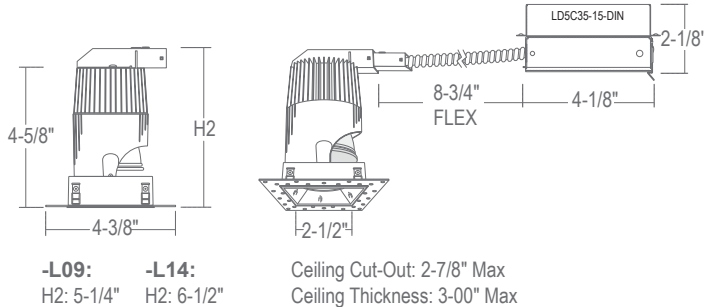


LRXLDQ25: 2.5" P-SERIES

RECESSED LED - SQUARE FLANGELESS 1000LM - 2400LM (15W-30W)



LRXLDQ2521
Downlight



LRXLDQ2521J
25° Adj. Accent



LRXLDQ2571
40° Adj. Accent



- 1000lm (15W), 1400lm (22W) and 2400lm (30W) lumen packages
- Equivalent to 75W MR16 Output
- Ideal where space is limited and energy savings is important
- True trim-less design with no visible flange
- Field Replaceable Beam Spread Optics
- Lockable Tilt
- 0.5% for 1000lm (-L09), 5% dimming for 1400lm (-L14) and 2400lm (-L24)

ORDERING : LRXLDQ2521S-L09-B25-T27UE-DUN-WL

Trim Style	Reflector Finish/ Material	Lumens	Beam Spread	Color Temperature	Driver	Options	Accessories	Optional Frame		
Trim Style			Beam Spread		Driver	Accessories				
Downlight	LRXLDQ2521		10° Narrow Spot	B10 ¹		120V, Triac Dimming	Blank	COLOR LENS		
25° Adj. Accent	LRXLDQ2521J		25° Narrow Flood	B25		0-10V Dimming	UE-D10	Clear Lens -L38		
40° Adj. Accent	LRXLDQ2571		35° Flood	B35		120V/277V, UniDim™	UE-DUN ⁷	Red Lens -L39		
Reflector Finish/Material ⁹			60° Wide Flood	B60 ⁵		0-10V, ELV, Triac Dimming (5%)		Yellow Lens -L40		
			Color Temperature			0-10V Dimming (1%)	UE-D10P1	Blue Lens -L41		
			Matte White/DC	W	3000K (90 CRI)	Blank		Lutron EcoSystem	-DEC ⁸	Amber Lens -L42
			Specular Clear/PC	C	3000K (97 CRI)	-C97		Dimming (1%)		Green Lens -L43
			Specular Black/PC	B	1700K (97 CRI)	-T17 ⁶		DALI Dimming	-DLI ⁸	Daylight Blue Lens -L44
Satin Haze /DC	S		2700K (90 CRI)	-T27				Violet Blue Lens -L46		
Specular Graphite/PC	RP		2700K (97 CRI)	-T27-C97						
Matte Gold /PC	MG		3500K (90 CRI)	-T35				FILTER LENS		
Lumens (Nominal Delivered)			4000K (90 CRI)	-T40		Options		Black Hex Cell Louver -LL16-HD-B		
1000lm	-L09 ^{2,7}		3000K - 1800K	-TWD ^{2,4}		None	Blank	Frosted Soft Focus -L49		
1400lm	-L14 ^{4,7}		Warm Dimming			4" Jbox (Chicago Plenum)	-JB-CHP	Ultra Violet Filter -L50UV		
2400lm	-L24 ^{4,6}					Trimless Wood	-WD ⁸	Micro Prismatic Spread Lens -L53		
						Dead Front/ Non-Conductive	-DF	Micro Prismatic Spread Lens (Light Diffuse) -L54		
								Linear Spread Lens -L55		

¹ Not field changeable.

² Warm Dimming (-TWD) only available for 1000lm (-L09) lumen package.

