6" Square Open LED Downlight
LF6SQML
120V - 277V
0-10V Dimming

LiteFrame®

ENERGY STAR

Ceiling Cutout: 6-3/4"x 6-3/4"
Maximum Ceiling Thickness 1¼"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:
LiteFrame LF6SQML is a 6" specification grade LED open downlight that utilizes remote phosphor technology to obtain color consistency, energy savings, and low maintenance costs. 50,000 hours minimum life up to 35℃ (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. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90℃ 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 Gen 5 LED Module with remote phosphor technology. This technology 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. The light engine comes standard with 90 CRI in all Kelvin temperatures.

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

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

14"

12-3/4"

9-1/8"

5"

6-1/4"

6" SQ

7-1/4" SQ

1-1/4"
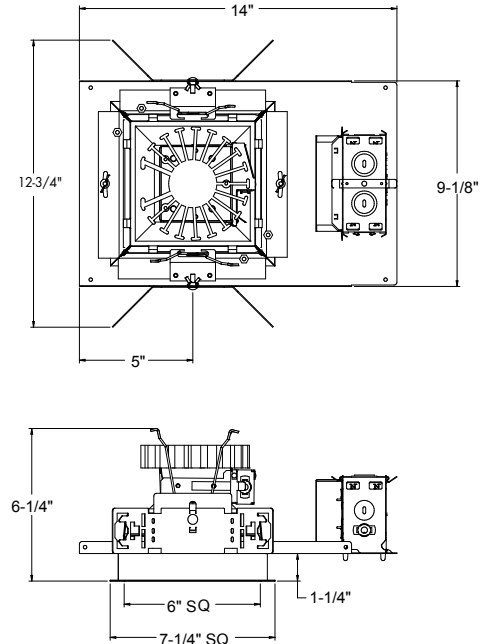
See page 3 for NX(W)E lineart

CATALOG NUMBER:

Order housing, reflector, and accessories separately

HOUSING	DRIVER OPTIONS	VOLTAGE OPTIONS	HOUSING OPTIONS	–	TRIM APERTURE	KELVIN	REF. COLOR OPTIONS	REFLECTOR OPTIONS	–	ACCESSORIES
❑ **LF6SQML** Standard 120V-277V 0-10V dimming at 10%	*Standard 0-10V 10% Dimming* ❑ **DM1**[1] 0-10V dimming at 1% ❑ **HDM**[2,5] Hi-Lume 1% 3-wire/ EcoSystem LED Driver ❑ **2DM**[2,5] Hi-Lume 1% 2-wire LED Driver (120V only) ❑ **DMX**[2,5,7] DMX with RDM dimming to <0.1%	*Standard 120V-277V* ❑ **120** 120V ❑ **277** 277V ❑ **347** 347V	❑ **CP**[2,3,9,11] Chicago Plenum ❑ **LV**[6] Lutron Vive Enabled, 0-10V, 120-277V ❑ **LVE (HDM Only)** Lutron Vive Enabled, EcoSystem ❑ **NXWE**[7,8,9,11] NX Wireless Enabled ❑ **NXE**[7,8,9,11] NX Enabled, Dual SmartPorts ❑ **EM**[2,10] Emergency Battery Pack with integral test switch and indicator light ❑ **EMR**[2] Emergency Battery Pack with remote test switch and indicator light		❑ **6SQML30L** Semi-Diffuse Clear Alzak Reflector with 3000 Lumen Module	❑ **30K** 3000 Kelvin, 90 CRI ❑ **35K** 3500 Kelvin, 90 CRI ❑ **40K** 4000 Kelvin, 90 CRI	*Standard Clear Alzak* ❑ **CG** Champagne Gold Alzak ❑ **BL** Black Alzak ❑ **WE** Wheat Alzak ❑ **LW** Light Wheat Alzak ❑ **PW** Pewter Alzak ❑ **WH** Painted Matte White Reflector and Flange ❑ **BC** Painted Black Reflector and Flange	❑ **CP**[2,3,9,11] Chicago Plenum ❑ **EM**[2,10] Pre-punched reflector for integral test		❑ **B24** Set of two 24" bar hangers for T-bar ceilings ❑ **B6** Set of two (2) bar hangers for ceiling joist up to 24" centers ❑ **LiteGear**[4] Inverter, single phase central lighting, 125VA-250VA ❑ **LPS Series**[4] LitePower micro-inverter, 20VA-55VA

