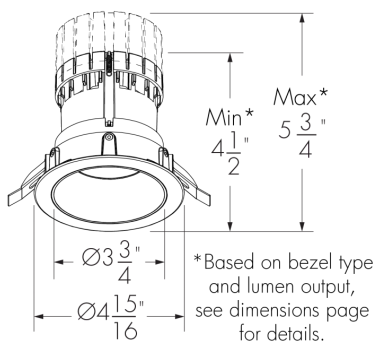
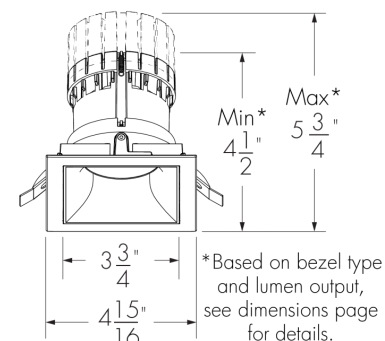


Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Round trim
(Deep decorative bezel shown with 1 in ceiling springs)
Round trim ceiling cutout: Ø4.5 in



Square trim
(Deep decorative bezel shown with 1 in ceiling springs)
Square trim ceiling cutout: 4.5 in x 4.5 in

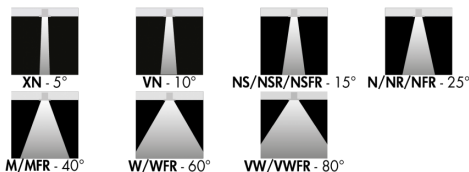
Photometric Summary

Based on Narrow Optic (nominal 25°), 4000K, CRI 80+

Nominal output [lm]	Delivered output [lm] ⁽¹⁾	Insulated ceiling		Non-insulated ceiling	
		Power (120V) [W]	Efficacy [lm/W]	Power (120V) [W]	Efficacy [lm/W]
700	828	6.5	127	8.5	97
1000	1,070	8	134	10	107
1300	1,484	11	135	13	114
2000	2,313	18	129	20	116

[1] Consult website for latest IES files.

Optics



Colors and Color Temperatures



Color rendering

80+ 90+ 95+

Description

The Lumencore Small is a high-performance LED downlight for ceiling applications. Available in an array of trims and finishes, outputs (up to 4000lm), optics, color renderings, accessories, and a WET IP54 option, these luminaires are here to outperform. The Lumencore Small possesses a previously unseen lifespan, is quick to install, and can be used with a number of different control options.

Physical

Cutout	Round, Square
Decorative Bezel	Standard, Mid/semi recess, Deep recess, Deep rolled over
Trim	Round, Square trim with round hole, Trimless round, Square, Trimless square
Ceiling Thickness	0.04 in to 1 in ceiling thickness, 1.05 in to 2 in ceiling thickness
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Weight	3.4 lbs with RM installation type, 4.75 lbs with NC installation type, 10.8 lbs with PC, IC, IC/AT and RMR installation types (weights are approximate based on the heaviest fixture configuration), please consult factory if exact fixture weight is needed
Ceiling space requirements (length x width x height)	Up to 18 in x 18 in x 8 in with RM and NC installation types, Up to 18 in x 15 in x 9 in with PC/IC/ICAT/RMR installation types, dimensions will vary by output and color rendering, refer to Ceiling Requirements table for details

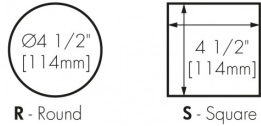
Features

Output (nominal lumens) 700 lm, 1000 lm, 1300 lm, 2000 lm, 3000 lm, 4000 lm

Controls



Ceiling cutout shapes



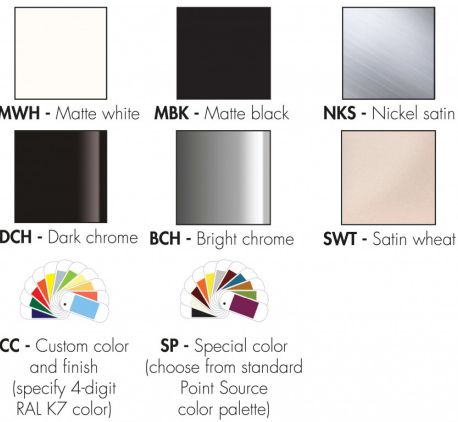
Decorative bezels (round trim)