⁴ (-TWD) Warming Dimming, (-L14) 1400lm and (-L24) 2400lm are not available for both LHLD25IC-FRM (IC) or LHFRLD25 (Fire-Rated).

⁵ Achieved through a filter at 60° aperture level.

⁶ (-B10) Beam Spread, (-T17) 1700K color temperature, (-DEC) Lutron EcoSystem, and (-TWD) Warm Dimming options are not available for 2400lm (-L24) lumen package.

⁷ (-L09), and (-L14) lumen packages with 120V/277V UniDim™ (UE-DUN) driver option are Energy Star Certified.

⁸ Special order, minimum order. Extended lead time may apply. Consult Factory. Consult factory for emergency battery options.

⁹ **DC:** Diecast (Paint applied finish), **PC:** Polycarbonate (Vacuum metalized finish).

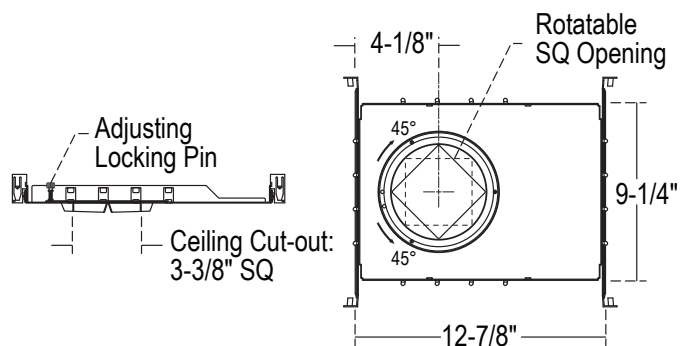
LRXLDQ2521, LRXLDQ2521J, LRXLDQ2571 and LHQLD25-FRM for (-L14) 1200lm is available with LFB2012 for Fire-Rated Application.

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

OPTIONAL FRAMES & ACCESSORIES

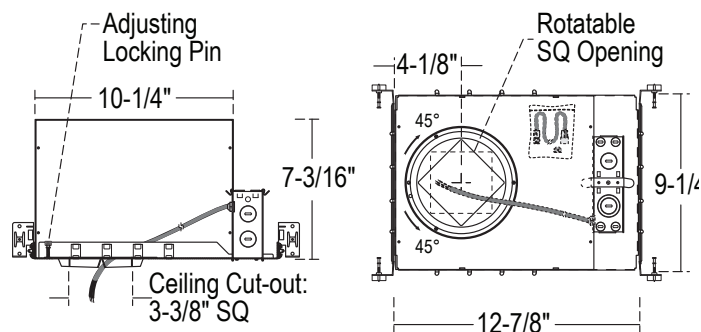
LHQLD25-FRM

New Construction Frame (Square)



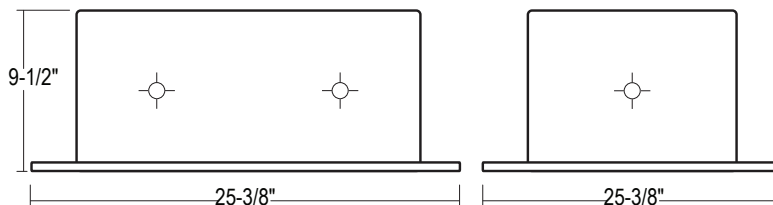
LHQLD25IC-FRM

New Construction IC Frame (Square)



LFB2012

Fire Barrier



SPECIFICATION

Application

Perfect for ambient and task downlighting in low to medium height ceilings and high-end residential and commercial applications where clean unobtrusive ceilings are desired.

LRXLDQ2521 - Standard Downlight.

LRXLDQ2521J - Adjustable accent tilts up to 25°, with hot aiming to accent architectural features.

LRXLDQ2571 - Adjustable accent tilts up to 40°, with hot aiming to accent architectural features.

