6" Square Lensed Downlight
LF6SQSL LENS
120V–277V
0-10V Dimming

LiteFrame®

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 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.

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. 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 upper reflector. Self-trim standard with a regressed clear, prismatic, or diffused lens. Painted white self-trim (WT) available as 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 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 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.

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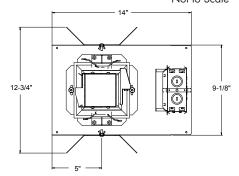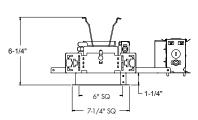
WARRANTY:
5 year warranty. See www.prescolite.com for details.

14"
12-3/4"
9-1/8"
5"

6-1/4"
6" SQ
7-1/4" SQ
1-1/4"

See page 4 for EMR, NX(W)E and CP lineart.

CATALOG NUMBER: _____   EXAMPLE: LF6SQSLEMR-6SQSL11L40K8DL

Order housing, reflector, and accessories separately

HOUSING	DRIVER OPTIONS	VOLTAGE OPTION	HOUSING OPTIONS	—	TRIM APERTURE	KELVIN	CRI	TRIM OPTIONS	LENS	—	ACCESSORIES
☐ **LF6SQSL** Standard Lumen 0-10V 10% dimming 120-277V	*Standard 0-10V 10% Dimming* ☐ **DM1** 0-10V dimming at 1% ☐ **DMT**[7,8] SpectraSync™ Tunable White ☐ **DMTW**[9] SpectraSync™ Tunable Dim to Warm	*Standard 120V-277V* ☐ **347** 347V	☐ **EMR**[2] Emergency Battery Pack with remote test switch and indicator light ☐ **CP**[2,3,4,10] Chicago Plenum ☐ **LV**[6] Lutron Vive Enabled, 0-10V, 120-277V ☐ **NXWE**[3,11,12] NX Wireless Enabled ☐ **NXE**[3,11,12] NX Enabled, Dual SmartPorts		☐ **6SQSL** Semi-Diffuse Clear Alzak **OUTPUT** ☐ **11L** 1100 Lumen Module ☐ **15L** 1500 Lumen Module ☐ **20L**[10] 2000 Lumen Module	☐ **27K** 2700 Kelvin ☐ **30K** 3000 Kelvin ☐ **35K** 3500 Kelvin ☐ **40K** 4000 Kelvin ☐ **50K** 5000 Kelvin ☐ **2230TD**[13] 2200K-3000K SpectraSync™ Dim to Warm ☐ **2750T**[13] 2700K-5000K SpectraSync™ Tunable White ☐ **2765T**[13] 2700K-6500K SpectraSync™ Tunable White	☐ **8** 80+ CRI ☐ **9** 90+ CRI **REF. COLOR OPTIONS** *Standard Clear Alzak* ☐ **CG** Champagne Gold Alzak ☐ **GD** 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	☐ **WT** Painted White Flange Only	☐ **CL** Regressed Clear Lens ☐ **DL** Regressed Diffuse Lens ☐ **PL** Regressed Prismatic Lens		☐ **B24**[4] Set of two 24" bar hangers for T-bar ceilings ☐ **B6**[4] Set of two (2) bar hangers for ceiling joist up to 24" centers ☐ **LiteGear**[5] Inverter, single phase central lighting, 125VA-250VA ☐ **LPS Series**[5] LitePower micro-inverter, 20VA-55VA

(left margin: STANDARD 0-10V DIMMING / ALTERNATIVE -DIMMING TO 1% & 0.1%)

Use with EDM/2DM/DMX dimming option: Match Housing to Trim Output

☐ LF6SQSL11L ☐ LF6SQSL15L ☐ LF6SQSL20L	☐ **EDM**[1] Hi-Lume 1% EcoSystem LED Driver ☐ **2DM**[1] Hi-Lume 1% 2-wire LED Driver (120V only) ☐ **DMX**[1] DMX with RDM dimming to <0.1%	☐ **120** 120V ☐ **277** 277V	☐ **LVE (EDM Only)** Lutron Vive Enabled, EcoSystem

