

LiteFrame Commercial LC8HL is a 8" commercial grade

high lumen LED downlight with two available outputs of

4500 and 6000 lumens. This is suitable to replace many

HID 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 25°C. Free Air Flow around

product is not recommended for outdoor use or with 3rd

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

High purity aluminum, Alzak, iridescence suppressed,

semi-diffuse reflector. Self-trim standard. Painted white self-

The LC8HL uses high power Cree LEDs, specifically mixed

consistency. The use of multiple high power LEDs 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

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

the view of the LEDs and creates a smooth, even look from below. The light engine is available in multiple

to provide a minimum of 80 CRI with 3 SDCM color

fixture is required for optimal life performance. This

party "FIREHAT" or insulation barriers.

rated for 90°C through wiring.

trim (WT) available as option.

LED LIGHT ENGINE:

APPLICATIONS:

HOUSING:

REFLECTOR:

8" High Lumen LED Downlight LC8HL 4500 & 6000 Lumen 120V-277V, 347V

0-10V Dimming The LC8HL utilizes a constant current LED driver. This driver is capable of running all lumen outputs, resulting in a reduction of housing skus amd simplified specification. The driver is UL8750,

Class II compliant and universal 120V-277V.

DIMMING:

Comes standard with flicker-free 0-10V dimming to 10%. 0-10V to 1% dimming option is also available. For the sizing of the control circuit, the dimming circuit may require up to 2mA of sink current.

INSTALLATION:

Light commercial bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1½" 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. (EM & EMR damp location). Approved for through branch wiring. Non-IC rated. Product is marked spacing and must be installed with the following minimum spacings:

Center to Center of adjacent luminaires: 24" Minimum Overhead Clearance: 8-1/2" (To bottom of metal pan)

Center of Luminaire to Side of Building Member: 12"

This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/10/2020. See Buy American Solutions.

WARRANTY:

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

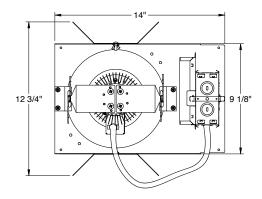
DATE: FIRM NAME:

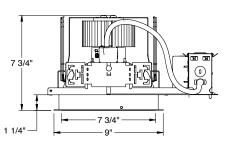
PROJECT:

eFrame



Ceiling Cutout: 8 1/4" Maximum Ceiling Thickness 11/4" For conversion to millimeters, multiply inches by 25.4 Not to Scale





LC8HL See page 3 for LC8HL EM lineart

LED DRIVER:

Order housing, reflector, and accessories separately

mechanically retained to the housing.

CATALOG NUMBER:

HOUSING	DRIVER OPTIONS	VOLTAGE		using Ption
LC8HL ⁴ High Lumen 0-10V Dimming to 10% 120V-277V	Standard 0-10\\ 10% Dimming DM1 0-10V 1% Dimming	/ Standard 120V-277 347 3 47	V	EM ^{2,3} Integral Battery Pack EMR ³ Remote Battery Pack

- See Central Inverter compatibility note and web link on page 3.
- ²EM must be selected on both the housing and the trim
- ³ Damp location only ⁴ Not suitable for outdoor use.

TRIM APERTURE	OUTPUT	KELVIN	CRI	REF. FINISH/ COLOR OPTION	RE C
SICHL High Lumen Clear Alzak Reflector	45L 4500 Lumen 60L 6000 Lumen	27K 2700 Kelvin 30K 3000 Kelvin 35K 3500 Kelvin	Standard 120V-277 ■ 8 80+ CRI ■ 9 90+ CRI	Standard Semi-Diffuse Clear Alzak WH Painted Matte White Reflector and	

□ 40K

4000

50K

5000

Kelvin

Flange

WT **Painted** White Flange only WF Wide

ELECTOR

PTIONS

Flange **EM^{2,3}** Pre-punched reflector to accept integral test switch

EXAMPLE: LC8HL-8LCHL60L30K8 **ACCESSORIES**

□ 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"

SCA8D Sloped ceiling adapter (see note on page 3)

☐ LiteGear¹ Inverter, single phase central lighting, 125VA-250VA



PHOTOMETRIC DATA

LiteFrame - 8" LC8HL Downlight

DRIVER DATA	8LCHL45Lxxxx	8LCHL60Lxxxx	
Input Voltage	120-277V	120-277V	
Input Frequency	50/60 Hz	50/60 Hz	
Input Current	0.433 (120v)	0.566 (120v)	
	0.187 (277v)	0.245 (277v)	
Input Power	52W	68W	
Constant Current Output	1.826A	1.826A	
Power Factor	≥0.90	≥0.90	
THD	<22%	<16%	
EMI Filtering	FCC Title 47	FCC Title 47	
	Part 15, Class A	Part 15, Class A	
Operating Temperature	-30°C to 35°C	-30°C to 30°C	
Dimming	0-10V	0-10V	
Over-voltage, over-currer	nt, short-circuit protecte	d d	

Lumen Multiplier Table

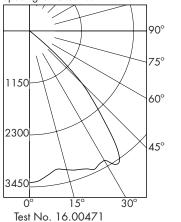
Photometrics for the LC8HL are published below at a nominal 3000 Kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