Housing

Suitable for remodel or new construction installations. Designed to secure to existing sheet rock or panel ceilings up to 1" thick (frameless). For added support in weak ceilings, LHQLD25 Frames can be used. For ceilings thicker than 1", consult factory for alternative methods.

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

Reflector and die-cast aluminum trim secure to sheet rock ceiling or Housing Frame with drywall screws secured to trim ring.

Options

Certain local codes mandate wet location listing for downlight luminaires in shower areas, with certain codes requiring ground fault circuit interrupter (GFCI) protection for luminaires with exposed metal parts. To avoid the added cost and complexity of GFCI protection, non-conductive dead-front trims can be used. Non-conductive trims are constructed with materials like polycarbonate to ensure electrical insulation and prevent electric shock in recessed luminaires. Dead-front trims are designed to keep live parts inaccessible to users on the operating side, similar to electrical panels.

Reflector

Multifaceted Specular Reflector locks into place on LED Light Engine.

SPECIFICATION (Continued)

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 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 and 4000K, 2700k, 90+ CRI, 2700, 97 CRI, 3000K, 90 CRI, 3000K, 97 CRI.
Beam Spread:	Available in 10° (-B10), 25° (-B25), 35° (-B35), and 60° (-B60).
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.

Electrical Components

Dimming:	Standard driver is 120V, triac dimming to 0.5% for 1000lm (-L09), 5% dimming for 1400lm (-L14) and 2400lm (-L24). 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.
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Finishes

Reflector available in W-Matte White/DC, B - Specular Black/PC, C - Specular Clear/PC, RP - Specular Graphite/PC, S - Satin Haze/DC and MG - Matte Gold/PC. (**PC**: Polycarbonate **DC**: Diecast). Trim ring available in W - White and B - Black.

Certifications and Listings

ETL/cETL listed to UL1598 and UL8750. Suitable for damp 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.

SPECIFICATION (Continued)

Optional Frames

LHQLD25-FRM - New Construction Frame (Square). Suitable for new construction and remodel installations. Accepts up to 3/4" ceiling thickness. Supplied with (2) 24" adjustable hanger bars with nail-less install 3/4" serrated barbed studs for mounting in wood joists.

LHQLD25IC-FRM - New Construction IC Frame (Square). Rated for direct contact with low to medium density loosefill blown and rolled insulation. Accepts up to 3/4" ceiling thickness. Supplied with (2) 24" adjustable hanger bars with nail-less install 3/4" serrated barbed studs for mounting in wood joists.

LFB2012 - Fire Barrier. This galvanized welded steel enclosure is rated for one-hour resistance to active fire. LFB2012 enclosure is designed for use with both existing and new installation of Recessed Luminaires. Fulfills the required 1-hour-fire-resistance-rating, to operate as an active fire wall, with less effort.

Title 24/JA8 Compliant:

LRLDQ2521_-L09-B_-T27	LRLDQ2521J_-L09-B_-T27	LRLDQ2571_-L09-B_-T27
LRLDQ2521_-L09-B_-	LRLDQ2521J_-L09-B_-	LRLDQ2571_-L09-B_-
LRLDQ2521_-L09-B_-T35	LRLDQ2521J_-L09-B_-T35	LRLDQ2571_-L09-B_-T35
LRLDQ2521_-L09-B_-T40	LRLDQ2521J_-L09-B_-T40	LRLDQ2571_-L09-B_-T40
LRLDQ2521_-L14-B_-T27UE-DUN	LRLDQ2521J_-L14-B_-T27UE-DUN	LRLDQ2571_-L14-B_-T27UE-DUN
LRLDQ2521_-L14-B_-UE-DUN	LRLDQ2521J_-L14-B_-UE-DUN	LRLDQ2571_-L14-B_-UE-DUN
LRLDQ2521_-L14-B_-T35UE-DUN	LRLDQ2521J_-L14-B_-T35UE-DUN	LRLDQ2571_-L14-B_-T35UE-DUN
LRLDQ2521_-L14-B_-T40UE-DUN	LRLDQ2521J_-L14-B_-T40UE-DUN	LRLDQ2571_-L14-B_-T40UE-DUN

