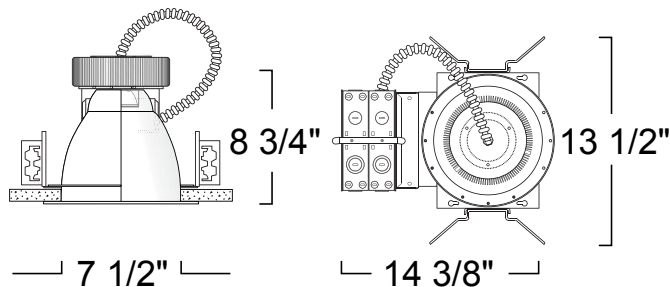


8" Architectural LED Frame-Kit (1400/1900/2000/3000 Lumen) w/ 8" Architectural Shallow LED Retrofit (1400/1900 Lumen) 8" LED ARCHITECTURAL DOWNLIGHT



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 shallow LED recessed downlight retrofit with omnidirectional lumen output similar to CFL downlights. Ideal for low to high ceiling heights in commercial applications that require smooth ambient lighting without sacrificing footcandles.

Reflector Construction: One piece self-flanged 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. Held in place with 2 steel pressure springs.

Driver: 50/60Hz Electronic Direct Current Class 2 driver integrally mounted on thermally stabilized heat sink. Input current 0.50 Amps at 115VAC. Power Factor > 0.90 Operating Temperature: -30°C to +80°C. Accessible from above or below ceiling. Consult factory for compatible dimmers. See ordering guide for dimming options.

Emergency Option: 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).

Dimming: The UniDim™ option (-DUN) is a universal dimming system that works with most ELV, Incandescent and 0-10V dimming controls.

Retrofit Mounting: Designed for use with existing 8" Architectural Incandescent, Compact Fluorescent and Metal Halide housings like LITON brand LVH8, LH800 and LHM800. Supplied with metal conduit for connection to existing electrical junction box. Features specially designed pressure spring clips that hold the retrofit trim firmly to the existing frame-in kit. Very easy to install.

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 SHALLOW LED RETROFIT (1400/2400 LUMEN LED)

LRCLD802 120V/277V 12W/25W LED

FINISH	LUMEN PACKAGE	OPTIONS	LED COLOR
LRCLD802WWF :White	100-R12 :1400 Lumens	Blank :Non-Dimming	Blank :4000K
	240-R25 :2400 Lumens	UE :Non-Dimming (120V/277V)	-T30 :3000K
		UE-D10 :0-10V Dimming (120V/277V)	
		UE-DUN* :Universal Dimming (120V/277V)	

* Not Available for 12W Option

Ordering example: LHALD825C070UE-GTD/L270/LRCLD802WWF240-R25UE-D10

LRCLD802WWF100-R12UE: 8" Shallow LED Retrofit

Lamp: (1) LED, 1400Lm

Total Rated Fixture Lumen : 1041 Lm

Total Luminaire Efficacy : 87 Lm/W

Luminous Diameter : 6.72"

Color Rendering Index (CRI) : 80 +

Color Temperature : 4000K

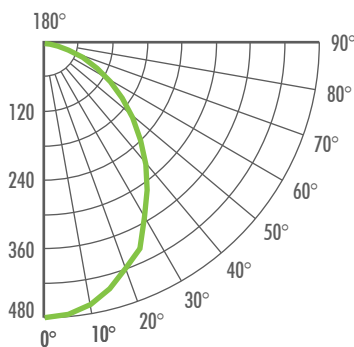
Estimated Life : 50,000 hrs. L70

Fixture Data

	LED Module Lumen	Fixture Lumen	Input Wattage
@ 3000K	1358	1009.0	12W
@ 4000K	1400	1041.0	12W

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	169.99	16.30
0 - 30	350.01	33.60
0 - 40	546.30	52.50
0 - 60	880.59	84.60
0 - 80	1029.30	98.90
0 - 90	1041.02	100.00
10 - 90	995.97	95.70
20 - 40	376.31	36.10
20 - 50	560.83	53.90
40 - 70	435.52	41.80
60 - 80	148.71	14.30
70 - 80	47.48	4.60
80 - 90	11.72	1.10



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	479.985
5.0	475.899
10.0	464.052
15.0	444.169
20.0	418.066
25.0	396.534
30.0	350.895
35.0	313.528
40.0	276.546
45.0	238.508
55.0	166.810
65.0	102.256
75.0	42.746

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	110	106	102	98	107	103	100	97	99	96	94	92	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	77	82	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	73	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	66	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	60	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	55	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	50	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	46	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	43	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	40	35	30	40	34	30	28

LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	14727	14727	14727
55	12698	12698	12698
65	10564	10564	10564
75	7211	7211	7211
85	4910	4910	4910