Notes:
1. For DM1, do not specify a voltage if 120 or 277
2. Not available with 347V
3. CP option required on both housing and trim
4. See Central Inverter compatibility note and web links on page 2
5. Voltage must be specified if HDM, 2DM or DMX
6. LV requires standard dimming or DM1
7. Not available with CP option
8. Not available with HDM, 2DM or DMX
9. Not available with LV or LVE.
10. EM option required on both housing and trim.
11. Not available with EM or EMR.

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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**

LFR-LED-021

DRIVER DATA	LF6SQML30L 30K
Input Voltage	120V-277V
Input Frequency	60 Hz
Input Current	0.300A (120V)
	0.130A (277V)
Input Power	36W
Constant Current Output	.3-1.0A
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 consumptionand photometric output may vary slightly with HDM or 2DM option.

LF6SQML 6SQML30L30K
LED Light Engine: 3000K, 90 CRI
System Wattage: 36.0W
Fixture Delivered Lumens: 2686
Fixture Efficacy: 74.6
Spacing Criteria: 1.2

LEGEND
0-deg — — — — —
45-deg —————
90-deg — — • — • —

Test No. 17.01382
Tested at 25°C Ambient in accordance to IESNA LM-79-2008
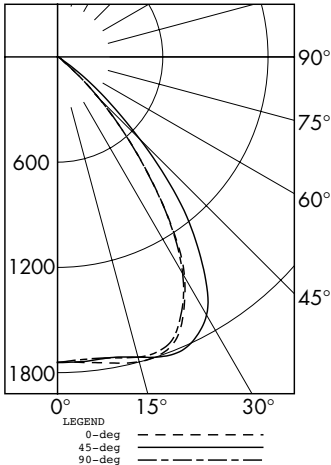
CANDELA DISTRIBUTION

DEG	0°	45°	90°
0	1742	1742	1742
5	1749	1743	1731
15	1799	1772	1772
25	1676	1800	1651
35	1078	1439	1073
45	336	663	337
55	36	102	35
65	17	14	16
75	3	4	3
85	1	1	1
90	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1456	54.2
0-40	2222	82.7
0-60	2665	99.2
0-90	2686	100.0

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71
5	88	79	72	67	87	78	72	67	76	71	66	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	64	56	77	67	60	56	66	60	56	64	59	55	63	58	55
8	74	63	56	51	72	62	56	51	61	55	51	60	55	61	59	54	51
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47
10	66	55	48	44	64	54	48	44	53	48	44	53	47	43	52	47	43

LF6SQML 6SQML30L30K   Test No. 17.01382

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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
HDM	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.

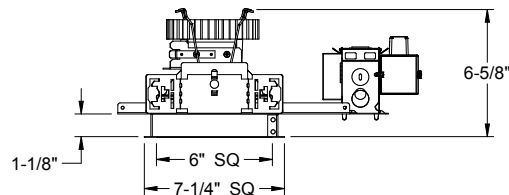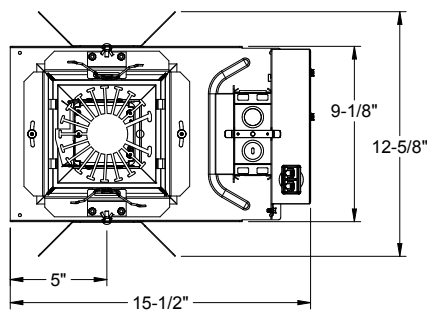**LiteGear:** www.dual-lite.com/products/litegear_lg_series
LPS Series: www.dual-lite.com/products/lps

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 NX(W)E

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