Energy Star Certified

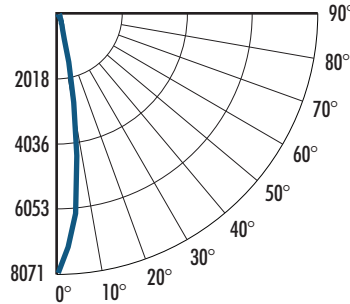
(-L9), and (-L14) lumen packages with 120V/277V UniDim™ (UE-DUN) driver option are Energy Star Certified.

PHOTOMETRY

LRXLDQ2521WW-L09B10-C90 (1000lm, 10°, 3000K)

System Power:	15.0W	MULTIPLIERS
Test Date:	7/26/2018	Lumens
Beam Angle 50%:	15.7°	1000lm (L09): 1.00
Field Angle 10%:	29.6°	1400lm (L14): 1.43
Color Temperature:	3000K	CRI
CRI:	90	80CRI (Blank): 1.17
Lumens Delivered:	926.7	90CRI (-C90): 1.00
CBCP:	8071	97CRI (-C97): 0.90
Power Factor:	>0.90	CCT
		4000K: 1.03
		3500K: 1.02
		3000K: 1.00
		2700K: 0.96
		2500K: 0.81
		1700K: 0.55

CANDELA TABULATION



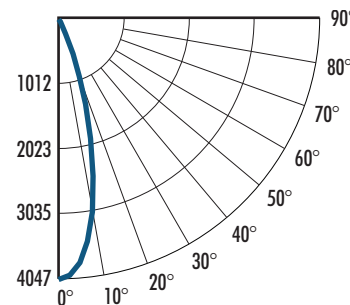
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	4.1'	35.9
20.0'	5.5'	20.2
25.0'	6.9'	12.9
30.0'	8.3'	9.0
35.0'	9.7'	6.6

LRXLDQ2521WW-L09B25-C90 (1000lm, 25°, 3000K)

System Power:	15.1W	MULTIPLIERS
Test Date:	1/20/2017	Lumens
Beam Angle 50%:	29.2°	1000lm (L09): 1.00
Field Angle 10%:	47.9°	1400lm (L14): 1.35
Color Temperature:	3163K	CRI
CRI:	93.2	80CRI (Blank): 1.17
R9 Value:	71.9	90CRI (-C90): 1.00
Lumens Delivered:	1040lm	97CRI (-C97): 0.90
CBCP:	4047cd	CCT
Power Factor:	>0.90	4000K: 1.03
		3500K: 1.02
		3000K: 1.00
		2700K: 0.96
		2500K: 0.79
		1700K: 0.54

CANDELA TABULATION



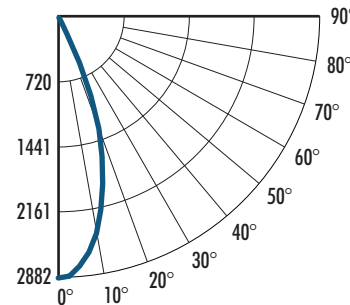
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	7.8'	18.0
20.0'	10.4'	10.1
25.0'	13.0'	6.5
30.0'	15.6'	4.5
35.0'	18.2'	3.3

LRXLDQ2521WW-L09B35-C90 (1000lm, 35°, 3000K)

System Power:	15.0W	MULTIPLIERS
Test Date:	1/20/2017	Lumens
Beam Angle 50%:	37.9°	1000lm (L09): 1.00
Field Angle 10%:	55.0°	1400lm (L14): 1.30
Color Temperature:	3170K	CRI
CRI:	92	80CRI (Blank): 1.17
R9 Value:	66.6	90CRI (-C90): 1.00
Lumens Delivered:	1079	97CRI (-C97): 0.90
CBCP:	2882	CCT
Power Factor:	>0.90	4000K: 1.03
		3500K: 1.02
		3000K: 1.00
		2700K: 0.96
		2500K: 0.79
		1700K: 0.54

