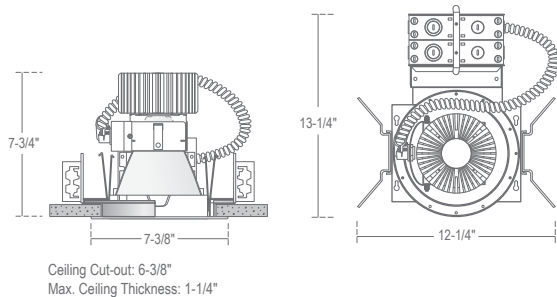


6" Architectural LED Frame-Kit (1200Lm/1600Lm) w/ 6" Architectural LED Trim (1200Lm/1600Lm) 6" LED ARCHITECTURAL DOWNLIGHT



SPECIFICATION

12W LED

Application: Architectural-grade recessed LED downlight housing for medium to high ceilings in commercial and architectural spaces. Housing supports 1200/1900 delivered 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.

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.

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. -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.

Label: ETL/cETL Listed to UL1598 and UL8750. Suitable for damp and wet locations. NYC approved: Calendar #41937.

CRI: 80 CRI standard, 90 CRI option in 2700K only.

6" ARCHITECTURAL LED FRAME-KIT (1200LM/1600LM)

LHALD612 12W LED

DRIVER TYPE	OPTION	HANGER BAR
LHALD612C03SUE :120V/277V Non-Dimming	Blank :None	/C260 :C-Channel Hanger Bar Set
LHALD612C03SUE-D10 :120V/277V 0-10V Dimming	-GTD :Generator Transfer Device	/C260-J :Adjustable C-Channel Hanger Bar Set
LHALD612C03SUE-DHL :Hi-Lume Dimming (120V/277V)		
LHALD612C03SUE-DUN :120V/277 (2-WIRE,ELV,0-10V)		
LHALD612C03S-347-D10 :347V 0-10V 10% Dimming		
LHALD612C03SUE-D10P1 :0-10V 1% Dimming		

6" ARCHITECTURAL LED TRIM (1200LM/1600LM)

LRALD6 12W LED

Ordering example: LHALD612C03SUE-D10P1/C260/LRALD6SSF102-C90

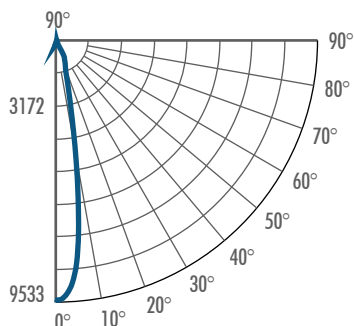
FINISH	BEAM SPREAD	LED
LRALD6SSF102 :Satin Refl/Flange (1200Lm)	Blank :Flood	Blank :3000K
LRALD6SSF160 :Satin Refl/Flange (1600Lm)	-B15 :Spot	-C90 :3000K, 90CRI
LRALD6SWF102 :Satin Refl/Wht Flange (1200Lm)	-B25 :Narrow Flood	-C97 :3000K, 97CRI**
LRALD6SWF160 :Satin Refl/Wht Flange (1600Lm)	-B60 :Wide Flood	-T17 :1700K*
LRALD6WWF102 :White Refl/Flange (1200Lm)		-T25 :2500K*
LRALD6WWF160 :White Refl/Flange (1600Lm)		-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.

LRALD6SSF102-B15-T40 - 12W/1200lm - SPOT - 4000K

System Power	:15.0W	Multipliers	
Test Date	:11/2016	6500K	1.30
Beam Angle 50%	:17.9°	3500K	0.99
Field Angle 10%	:39.7°	3000K	0.97
Color Temperature	:4021K	2700K	0.95
CRI	:84.8	2500K	0.45
R9 Value	:20.4	1700K	0.42
Lumens Delivered	:1643lm	CRI	
CBCP	:9536cd	80CRI (Blank)	:1.00
Power Factor	:0.92	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



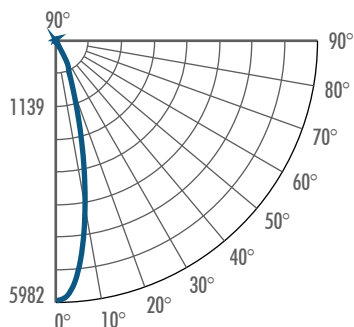
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	1.0'	885.7
6.6'	2.1'	221.4
9.8'	3.1'	98.4
13.1'	4.1'	55.4
16.4'	5.2'	35.4

LRALD6SSF102-B25-T40 - 12W/1200lm - NARROW FLOOD - 4000K

System Power	:15.0W	Multipliers	
Test Date	:11/2016	6500K	1.30
Beam Angle 50%	:25.1°	3500K	0.99
Field Angle 10%	:54.0°	3000K	0.97
Color Temperature	:3992K	2700K	0.95
CRI	:85.7	2500K	0.45
R9 Value	:23.9	1700K	0.42
Lumens Delivered	:1618lm	CRI	
CBCP	:6004cd	80CRI (Blank)	:1.00
Power Factor	:0.92	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



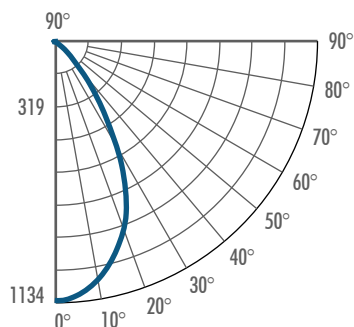
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	1.5'	555.8
6.6'	2.9'	138.9
9.8'	4.4'	61.8
13.1'	5.8'	34.7
16.4'	7.3'	22.2

