



6" LED Downlight LC6LED8 & 9

120 or 277V
0-10V Dimming Option
2400 & 3000 Lumens

APPLICATIONS:

LiteFrame Commercial (LC6LED8 & 9) is a 6" commercial grade LED downlight with available outputs between 2400-3000 lumens. This is suitable to replace most CFL downlighting applications, while realizing substantial energy and maintenance savings. Rated for a minimum of 50,000 hours life (70% lumen maintenance) with ambient plenum temperatures up to 35°C (LED8) or 25°C (LED9). Free Air Flow around fixture is required for optimal life performance. This product is not recommended for use with 3rd party "FIREHAT" or insulation barriers.

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 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 LC6LED uses mid power Nichia LEDs, specifically mixed to provide a minimum of 80 CRI with 3 SDCM color consistency. The use of multiple low power LED's allows for optimal thermal management by effectively spreading the heat over a larger area and eliminating hot spots on the LEDs. A diffuse, yet highly transmissive lens obscures the view of the LEDs and creates a smooth, even look from below. The light engine is available in multiple Kelvin temperatures and the system is designed to provide optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance). The reflector/light engine assembly is mechanically retained to the housing.

Order housing, reflector, and accessories separately

LED DRIVER:

The 40 watt constant current Osram driver is capable of running both lumen outputs, resulting in a reduction of housing skus and simplified specification. The driver is UL8750 and Class II compliant.

DIMMING:

Comes standard with 0-10V dimming, providing flicker-free dimming down to 10%. See list of compatible dimmers on page (3). For the sizing of the control circuit, the dimming circuit may require up to 1.2mA of sink current.

INSTALLATION:

Light commercial 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). Wall wash orientation may be field adjusted in 90° increments to housing.

CERTIFICATIONS:

CSA certified to US and Canadian safety standards. Suitable for wet locations (WW damp location).

WARRANTY:

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

DATE: TYPE:

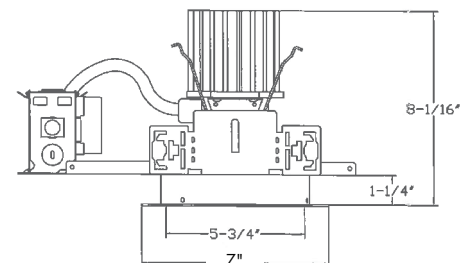
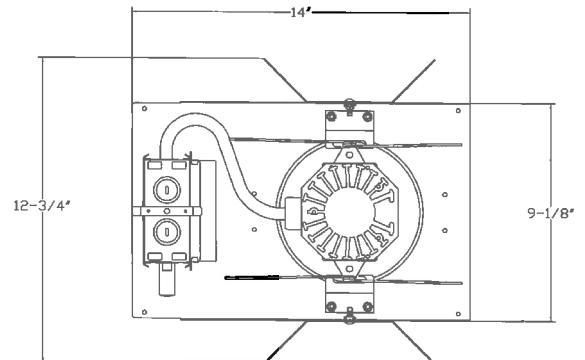
FIRM NAME:

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



CATALOG NUMBER:

EXAMPLE: LC6LED8120 - 6LCLED935K8WT

HOUSING	VOLTAGE	TRIM APERTURE	OUTPUT	KELVIN	REFLECTOR FINISH	REFLECTOR OPTIONS	ACCESSORIES
☐ LC6LED8 6" LED Housing for both the LED8 & LED9 trim	☐ 120 120V ☐ 277 277V ☐ 347 347V	☐ 6LCLED 6" Open Reflector/Light Engine Assembly	☐ 8 Nominal 2400 Delivered Lumens ☐ 9 Nominal 3000 Delivered Lumens	☐ 27K 2700 Kelvin ☐ 30K 3000 Kelvin ☐ 35K 3500 Kelvin ☐ 40K 4000 Kelvin ☐ 50K 5000 Kelvin	☐ Blank Clear Alzak, Semi-Diffuse	☐ WT White Trim ☐ WF Wide Flange ☐ WW ³ Wall Wash ☐ WH ¹ White Paint	☐ B24 Set of two(2) 24" bar hangers for T-bar ceilings ☐ B6 Set of two (2) bar hangers for ceiling joist up to 24" centers ☐ LG1S ² Dual-Lite 100VA Surface Wall Mount LiteGear Emergency Lighting Inverter ☐ LG1R ² Dual-Lite 100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter ☐ LG1T ² Dual-Lite 100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter ☐ LG2S ² Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter ☐ SCA6D Sloped ceiling adapter (see note on page 4)
HOUSING OPTIONS				CRI		REFLECTOR COLOR	
☐ Blank 0-10V dimming to 10% ☐ DM1 Sylvania 0-10V 1% Dimming				☐ 8 80+ CRI			

