46 42 52 46 42 51 45	45 53 49 45 42 50 45 41	
Test No. 18.00270			LF6ML-6LFM	L30L30K8	the first set of the first set	est No. 18.00270	

## Test No. 18.00270

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

## **Dimming Compatibility Table**

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

## 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

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 <u>NX<sup>™</sup> Solutions Guide</u> for additional details.

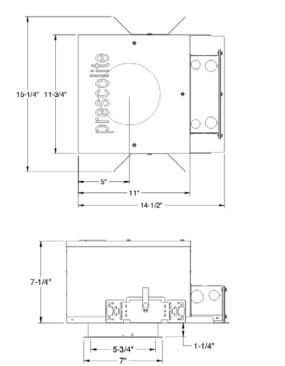
See Hubbell Controls Solution NX Brochure.



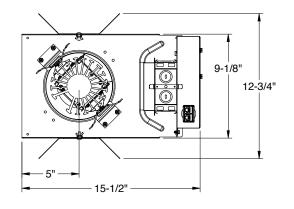
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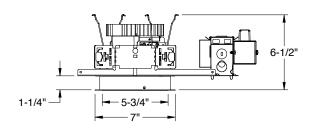
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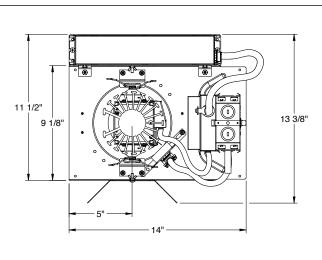


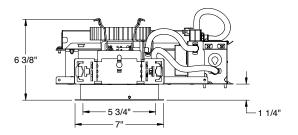




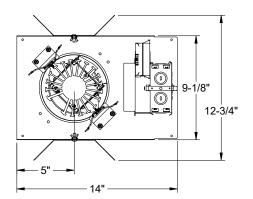


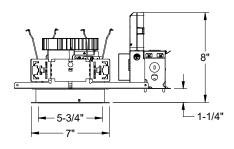
LF6ML NX(W)E





LF6ML EM/EMR





LF6ML LV(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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