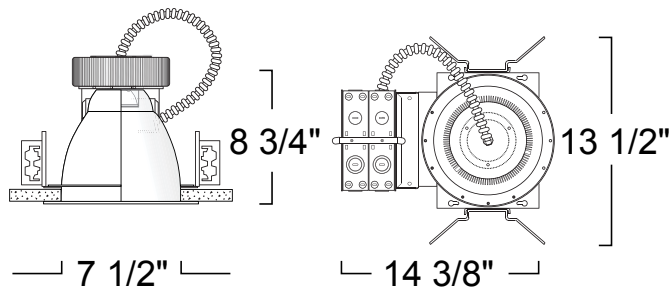


8" Architectural LED Frame-Kit (1400/1900/2000/3000 Lumen) w/ 8" Architectural LED Trim (1400/2000/3000 Lumen) 8" LED ARCHITECTURAL DOWNLIGHT



SPECIFICATION

Ceiling cut-out: 8 1/8"

Application: Architectural-grade recessed LED downlight housing for medium to high ceilings in commercial and architectural spaces. New second generation housing supports 1400, 2000, 2400 and 3000 lumen packages.

Housing Frame: 16 gauge galvanized plaster ring with black powder coat finish, friction or V-Spring clips secure trim to housing.

Mounting: Housing suitable for new construction installations only, Bat-Wing bar hanger brackets adjust vertically 3 1/4" for multiple ceiling types and accepts 1/2" EMT, 26" C-Channel Strut for T-bar ceilings and 27" adjustable linear hanger bars for plaster ceilings or wood/metal joists. Heavy duty 16-gauge, die-formed galvanized steel. Bar hangers optional.

Driver: 120V/277V AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted on large access Junction Box. Power Factor > 0.90. Operating Temperature: -10°C to +80°C. Accessible from above or below ceiling. Consult Factory for dimming options and compatible dimmers.

Emergency Options: Emergency LED Battery Back-up available, remotely mounted adjacent to housing by installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch, plate cover and junction box included. Optional Generator Transfer Device switches the driver to auxiliary generator power during the loss of normal AC power, (recommended for applications requiring individual circuit switching).

Junction Box: 16 gauge pre-wired galvanized steel double Junction Box, 64 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (10) 3/4", (2) 1" and (8) Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard die-cast aluminum fitting for flex-conduit.

Insulation Contact: Non-IC rated housing must be kept 3" from insulation.

Dimming: 0-10V dimming option (-D10) works with most 5-Wire 0-10V dimmers. Available with 1% Deep Dimming Option. Factory qualified for use with Leviton IP710-DLX and Lutron NTFTV-WH. The Lutron Hi-Lume (-DHL) and Ecosystem (-DEC) option designed for use with LUTRON Ecosystem Controls. Uni-Dim™ (-DUN) option is a universal dimming system that works with most 3-Wire ELV, 2-Wire Incandescent and 5-Wire 0-10V fluorescent dimmers.

Caution: LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.

Label: cETL Listed

Assembled in USA

FEATURE:



Application: Architectural-grade recessed downlight reflector for medium to high ceilings in commercial and architectural installations. Reflector designed for minimal glare from lamp without sacrificing lumen output.

Reflector Construction: One piece, self-flanged dual-reflector LED design enables a clean trim finish, without the need for a secondary trim ring. Heavy-gauge aluminum reflector prevents ugly dents during shipping and installation. Deeply mounted singular LED provides 50 degree visual cutoff for a glare-free appearance. Held in place with two steel pressure v-springs for a tight fit and easy scratch-less removal.

Power Connection: LED lamp array is replaceable via on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Lumen Maintenance: Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management: Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Color Temperature: Comes standard with 3000K Warm White LEDs binned to within 3-Step MacAdam Ellipses (SDCM) and surpasses the ANSI C78 377A standard for color deviation. Available in other color temperatures, 2700K, 3500K and 4000K, binned according to the ANSI standard. To order, use "-T" suffix followed by color temperature. Example: -T40 = 4000K. Consult factory as extended lead times and minimum order quantities apply.

Thermal Temperature: Heat dissipation facilitated by exposed integral aluminum heat sink to maximize heat rejection in an open air environment. Recommended ambient temperature is below 35 degree celsius to achieve minimum L70 life of 50,000 hours according to LM80 standard.

