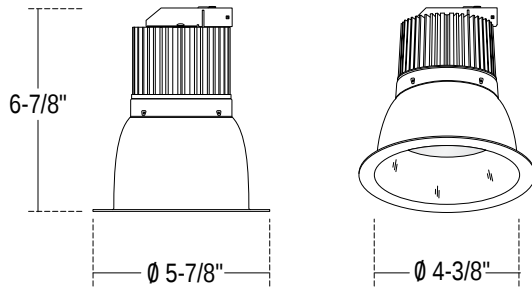


LRALD4 - 4" ARCHITECTURAL LED TRIM (1100LM/1600LM)

4" ARCHITECTURAL LED DOWNLIGHTING



SPECIFICATION

13W LED

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.

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.

Finish: One piece low-iridescent spun aluminum reflector with seamless self-flanged ring. Available in Satin Reflector/Satin Flange, Satin Reflector/White Flange and White Reflector/White Flange.

Lumens: Available in 1100 Lm and 1600 Lm.

Beam Spread: Available in 45°, 25° and 60°.

LED: Available in 3000K, 3000K, 97CRI**, 1700K*, 2500K*, 2700K, 2700K, 97CRI**, 3500K and 4000K.

Label: cETL Listed

COMPATIBILITY



LHALD4R11

**4" ARCHITECTURAL
LED REMODEL FRAME-
KIT (1100LM/1600LM) GEN3**



LHALD411

**4" ARCHITECTURAL
LED FRAME-KIT
(1100LM/1600LM) GEN3**

Note: Wattage limitations on compatible items must be met.

Assembled in USA

LED Details:

13W 1100 Lumen Package

Color Rendering Index (CRI): 80

Color Temperature: 3,000K

Lamp Equivalents: 75W A-Lamp, 60W PAR20, 50W MR16

13W 1600 Lumen Package

Color Rendering Index (CRI): 80

Color Temperature: 3,000K

Lamp Equivalents: 75W A-Lamp, 60W PAR20, 50W MR16

Benefit:

- 80 CRI Standard
- Low Glare Dual-Optical Design
- Tool-Less LED Module Replacement
- New 25°, 45° and 60° Options

FEATURE:



ORDERING EXAMPLE : LRALD4SSF062-T17

LRALD4	FINISH	LUMENS	BEAM SPREAD	LED
LRALD4	SSF :Satin Reflector/Satin Flange	062:1100 Lm	Blank :45°	Blank :3000K
	SWF :Satin Reflector/White Flange	160:1600 Lm	-B25 :25°	-C90 :3000K, 90CRI
	WWF :White Reflector/White Flange		-B60 :60°	-C97 :3000K, 97CRI*
				-T17 :1700K*
				-T25 :2500K* ^
				-T27 :2700K,
				-T27-C90 :2700K, 90 CRI
				-T27-C97 :2700K, 97CRI*
				-T35 :3500K
				-T40 :4000K
				-T65 :6500K

*Extended Lead Time may apply. Consult Factory. ^ LRALD4SWF160-T25 discontinued.



Tel: 323.904.0200

Product specifications subject to change without notice.

www.liton.com



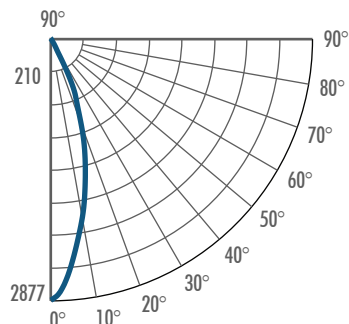
LRALD4 (GEN3) - PHOTOMETRY

4" ARCHITECTURAL LED TRIM

LRALD4SWF062-T40 - 1100lm - Flood - 4000K

System Power	:13.0W	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
R9 Value	:69.7	CRI	
Lumens Delivered	:1123lm	80CRI (Blank)	:1.00
CBCP	:2827cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



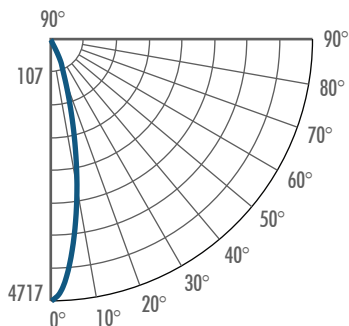
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8'	4.6'	44.2
12'	6.9'	19.6
16'	9.1'	11.0
20'	11.4'	7.1
28'	16.0'	3.6