¹ Requires WT option

² See LC6LED and LiteGear Compatibility on page 3

³ Damp location only



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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.
Web: **www.prescolite.com** • Tech Support: **(888) 777-4832**

LFR-LED-032

PHOTOMETRIC DATA

LiteFrame - 6" LC6LED Downlight

DRIVER DATA	6LCLED8xxx	6LCLED9xxx
Input Voltage	120/277V	120/277V
Input Frequency	50/60 Hz	50/60 Hz
Input Current	0.271 (120v) 0.117 (277v)	0.346 (120v) 0.150 (277v)
Input Power	32.5W	41.5W
Constant Current Output	675mA	675mA
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A
Operating Temperature	-30°C to +35°C	-30°C to +25°C
Dimming	0-10V to 10%	0-10V to 10%
Over-voltage, over-current, short-circuit protected		

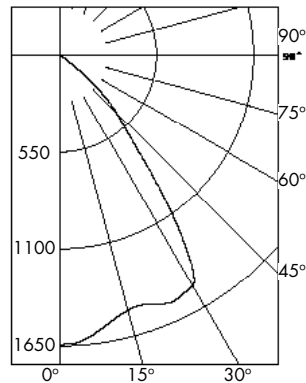
Lumen Multiplier Table

Photometrics for the LC6LED are published below at a nominal 3000 Kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

5000 Kelvin	1.14
4000 Kelvin	1.03
3500 Kelvin	1.00
3000 Kelvin	1.00
2700 Kelvin	0.91

LC6LED8120-6LCLED830K8

LED Light Engine: 3000K, 80+ CRI
System Wattage: 32.5W
Fixture Delivered Lumens: 2375
Fixture Efficacy: 73.1
Spacing Criteria: 1.1



CANDELA DISTRIBUTION		
DEG	0.0	0.0
0	1642	
5	1621	
15	1501	
25	1540	
35	1133	
45	444	
55	27	
65	6	
75	2	
85	0	
90	0	

Test No. 9495

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1286	54.2
0-40	1976	83.2
0-60	2367	99.6
0-90	2375	100.0
90-180	0	0.0
0-180	2375	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG
45°	37467
55°	2809
65°	847
75°	461
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

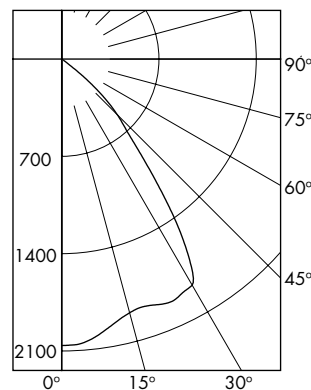
Room Cavity Ratio	% Effective Ceiling Cavity Reflectance																			
	80%				70%				50%				30%				10%			
	20% Effective Floor Cavity Reflectance																			
	% Wall Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	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	84	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	62	82	72	66	61	71	65	61	69	64	60	68	63	60			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55			
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43			

LC6LED8120-6LCLED830K8

Test No. 9495

LC6LED8120-6LCLED930K8

LED Light Engine: 3000K, 80+ CRI
System Wattage: 41.5W
Fixture Delivered Lumens: 2993
Fixture Efficacy: 72.1
Spacing Criteria: 1.1



CANDELA DISTRIBUTION		
DEG	0.0	0.0
0	2061	
5	2040	
15	1890	
25	1914	
35	1444	
45	567	
55	33	
65	8	
75	2	
85	0	
90	0	

Test No. 9430

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1609	53.7
0-40	2484	83.0
0-60	2983	99.7
0-90	2993	100.0
90-180	0	0.0
0-180	2993	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG
45°	47846
55°	3433
65°	1130
75°	461
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	
3	100	93	87	83	98	91	86	82	89	84	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	62	82	72	66	61	71	65	61	69	64	60	68	63	60	
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	

LC6LED8120 - 6LCLED930K8

Test No. 9430



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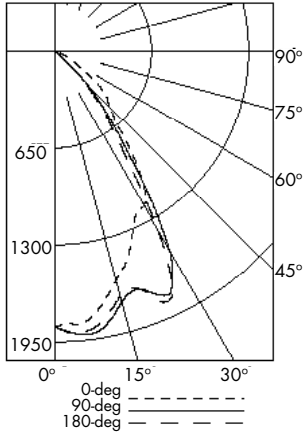


