

6" LED Downlight LF6SL LENS

120V-277V
High Efficacy
0-10V Dimming

APPLICATIONS:

LiteFrame LF6SL is a 6" specification grade LED lensed downlight that utilizes remote phosphor technology 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 reflector. Self-trim standard.

IP65 AND VR:

IP65 and vandal-resistant (VR) options are made of 16GA cold rolled steel stampings and come standard with a clear high impact polycarbonate lens. Each option uses self tapping stainless steel screws painted to match the white trim color standard; tamper-resistant screws are used on the VR option only. The IP65 rated option is completely sealed without the use of silicone on standard non-porous ceiling surfaces.

LED LIGHT ENGINE:

The LF6SL 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 optimal 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 LF6SL 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. 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).

CERTIFICATIONS:

CSA certified to US and Canadian safety standards. Suitable for wet locations. Approved for through wiring. Non-IC rated. EMR is damp rated use only.

WARRANTY:

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

DATE:

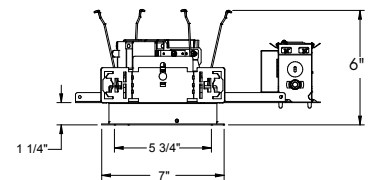
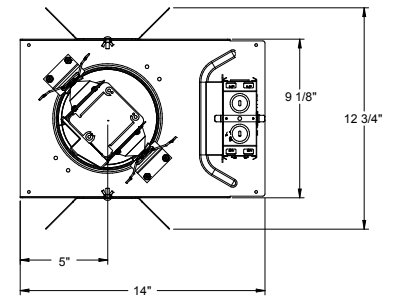
TYPE:

FIRM NAME:

PROJECT:

LiteFrame®

Ceiling Cutout: 6-1/4"
Maximum Ceiling Thickness 1 1/4"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale



See page 4 for EMR, CP and
NX(W/E) line art.

EXAMPLE: LF6SLDM1 6LFS15L35KW7

CATALOG NUMBER:

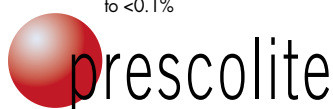
Order housing, reflector, and accessories separately

HOUSING	DRIVER OPTION	HOUSING OPTIONS	TRIM APERTURE	KELVIN	REF. FINISH OPTION	REF. COLOR OPTIONS	TRIM OPTIONS	LENS	ACCESSORIES
☐ LF6SL Standard Lumen 0-10V 10% dimming 120-277V	☐ Standard 0-10V 10% Dimming ☐ DM1 0-10V dimming at 1% ☐ DMT^{14,15} SpectraSync™ Tunable White ☐ DMTW¹⁶ SpectraSync™ Tunable Dim to Warm VOLTAGE OPTION Standard 120V-277V ☐ 347 347V	☐ EMR² Emergency Battery Pack with remote test switch and indicator light ☐ CP^{2,3,4,5,15,17} Chicago Plenum ☐ LV¹² Lutron Vive Enabled, 0-10V, 120-277V ☐ NXWE^{3,15,18,19} NX Wireless Enabled ☐ NXE^{3,15,18,19} NX Enabled, Dual SmartPorts	☐ 6LFSL Semi-Diffuse Clear Alzak OUTPUT ☐ 11L 1100 Lumen Module ☐ 15L 1500 Lumen Module ☐ 20L¹⁷ 2000 Lumen Module	☐ 30K 3000 Kelvin, 90 CRI ☐ 35K 3500 Kelvin, 90 CRI ☐ 40K 4000 Kelvin, 90 CRI ☐ 2230TD 2200K-3000K SpectraSync™ Dim to Warm ☐ 2750T 2700K-5000K SpectraSync™ Tunable White ☐ 2765T 2700K-6500K SpectraSync™ Tunable White	☐ SP Specular ☐ SS Semi-Specular ☐ MFC American Matte™ ☐ V Kurt Versen Specular ☐ VS Kurt Versen Softglow® ☐ VSS Kurt Versen SoftSheen™ ☐ BC Painted Black Reflector and Flange	☐ 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 REFLECTOR OPTIONS ☐ CP^{2,3,4,5,15,17} Chicago Plenum ☐ FLU^{9,10} Flush Mount (Brushed Aluminum Flange Standard) ☐ IP65^{7,10,11} Flush Lens, Dust and Water Tight to IP65 ☐ VR^{7,10,11} Vandal Resistant	☐ WT Painted White Trim Gasket ☐ TRG Trim Ring Gasket ☐ WF¹⁰ Wide Flange ☐ BNCT^{9,13} Black Non-conductive Trim ☐ WNCT^{9,13} White Non-conductive Trim ☐ BNCTB^{9,13} Black Non-conductive Trim Baffled ☐ WNCTB^{9,13} White Non-conductive Trim Baffled	☐ CL⁸ Clear Lens (Regressed Standard) ☐ DL⁸ Diffuse Lens (Regressed Standard) NOTES: ¹ For HDM, 2DM and DMX options, housing output must match trim output ² Not available with 347V ³ Not available with EMR ⁴ CP option must be selected on both housing and trim ⁵ Not available with DMX ⁶ See Central Inverter compatibility note and web links on page 2 ⁷ IP65 and VR can not be chosen together ⁸ Not available with IP65 or VR ⁹ Not available with color/finish options. Semi-Diffuse finish only. ¹⁰ Not available with BNCT, WNCT, BNCTB, or WNCTB. ¹¹ Not available with FLU ¹² LV requires standard dimming or DM1 ¹³ Must select CL or DL ¹⁴ Must select either 2750T or 2765T Kelvin with DMT driver option ¹⁵ Not available with LV or LVE ¹⁶ Must select 2230TD with DMTW driver option ¹⁷ Not compatible with DMT or DMTW ¹⁸ Not available with CP option ¹⁹ Not available with HDM, 2DM or DMX	☐ 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 ☐ LFSC6 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 ☐ LiteGear⁶ Inverter, single phase central lighting, 125VA-250VA ☐ LPS Series⁶ LitePower micro-inverter, 20VA-55VA