LRALD6SSF102-B60-T40 - 12W/1200lm - WIDE FLOOD - 4000K

System Power	:15.1W	Multipliers	
Test Date	:11/2016	6500K	1.30
Beam Angle 50%	:60.7°	3500K	0.99
Field Angle 10%	:97.3°	3000K	0.97
Color Temperature	:3894K	2700K	0.95
CRI	:85.3	2500K	0.45
R9 Value	:22.0	1700K	0.42
Lumens Delivered	:1275lm	CRI	
CBCP	:1136cd	80CRI (Blank)	:1.00
Power Factor	:0.92	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	3.8'	105.4
6.6'	7.7'	26.3
9.8'	11.5'	11.7
13.1'	15.4'	6.6
16.4'	19.2'	4.2

RECOMMENDED SPACING

9 FEET

Layout	FC	Max/Min
8 x 8	17	4.63
6 x 6	32	9.12

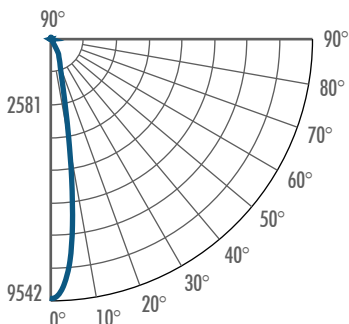
10 FEET

Layout	FC	Max/Min
10 x 10	32	1.92
8 x 8	18	4.85
6 x 6	13	15.02

LRALD6SWF160-B15-T40 - SPOT - 4000K

System Power	:13.4W	Multipliers	
Test Date	:2/2017	6500K	1.30
Beam Angle 50%	:17.8°	3500K	0.99
Field Angle 10%	:41.2°	3000K	0.97
Color Temperature	:4005K	2700K	0.95
CRI	:84.0	2500K	0.45
R9 Value	:21.8	1700K	0.42
Lumens Delivered	:1707Lm	CRI	
CBCP	:9556cd	80CRI (Blank)	:1.00
Power Factor	:0.99	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



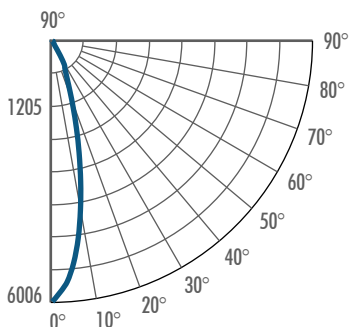
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	1.0'	886.4
6.6'	2.1'	221.6
9.8'	3.1'	98.5
13.1'	4.1'	55.4
16.4'	5.1'	35.5

LRALD6SWF160-B25-T40 - NARROW FLOOD - 4000K

System Power	:13.4W	Multipliers	
Test Date	:2/2017	6500K	1.30
Beam Angle 50%	:25.2°	3500K	0.99
Field Angle 10%	:55.0°	3000K	0.97
Color Temperature	:4014K	2700K	0.95
CRI	:84.7	2500K	0.45
R9 Value	:26.5	1700K	0.42
Lumens Delivered	:1680Lm	CRI	
CBCP	:6026cd	80CRI (Blank)	:1.00
Power Factor	:0.99	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



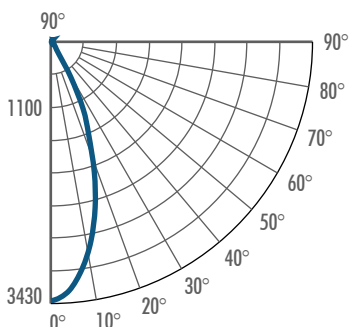
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	1.5'	558.0
6.6'	2.9'	139.5
9.8'	4.4'	60.2
13.1'	5.9'	34.9
16.4'	7.3'	22.3

LRALD6SWF160-T40 - FLOOD - 4000K

System Power	:13.4W	Multipliers	
Test Date	:2/2017	6500K	1.30
Beam Angle 50%	:37.6°	3500K	0.99
Field Angle 10%	:61.7°	3000K	0.97
Color Temperature	:4017K	2700K	0.95
CRI	:84.6	2500K	0.45
R9 Value	:26.1	1700K	0.42
Lumens Delivered	:1626Lm	CRI	
CBCP	:3443cd	80CRI (Blank)	:1.00
Power Factor	:0.99	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



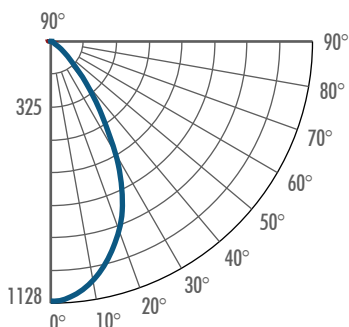
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	2.2'	318.7
6.6'	4.5'	79.7
9.8'	6.7'	35.4
13.1'	8.9'	19.9
16.4'	11.2'	12.7

LRALD6SWF160-B60-T40 - WIDE FLOOD - 4000K

System Power	:13.4W	Multipliers	
Test Date	:2/2017	6500K	1.30
Beam Angle 50%	:61.0°	3500K	0.99
Field Angle 10%	:98.0°	3000K	0.97
Color Temperature	:3937K	2700K	0.95
CRI	:84.3	2500K	0.45
R9 Value	:23.9	1700K	0.42
Lumens Delivered	:1302Lm	CRI	
CBCP	:1131cd	80CRI (Blank)	:1.00
Power Factor	:0.99	90CRI (-C90)	:0.71
		97CRI (-C97)	:0.73

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
3.3'	3.9'	104.8
6.6'	7.7'	26.2
9.8'	11.6'	11.6
13.1'	15.5'	6.5
16.4'	19.3'	4.2