



APPLICATIONS:

LiteFrame Retroficient[®] RLF8SL is a 8" specification grade Retrofit LED retrofit downlight that combines superior brightness control with energy savings and low maintenance costs. The RLFSL is designed specifically to retrofit into ceilings with existing recessed downlight fixtures without the need to remove the existing fixture. Suitable for a variety of commercial, retail, and institutional applications with ambient temperature up to 40°C (104°F) in open plenum applications.

HOUSING:

All components are made from quality die cast aluminum or galvaneal steel. 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.

INSTALLATION:

CATALOG NUMBER:

All installation can be performed from below the ceiling without removing existing fixture.

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 RLF8SL 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 RLF8SL 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%.

CERTIFICATIONS:

CSA certified to US and Canadian safety standards. Suitable for wet locations. Approved for through wiring. ENERGY STAR qualified with open clear Alzak reflector.

WARRANTY:

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

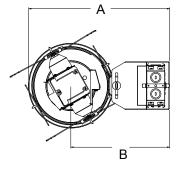
PROJECT:	
RE	
and the	Ceiling Cutout: see guid Maximum Ceiling Thickness 1 ¹ / ₂

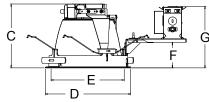
TYPF

DATE:

FIRM NAME

Maximum Ceiling Thickness 1 1/21 For conversion to millimeters, multiply inches by 25.4 Not to Scale





*Dimensions shown are for range of adjustability.

		511				or adjoordoniny
"A"*	"B"*	"C"*	"D"*	"E"*	"F"*	"G"*
13-3/4" - 16"	9-7/8" - 11-3/4"	7-1/4"	9"	7-3/4"	2-1/2" - 3-3/4"	6-1/4" - 7-1/2"

See page 4 for NX(W)E line art

EXAMPLE: RLF8SL-8LFSL15L35K8WT

IN DIMMING	Order housing, reflector, and accessories separate HOUSING DRIVER HOUSING OPTION OPTIONS	TRIM APERTURE	OUTPUT	KELVIN	CRI	REF. COLOR OPTIONS	ACCESSORIES
ING TO 1% & 0.1% STANDARD 0-10V DIMMING	RLF8SL Standard Standard 0-10V SD ² Small Diame Lumen 0-10V 10% dimming DM1 LV ⁴ 120-277V DM1 LV4 120-277V DM1 LV4 DM1 0-10V Enabled, 0-10V, DMT5.6 120-277V SpectraSync™ DMT5.6 DMT5.6 NXWE9.10 SpectraSync™ NXWE9.10 NX Vireless Enabled, DMTW7 NXE9.10 SpectraSync™ NXE9.10 NX Enabled, Dual SmartPo	ter Semi- Diffuse Clear Alzak	 11L 1100 Lumen Module 15L 1500 Lumen Module 20L⁸ 2000 Lumen Module 	 27K 2700 Kelvin 30K 3000 Kelvin 35K 3500 Kelvin 40K 4000 Kelvin 50K 5000 	 B 80+ CRI 9 90+ CRI REF. FINISH ○PTIONS Standard Semi-Diffuse SP Specular SS Semi- Specular MFC 	Clear Alzak Clear Alzak Glaar Alzak Gold Alzak Gold Alzak BL Black Alzak WE Wheat Alzak Light Wheat Alzak PW Pewter Alzak	 LFSC8 8" Reflector screw cover LiteGear³ Inverter, single phase central lighting, 125VA-250VA LPS Series³ LitePower micro-inverter, 20VA-55VA RWD8 Retrofit wide housing kit Notes: ¹ For EDM and 2DM options, housing output must match trim output
ALTERNATIVE DIMMING TO	Use with EDM/2DM/DMX dimming Match Housing to Trim Outp RLF8SL11L EDM' 1 120 RLF8SL20L Hi-Lume 1% EccoSystem LED 2777 2DM' 2777V Hi-Lume 1% 2-wire LED Driver (120V only) CCCCCCITE			Kelvin 2230TD ¹¹ 2200K-3000K SpectraSync [™] Dim to Warm 2750T ¹¹ 2700K-5000K SpectraSync [™] Tunable White 2765T ¹¹ 2700K-6500K SpectraSync [™] Tunable White	American Matte™ V Kurt Versen Specular VS Kurt Versen Softglow [®] VSS Kurt Versen SoftSheen™	 WH Painted Matte White Reflector and Flange BC Painted Black Reflector and Flange TRIM OPTIONS WT Painted White Flange Only WF	 ² See housing compatibility guide on page 3. ³ See Central Inverter compatibility note and web links on page 3 ⁴ IV requires standard dimming or DM1 ⁵ Must select either 2750T or 2765T Kelvin with DMT driver option ⁶ Not available with IV or IVE ⁷ Must select 2230TD with DMTW driver option ⁸ Not available with DMT or DMTW ⁹ Not available with DMT or IVE ¹⁰ Not available with IV or IVE ¹¹ Only available in 90+ CRI
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PHOTOMETRIC DATA