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

- | | | | |
|--|--|--|--|
| ☐ LF6SL11L
☐ LF6SL15L
☐ LF6SL20L | ☐ HDM¹
Hi-Lume 1% 3-wire/EcoSystem LED Driver
☐ 2DM¹
Hi-Lume 1% 2-wire LED Driver (120V only)
☐ DMX¹
DMX with RDM dimming to <0.1% | ☐ 120
120V
☐ 277
277V | ☐ LVE (HDM Only)
Lutron Vive Enabled, EcoSystem |
|--|--|--|--|

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



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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.
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LFR-LED-038

PHOTOMETRIC DATA

LiteFrame - 6" LF6SL Lens

DRIVER DATA	LF6SL20L 30K	LF6SL15L 30K	LF6SL11L 30K
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.209A (120V) 0.091 (277V)	0.158A (120V) 0.068A (277V)	0.116A (120V) 0.050A (277V)
Input Power	25.1W	19.1W	13.9W
Constant Current Output	200-1000mA	200-1000mA	200-1000mA
Power Factor	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A	FCC 47CFR 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

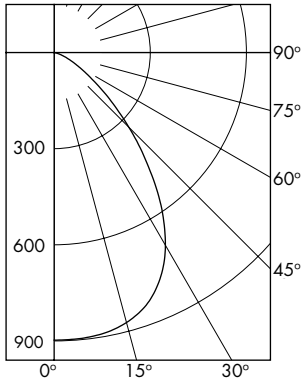
Over-voltage, over-current, short-circuit protected

*Power consumption and photometric output may vary slightly with HDM or 2DM driver.

When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.

LF6SL 6LFSL20L30KDL

LED Light Engine: 3000K, 90CRI
System Wattage: 25.1W
Fixture Delivered Lumens: 1504
Fixture Efficacy: 60.2
Spacing Criteria: 1.1



Test No. 17.01420

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

CANDELA DISTRIBUTION

DEG	CANDELA
0	898
5	896
15	872
25	781
35	581
45	330
55	144
65	53
75	12
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	688	45.8
0-40	1048	69.7
0-60	1436	95.5
0-90	1504	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	30406
55°	16339
65°	8128
75°	2949
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

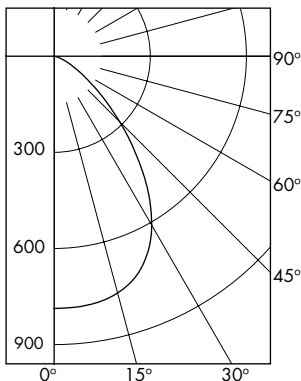
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	20% Effective Floor Cavity Reflectance																			
	% Wall Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82			
3	97	89	83	78	95	88	82	77	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	62	83	73	67	61	71	65	61	70	64	60	68	63	60			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38			

