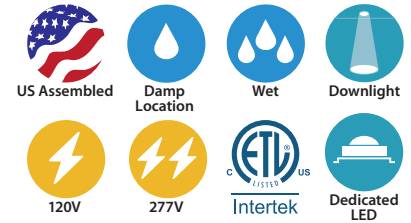
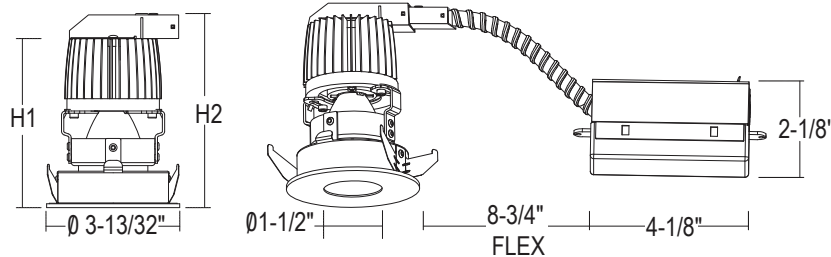


LRLD2519: 2.5" P-SERIES

RECESSED LED - ROUND PINHOLE, 600LM/980LM/1400LM



- 600lm (15W), 980lm (22W), and 1400lm (30W) lumen packages
- Equivalent to 75W MR16 Output
- Ideal where space is limited and energy savings is important
- Available Wet Location Option
- 0.5% dimming for 600lm (-L09), 5% dimming for 980lm (-L14), and 1400lm (-L24)



-L09:
H1: 4-3/8"
H2: 5"

-L14:
H1: 5-5/8"
H2: 6-1/4"

Ceiling Cut-Out: 2-15/16" Max
Ceiling Thickness: 3" Max



LRLD2519
Pinhole

ORDERING : LRLD2519BB-L09-T27-DUN-WL

Fixture	Reflector Finish	Lumens	Color Temp	Driver	Rating
Fixture			Color Temp		Driver
Pinhole	LRLD2519		90 CRI		120V, Triac Dimming Blank
Reflector Finish			3000K (90 CRI)	Blank	0-10V Dimming UE-D10
All White	WW		1700K (90 CRI)	-T17	120V/277V UniDim™ UE-DUN
Black/White	BW		2700K (90 CRI)	-T27	0-10V, ELV, Triac Dimming (5%)
All Black	BB		3500K (90 CRI)	-T35	0-10V Dimming (1%) UE-D10P1
Lumens			4000K (90 CRI)	-T40	Lutron EcoSystem Dimming (1%) -DEC⁶
600lm (15W)	-L09²		97 CRI		Rating
980lm (22W)	-L14⁴		3000K (97 CRI)	-C97	None Blank
1400lm (30W)	-L24^{4,6}		2700K (97 CRI)	-T27-C97	Airtight Lensed (Wet Location) -WL
			3000K - 1800K Warm Dimming	-TWD^{2,4}	4" JBox (Chicago Plenum) -JB-CHP

² Warm Dimming (-TWD) only available for (-L09) lumen package.

⁴ (-TWD) Warming Dimming, (-L14) 1400lm and (-L24) 2400lm are not available for both LHLD25IC-FRM (IC) or LHFRD25 (Fire-Rated)

⁶ (-T17) 1700K color temperature, (-DEC) Lutron EcoSystem, and (-TWD) Warm Dimming options are not available for 2400lm (-L24) lumen package.

*Special order, minimum order. Lead times apply. Consult factory for emergency battery options.
LRLD2519 and LHLD25-FRM for (-L14) 1200lm is available with LFB2012 for Fire-Rated Application.

NOTE: For commercial applications with 1/2" Pipe or Flex-Conduit (**LITON# PCT031**) Fitting Adaptor should be used. Consult Factory.

SPECIFICATION

Application

This high-output, miniature pinhole LED trim has a narrow aperture that greatly reduces glare. Perfect for commercial and high-end residential applications. Great for isolating objects and restricting the beam to a desired location without leaking into other areas.