Warranty: Covered by a 5 Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60 degrees C. Doing so will result in reduced lamp life and voided warranty.

8" ARCHITECTURAL LED FRAME-KIT (1400/1900/2000/3000 LUMEN)

LHALD825 19W/25W/28W LED

DRIVER TYPE	OPTION	HANGER BAR
LHALD825C070UE :Non-Dimming	Blank :None	/C260 :C-Channel Hanger Bar Set
LHALD825C070UE-D10 :0-10V 10% Dimming	-EM2 :Emergency (10W)	/C260-J :Adjustable C-Channel Hanger Bar Set
LHALD825C070UE-DHL :HiLume 1% Dimming	-GTD :Generator Transfer Device	
LHALD825C070UE-DUN :UniDim™ Universal Dimming		
LHALD825C070UE-D10P1 :0-10V 1% Dimming		
LHALD825C070UE-DLI :DALI Dimming		
LHALD825C070UE-DEC :Lutron Ecosystem		
LHALD825C070-DINPZ :2-Wire 0% Dimming (120V)		

8" ARCHITECTURAL LED TRIM (1400/2000/3000 LUMEN)

LRALD8 19W/25W/28W LED

FINISH	LUMEN PACKAGE	LED
LRALD8SSF :Satin Haze Reflector/ Satin Flange	101 :1400 Lm 19W LED	Blank :3000K
LRALD8SWF :Satin Haze Reflector/ White Flange	150 :2000 Lm 25W LED	-T27 :2700K*
LRALD8WWF :White Reflector/ White Flange	240 :3000 Lm 28W LED	-T35 :3500K*
		-T40 :4000K*
		-T27-C90 :2700K, 90+ CRI*

* Extended lead time may apply for quantities over 100

Ordering example: LHALD825C070UE-GTD/L270/LRALD8SWF101-T35

LRALD8SWF150: 8" LED Downlight Luminaire

Lamp: (1) LED

Total Rated Fixture Lumen :1543 Lm

Total Luminaire Efficacy :53 Lm/W

Luminous Diameter :6.12"

Color Rendering Index (CRI) :80 +

Color Temperature :3050K

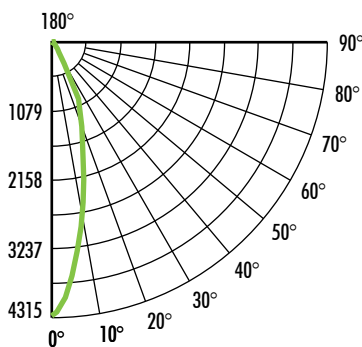
Estimated Life :50,000 hrs. L70

Fixture Data

	LED Module Lumen	Fixture Lumen	Input Wattage
@ 3000K	1400	1080.0	19W
	2000	1543.0	25W
	3000	2315.0	28W
@ 4000K	1442	1112.4	19W
	2060	1589.3	25W
	3090	2384.5	28W

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	834.89	54.10
0 - 30	1252.65	81.20
0 - 40	1366.81	88.60
0 - 60	1468.41	95.20
0 - 80	1523.22	98.70
0 - 90	1543.01	100.00
10 - 90	1272.21	82.50
20 - 40	531.92	34.50
20 - 50	599.72	38.90
40 - 70	134.26	8.70
60 - 80	54.81	3.60
70 - 80	22.15	1.40
80 - 90	19.79	1.30



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	4315.347
1.0	4257.235
3.0	4029.092
9.0	2942.184
13.0	2221.166
17.0	1661.570
22.5	1164.390
29.0	391.717
37.5	139.899
42.5	83.939
55.0	43.046
65.0	25.828
75.0	17.218

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	20	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57

LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	5448	5448	5448
55	3951	3951	3951
65	3217	3217	3217
75	3502	3502	3502
85	7800	7800	7800

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	270.79
10-20	564.10
20-30	417.76
30-40	114.16
40-50	67.80
50-60	33.80
60-70	32.66
70-80	22.15
80-90	19.79
90-100	0.00

MULTIPLIERS

LED LUMENS

3,000K	1.50
2,000K	1.00
1,400K	0.70

FINISHES

Satin Haze	1.0
White	0.9

COLOR TEMP

2,700K	0.97
3,000K	1.00
3,500K	1.01
4,000K	1.03