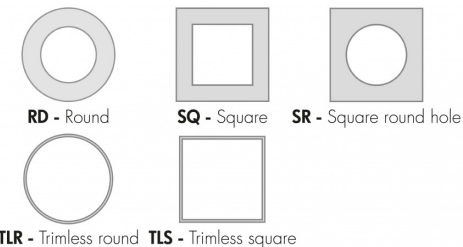
Decorative bezels (square trim)



Standard finishes for decorative bezel



Trim shapes



Color and Color Temperature

2200K, 2700K, 3000K, 3500K, 4000K, Dim to warm, Dim to warm plus, Dynamic white, Dynamic warm white, Dynamic warm white plus

Optics (nominal distribution)

Extra narrow spot 5°, Very narrow spot 10°, Narrow spot 15°, Narrow spot/Narrow spot faceted reflector 15°, Narrow 25°, Narrow reflector/Narrow faceted reflector 25°, Medium/Medium faceted reflector 40°, Wide/Wide faceted reflector 60°, Very wide/Very wide faceted reflector 80°

Decorative Bezel Finish

Matte white, Matte black, Nickel satin, Dark chrome, Bright chrome, Satin wheat, Custom color trim (specify 4-digit RAL K7 color), Special color (choose from standard Point Source color palette)

Trim Finish

Matte white, Matte black, Nickel satin, Custom color trim (specify 4-digit RAL K7 color), Special color (choose from standard Point Source color palette)

Installation Type

Remodel non-insulated ceiling, New construction non-insulated ceiling, Plenum non-insulated ceiling, New construction insulated ceiling, New construction insulated ceiling (Chicago Plenum/airtight), Remote recessed insulated ceiling/Plenum

Options

Emergency battery backup with hanger bar (Bodine BSL17C-C2), Emergency battery backup with hanger bar (Iota ILB-CP07-A TBTS), IP54 rating suitable for wet locations, For IP55 Shower Rated "Dead Front" applications see Lumencore Small Shower Rated specification sheet

Certifications

UL compliant, UL Wet Location (WET option only), ENERGY STAR®, RoHS

Warranty

5-year limited warranty

Electrical and control

Voltage

120 volts, 277 volts, 347 volts

Wattage range

8.5W to 42W (wattage will vary based on voltage, output, color temperature, color rendering, optic, control and installation type, refer to Power Consumption table for details)

Control

On/Off control, On/Off control 347V, Standard 0-10V dimming to 1% linear curve, Standard 0-10V dimming 1% linear, Standard 0-10V dimming 1% logarithmic, Standard 0-10V dimming 1% linear (347V), Pro 0-10V dimming 0.1% linear, Pro 0-10V dimming 0.1% logarithmic, Phase dimming, Pro Phase Lutron® Hi-lume 1% 2-wire LTEA 120V (temporarily unavailable), Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black, Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black (temporarily unavailable), Lutron® Caséta dimming compatible (Lutron Hi-lume 1% 2-wire LTEA) (temporarily unavailable), Lutron® Vive control enabled (Lutron VIVE FCJS-010), nLight® control enabled (nPS-80-EZ), nLight® emergency control enabled (nPS-80-EZ-ER), nLight® control enabled 347V (nPS-80-EZ-347), Standard DALI dimming 1% linear, Standard DALI dimming 1% logarithmic, Pro DALI dimming 0.1% linear, Pro DALI dimming 0.1% logarithmic, DALI-2 dimming Type 8 (multi channel capability), DMX/RDM (configurable to 1, 2, or 3 channel control via RDM in the field), Lumentalk dimming

Standard finishes for trim



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



CC - Custom color and finish
(Please specify 4-digit RAL K7 color)



SP - Special color
(choose from standard Point Source color palette)

Options



Emergency battery backup



IP54 rating suitable for wet locations

Ratings

IP20

IP54



Wet
Location

Certifications



Performance

Maximum Delivered Output Up to 2,631 lm (narrow faceted reflector optic 25°, 4000K, CRI 80)