Housing

Suitable for remodel or new construction installations. Designed to secure to existing sheet rock or panel ceilings up to 3" thick.

Thermal Management:

Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Lens

Airtight lens available for wet locations. Specify "WL" when ordering.

Junction Box

(L09 - 120V Triac Option) - 24 gauge pre-wired galvanized steel Junction Box. 7 cubic-inch for a maximum of (4) #12 AWG wires. (2) 1/4" Romex knock-outs. Remove covers for easy access and ground wire.

Alternate Junction Box: 18 gauge pre-wired aluminum Junction Box. 7 cubic-inch for a maximum of (4) #12 AWG wires. (2) 1/2" knock-outs. Remove covers for easy access and ground wire.

For 1/2" Pipe or Flex-Conduit (LITON# PCT031) Fitting Adaptor should be used. Consult Factory.

Trim Ring

Friction clips hold Round trim and LED Light Engine secure to sheet rock ceiling or Housing Frame.

Reflector

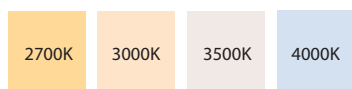
Multifaceted Specular Reflector locks into place on LED Light Engine.

Optics

LED Light Engine:

COB (Chip on Board) LED is replaceable via quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Color Temperature:



Comes standard with 3000K (90 CRI) Warm White LEDs binned to 3-step MacAdam ellipses within the ANSI C78 377A standard for color temperature and chromaticity ranges light binning allowance. Also available in 2700K, 3500K, 4000K, (90 CRI), and 2700K, 3000K, (97 CRI). Also available with 3000K-1800K Warm Dimming.

Lumen Maintenance:

Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

SPECIFICATION (Continued)

Electrical Components

Dimming: Standard driver is 120V, triac dimming to 0.5% for 600lm (-L09), 5% dimming for 980lm (-L14). Optional 120V/277V 0-10V (UE-D10) dimming works with most 5-wire, 0-10V dimmers. Optional UniDim™ (UE-DUN) for 120V/277V 0-10V, ELV triac dimming (5%). Optional 120V/277V 0-10V dimming (1%) (UE-D10P1). Lutron EcoSystem dimming (1%) is also available, special order, minimum order, lead times apply.

Finishes

Finishes are BW-Black/White, BB - All Black.

Certifications and Listings

ETL/cETL listed to UL1598 and UL8750. Suitable for damp and wet locations. NYC approved: Calendar #41937. CCEA (City of Chicago Environmental Air) Certified: Conforms to CCEA-200 with Section 18-27-300.22 and special requirements Section 14-20-210C-4.

Caution

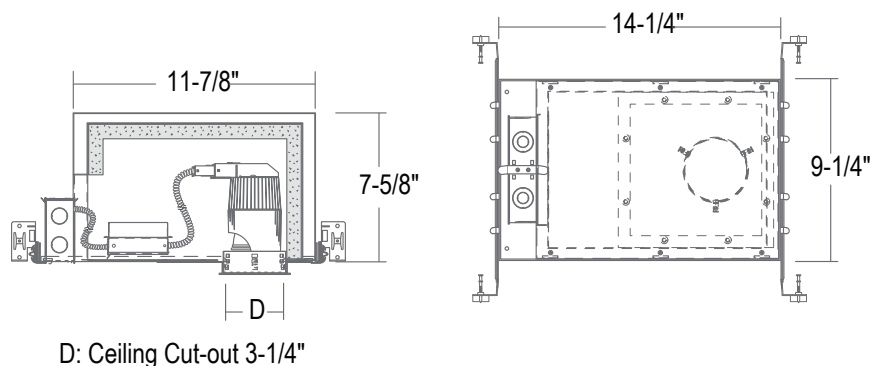
Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C. Installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Optional Accessory

LHFRDL25 - 2.5" Fire-Rated Frame (Round). Patented 3-stage fire-resistant technology is IC Rated and airtight with a one-hour fire rating. New construction frame eliminates manually constructed drywall enclosures saving labor, materials and time.