*EDM, 2DM & DMX also available with EMR and VVV

Notes:
1. For EDM, 2DM and DMX options, housing output must match trim output
2. Not available with 347V
3. Not available with EM, EMR, DMX, LV or LVE
4. Bar hanger accessory should be selected with CP housing, not included as standard
5. See Central Inverter compatibility note and web links on page 3
6. LV requires standard dimming or DM1
7. Must select either 2750T or 2765T Kelvin with DMT driver option
8. Not available with LV or LVE
9. Must select 2230TD with DMTW driver option
10. Not compatible with DMT or DMTW
11. Not available with CP option
12. Not available with EDM, 2DM, or DMX
13. Only available in 90+ CRI

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A Division of Hubbell Lighting, Inc.

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-018

PHOTOMETRIC DATA

LiteFrame - 6" LF6SQSL Downlight

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

*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.

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

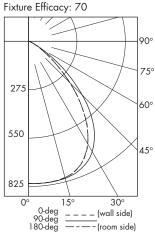|	
80 CRI	1.00
90 CRI	0.91

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
11L	80	CL	1014	12.5	81	LF6SQSL-6SQSL11L30K8CL
15L	80	CL	1349	16.4	82	LF6SQSL-6SQSL15L30K8CL
20L	80	CL	1742	21.4	81	LF6SQSL-6SQSL20L30K8CL
11L	80	DL	872	12.5	70	LF6SQSL-6SQSL11L30K8DL
15L	80	DL	1160	16.4	71	LF6SQSL-6SQSL15L30K8DL
20L	80	DL	1498	21.4	70	LF6SQSL-6SQSL20L30K8DL
11L	80	PL	906	12.4	73	LF6SQSL-6SQSL11L30K8PL
15L	80	PL	1206	16.4	74	LF6SQSL-6SQSL15L30K8PL
20L	80	PL	1557	21.4	73	LF6SQSL-6SQSL20L30K8PL

LF6SQSL-6SQSL20L30K8DL

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

CANDELA DISTRIBUTION

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

0-deg — — — — (wall side)
90-deg
180-deg — — — — (room side)

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

ZONAL LUMEN 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

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	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-6SQSL20L30K8DL   Test No. 18.00414-02

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HUBBELL Lighting
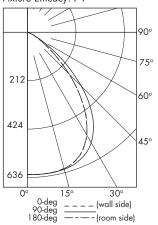
LF6SQSL-6SQSL15L30K8DL

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

0-deg ———— (wall side)
90-deg – – – –
180-deg ———— (room side)

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

CANDELA DISTRIBUTION

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	503	43
0-40	798	69
0-60	1126	97
0-90	1161	100
90-180	0	0
0-180	1161	100

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	
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   Test No. 18.00414-01

LF6SQSL-6SQSL11L30K8DL

LED Light Engine: 3000K, 80 CRI
System Wattage: 12.5W
Fixture Delivered Lumens: 872
Fixture Efficacy: 70

0-deg ———— (wall side)
90-deg – – – –
180-deg ———— (room side)

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

CANDELA DISTRIBUTION

DEG	0	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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	378	43.4
0-40	600	68.8
0-60	847	97.1
0-90	872	100
90-180	0	0
0-180	872	100

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	
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-6SQSL11L30K8DL   Test No. 18.00414

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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
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:

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).
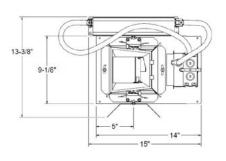
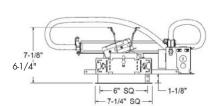See separate SpectraSync™ Tech Sheet for additional details.
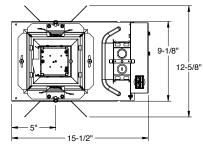
NX Distrubuted Intelligence:

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.
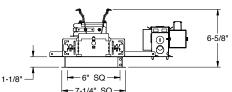
See separate NX™ Solutions Guide for additional details.

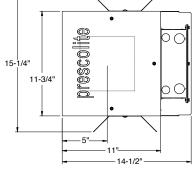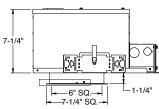See Hubbell Controls Solution NX Brochure.

LF6SQSL EMR

LF6SQSL LENS NX(W)E

LF6SQSL CP