5000 Kelvin	1.14
4000 Kelvin	1.03
3500 Kelvin	1.00
3000 Kelvin	1.00
2700 Kelvin	.91
90 CRI	.83

LC8HL 8LCHL60L30K8

LED Light Engine: 3000K, 80 CRI System Wattage: 68.6W Fixture Delivered Lumens: 6026 Fixture Efficacy: 87.8

Spacing Criteria: 1.3



CANDELA DISTRIBUTION	
	0
	9

CANDEL
3354
3279
3178
3378
3469
1636
21
8
4
1
0

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

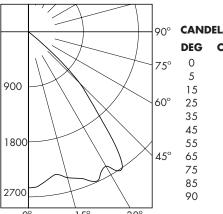
ZONAL L	UMEN SUM	MARY	LUMINANCE DATA	IN CANDEL
ZONE	LUMENS	%LUMINAIRE	SQ. METER	
0-60	6012	99.8	Angle in Vertical	Average
0-90	6026	100.0	45°	75994
90-180	0	0.0	55°	1203
0-180	6026	100.0	65°	622
	·		75°	508
			85°	377

CO	EFF	ICI	ΕN	TS	OF	UT	ILIZ	ATI	ON			Zor	al (Cav	ity I	Vet	hoc	
4		% Effective Ceiling Cavity Ref									Refl	eflectance						
ē o		80	1%			70	%		!	50%	,	;	30%)		10%	,	
갽					20	% Et	ffecti	ve Fl	oor C	avity	/ Ref	lecta	nce					
Room Cavity Ratio		% Wall Reflectance																
2	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	
LCSI	11 8	ICH	160	301	72									Too	+ NIo	16.0	047	

LC8HL 8LCHL45L30K8

Spacing Criteria: 1.3

LED Light Engine: 3000K, 80 CRI System Wattage: 52.3W Fixture Delivered Lumens: 4599 Fixture Efficacy: 87.9



CANDELA	DISTRIBUTION

471112	
DEG	CANDELA
0	2553
5	2497
15	2470
25	2687
35	2680
45	1188
55	18
65	7
<i>7</i> 5	3
85	1
90	0

ZONAL L	UMEN SUM	MARY	LUMINANCE DATA IN CANDELA						
ZONE	LUMENS	%LUMINAIRE	SQ. METER						
0-60	4587	99.7	Angle in Vertical	Average					
0-90	4599	100.0	45°	51789					
90-180	0	0.0	55°	967					
0-180	4599	100.0	65°	511					
0.00	1 .577	1	75°	357					
			85°	3/15					

EFF	ICI	EN	TS	OF	UT	ILIZ	ATI	ON			Zon	al (Cav	ity N	Лet	hoc
				%	Effe	ctive	Ceili	ing C	avity	Refl	ectar	ice				
	80% 70%					50%	,	;	30%	,	10%					
				20	% E	fecti	ve Fl	oor C	avity	/ Ref	lecta	nce				
% Wall Reflectance																
70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94
106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77
93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70
87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64
82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58
77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53
72	61	54	49	70	60	53	49	59	53	49	58	52	48	57	52	48
67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44
63	52	45	41	62	52	45	41	51	45	41	50	45	41	49	44	40
	70 113 106 99 93 87 82 77 72 67	70 50 113 110 106 100 99 92 93 84 87 77 82 71 77 66 72 61 67 56	70 50 30 113 110 107 106 100 96 99 92 86 87 77 71 82 71 64 77 66 59 77 66 59 67 56 49	80% 70 50 30 10 113 110 107 104 106 100 96 92 93 84 78 73 87 77 71 66 82 71 64 59 77 66 59 54 72 61 54 49 67 56 49 45	80% % % % % % % % % % % % % % % % % % %	80% Effe 70 20% Effe 70 50 30 10 70 50 113 110 107 104 110 107 106 100 96 92 104 99 99 28 86 82 97 91 93 84 78 73 91 83 87 77 71 66 85 76 82 71 64 59 80 70 77 66 59 54 75 65 77 66 59 54 75 65 72 61 54 49 70 60 67 56 49 45 66 56	80%	80% WEFFective Cell 80% 70%	No. No.	No. No.	No. No.	No. No.	80 % Fifective Celling Cavity Reflectance 70 % 50 % 30 %	Section Sec	80% Ffective Celling Cavity Reflectance 70% 50% 30%	80% Ffective Celling Cavity Reflectance 80% 50% 30 00 00 00 00 00 00 00 00 00 00 00 00





Test No. 16.00470



Dimming Compatibility Table

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

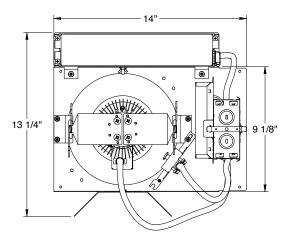
SCA8D_

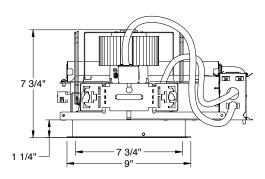
When ordering a sloped ceiling adapter, specify the degree of slope in 1° increments, maximum of 35°. For a more precise degree or wet ceiling applications, please contact factory. Sloped ceiling adapter and housing must be installed at the same time.

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





LC8HL EM