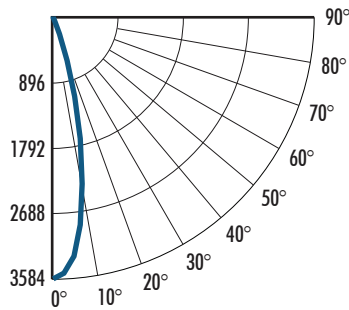
PHOTOMETRY

NOMINAL LUMEN PACKAGE	600lm	980lm	1000lm	1400lm
SYSTEM POWER	15W	22W	15W	22W

LRLD2519BW-L09-B25-C90, (600lm, 25°, 3000K)

System Power:	15.4W	MULTIPLIERS	
Test Date:	12/4/2017	Lumens	
Beam Angle 50%:	24.3°	600lm (L09) :	1.00
Field Angle 10%:	38.6°	980lm (L14) :	1.60
Color Temperature:	3090K	CRI	
CRI :	91.7	80CRI (Blank):	1.17
R9 Value:	69.2	90CRI (-C90):	1.00
Lumens Delivered:	619	97CRI (-C97):	0.90
CBCP:	3584	CCT	
Power Factor:	0.97	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.81
		1700K :	0.55

CANDELA TABULATION



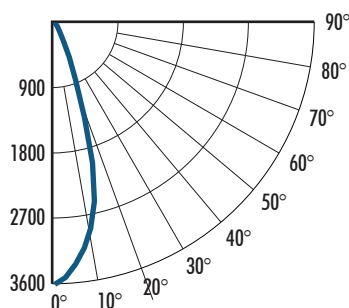
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	3.4'	56.0
15.0'	6.5'	15.9
20.0'	8.6'	9.0
25.0'	10.8'	5.7
30.0'	12.9'	4.0

LRLD2519BW-L14B35-T35-DUN, (1400lm, 35°, 3500K)

System Power:	19.6W	MULTIPLIERS	
Test Date:	5/25/2018	Lumens	
Beam Angle 50%:	31.6°	600lm (L09) :	0.61
Field Angle 10%:	48.7°	980lm (L14) :	1.00
Color Temperature:	3579K	CRI	
CRI :	93.6	80CRI (Blank):	1.17
R9 Value:	69	90CRI (-C90):	1.00
Lumens Delivered:	1021.2	97CRI (-C97):	0.90
CBCP:	3600	CCT	
Power Factor:	0.85	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.81
		1700K :	0.55

CANDELA TABULATION



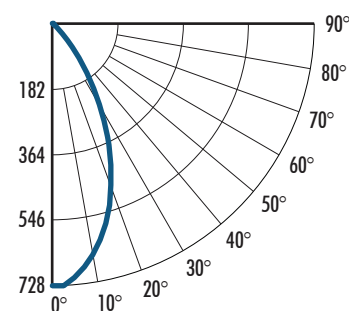
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	5.7'	36.0
15.0'	8.5'	16.0
20.0'	11.3'	9.0
25.0'	14.1'	5.8
30.0'	17.0'	4.0

LRLD2519BW-L14B60-T35, (1400lm, 60°, 3500K)

System Power:	21.1W	MULTIPLIERS	
Test Date:	5/25/2018	Lumens	
Beam Angle 50%:	50.7°	600lm (L09) :	0.61
Field Angle 10%:	83.8°	980lm (L14) :	1.00
Color Temperature:	3543K	CRI	
CRI :	93.6	80CRI (Blank):	1.17
R9 Value:	68.2	90CRI (-C90):	1.00
Lumens Delivered:	565.4	97CRI (-C97):	0.90
CBCP:	728	CCT	
Power Factor:	0.99	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.81
		1700K :	0.55

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	7.6'	11.4
10.0'	9.5'	7.3
12.0'	11.4'	5.1
14.0'	13.3'	3.7
16.0'	15.2'	2.8