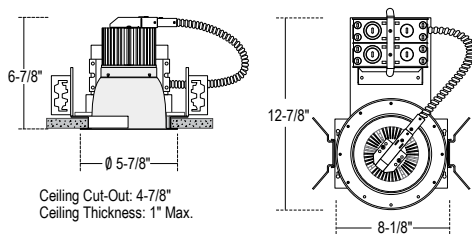


4" Architectural LED Frame-Kit (2000/3000 Lumen) GEN3 w/ 4" Architectural LED Trim (2000/3000 Lumen) GEN3 4" LED ARCHITECTURAL DOWNLIGHT



SPECIFICATION

Ceiling cut-out: 4 3/4"
25W/2000LM 32W/3000LM

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

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.

Warm Dimming: With this new technology, you can create the warm glow of traditional incandescent dimming while offering extraordinary energy efficiency and service life of LED Lighting. Allow for fixture start at a full 3050K when at full-brightness and smoothly dim down to 5% level with the warm glow of 1850K using dimming option the frame-in kit.

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.

4" ARCHITECTURAL LED FRAME-KIT (25W) GEN3 LHALD425 Ceiling Cut-Out: 4-3/4" 25W/2000LM 32W/3000LM LED

DRIVER TYPE	OPTION	HANGER BAR
LHALD425C072UE :Non-Dimming	Blank :None	/C260 :C-Channel Hanger Bar Set
LHALD425C072UE-D10 :0-10V 10% Dimming	-EM2 :Emergency (10W)	/C260-J :Adjustable C-Channel Hanger Bar Set
LHALD425C072UE-DHL :HiLume 1% Dimming	-GTD :Generator Transfer Device	
LHALD425C072UE-DUN :UniDim™ Universal Dimming		
LHALD425C072UE-D10P1 :0-10V 1% Dimming		
LHALD425C072UE-DEC :Lutron Ecosystem		
LHALD425C072UE-DLI :DALI Dimming		
LHALD425C072-DINP1 :2-Wire 1% Dimming (120V)		
LHALD425C072UE-DMX :DMX Dimming (120-277V)		

4" ARCHITECTURAL LED TRIM (2000/3000 LUMEN) GEN3 LRALD4 25W/2000LM 32W/3000LM LED Ordering example: LHALD425C072-DINPZ/C260/LRALD4SSP242-B25-C90

FINISH	LUMEN PACKAGE	BEAM SPREAD	LED
LRALD4SSF :Satin Haze Refl/Satin Flange	152 :2000Lm 25W	Blank :45° Flood	Blank :3000K,80 CRI
LRALD4SWF :Satin Haze Refl/White Flange	242 :3000Lm 32W	-B25 :25° Narrow	-C90 :3000K,90 CRI
LRALD4WWF :White Reflector/White Flange		-B60 :60° Wide	-C97 :3000K,97CRI**
			-T17 :1700K*
			-T25 :2500K*
			-T27 :2700K,90 CRI
			-T27-C97 :2700K,97CRI**
			-T35 :3500K,90 CRI
			-T40 :4000K,90 CRI
			-TWD :1850K-3050K Warm Dimming***

* Extended Lead Time may apply. Consult Factory.
**Only available in 2700K and 3000K.
***Only available for 2000Lm package

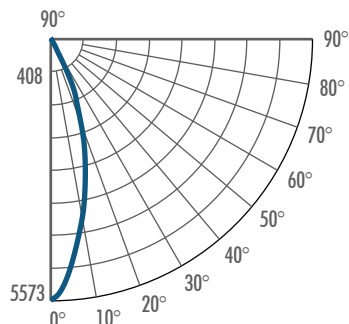
LRALD4 (GEN3) - PHOTOMETRY

4" ARCHITECTURAL LED TRIM

LRALD4SWF152-T40 - 2000lm - Flood - 4000K

System Power	:27.0W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:31.9°	3000K	0.97
Field Angle 10%	:57.9°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:80.0	1700K	0.42
Lumens Delivered	:2185lm	CRI	
CBCP	:5573cd	80CRI (Blank)	:1.00
Power Factor	:1.00	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



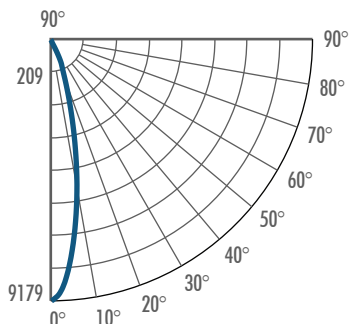
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	5.7'	56.0
14'	8.1'	28.6
18'	10.3'	17.3
22'	12.6'	11.6
28'	16.0'	7.1