Maximum Delivered Intensity Up to 45,181 cd (extra narrow spot optic 5°, 4000K, CRI 80)

Efficacy Up to 98 lm/W (narrow faceted reflector 25°, 4000K, CRI 80, 120V, new construction non-insulated ceiling), Up to 109 lm/W (narrow faceted reflector 25°, 4000K, CRI 80, 120V, new construction insulated ceiling)

Color Consistency 2 SDCM, 3 SDCM (XN optic only)

Color Rendering CRI 80+, CRI 90+, CRI 95+

Lumen Maintenance L95 55,000 hrs (Ta 25 °C), L70 225,000 hrs (Ta 25 °C)

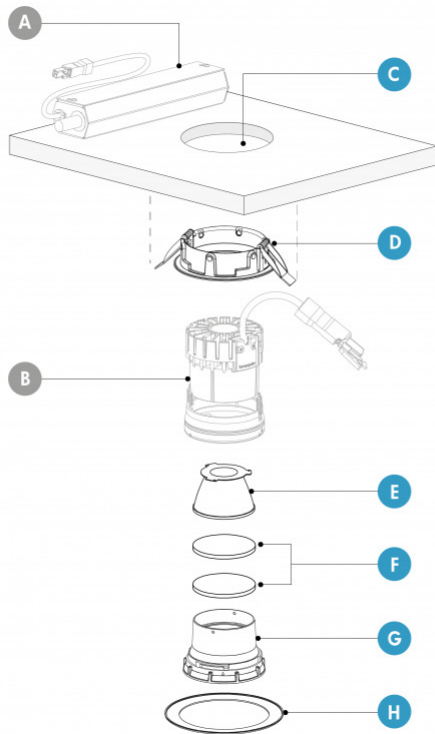
Environmental

Ingress Protection Rating IP20, IP54 (with CL accessory and WET option specified)

Environment Damp location rating (interior applications only)

Operating Temperature (Ceiling Cavity Ambient Temperature) -4 °F to 104 °F (DA1, DA2, DA3, PDA1, PDA2, SDALI1, SDALI2, DALI1, DALI2, DALIT8, LT, DMX/RDM and PH control options), 14 °F to 104 °F (NO, NL, NLER, NL347 control options), 32 °F to 104 °F (NO3, VI, PPH2, ES, ESP and CA control options and EBB and EBI options)

Exploded overview - part selection



Standard parts

A - MTG kit

B - LUM Core (heatsink, universal fixing ring, LED module)

MTG: Mounting Kit

LUM: Luminaire

Customizable Parts

C - Ceiling cutout shape (round or square)

D - Ceiling mounting ring (round or square, based on ceiling cutout selection)

E - Optic*

F - Optical accessory (up to two optical accessories can be combined in the fixture, field changeable)

G - Decorative bezel**

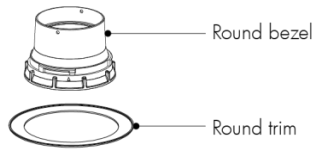
H - Trim (round or square, based on ceiling ring selection)**

*Field changeable. Consult Interchangeable Optics section of the specification sheet for details. Consult factory for ordering details.

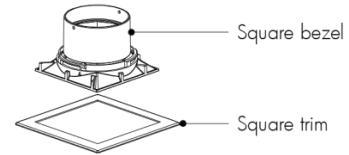
**Field changeable, consult installation instructions for details. Consult factory for ordering details.

Ceiling cutout shape options

RD - Round ceiling cutout



SQ - Square ceiling cutout



Decorative bezel options

RD - Compatible round decorative bezels



SB - Standard



MB - Mid/semi recess



DB - Deep recess



DR - Deep rolled over

Standard finishes - decorative bezels



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



DCH - Dark chrome



BCH - Bright chrome



SWT - Satin wheat



CC - Custom colour*



SP - Special colour**

*Custom color: specify 4-digit RAL K7 color.

**Special color: choose one of the standard Point Source colors from the Cylinders product brochure or specification sheets. Contact manufacturer for additional information.

