



F6SQSL LENS

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

LiteFrame LF6SQSL 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 upper reflector. Self-trim standard. Painted white self-trim (WT) available as an option. Reflector is made from anodized Alanod Miro 4 aluminum.

LED Light Engine: The LF6SQSL 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 LF6SQSL 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.

Catalog Number Туре Comments

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%.

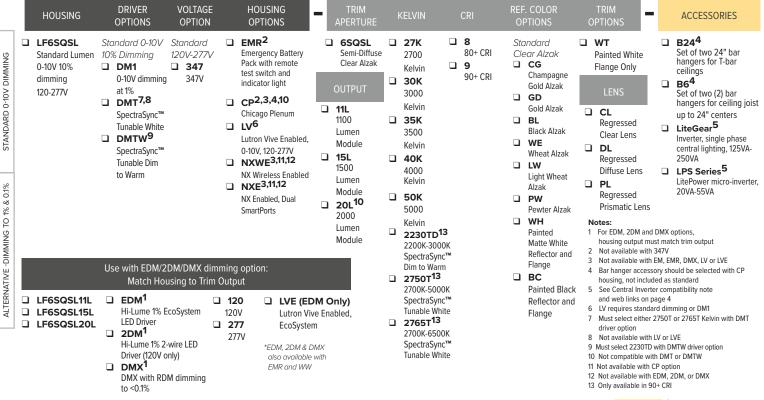
Installation: Adjustable Bar hangers included (not with CP option). Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Housing provides up to 6° rotational adjustment of the square trim.

Certifications: CSA certified to US and Canadian safety standards. Suitable for wet locations. Approved for through wiring. Non-IC rated. EMR is damp rated and for US use only. UL approved for NSF2⁵ non-food zone applications.

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

ORDERING GUIDE Order housing, reflector, and accessories separately.

EXAMPLE: LF6SQSLEMR-6SQSL11L40K8DL



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





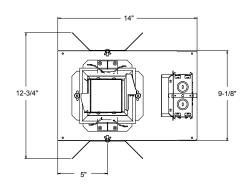


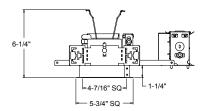
LF6SQSL LENS

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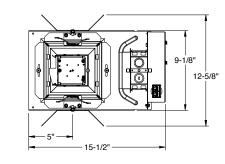
DIMENSIONS

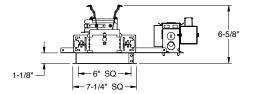
Ceiling Cutout: 6 % " x 6 % " Maximum Ceiling Thickness: 11/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale



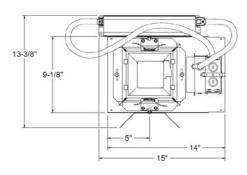


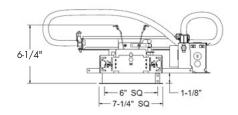
LF6SQSL LENS NX(W)E



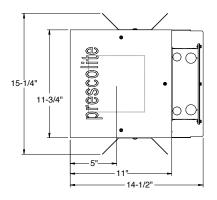


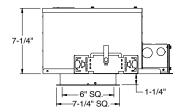
LF6SQSL EMR





LF6SQSL CP











LF6SQSL LENS

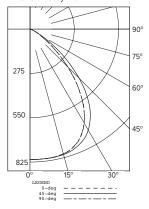
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PHOTOMETRY

DRIVER DATA	6SQSL20L	6SQSL15L	6SQSL11L
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.105A (120V)	0.133A (120V)	0.184A (120V)
	0.045A (277V)	0.058A (277V)	0.08A (277V)
Input Power	21.4W	16.2W	12.6W
Power Factor	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%
EMI Filtering	FCC 47CFR	FCC 47CFR	FCC 47CFR
	Part 15, Class A	Part 15, Class A	Part 15, Class A
Operating Temperature	-20°C to 35°C	-20°C to 35°C	20°C to 35°C
Dimming	0-10V	0-10V	0-10V

