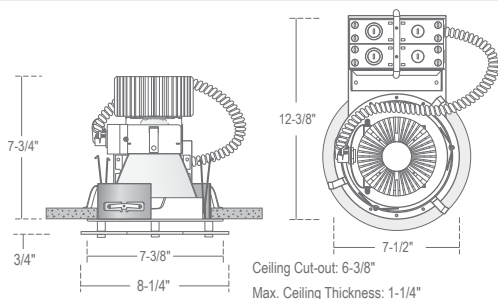


6" Architectural Remodel LED Frame-Kit (1900/2000/3000 Lumen) w/ 6" Architectural LED Glass Deco Open (2000/3000 Lumen) 6" LED ARCHITECTURAL DOWNLIGHT



SPECIFICATION

Application: Architectural-grade recessed LED downlight housing for medium to high ceilings in commercial and architectural spaces.

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 existing or new construction installations, supplied with 4 high tension remodeling clips, designed to secure the housing to an existing sheetrock ceiling up to 1" thick for fast and easy installation from below the ceiling line.

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 low to medium height ceilings for commercial and architectural installations. Reflector designed for minimal glare from lamp without sacrificing lumen output. Decorative glass accent brings style and elegance to any decor. Reduces lamp image while adding a subtle decorative element to architecture.

"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. -B60 option includes Impact-Resistant Polycarbonate lens."

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.

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.

Safety Labels: ETL/cETL listed to UL1598 and UL8750. Suitable for damp and wet locations. NYC approved: Calendar #41937.

6" ARCHITECTURAL REMODEL LED FRAME-KIT LHALD6R25 25W LED, Ceiling Cut Out: 6 3/4"

DRIVER TYPE	OPTION
LHALD6R25C071UE :Non-Dimming (120V/277V)	Blank :None
LHALD6R25C071UE-D10 :0-10V 10% Dimming (120V/277V)	-EM2 :Emergency (10W)
LHALD6R25C071UE-DHL :HiLume 1% Dimming (120V/277V)	-GTD :Generator Transfer Device
LHALD6R25C071UE-DUN :UniDim™ Dimming (120V/277V)	
LHALD6R25C071UE-D10P1 :0-10V 1% Dimming (120V/277V)	
LHALD6R25C071UE-DLI :DALI Dimming (120V/277V)	
LHALD6R25C071UE-DEC :Lutron Ecosystem (120V/277V)	
LHALD6R25C071-DINPZ :2-Wire 0% (120V)	
LHALD6R25C071-347-D10 :347V 0-10V 10% Dimming	

6" ARCHITECTURAL LED GLASS DECO OPEN (2000/3000 LUMEN) LRALD6021 25W LED

Ordering example: LHALD6R25C071UE-DHL-EM2/LRALD6021SWF151-T27-FR

FINISH	LUMEN PACKAGE	BEAM	LED
LRALD6021SWF :Satin Reflector/White Flange	151 :2000 Lm	Blank :Flood	Blank :3000K
LRALD6021WWF :White Reflector & Flange	240 :3000 Lm	-B60 :Wide Flood	-C97 :3000K, 97CRI**
			-T17 :1700K*
			-T25 :2500K*
			-T27 :2700K
			-T27-C90 :2700K 90+ CRI*
			-T27-C97 :2700K, 97CRI**
			-T35 :3500K
			-T40 :4000K

* Extended Lead Time may apply. Consult Factory.
**Only available in 2700K and 3000K.

LRALD6SWF240: 6" LED Downlight

Lamp: (1) LED

Total Rated Fixture Lumen :2345 Lm

Total Luminaire Efficacy :85 Lm/W

Luminous Diameter :5.64"

Color Rendering Index (CRI) :80 +

Color Temperature :3000K

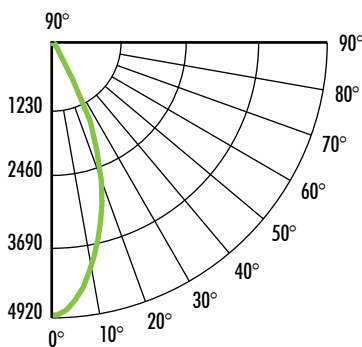
Estimated Life :45,000 hrs. L70

Fixture Data

	LED Module Lumen	Fixture Lumen	Input Wattage
@ 3000K	1400	1136.0	19W
	2000	1623.0	25W
	3000	2345.0	28W
@ 4000K	1442	1170.0	19W
	2060	1671.0	25W
	3090	2415.0	28W

