











F6SL LENS

120V-277V · 0-10V Dimming · NSF2

LiteFrame LF6SL 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 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; tamperresistant 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 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 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 hours 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	
Comments	Туре

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 11/2" 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 -IP65 rated. Approved for through wiring. Non-IC rated. EMR is damp rated use only. UL approved for NSF2 splash zone applications.

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

ORDERING GUIDE Order housing, reflector, and accessories separately.

STANDARD 0-10V DIMMING

ALTERNATIVE DIMMING TO 1% & 0.1%

EXAMPLE: I F6SI DM1-6I FSI 15I 35K8WT

ONDENING GOID	Order housing, reflector, and accessories se	paratery.	EAA	WIFLE: LF65LDWIF6LF5LI5L35K6WI
HOUSING DRIVER OPTION	HOUSING TRIM OPTIONS APERTURE	KELVIN CRI	REF. COLOR TRIM OPTIONS OPTIONS	LENS - ACCESSORIES
	277V EcoSystem *EDM, 2DM & DMX	SpectraSync™ Dim to Warm 2750T20 2700K-5000K SpectraSync™ Tunable White 2765T20 2700K-6500K SpectraSync™ Tunable White SpectraSync™ Tunable White Vs Kurt Versen Softglow VSS Kurt Versen SoftSheen™	Standard WT Clear Alzak Painted Whit Flange Only Champagne TRG Gold Alzak WF10 BL Wide Flange Black Alzak BNCT9,13 Black Non- conductive Trim Light Wheat WNCT9,13 Alzak WNCT9,13 Alzak WNCT9,13 Black Non- conductive Trim PW Pewter Alzak BNCTB,13 Painted BNCTB,13 Black Non- conductive Trim PRINTER,13 Black Non- conductive Trim Black Non- conductive Trim Black Non- conductive Trim Baffled Flange WNCTB,13 Black Non- conductive Trim Baffled Trim Baffled Flange WNCTB,13 Black Non- conductive Trim Baffled Flange Only Flush Mount (Brushed Aluminum Flange Standard) IP65,710,11 Flush Lens, Dust and Water Tight to IP65 VR,710,11 Vandal Resistant	(Regressed Standard) DL8 DIffuse Lens (Regressed Standard) Set of two (2) bar hangers for ceiling joist up to 24" centers ceiling joist up to 24" centers LFSC6 6" Reflector screw cover SCA6 Sloped ceiling adapter (see note on back page) LiteGear Inverter, single phase central lighting, 125VA-250VA LPS Series6 LitePower micro-inverter, 20VA-55VA NOTES: NOTES: For EDM, 2DM and DMX options, housing







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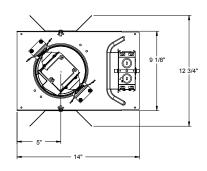
DIMENSIONS

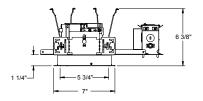
Ceiling Cutout: 6 ¼"

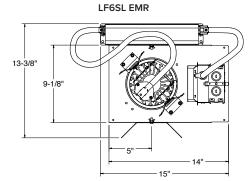
Maximum Ceiling Thickness: 1¼"

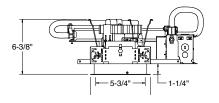
For conversion to millimeters, multiply inches by 25.4

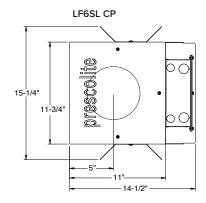
Not to Scale

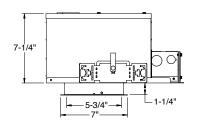




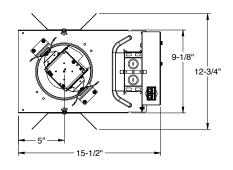


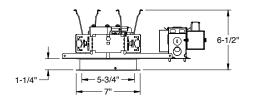






LF6SL LENS NX(W)E









120V-277V · 0-10V Dimming · NSF2

PHOTOMETRY

DRIVER DATA	6LFSL20L	6LFSL15L	6LFSL11L
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.184A (120V)	0.133A (120V)	0.105A (120V)
	0.08 (277V)	0.058A (277V)	0.045A (277V)
Input Power	22.1W	16.0W	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

Test No. 17.01419

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

LF6SL-6LFSL20L30K8DL LED Lie Syster Fixture Fixture Spacin

350

700

1050

00

	CANDELA DISTRIBUTION
ng Criteria: 1.2	
e Efficacy: 82	
e Delivered Lumens: 1806	LM-79-2008
m Wattage: 22.1W	in accordance to IESNA
ight Engine: 3000K, 80CRI	Tested at 25°C Ambient