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	45.05
10-20	124.94
20-30	180.02
30-40	196.29
40-50	184.52
50-60	149.77
60-70	101.23
70-80	47.48
80-90	11.72
90-100	0.00

FOOTCANDLE CHART DATA

Height	Spacing (Ft.)	Avg. FC	Max : Min	Height	Spacing	Avg. FC	Max : Min
8'	5' x 5'	45.1	1.2 : 1	11'	5' x 5'	42.4	1.3 : 1
8'	6' x 6'	32.4	1.1 : 1	11'	6' x 6'	30.8	1.2 : 1
8'	7' x 7'	23.6	1.1 : 1	11'	7' x 7'	22.3	1.1 : 1
8'	8' x 8'	16.9	1.3 : 1	12'	5' x 5'	41.4	1.3 : 1
9'	5' x 5'	44.2	1.2 : 1	12'	6' x 6'	30.2	1.2 : 1
9'	6' x 6'	31.9	1.1 : 1	12'	7' x 7'	21.9	1.1 : 1
9'	7' x 7'	23.2	1.1 : 1	12'	12' x 12'	10.0	1.3 : 1
9'	8' x 8'	16.5	1.4 : 1	15'	5' x 5'	38.6	1.3 : 1
10'	5' x 5'	43.3	1.2 : 1	15'	6' x 6'	28.3	1.3 : 1
10'	6' x 6'	31.4	1.1 : 1	15'	7' x 7'	20.5	1.2 : 1
10'	7' x 7'	22.8	1.1 : 1				
10'	10' x 10'	10.7	1.3 : 1				

LRCLD802WWF240-R25UE: 8" Shallow LED Retrofit

Lamp: (1) LED, 2400Lm

Total Rated Fixture Lumen :1893 Lm

Total Luminaire Efficacy :70 Lm/W

Luminous Diameter :6.72"

Color Rendering Index (CRI) :80 +

Color Temperature :4000K

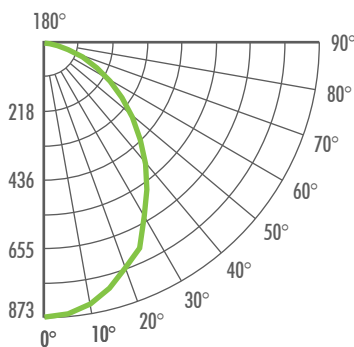
Estimated Life :50,000 hrs. L70

Fixture Data

	LED Module Lumen	Fixture Lumen	Input Wattage
@ 3000K	2328	1836.2	25W
@ 4000K	2400	1893.0	25W

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	309.07	16.30
0 - 30	636.38	33.60
0 - 40	993.28	52.50
0 - 60	1601.07	84.60
0 - 80	1871.45	98.90
0 - 90	1892.76	100.00
10 - 90	1810.84	95.70
20 - 40	684.21	36.10
20 - 50	1019.69	53.90
40 - 70	791.86	41.80
60 - 80	270.38	14.30
70 - 80	86.32	4.60
80 - 90	21.30	1.10



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	872.70
5.0	865.27
10.0	843.73
15.0	807.58
20.0	760.12
25.0	720.97
30.0	637.99
35.0	570.05
40.0	502.81
45.0	433.65
55.0	303.29
65.0	185.92
75.0	77.72

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28

LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	26776	26776	26776
55	23087	23087	23087
65	19208	19208	19208
75	13111	13111	13111
85	8927	8927	8927

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	81.91
10-20	227.16
20-30	327.32
30-40	356.89
40-50	335.48
50-60	272.31
60-70	184.06
70-80	86.32
80-90	21.30
90-100	0.00

FOOTCANDLE CHART DATA

Height	Spacing (Ft.)	Avg. FC	Max : Min	Height	Spacing	Avg. FC	Max : Min
8'	8' x 8'	29.5	1.3 : 1	12'	6' x 6'	54.9	1.2 : 1
9'	6' x 6'	58.1	1.1 : 1	12'	7' x 7'	39.8	1.1 : 1
9'	7' x 7'	42.2	1.1 : 1	12'	8' x 8'	27.7	1.5 : 1
9'	8' x 8'	30.0	1.4 : 1	12'	12' x 12'	12.7	1.3 : 1
10'	6' x 6'	54.9	1.2 : 1	14'	14' x 14'	9.4	1.3 : 1
10'	7' x 7'	42.2	1.1 : 1	15'	6' x 6'	51.5	1.2 : 1
10'	8' x 8'	27.7	1.5 : 1	15'	7' x 7'	37.4	1.2 : 1
10'	10' x 10'	19.4	1.3 : 1	15'	8' x 8'	25.7	1.6 : 1
				18'	6' x 6'	48.0	1.3 : 1
				18'	7' x 7'	34.8	1.2 : 1
				18'	8' x 8'	23.8	1.6 : 1