LRALD4SWF062-B25-T40 - 1100lm - Narrow - 4000K

System Power	:13.0W	Multipliers	
Test Date	:11/2016	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	:1148lm	80CRI (Blank)	:1.00
CBCP	:4715cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



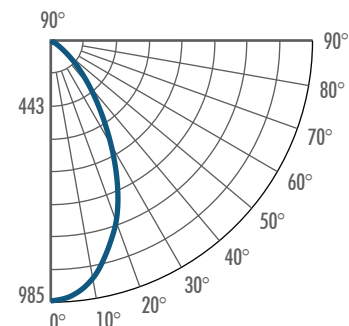
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8'	3.3'	73.7
12'	5.0'	32.7
18'	7.5'	14.6
24'	10.0'	8.2
36'	15.0'	3.6

LRALD4SWF062-B60-T40 - 1100lm - Wide - 4000K

System Power	:13.0W	Multipliers	
Test Date	:11/2016	3500K	0.99
Beam Angle 50%	:56.4°	3000K	0.97
Field Angle 10%	:96.3°	2700K	0.95
Color Temperature	:4000K	2500K	0.45
CRI	:80.0	1700K	0.42
R9 Value	:68.7	CRI	
Lumens Delivered	:1016lm	80CRI (Blank)	:1.00
CBCP	:985cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
6'	6.4'	27.4
8'	8.6'	15.4
10'	10.7'	9.9
12'	12.9'	6.8
16'	17.2'	3.8

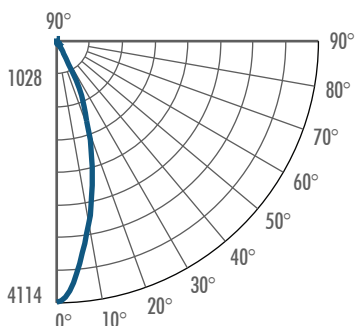
LRALD4 (GEN3) - PHOTOMETRY

4" ARCHITECTURAL LED TRIM

LRALD4SWF160-T40 - 1600lm - Flood - 4000K

System Power	:13.0W	Multipliers	
Test Date	:7/2017	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
R9 Value	:69.3	CRI	
Lumens Delivered	:1605lm	80CRI (Blank)	:1.00
CBCP	:4114cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



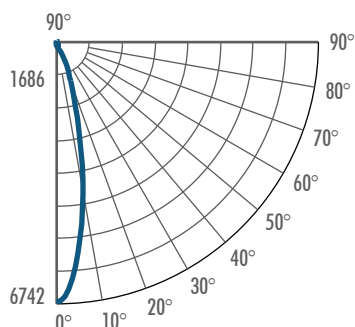
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	5.7'	41.1
20'	11.4'	10.3
25'	14.3'	6.6
30'	17.1'	4.6
35'	20.0'	3.4

LRALD4SWF160-B25-T40 - 1600lm - Narrow - 4000K

System Power	:13.0W	Multipliers	
Test Date	:7/2017	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	:1148lm	80CRI (Blank)	:1.00
CBCP	:6742cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



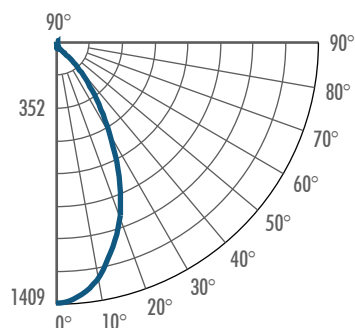
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10'	4.2'	67.4
15'	6.2'	30.0
20'	8.3'	16.9
30'	12.5'	7.5
45'	18.7'	3.3

LRALD4SWF160-B60-T40 - 1600lm - Wide - 4000K

System Power	:13.0W	Multipliers	
Test Date	:7/2017	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	:1452lm	80CRI (Blank)	:1.00
CBCP	:1409cd	97CRI (-C97)	:0.73
Power Factor	:1.00		

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8'	8.6'	22.0
10'	10.7'	14.1
12'	12.9'	9.8
16'	17.2'	5.5
20'	21.4'	3.5