Retroficient[©] - 8" RLF8SL Downlight

DRIVER DATA	8LFSL20L	8LFSL15L	8LFSL11L	
Input Voltage	120-277V	120-277V	120-277V	
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	Lumen Multiplier Table
Input Current	0.105A (120V)	0.133A (120V)	0.184A (120V)	Photometrics published below are for the 3000K, 80 CRI.
	0.045A (277V)	0.058A (277V)	0.08A (277V)	This table may be used to approximate the lumen values at
Input Power	22.1W	16.0W	12.5W	different Kelvin temperatures and CRI.
Power Factor	≥0.90	≥0.90	≥0.90	
THD	<20%	<20%	<20%	4000 Kelvin 1.07
EMI Filtering	FCC 47CFR	FCC 47CFR	FCC 47CFR	3500 Kelvin 1.00
	Part 15, Class A	Part 15, Class A	Part 15, Class A	3000 Kelvin 1.00
Operating Temperature	-20°C to 40°C	-20°C to 40°C	-20°C to 40°C	2700 Kelvin 0.95
Dimming	0-10V	0-10V	0-10V	
Over-voltage, over-curre	ent, short-circuit protect	red		80 CRI1.00
*Power consumption ar	nd photometric output i	may vary slightly with vari	ous driver and CRI options.	90 CRI

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	Open	1085	12.5	87	RLF8SL-8LFSL11L30K8
15L	80	Open	1454	16.0	91	RLF8SL-8LFSL15L30K8
20L	80	Open	1916	22.1	87	RLF8SL-8LFSL2OL3OK8
11L	90	Open	1038	14.1	74	RLF8SL-8LFSL11L30K9
15L	90	Open	1406	19.4	72	RLF8SL-8LFSL15L30K9
20L	90	Open	1853	25.5	73	RLF8SL-8LFSL20L30K9

RLF8SL-8LFSL20L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 22.1W Fixture Delivered Lumens: 1916 Fixture Efficacy: 87 Spacing Criteria: 1.2 400 400 800 0° 15° 40° 45° Test No. 18.00336

ZONAL LU	JMEN SUMA	ARY	LUMINANCE DAT	A IN CANDELA/
ZONE	lumens	%LUMINAIRE	SQ. METER	
0-30	988	51.6	Angle in Vertical	Average
0-40	1639	85.5	45°	14359
0-60	1913	99.9	55°	687
0-90	1916	100.0	65°	155
90-180	0	0.0	75°	0
0-180	1916	100.0	85°	0

.9					% E	ffec	tive (Ceili	ng C	avity	Ref	lect	ance	÷			
Ratio		8	0			7	0			50			30			10	
				- 3	20%	Effe	ctiv	e Flo	or C	avity	Re	flect	ance	9			
5							%	Wall	Refl	ecta	nce						
õ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50
RLB8S	LOOL	FSL	201	30K	868	58	51	47	57	51	47	56	50	Tes?	No5	18500	38
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43