Trim shape options

RD - Compatible round trim shapes



RD - Round



SR - Square trim with round hole



TLR - Trimless round

SQ - Compatible square trim shapes



SQ - Square



TLS - Trimless Square

Standard finishes - trims



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



CC - Custom colour*



SP - Special colour**

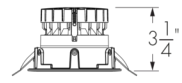
*Custom color: specify 4-digit RAL K7 color.

**Special color: choose one of the standard Point Source colors from the Cylinders product brochure or specification sheets. Contact manufacturer for additional information.

Dimensions

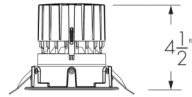
SB - Standard

L07, L10, L13, L20 (CR80/90/95)
L30 (CR80)



Front view

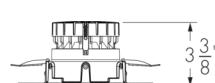
L30 (CR90, CR95), L40 (CR80)



Front view

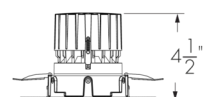
SB - Standard (trimless version)

L07, L10, L13, L20 (CR80/90/95)
L30 (CR80)



Front view

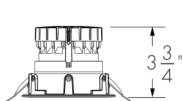
L30 (CR90, CR95), L40 (CR80)



Front view

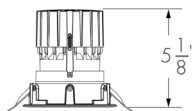
MB - Mid/semi recess

L07, L10, L13, L20 (CR80/90/95)
L30 (CR80)



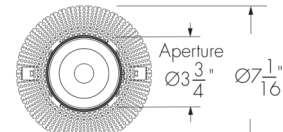
Front view

L30 (CR90, CR95), L40 (CR80)



Front view

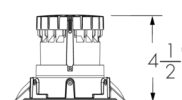
TLR - Trimless round



Bottom view

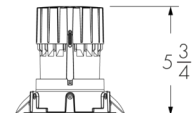
DB - deep recess/ DR - deep rolled over

L07, L10, L13, L20 (CR80/90/95)
L30 (CR80)



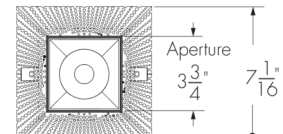
Front view

L30 (CR90, CR95), L40 (CR80)



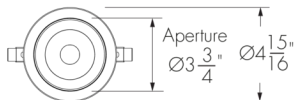
Front view

TLS - Trimless square



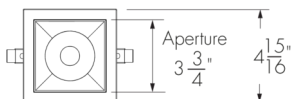
Bottom view

RD - Round shape, round trim



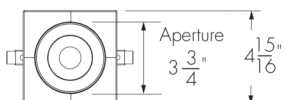
Bottom view

SQ - Square shape, square trim



Bottom view

SR - Square shape, round hole



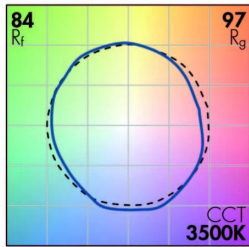
Bottom view

Round ceiling cutout: $\varnothing 4.5$ in
Square ceiling cutout: 4.5 in x 4.5 in