CANDELA TABULATION



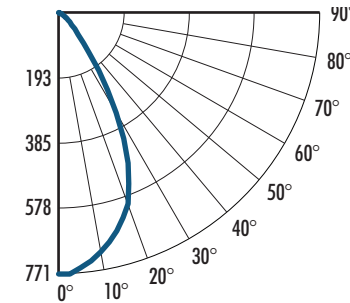
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	10.3'	12.8
20.0'	13.7'	7.2
25.0'	17.2'	4.6
30.0'	20.6'	3.2
35.0'	24.0'	2.4

LRXLDQ2521WW-L09B60-C90 (1000lm, 60°, 3000K)

System Power:	15.4W	MULTIPLIERS
Test Date:	10/17/2017	Lumens
Beam Angle 50%:	57.1°	1000lm (L09): 1.00
Field Angle 10%:	88.1°	1400lm (L14): 1.95
Color Temperature:	3070K	CRI
CRI:	94.7	80CRI (Blank): 1.17
R9 Value:	71.8	90CRI (-C90): 1.00
Lumens Delivered:	717	97CRI (-C97): 0.90
CBCP:	771	CCT
Power Factor:	0.97	4000K: 1.03
		3500K: 1.02
		3000K: 1.00
		2700K: 0.96
		2500K: 0.79
		1700K: 0.54

CANDELA TABULATION



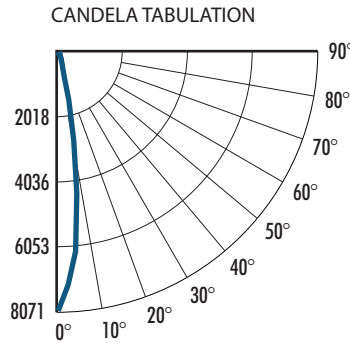
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
6.0'	6.5'	21.4
8.0'	8.7'	12.0
10.0'	10.9'	7.7
12.0'	13.1'	5.4
16.0'	17.4'	3.0

PHOTOMETRY (Continued)

LRXLDQ2521JWW-L09B10-C90 (1000lm, 10°, 3000K)

System Power:	15.0W	MULTIPLIERS	
Test Date:	7/26/2018	Lumens	
Beam Angle 50%:	15.7°	1000lm (L09) :	1.00
Field Angle 10%:	29.6°	1400lm (L14) :	1.43
Color Temperature:	3000K	CRI	
CRI:	90	80CRI (Blank):	1.17
Lumens Delivered:	926.7	90CRI (-C90):	1.00
CBCP:	8071	97CRI (-C97):	0.90
Power Factor:	>0.90	CCT	
		4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

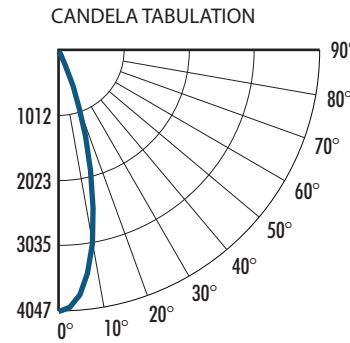


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	4.1'	35.9
20.0'	5.5'	20.2
25.0'	6.9'	12.9
30.0'	8.3'	9.0
35.0'	9.7'	6.6

LRXLDQ2521JWW-L09B25-C90 (1000lm, 25°, 3000K)

System Power:	15.1W	MULTIPLIERS	
Test Date:	1/20/2017	Lumens	
Beam Angle 50%:	29.2°	1000lm (L09) :	1.00
Field Angle 10%:	47.9°	1400lm (L14) :	1.35
Color Temperature:	3163K	CRI	
CRI :	93.2	80CRI (Blank):	1.17
R9 Value:	71.9	90CRI (-C90):	1.00
Lumens Delivered:	1040	97CRI (-C97):	0.90
CBCP:	4047	CCT	
Power Factor:	>0.90	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