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

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CANDELA

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CANDELA DISTRIBUTION

CANDELA

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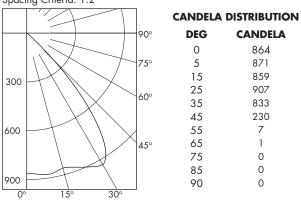
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85

90

RLF8SL-8LFSL15L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 16.0W Fixture Delivered Lumens: 1916 Fixture Efficacy: 81 Spacing Criteria: 1.2



Test No. 18.00335

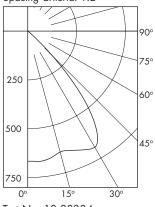
Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LU	MEN SUMM	ARY	LUMINANCE DAT	A IN CANDELA/
ZONE	lumens	%LUMINAIRE	SQ. METER	
0-30	750	51.5	Angle in Vertical	Average
0-40	1249	85.9	45°	10688
0-60	1453	99.9	55°	401
0-90	1454	100.0	65°	78
90-180	0	0.0	75°	0
0-180	1454	100.0	85°	0

	0					% E	ffect	tive (Ceili	ng C	avity	Ret	lecta	Ince				
E	Rati		8	0		-	7	0			50			30			10	
						20%	Effe	octiv	e Fic	or C	avit	y Re	flect	ance)			_
æ	Cavity							%	Wall	Refl	ecta	nce						
	ŏ	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	l.	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	1	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72
5	5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
e	3	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60
7	1	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55
8	3	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50
	BS	-81	FSB	52:	30K	868	58	51	47	57	51	47	56	50	est l	165	18500	333
1	0	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43

RLF8SL-8LFSL11L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 12.5W Fixture Delivered Lumens: 1085 Fixture Efficacy: 87 Spacing Criteria: 1.2



Test No. 18.00334

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

ZONAL LU		ARY	LUMINANCE DAT	A IN CANDELA/
ZONE	lumens	%LUMINAIRE	SQ. METER	
0-30	558	51.4	Angle in Vertical	Average
0-40	926	85.4	45°	8178
0-60	1083	99.9	55°	401
0-90	1085	100.0	65°	78
90-180	0	0.0	75°	0
0-180	1085	100.0	85°	0

io i					% E	ffect	tive (Ceilir	ng C	avity	Ref	lecta	ince	•			
Ratio		8	0			7	0			50			30			10	
					20%	Effe	octiv	e Flo	or C	avit	/ Re	flect	ance	9			
Cavity							%	Wall	Ref	ecta	nce						
Ö	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50
RL₽8	SFB	LFSL	52	30	68	58	51	47	57	51	47	56	50	Tést	195.	15800	035
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43



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HOUSING COMP	ATIBILITY G U	IDE
Ordering	11 8	NCH
Guidelines	MIN	MAX
Requires SD Housing Option	7-15/16	8-1/8
All Standard Housings	8-1/8	8-3/4
Requires RWD Kit Accessory & WF Reflector Option	8-3/4	9-1/8
Dimensions shown are for the diameter of the frame flange at)

Dimming	Compo	ıtibilitv	Table

Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DVTV	<u>http://bit.ly/11jSvZg</u>
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAl
2DM	Lutron	<u>http://bit.ly/1nF4Zp1</u>

Central Inverters

it's narrowest point

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).

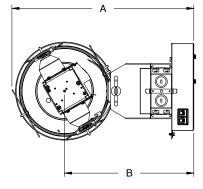
See separate <u>SpectraSync™ Tech Sheet</u> for additional details.

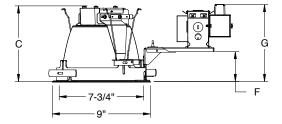
NX Distrubuted Intelligence: NX DISTRIBUTED

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 <u>NX[™] Solutions Guide</u> for additional details.

See Hubbell Controls Solution <u>NX Brochure.</u>





		" A "*	"B"*	"C"*	"F"*	"G"*
RLF8SL N	K(W)E	15-3/4" - 18"	11-7/8" - 13-3/4"	7-1/4"	2-1/2" - 3-3/4"	6-3/4" - 8"



RLF8SL NX(W)E

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