LF6SL 6LFSL20L30KDL

Test No. 17.01420

LF6SL 6LFSL15L30KDL

LED Light Engine: 3000K, 90CRI
System Wattage: 19.1W
Fixture Delivered Lumens: 1319
Fixture Efficacy: 69.4
Spacing Criteria: 1.1



Test No. 17.01421

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

CANDELA DISTRIBUTION

DEG	CANDELA
0	787
5	786
15	765
25	685
35	510
45	289
55	126
65	46
75	10
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	603	45.8
0-40	919	69.7
0-60	1259	95.5
0-90	1319	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	21651
55°	10768
65°	4763
75°	1387
85°	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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82			
3	97	89	83	78	95	88	82	77	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	62	83	73	67	61	71	65	61	70	64	60	68	63	60			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38			

LF6SL 6LFSL15L30KDL

Test No. 17.01421



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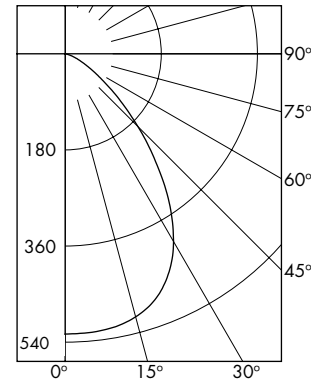
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PHOTOMETRIC DATA

LiteFrame - 6" LF6SL Lens

LF6SL 6LFS111L30KDL

LED Light Engine: 3000K, 90CRI
System Wattage: 13.9W
Fixture Delivered Lumens: 879
Fixture Efficacy: 62.8
Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	525
5	524
15	510
25	456
35	340
45	193
55	84
65	31
75	7
85	0
90	0

Test No. 17.01422

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	402	45.8
0-40	613	69.7
0-60	839	95.5
0-90	879	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average
45°	17776
55°	9552
65°	4752
75°	1724
85°	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			
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92
2	105	98	93	89	102	97	92	88	93	89	86	87	87	84	87	85	82
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74
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7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38

L6F6L 6LF5L1130KDL

Test No. 17.01422

LF6SL 6LFS111L30KDL

Test No. 17.01422

Dimming Compatibility Table

Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DDTV	http://bit.ly/11jSvZg
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
HDM	Lutron	http://bit.ly/1vtjHA1
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: SpectraSync™

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 Distributed 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](#).

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.

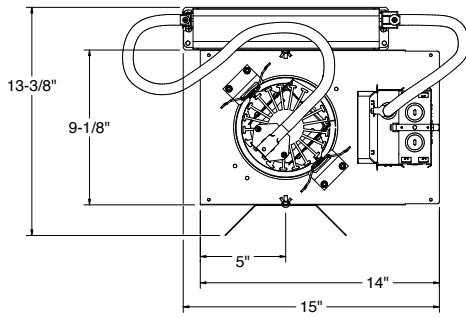


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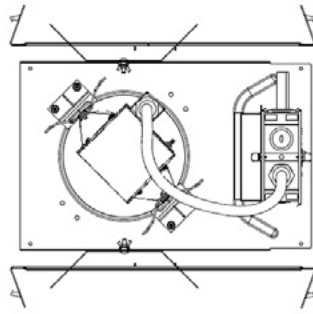


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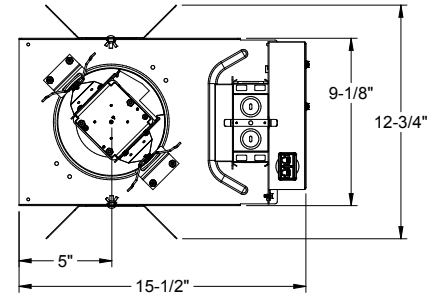
LiteFrame - 6" LF6SL Lens



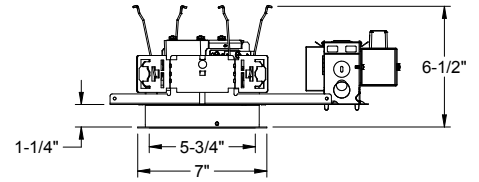
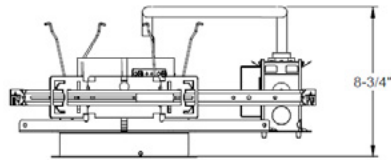
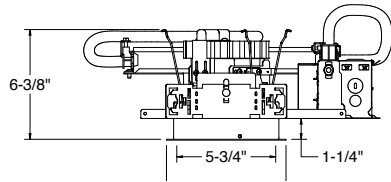
LF6SL EMR



LF6SL CP



LF6SL LENS NX(W)E



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