TM-30

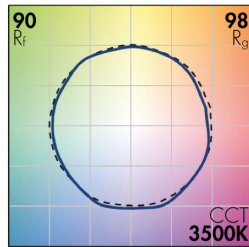
CRI 80+

CRI 80 +				
CCT	CIE		TM-30	
3500K	R _a	84	84	R _f
	R ₉	15	97	R _g



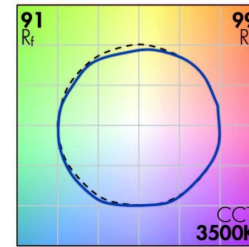
CRI 90+

CRI 90 +				
CCT	CIE		TM-30	
3500K	R _a	92	90	R _f
	R ₉	59	98	R _g



CRI 95+

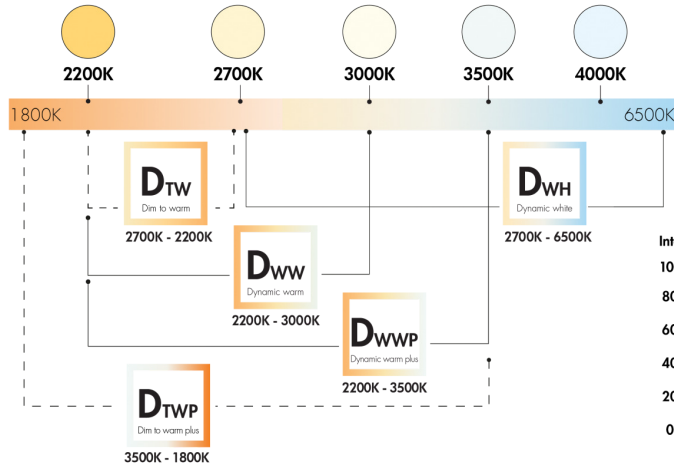
CRI 95 +				
CCT	CIE		TM-30	
3500K	R _a	97	91	R _f
	R ₉	97	99	R _g



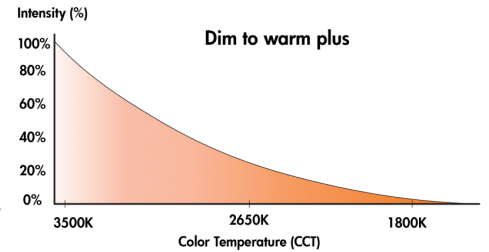
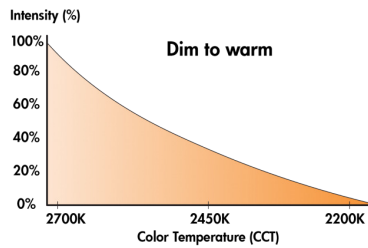
Refer to TM-30 Reference Guide for details.

Color and color temperature

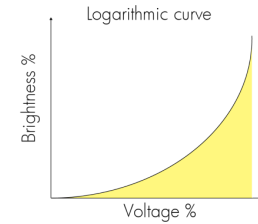
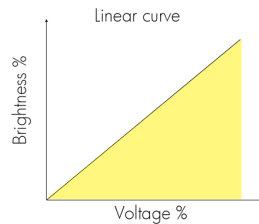
Color temperature ranges



- 1 channel (DTW, DTWP) Compatible with: DA1 ES SDALI1 SDALI2
 - 2 channels* (DWH, DWW, DWWP) Compatible with: DALI8
 - 3 channels (DWH, DWW, DWWP) Compatible with: DALI8
- * Can be changed in the field via RDM & IT for individual CCT control.



Control



Dimming	Control options with linear dimming curve					Control options with logarithmic dimming curve					
Dimming down to 0.1%	PDA1	ESP*	DALI1			PDA2	DALI2	DALIT8		**	
Dimming down to 1%	DA1	DA3	DAMC	ES	SDALI1	DA2	SDALI2	DALIT8		**	

Optics

TIR optic - total internal reflection



Applicable to XN (5°), VN (10°), NS (15°), NSR (15°) and N (25°) distributions.

Semi-specular reflector



Applicable to NR (25°), M (40°), W (60°) and VW (80°) distributions.

Faceted reflector



Applicable to NSFR (15°), NFR (25°), MFR (40°), WFR (60°) and VWFR (80°) distributions.

Beam widening lenses

	Optic installed in fixture													
	XN 5°	VN 10°	NS 15°	NSR 15°	NSFR 15°	N 25°	NR 25°	NFR 25°	M 40°	MFR 40°	W 60°	WFR 60°	VW 80°	VWFR 80°
BW1	11°	13°	17°	17°	17°	30°	30°	30°	41°	41°	61°	61°	81°	81°
BW2	21°	22°	24°	24°	24°	34°	34°	34°	45°	45°	63°	63°	82°	82°
BW3	30°	31°	33°	33°	33°	41°	41°	41°	50°	50°	67°	67°	85°	85°

The above beam angles are nominal beam angles.

Variations in beam angles can be seen due to different LES sizes. For exact beam calculations please consult factory.

Beam widening lenses should not be used with other accessories with the nominal results above.