LRALD4SWF152-B25-T40 - 2000lm - Narrow - 4000K

System Power	:27.0W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:23.5°	3000K	0.97
Field Angle 10%	:50.2°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:80.0	1700K	0.42
R9 Value	:69.7	CRI	
Lumens Delivered	:2235lm	80CRI (Blank)	:1.00
CBCP	:9131cd	90CRI (-C90)	:0.71
Power Factor	:1.00	97CRI (-C97)	:0.73

CANDELA TABULATION



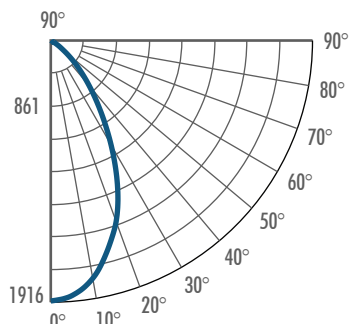
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	4.2'	91.8
15'	6.2'	40.8
20'	8.3'	23.0
25'	10.4'	14.7
36'	15.0'	7.1

LRALD4SWF152-B60-T40 - 2000lm - Wide - 4000K

System Power	:27.0W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:56.4°	3000K	0.97
Field Angle 10%	:96.7°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:80.0	1700K	0.42
R9 Value	:68.7	CRI	
Lumens Delivered	:1976lm	80CRI (Blank)	:1.00
CBCP	:1916cd	90CRI (-C90)	:0.71
Power Factor	:1.00	97CRI (-C97)	:0.73

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	10.7'	19.2
12'	12.9'	13.3
14'	15.0'	9.8
16'	17.2'	7.5
16.3'	17.5'	7.2

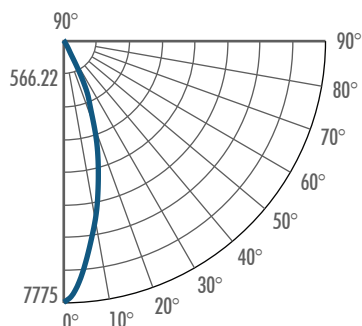
LRALD4 (GEN3) - PHOTOMETRY

4" ARCHITECTURAL LED TRIM

LRALD4SWF242-T40-C90 - 3000lm - Flood - 4000K

System Power	:32.2W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:31.9°	3000K	0.97
Field Angle 10%	:57.9°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:90.0	1700K	0.42
Lumens Delivered	:3035lm	CRI	
CBCP	:7740cd	80CRI (Blank)	:1.00
Power Factor	:1.00	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



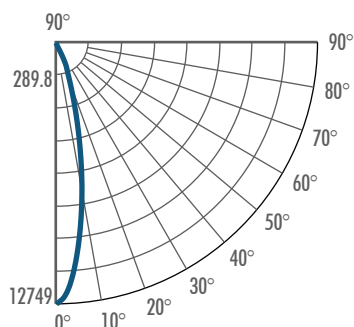
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	5.7'	77.8
14'	8.1'	39.7
18'	10.3'	24.0
22'	12.6'	16.1
28'	16.0'	9.9

LRALD4SWF242-B25-T40-C90 - 3000lm - Narrow - 4000K

System Power	:32.4W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:23.5°	3000K	0.97
Field Angle 10%	:50.2°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:90.0	1700K	0.42
R9 Value	:69.7	CRI	
Lumens Delivered	:3104lm	80CRI (Blank)	:1.00
CBCP	:12682cd	90CRI (-C90)	:0.71
Power Factor	:1.00	97CRI (-C97)	:0.73

CANDELA TABULATION



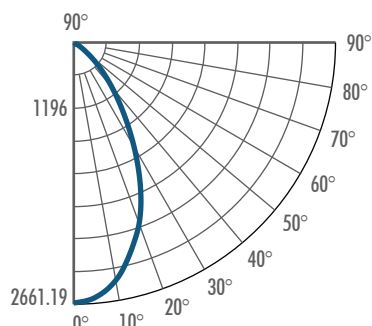
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	4.2'	127.5
15'	6.2'	56.7
20'	8.3'	31.9
25'	10.4'	20.4
36'	15.0'	9.8

LRALD4SWF242-B60-T40-C90 - 3000LM - Wide - 4000K

System Power	:32.2W	Multipliers	
Test Date	:7/2016	3500K	0.99
Beam Angle 50%	:56.4°	3000K	0.97
Field Angle 10%	:96.7°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:90.0	1700K	0.42
R9 Value	:68.7	CRI	
Lumens Delivered	:2745lm	80CRI (Blank)	:1.00
CBCP	:2661cd	90CRI (-C90)	:0.71
Power Factor	:1.00	97CRI (-C97)	:0.73

CANDELA TABULATION



FOOTCANDLE DISTANCE

Height	Beam Diameter	FC
10'	10.7'	26.6
12'	12.9'	18.5
14'	15.0'	13.6
16'	17.2'	10.4
16.3'	17.5'	10