Over-voltage, over-current, short-circuit protected

LF6SQSL-6SQSL20L30KDL LED Light Engine: 3000K, 80 CRI System Wattage: 21.4W Fixture Delivered Lumens: 1498 Fixture Efficacy: 70



Test No. 18.00414-02
Tested at 25°C Ambient
in accordance to IESNA
LM-79-2008

CAN	IDELA DI	STRIBUT	ION
DEG	0°	45°	90°
0	807	807	807
5	809	809	809
15	807	809	809
25	801	806	801
35	740	768	739
45	581	653	577
55	332	431	328
65	122	175	120
75	36	34	36
85	2	5	2
90	0	0	0

ZONA	AL LUMEN S	SUMMARY		
ZONE	LUMENS	%LUMINAIRE		
0-30	650	43		
0-40	1031	69		
0-60	1455	97		
0-90	1499	100		
90-180	0	0		
0-180	1499	100		

Lumen Multiplier Table

different Kelvin temperatures and CRI.

Photometrics published below are for the 3000K, 80 CRI. This table may be used to approximate the lumen values at

4000 Kelvin

3500 Kelvin

3000 Kelvin

2700 Kelvin

80 CRI.....1.00

90 CRI......0.91

1.07

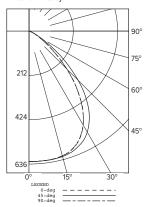
1.00

1.00

0.95

₹	% Effective Ceiling Cavity Reflectan								ce								
Cavity		8	10			7	o			50			30			10	
m Ca Ratio					20	3% E	ffecti	ve Fl	oor C	avity	Refl	ectar	ю				
Room						% Wall Reflectance											
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37

LF6SQSL-6SQSL15L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 16.4W Fixture Delivered Lumens: 1160 Fixture Efficacy: 71



Test No. 18.00414-01 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CAN	DELA DI	STRIBUT	ION
DEG	0°	45°	90°
0	625	625	625
5	627	627	627
15	620	624	620
25	573	595	572
35	450	506	447
45	257	334	254
55	94	136	93
65	28	27	28
75	1	4	1
85	0	0	0
90	0	0	0

L LUMEN S	UMMARY
LUMENS	%LUMINAIRE
503	43
798	69
1126	97
1161	100
0	0
1161	100
	503 798 1126 1161 0

≩		% Effective Ceiling Cavity Reflectance									ce						
Cavity		8	10			7	o			50			30			10	
m Ca Ratio		20% Effective Floor						oor Cavity Reflectance									
Room					7.70		.96	Wall	Refl	ectan	ce						
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	45
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	4
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	4
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37



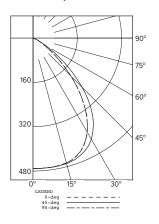
^{*}Power consumption and photometric output may vary slightly with various driver and CRI options. When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.



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LF6SQSL-6SQSL11L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 12.5W Fixture Delivered Lumens: 872 Fixture Efficacy: 70 Test No. 18.00414 Tested at 25°C Ambient in accordance to IESNA LM-79-2008



CAN	DELA DI	STRIBUT	ION
DEG	O°	45°	90°
0	470	470	470
5	471	471	471
15	466	469	466
25	431	447	430
35	338	380	336
45	193	251	191
55	71	102	70
65	21	20	21
75	1	3	1
85	0	0	0
90	0	0	0

UMENS 378	%LUMINAIRE				
378					
	43.4				
600	68.8				
847	97.1				
872	100				
0	0				
872	100				
	847 872 0				

≥		% Effective Ceiling Cavity Reflectance															
Cavity		8	10			7	0			50			30			10	
m Ca Ratio					20	3% E	ffecti	oor C	or Cavity Reflectance								
Room	% Wall Re						Refl	Reflectance									
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	45
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37

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

SpectraSync™ Color Tuning Technology: SpectraSyn©

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with two distinct SpectraSync™ Color Tuning Technology.

Dim to Warm: Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed.

(Available with 2200K-3000K).

Tunable White: Tunable White offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K).

See separate SpectraSync™ Tech Sheet for additional details.

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.