Interchangeable optics

	Optic installed in fixture														
	XN 5°	VN 10°	NS 15°	NSR 15°	N 25°	NR 25°	M 40°	W 60°	VW 80°						
Interchangeable optics	N/A	N/A	NSR NSFR	NS NSFR	NR NFR M MFR W WFR VW VWFR	N NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR					
											NSFR 15°	NFR 25°	MFR 40°	WFR 60°	VWFR 80°
											NS NSR	N NR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR	N NR NFR M MFR W WFR VW VWFR

The optic options listed above are field changeable. Consult factory and installation instructions for details.

* Consult the Lumencore Small Wallwash specification sheet for details.

Power consumption

Static white color temperatures

Power consumption [W]										
Output [lm]	XN (5°) - VN (10°)		NS (15°) - NSR (15°) - NSFR (15°)				N (25°) - NR (25°) - NFR (25°) - M (40°) - MFR (40°) - W (60°) - WFR (60°) - VW (80°) - VWFR (80°)			
	120 V	277 V	120 V		277 V		120 V		277 V	
	CR80/CR90		CR80	CR90/CR95	CR80	CR90/CR95	CR80	CR90/CR95	CR80	CR90/CR95
700	13	15	9.5	10	10.5	12	8.5	9	9.5	11
1000	17*	18*	13	14.5	14	16	10	13	12	15
1300	23*	24*	15	20	16	21	13	15	15	16
2000	N/A	N/A	23**	30**	24**	30**	20	23	21	24
3000	N/A	N/A	N/A	N/A	N/A	N/A	30***	42***	30***	42***
4000	N/A	N/A	N/A	N/A	N/A	N/A	42***	N/A	42***	N/A

*Not applicable to XN optic.

**Not applicable to NSR and NSFR optics.

***Not applicable to N optic.

Dynamic colors

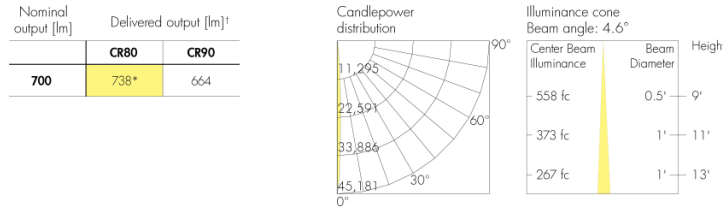
Power consumption [W]				
Output [lm]	NR (25°) - NFR (25°) - M (40°) - MFR (40°) - W (60°) - WFR (60°) - VW (80°) - VWFR (80°)			
	120 V		277 V	
	DTW - DTWP	DWW - DWH - DWWP	DTW - DTWP	DWW - DWH - DWWP
1000	14	N/A	15	N/A
1300	17	26	18	26
2000	27	N/A	28	N/A

• Power consumption values are for non-insulated ceiling (RM and NC) and remote recessed insulated ceiling/plenum (RMR) installation types. For plenum ceiling (PC), and new construction insulated ceiling (IC and IC/AT) installation types, remove 2 watts per fixture.

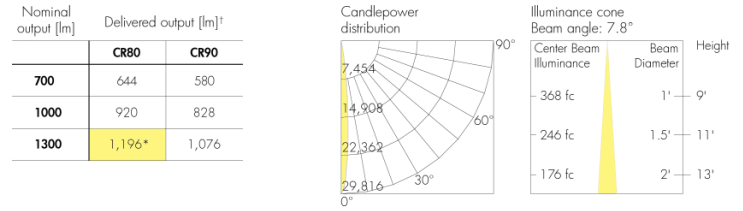
- Add 3 watts per fixture when specifying LT control option.
- Add 2 watts per fixture when specifying DMX/RDM control option.
- Add 1.5 watts per fixture when specifying PPH2, CA, NL, NLER or NL347 control option.
- Add 1 watt per fixture when specifying VI control option.
- Add 3 watts per fixture when specifying 347V.

