







LF8SL LENS

8" LED Lensed Downlight 120V–277V · 0-10V Dimming · NSF2

LiteFrame LF8SL is a 8" 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

STANDARD 0-10V DIMMING

ALTERNATIVE DIMMING TO 1% & 0.1%

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. Painted white self-trim (WT) available as option.

LED Light Engine: The LF8SL 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 LF8SL 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%.

Catalog Number	
Comments	Туре

LiteFrame



Installation: Adjustable Bar hangers included. Universal adjustable mounting brackets also accept ½" EMT conduit or 1½" or ¾" 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 and for US use only. UL approved for NSF2⁷ splash zone applications.

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

ORDERING GUIDE Order housing, reflector, and accessories separately.

EXAMPLE:LF8SL-8LFSL15L40K8DL

HOUSING	DRIVER OPTION	HOUSING OPTIONS	TRIM OUTPUT APERTURE	KELVIN	REF. FINISH OPTIONS	REF. COLOR OPTIONS	TRIM OPTIONS	ACCESSORIES
Standard Lumen 0-10V 10% dimming 120-277V	Standard 0-10V 10% Dimming □ DM1 0-10V dimming at 1% □ DMT9,10 SpectraSync™ Tunable White □ DMTW11 SpectraSync™ Tunable Dim to Warm VOLTAGE OPTION Standard 120V-277V □ 347 347V Jse with EDM/2DM/DM Match Housing t	Emergency Battery Pack with remote test switch and indicator light LV7 Lutron Vive Enabled, 0-10V, 120-277V NXWE ^{4,13} NX Wireless Enabled NXE ^{4,13} NX Enabled, Dual SmartPorts MX dimming option:	Semi-Diffuse Clear Module Alzak 1500 Lumen Module 2000 Lumen Module	□ 27K 2700 Kelvin □ 30K 3000 Kelvin □ 35K 3500 Kelvin □ 40K 4000 Kelvin □ 50K 5000 Kelvin □ 2230TD³ 2200K-3000K SpectraSync™ □ 2750T³ 2700K-500K SpectraSync™ Tunable White □ 2765T³ 2700K-6500K SpectraSync™ Tunable White	Kuit Verseii SoftSheen™	Standard Clear Alzak Clear Alzak Champagne Gold Alzak Black 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 TRG Trim Ring Gasket WF Wide Flange BNCT6.8 Black Non- conductive trim WNCT6.8 White Non- conductive trim BNCTB6.8 Black Non- conductive trim BNCTB6.8 White Non- conductive trim Baffle LENS CL	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 LFSC8 8" Reflector screw cover SCA8D Sloped ceiling adapter (see note on back page) LiteGear ⁵ Inverter, single phase central lighting, 125VA-250VA LPS Seriess LitePower micro-inverter, 20VA-55VA Notes: 1 For EDM, 2DM and DMX options, housi output must match trim output 2 Not available with 347V 3 Not available with 90+ CRI 4 Not available with EMR, DMX, LV or LV 5 See Central Inverter compatibility note and web links on page 4 Not available with color/finish options. Semi-Diffuse finish only. 1 LV requires standard dimming or DM1 Must select CL or DL 9 Must select either 2750T or 2765T Kel
□ LF8SL11L □ LF8SL15L □ LF8SL20L	□ EDM¹ Hi-Lume 1% EcoSyste LED Driver □ 2DM¹ Hi-Lume 1% 2-wire LED Driver (120V only DMX vith RDM dimmi to <0.1%	em 120V L 2777 E 2777V *EDA also	NE (EDM Only) utron Vive Enabled, coSystem I, 2DM & DMX o available with R and WW	CRI 8 80+ CRI 9 90+ CRI			Clear Lens (Regressed Standard DL Diffuse Lens (Regressed Standard)	DMT driver option 10 Not available with LV or LVE 11 Must select 2230TD with DMTW driver of 12 Not compatible with DMT or DMTW 13 Not available with EDM, 2DM, or DMX

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







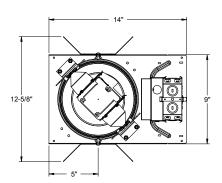


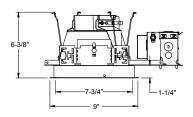
LF8SL LENS

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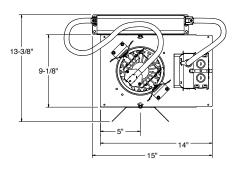
DIMENSIONS