90°

75°

60°

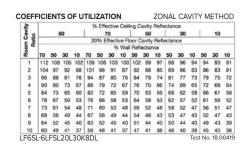
459

30°

CANDELA	DISTRIBUTIO
DEG	CANDELA
0	984
5	985
15	966
25	883
35	681
45	410
55	198
65	81
75	27
85	0
90	0

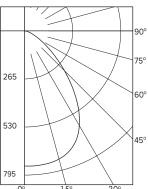
ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%LUMINAIRE
0-30	770	42.6
0-40	1192	66.0
0-60	1691	93.6
0-90	1806	100.0

LUMINANCE DATA IN	CANDELA/SQ. METER
Angle in Vertical	Average
45°	34610
55°	20605
65°	11440
75°	6227
85°	0



LF6ML-6LFSL15L30K8DL LED Light Engine: 3000K, 80CRI System Wattage: 16.0W Fixture Delivered Lumens: 1360 Fixture Efficacy: 85 Spacing Criteria: 1.2

15°



Test No. 17.01419-02 Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTIO	
DEG	CANDELA
0	741
5	742
15	727
25	665

DEG	CANDELA
0	741
5	742
15	727
25	665
35	513
45	309
55	149
65	61
75	20
85	0
90	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%LUMINAIRE
0-30	580	42.6
0-40	898	66.0
0-60	1273	93.6
0-90	1360	100.0

LUMINANCE DATA IN	CANDELA/SQ. METER
Angle in Vertical	Average
45°	26037
55°	15501
65°	8606
75°	4684
85°	0

≥		% Effective Ceiling Cavity Reflectance															
		8	10		70			50				30			10		
m Ca		20% Effective Floor Cavity Reflectance															
Room Cavity Ratio							96	Wall	Refle	ectar	108						
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	9
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	8
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	35
10	60	49	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36



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

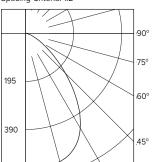
When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.



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LF6SL-6LFSL11L30K8DL LED Light Engine: 3000K, 80CRI System Wattage: 12.6W Fixture Delivered Lumens: 1013 Fixture Efficacy: 80 Spacing Criteria: 1.2



Test No. 18.00419-03
Tested at 25°C Ambient
in accordance to IESNA
LM-79-2008

CANDELA	DISTRIBUTION
DEG	CANDELA
0	552
5	553
15	542
25	495
35	382
45	230
55	111
65	45
75	15
85	0
90	0

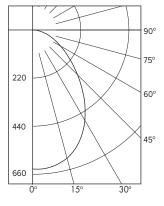
ZONAL LUMEN SUMMARY											
ZONE	LUMENS	%LUMINAIRE									
0-30	432	31.8									
0-40	669	49.2									
0-60	948	69.7									
0-90	1013	74.5									
	ZONE 0-30 0-40 0-60	ZONE LUMENS 0-30 432 0-40 669 0-60 948									

LUMINANCE DATA II	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	19397
55°	11548
65°	6412
75°	3490
85°	0

⋛					9	% Effective Ceiling Cavity Reflectance											
		8	10			7	0			50			30			10	
Room Cavity Ratio		20% Effective Floor Cavity Reflectance % Wall Reflectance															
ĕ "							%	Wall	Refl	ectar	108						
ž	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39
10	60	49	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36

LF6SL-6LFSL15L30K8FLUDL LED Light Engine: 3000K, 80CRI System Wattage: 12.6W Fixture Delivered Lumens: 1013 Fixture Efficacy: 80 Spacing Criteria: 1.2

585



Test No. 18.00420
Tested at 25°C Ambient
in accordance to IESNA
I M-79-2008

CANDELA	DISTRIBUTION
DEG	CANDELA
0	636
5	636
15	607
25	531
35	416
45	290
55	187
65	114
75	59
85	18
90	0

ZON	ZONAL LUMEN SUMMARY												
ZONE	LUMENS	%LUMINAIRE											
0-30	474	35.9											
0-40	734	55.5											
0-60	1126	85.2											
0-90	1322	100.0											

LUMINANCE DATA IN	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	26757
55°	21270
65°	17598
75°	14872
85°	0

₹	% Effective Ceiling Cavity Reflectance																
Cavity		8	10			7	0			50			30			10	
m Ca Ratio					20	3% E	ffecti	ve Fl	oor C	avity	Refle	ectar	ce				
Room							%	Wal	Refl	ectar	ice						
ĕ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31





120V-277V · 0-10V Dimming · NSF2

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

<u>SpectraSync™ Color Tuning Technology:</u> 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 $\underline{\mathsf{SpectraSync}^{\scriptscriptstyle{\mathsf{TM}}}}$ $\underline{\mathsf{Tech}}$ $\underline{\mathsf{Sheet}}$ for additional details.

NX Distrubuted Intelligence: NX DISTRIBUTED

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.