Photometric information

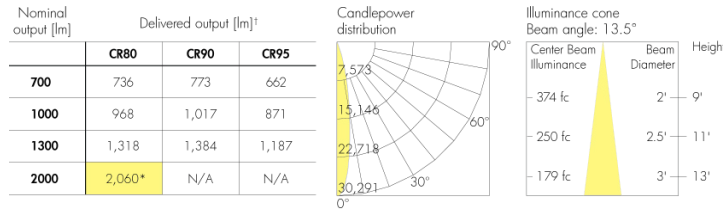
XN - Extra Narrow Spot (nominal 5°), 4000K



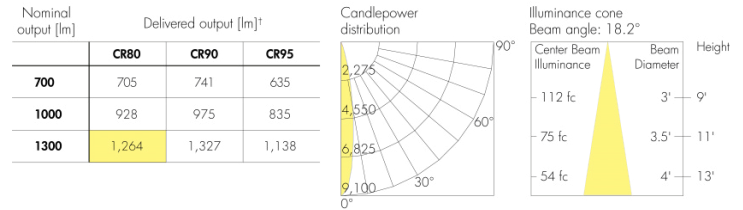
VN - Very Narrow Spot (nominal 10°), 4000K



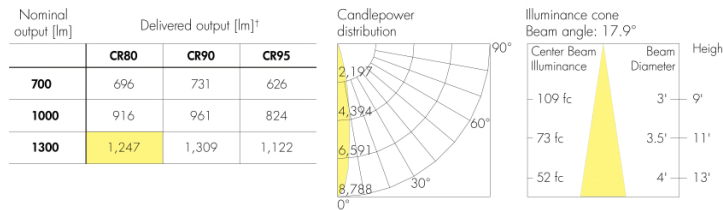
NS - Narrow Spot (nominal 15°), 4000K



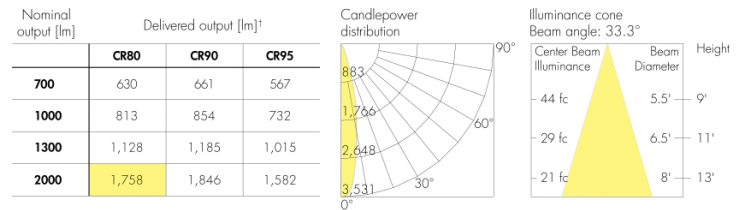
NSR - Narrow spot reflector (nominal 15°), 4000K



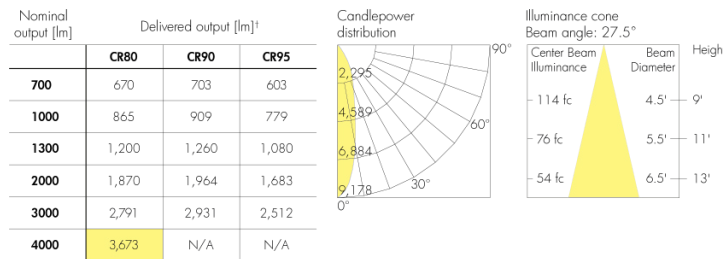
NSFR - Narrow Spot faceted reflector (nominal 15°), 4000K



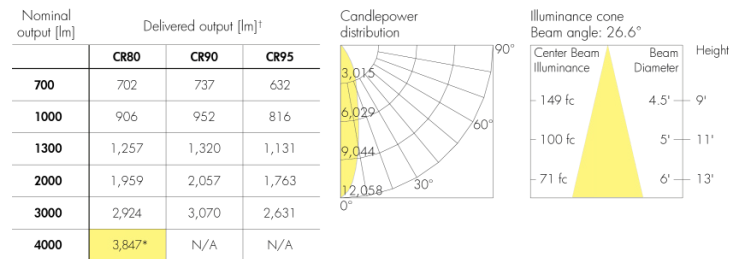
N - Narrow (nominal 25°), 4000K



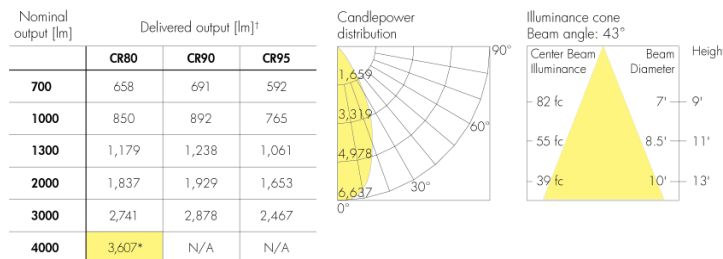
NR - Narrow reflector (nominal 25°), 4000K