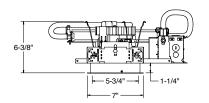
Ceiling Cutout: 8 ¼"
Maximum Ceiling Thickness: 1¼"
For conversion to millimeters, multiply inches by 25.4
Not to Scale



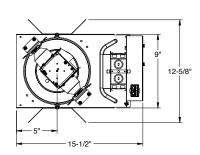


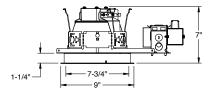






LF8SL LENS NX(W)E





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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PHOTOMETRY

DRIVER DATA	8LFSL20L	8LFSL15L	8LFSL11L
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)	0.104A (120V)
	0.08A (277V)	0.058A (277V)	0.045A (277V)
Input Power	22.1W	16.0W	12.5W
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

LF8SL-8LFSL20L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 21.6W Fixture Delivered Lumens: 1854 Fixture Efficacy: 86 Spacing Criteria: 1.2

Test No. 18.00445-02
Tested at 25°C Ambient
in accordance to IESNA
LM-79-2008

ZON	AL LUMEN S	UMMARY
ZONE	LUMENS	%LUMINAIRE
0-30	790	43
0-40	1223	66
0-60	1716	93
0-90	1853	100

ZONAL LUMENI CUMMA DV

LUMINANCE DATA I	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	18608
55°	11318
65°	7269
75°	4479
OE°	1220

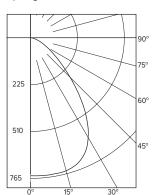
	90
335	75
335	60
670	45
1005	43
1005	° 15° 20°

DEG	CANDELA
0	987
5	989
15	985
25	915
35	697
45	401
55	198
65	94
75	35
85	4
90	0

CANDELA DISTRIBUTION

≥					9	6 Effe	ctive	Ceili	ng C	avity	Refle	ectan	ce				
Cavity		8	0			7	0			50		1	30			10	
m Ca Ratio					20	0% E	ffecti	ve Fl	oor C	avity	Refl	ectan	ice				
Room		% Wall Reflectance															
č	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72
4	89	80	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	50
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36

LF8SL-8LFSL15L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 16.2W Fixture Delivered Lumens: 1407 Fixture Efficacy: 87 Spacing Criteria: 1.2



Test No. 18.00445-01 Teste in acc LM-79

749

750 748

694

529

304

150

71 27

3

0

5

15

25 35

45

55

65

75

85

90

ested at 25°C Ambient		ZONAL LUMEN SUMMARY						
ested at 25% accordance		ZONE	LUMENS	%LUMINAIRE				
M-79-2008	to iesiva	0-30	600	32				
		0-40	928	50				
		0-60	1302	70				
CANDELA	DISTRIBUTION	0-90	1406	76				
DEG	CANDELA							

LUMINANCE DATA I	N CANDELA/SQ. METER
Angle in Vertical	Average
45°	14121
55°	8589
65°	5517
75°	3399
85°	1009

≱		% Effective Ceiling Cavity Reflectance																
Cavity		8	10		70				50			1	30			10		
m Ca Ratio		20% Effective Floor Cavity Reflectance % Wall Reflectance																
Room																		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	
4	89	80	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	

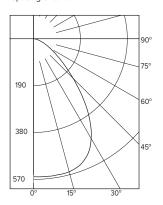






8" LED Lensed Downlight 120V-277V · 0-10V Dimming · NSF2

LF8SL-8LFSL11L30K8DL LED Light Engine: 3000K, 80 CRI System Wattage: 12.5W Fixture Delivered Lumens: 1050 Fixture Efficacy: 84 Spacing Criteria: 1.2



Test No. 18.00445-01
Tested at 25°C Ambient
in accordance to IESNA
LM-79-2008

CANDELA DISTRIBUTION								
DEG	CANDELA							
0	559							
5	560							
15	558							
25	518							
35	395							
45	227							
55	112							
65	53							
75	20							
85	2							
90	0							

ZONAL LUMEN SUMMARY												
ZONE	LUMENS	%LUMINAIRE										
0-30	448	42.6										
0-40	692	66.0										
0-60	972	92.6										
0-90	1050	100.0										

LUMINANCE DATA	IN CANDELA/SQ. METER
Angle in Vertical	Average
45°	10548
55°	6416
65°	4121
75°	2539
85°	754

≥		% Effective Ceiling Cavity Reflectance															
m Cavity Ratio		8	0		70				50		30			10			
	20% Effective Floor Cavity Reflectance																
Room		% Wall Reflectance															
č	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81
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6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	50
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9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36

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: 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 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.