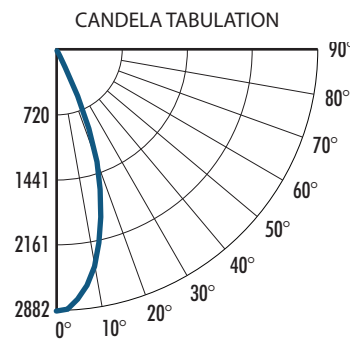


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	7.8'	18.0
20.0'	10.4'	10.1
25.0'	13.0'	6.5
30.0'	15.6'	4.5
35.0'	18.2'	3.3

LRXLDQ2521JWW-L09B35-C90 (1000lm, 35°, 3000K)

System Power:	15.0W	MULTIPLIERS	
Test Date:	1/20/2017	Lumens	
Beam Angle 50%:	37.9°	1000lm (L09) :	1.00
Field Angle 10%:	55.0°	1400lm (L14) :	1.30
Color Temperature:	3170K	CRI	
CRI :	92	80CRI (Blank):	1.17
R9 Value:	66.6	90CRI (-C90):	1.00
Lumens Delivered:	1079	97CRI (-C97):	0.90
CBCP:	2882	CCT	
Power Factor:	>0.90	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

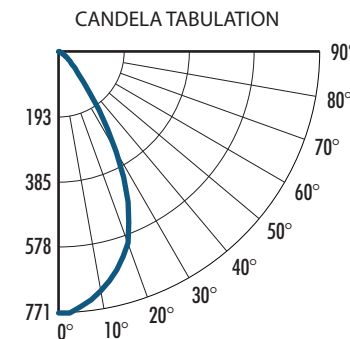


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	10.3'	12.8
20.0'	13.7'	7.2
25.0'	17.2'	4.6
30.0'	20.6'	3.2
35.0'	24.0'	2.4

LRXLDQ2521JWW-L09B60-C90 (1000lm, 60°, 3000K)

System Power:	15.4W	MULTIPLIERS	
Test Date:	10/17/2017	Lumens	
Beam Angle 50%:	57.1°	1000lm (L09) :	1.00
Field Angle 10%:	88.1°	1400lm (L14) :	1.95
Color Temperature:	3070K	CRI	
CRI :	94.7	80CRI (Blank):	1.17
R9 Value:	71.8	90CRI (-C90):	1.00
Lumens Delivered:	717lm	97CRI (-C97):	0.90
CBCP:	771cd	CCT	
Power Factor:	0.97	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54



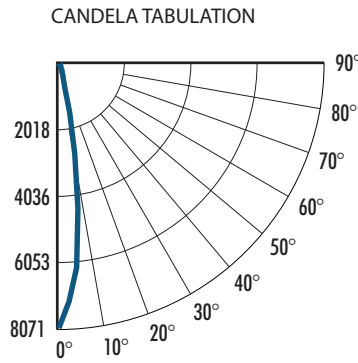
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
6.0'	6.5'	21.4
8.0'	8.7'	12.0
10.0'	10.9'	7.7
12.0'	13.1'	5.4
16.0'	17.4'	3.0

PHOTOMETRY (Continued)

LRXLDQ2571WW-L09B10-C90 (1000lm, 10°, 3000K)

System Power:	15.0W	MULTIPLIERS	
Test Date:	7/26/2018	Lumens	
Beam Angle 50%:	15.7°	1000lm (L09) :	1.00
Field Angle 10%:	29.6°	1400lm (L14) :	1.43
Color Temperature:	3000K	CRI	
CRI:	90	80CRI (Blank):	1.17
Lumens Delivered:	926.7	90CRI (-C90):	1.00
CBCP:	8071	97CRI (-C97):	0.90
Power Factor:	>0.90	CCT	
		4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

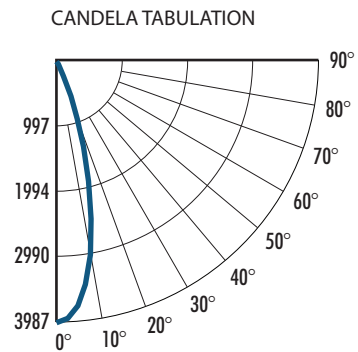


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	4.1'	35.
20.0'	5.5'	20.
25.0'	6.9'	12.
30.0'	8.3'	9.
35.0'	9.7'	6.