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PHOTOMETRIC DATA

LC6LED8120-6LCLED830K8 WW

LED Light Engine: 3000K, 80+ CRI
System Wattage: 32.4W
Fixture Delivered Lumens: 2331
Fixture Efficacy: 71.9



CANDELA DISTRIBUTION

DEG	0.0	90.0	180.0
0	1850	1850	1850
5	1842	1907	1894
15	1594	1742	1702
25	1261	1804	1837
35	994	936	771
45	514	261	223
55	290	9	8
65	72	3	3
75	12	2	2
85	1	0	0
90	0	0	0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	43374	22024	18818
55°	30169	936	832
65°	10166	424	424
75°	2767	461	461
85°	685	0	0

MULTIPLE UNITS				
1'	2'	3'	4'	
UNITS ON 3' CENTER	UNITS ON 4' CENTER			

2.5' DISTANCE FIXTURE MOUNTED OUT FROM WALLS FOOTCANDLE DISTRIBUTION ON WALL SURFACE (Direct Only)

DISTANCE FROM CEILING IN FEET	1	2	3	4	5	6	7	8	9
1	7	4	1	0	0	0	0	0	0
2	30	20	5	1	0	0	0	0	0
3	29	21	11	2	0	0	0	0	0
4	27	24	13	5	1	0	0	0	0
5	18	17	14	7	3	0	0	0	0
6	12	12	11	8	4	0	0	0	0
7	9	8	8	7	4	0	0	0	0
8	7	6	6	6	4	0	0	0	0
9	5	5	4	4	4	0	0	0	0

LC6LED8120-6LCLED830K8 WW

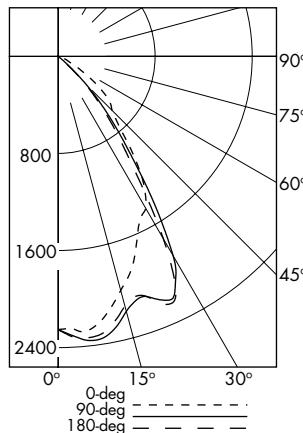
Test No. 9496

Test No. 9496

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

LC6LED8120-6LCLED930K8 WW

LED Light Engine: 3000K, 80+ CRI
System Wattage: 41.4W
Fixture Delivered Lumens: 2905
Fixture Efficacy: 70.2



CANDELA DISTRIBUTION

DEG	0.0	90.0	180.0
0	2251	2251	2251
5	2278	2341	2329
15	1997	2175	2129
25	1565	2211	2239
35	1197	1194	1007
45	630	332	293
55	354	13	11
65	92	5	4
75	15	3	3
85	1	0	0
90	0	0	0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	53162	28016	24725
55°	36827	1352	1144
65°	12989	706	565
75°	3458	692	692
85°	685	0	0

MULTIPLE UNITS				
1'	2'	3'	4'	
UNITS ON 3' CENTER	UNITS ON 4' CENTER			

2.5' DISTANCE FIXTURE MOUNTED OUT FROM WALLS FOOTCANDLE DISTRIBUTION ON WALL SURFACE (Direct Only)

DISTANCE FROM CEILING IN FEET	1	2	3	4	5	6	7	8	9
1	9	5	1	0	0	0	0	0	0
2	37	24	6	1	0	0	0	0	0
3	36	27	14	3	1	0	0	0	0
4	32	29	16	7	2	0	0	0	0
5	22	21	17	9	4	0	0	0	0
6	15	14	14	10	5	0	0	0	0
7	11	11	10	9	5	0	0	0	0
8	8	8	7	7	5	0	0	0	0
9	6	6	6	5	5	0	0	0	0

LC6LED8120-6LCLED930K8 WW

Test No. 9432

Test No. 9432

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Dimming Compatibility Table

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

Central Inverters

For fixture full light output in back-up mode, Prescolite and Dual-lite have jointly tested the LiteFrame Commercial LED with the 100 (LG1) and 250 (LG2) VA LiteGear inverters. For more information on LiteGear go to http://www.dual-lite.com/resources/litegear_luminaire_loading_chart/

SCA6D

When ordering a sloped ceiling adapter, specify the degree of slope in 5° increments, maximum 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.