

6" Square Open LED Downlight LF6SQML

120V - 277V 0-10V Dimming

APPLICATIONS:

LiteFrame LF6SQML 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. 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 upper reflector. Self-trim standard. Painted white self-trim (WT) available as option. Reflector is made from anodized Alanod Miro 4 aluminum

LED LIGHT ENGINE:

The LF6SQML 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 LF6SQML 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 (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). Housing provides up to 6° rotational adjustment of the square trim.

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. UL approved for NSF2 non-food zone applications. ENERGY STAR qualified with open clear Alzak reflector.

WARRANTY:

remote test switch

and indicator

5 year warranty. See www.prescolite.com for

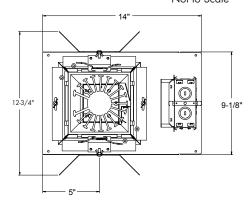
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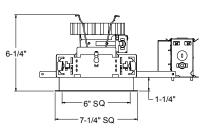
PROJECT:

teFrame



Ceiling Cutout: 6-3/4"x 6-3/4" Maximum Ceiling Thickness 11/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale





See page 3 for EM/EMR, NX(W)E and **CP lineart**

EXAMPLE: LF6SQML-6SQML30L40K8CG

Not available with EDM, 2DM or DMX

EM option required on both housing and trim.

Not available with LV or LVE.

CATALOG NUMBER:

Order housing, reflector, and accessories separately

DRIVER VOLTAGE HOUSING REF. COLOR **REFLECTOR** KELVIN **ACCESSORIES** HOUSING APERTURE **OPTIONS OPTIONS OPTIONS OPTIONS OPTIONS CP**^{2,3,9,11} □ LF6SQML ☐ 6SQML30L **B24**³ Standard 0-10V Standard □ 27K Standard ■ EM^{2,10} Set of two 24" bar hangers for T-bar Standard 10% Dimming 120V-277V Chicago Plenum Semi-Diffuse Clear Alzak Pre-punched 2700 Kelvin CG **120** LV⁶ reflector for 120V-277V □ DM1¹ Clear Alzak **30K** ceilings Champagne Lutron Vive integral test 0-10V dimming 0-10V 120V Reflector with 3000 Kelvin **B6**³ Enabled, 0-10V, Gold Alzak dimming at 277 Set of two (2) bar at 10% 3000 Lumen 35K 120-277 BL hangers for ceiling joist up to 24" 277V Module 3500 Kelvin □ LVE (EDM Black Alzak ☐ EDM2,5 347 Only) Lutron Vive **40K** WE Hi-Lume centers 347V Wheat Alzak 4000 Kelvin 1% LiteGear4 EcoSystem Enabled, **50K** \Box IW Inverter, single phase EcoSystem **NXWE**^{7,8,9,11} LED Driver Light Wheat central lighting, 125VA-250VA 5000 Kelvin 2DM^{2,5} Alzak NX Wireless Hi-Lume **PW** LPS Series⁴ CRI Enabled 1% 2-wire LitePower micro-Pewter Alzak NXE^{7,8,9,11} LED Driver inverter, 20VA-55VA WH NX Enabled, Dual 8 (120V Painted SmartPorts **EM**^{2,10} 80+ CRI only) Notes: Matte White □ DMX^{2,5,7} 9 For DM1, do not specify a voltage if 120 or 277 Reflector and DMX 90+ CRI Not available with 347V Emergency Flange Bar hanger accessory should be selected with CP housing, not included as standard See Central Inverter compatibility note and web links with RDM Battery Pack BC dimming to with integral <0.1% test switch and Painted on page 2 indicator light Black Voltage must be specified if EDM, 2DM or DMX EMR^2 Reflector LV requires standard dimming or DM1 Emergency and Flange Not available with CP option Battery Pack with



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.

LiteFrame - 6" LF6SQML Downlight

DRIVER DATA	6SQML30L
Input Voltage	120V-277V
Input Frequency	60 Hz
Input Current	0.272A (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
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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	

Delivered Lumens

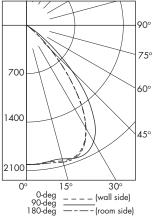
The table below shows the delivered lumens for the various lumen outputs.

Output	CRI	Lens	Delivered Lumens	Input Watts	Lumens Per Watt	Full Catalog String
30L	80	Open	3273	32.7	100	lf6sqml-6sqml30l30k8
30L	90	Open	2686	36.0	75	lf6SQML6SQML30L30K9

LF6SQML-6SQML30L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 32.7W Fixture Delivered Lumens: 3273





CANDELA DISTRIBUTION

DEG	0	45	90
0	2012	2012	2012
5	2008	2013	2018
15	2030	2000	2048
25	1930	2041	1948
35	1356	1720	1369
45	490	921	496
55	41	198	42
65	19	17	19
<i>7</i> 5	3	5	3
85	1	1	1
90	0	0	0

lest 140. 16.003/9			
Tested at 25°C Ambient in	accordance to	IESNA	LM-79-2008

LUMINANCE DA	TA IN CANDE	LA/SQ. METER	1
Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	29836	56080	30201
55°	3078	14863	3153
65°	1936	1 <i>7</i> 32	1936
75°	499	832	499
85°	494	494	494

₹					9	Effe	ctive	Ceili	ng C	avity	Refle	ectan	ce				
Cavity		8	0			7	0			50			30			10	
m Ca Ratio			7		20	196 E	ffecti	ve Fl	oor C	avity	Refle	ectan	ce				
Room							96	Wall	Refl	ectan	ce						
č	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85
3	100	92	86	82	97	91	85	81	88	83	80	85	82	79	83	80	77
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42





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

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

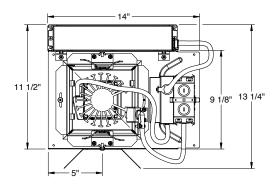
LPS Series: www.dual-lite.com/products/lps

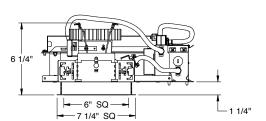
NX Distrubuted Intelligence: NX DISTRIBUTED INTELLIGENCE

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.

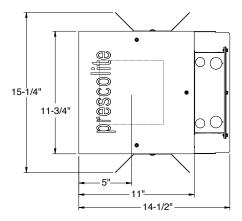
See separate NX™ Solutions Guide for additional details.

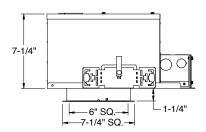
See Hubbell Controls Solution NX Brochure.





LF6SQML EM/EMR





LF6SQML CP