LRXLDQ2571WW-L09B25-C90 (1000, lm, Narrow Flood, 3000K)

System Power:	15.1W	MULTIPLIERS	
Test Date:	7/30/2018	Lumens	
Beam Angle 50%:	29.1°	1000lm (L09) :	1.00
Field Angle 10%:	47.8°	1400lm (L14) :	1.36
Color Temperature:	3163K	CRI	
CRI:	93.2	80CRI (Blank):	1.17
R9 Value:	71.8	90CRI (-C90):	1.00
Lumens Delivered:	1085	97CRI (-C97):	0.90
CBCP:	4067	CCT	
Power Factor:	>0.90	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

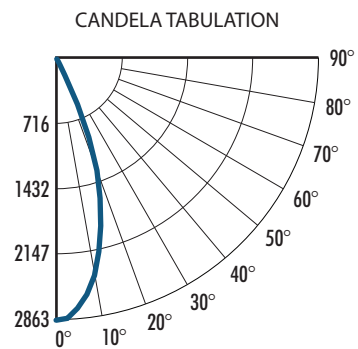


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	7.6'	17.7
20.0'	10.2'	10.0
25.0'	12.7'	6.4
30.0'	15.3'	4.4
35.0'	17.8'	3.3

LRXLDQ2571JWW-L09B35-C90 (1000, lm, Flood, 3000K)

System Power:	15.0W	MULTIPLIERS	
Test Date:	7/30/2018	Lumens	
Beam Angle 50%:	37.9°	1000lm (L09) :	1.00
Field Angle 10%:	53.6°	1400lm (L14) :	1.31
Color Temperature:	3170K	CRI	
CRI:	92	80CRI (Blank):	1.17
R9 Value:	66.6	90CRI (-C90):	1.00
Lumens Delivered:	1126	97CRI (-C97):	0.90
CBCP:	2888	CCT	
Power Factor:	>0.90	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54

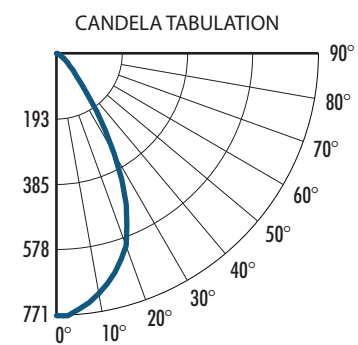


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
15.0'	9.8'	12.7
20.0'	13.1'	7.2
25.0'	16.4'	4.6
30.0'	19.7'	3.2
35.0'	22.9'	2.3

LRXLDQ2571JWW-L09B60-C90 (1000lm, 60°, 3000K)

System Power:	15.4W	MULTIPLIERS	
Test Date:	7/30/2018	Lumens	
Beam Angle 50%:	57.1°	1000lm (L09) :	1.00
Field Angle 10%:	88.1°	1400lm (L14) :	1.98
Color Temperature:	3070K	CRI	
CRI:	94.7	80CRI (Blank):	1.17
R9 Value:	71.8	90CRI (-C90):	1.00
Lumens Delivered:	717	97CRI (-C97):	0.90
CBCP:	771	CCT	
Power Factor:	0.97	4000K :	1.03
		3500K :	1.02
		3000K :	1.00
		2700K :	0.96
		2500K :	0.79
		1700K :	0.54



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
6.0'	6.5'	21.4
8.0'	8.7'	12.0
10.0'	10.9'	7.7
12.0'	13.1'	5.4
16.0'	17.4'	3.0