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	1299.57	55.40
0 - 30	2025.47	86.40
0 - 40	2183.46	93.10
0 - 60	2295.81	97.90
0 - 80	2334.24	99.50
0 - 90	2345.33	100.00
10 - 90	1993.61	85.00
20 - 40	883.89	37.70
20 - 50	959.38	40.90
40 - 70	138.43	5.90
60 - 80	38.43	1.60
70 - 80	12.35	0.50
80 - 90	11.08	0.50



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	4920.0
1.0	4916.0
3.0	4832.0
9.0	4208.0
13.0	3632.0
15.0	3334.0
22.5	2089.0
29.0	745.0
33.0	214.0
42.5	101.0
55.0	41.0
65.0	14.0
75.0	10.0

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	114	111	111	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	104	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	98	90	102	97	92	89	94	91	88	92	89	86	89	87	85	84
4	99	93	93	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79
5	95	88	88	79	94	87	82	78	85	81	78	83	80	77	82	79	76	75
6	91	83	83	74	90	83	77	74	81	77	73	80	76	73	78	75	72	71
7	88	79	79	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	76	76	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	72	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	69	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	7670	7670	7670
55	4431	4431	4431
65	2053	2053	2053
75	2395	2395	2395
85	4978	4978	4978

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	351.72
10-20	947.85
20-30	725.90
30-40	157.99
40-50	75.49
50-60	36.86
60-70	26.08
70-80	12.35
80-90	11.08
90-100	0.00

MULTIPLIERS

LED LUMENS

3,000K	1.00
2,000K	0.67
1,400K	0.47

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

LRALD6SWF240-B60: 6" LED 60° Downlight

Lamp: (1) LED, 28W 1785Lm

Total Rated Fixture Lumen : 1785 Lm

Total Luminaire Efficacy : 64 Lm/W

Luminous Diameter : 5.64"

Color Rendering Index (CRI) : 80 +

Color Temperature : 3050K

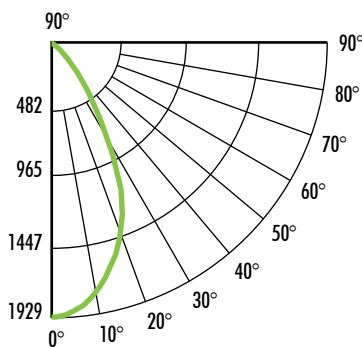
Estimated Life : 45,000 hrs. L70

Fixture Data

	LED Module Lumen	Fixture Lumen	Input Wattage
@ 3000K	1400	838.0	19W
	2000	1195.0	25W
	3000	1785.0	28W
@ 4000K	1442	863.0	19W
	2060	1230.0	25W
	3090	1838.0	28W

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	604.11	33.80
0 - 30	1109.79	62.60
0 - 40	1432.93	80.30
0 - 60	1712.00	95.90
0 - 80	1774.47	99.40
0 - 90	1785.28	100.00
10 - 90	1640.61	91.90
20 - 40	828.82	46.40
20 - 50	1034.50	57.90
40 - 70	325.07	18.20
60 - 80	62.47	3.50
70 - 80	16.47	0.90
80 - 90	10.81	0.60



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	1929.0
1.0	1927.0
3.0	1916.0
9.0	1812.0
13.0	1693.0
15.0	1624.0
22.5	1308.0
29.0	893.0
33.0	632.0
42.5	272.0
55.0	76.0
65.0	21.0
75.0	11.0

MULTIPLE FIXTURE SPACING BASED ON 25' x 25' ROOM

B60 OPTION

Ceiling Height	Recommended Fixture	Fixture Spacing	Average FC's	Min : Max
9'	19W / 1400 Lumens	6.25' x 6.25'	13.4	1.6 : 1
12'	25W / 2000 Lumens	8.50' x 8.50'	17.6	1.4 : 1
15'	28W / 3000 Lumens	8.25' x 8.25'	22.8	1.7 : 1
20'	28W / 3000 Lumens	8.25' x 8.25'	20.6	1.4 : 1

Note: SWF finish, 3000K, 80 CRI used in calculation

LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	18627	18627	18627
55	8213	8213	8213
65	3080	3080	3080
75	2634	2634	2634
85	4267	4267	4267

MULTIPLIERS

LED LUMENS		FINISHES		COLOR TEMP	
3,000K	1.00	Satin Haze	1.0	2,700K	0.97
2,000K	0.67	White	0.9	3,000K	1.00
1,400K	0.47			3,500K	1.01
				4,000K	1.03

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	144.67
10-20	459.44
20-30	505.68
30-40	323.14
40-50	205.68
50-60	73.39
60-70	46.00
70-80	16.47
80-90	10.81
90-100	0.00