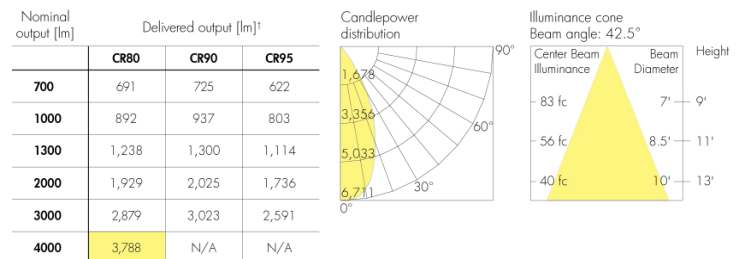
NFR - Narrow faceted reflector (nominal 25°), 4000K



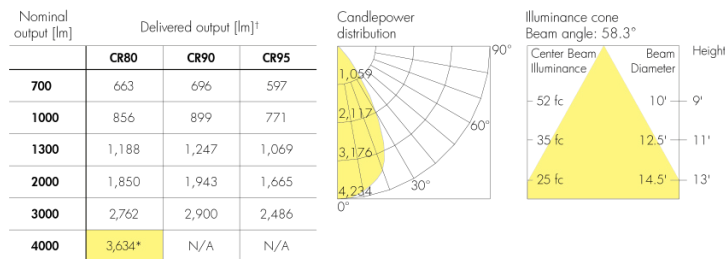
M - Medium reflector (nominal 40°), 4000K



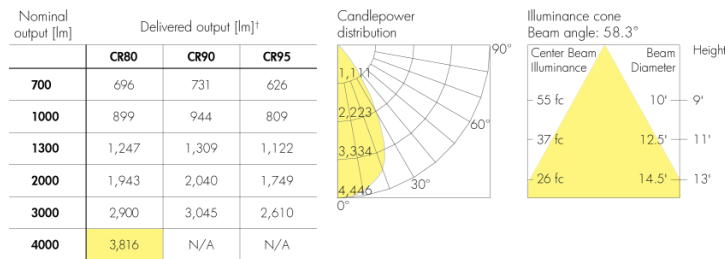
MFR - Medium faceted reflector (nominal 40°), 4000K



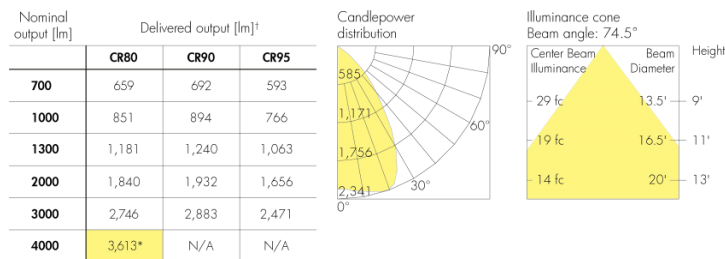
W - Wide reflector (nominal 60°), 4000K



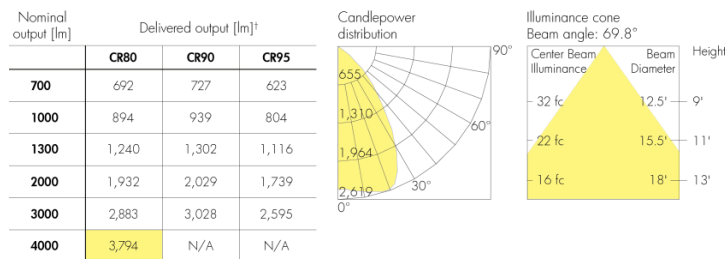
WFR - Wide faceted reflector (nominal 60°), 4000K



VW - Very Wide reflector (nominal 80°), 4000K



VWFR - Very Wide faceted reflector (nominal 80°), 4000K



Based on Standard Bezel and Round or Square trim configuration.
 † Consult website for IES files. Delivered output: +/- 10% tolerance.
 Consult Power consumption section for more wattage information.
 *Photometric performance is measured in compliance with IESNA LM-79-08.

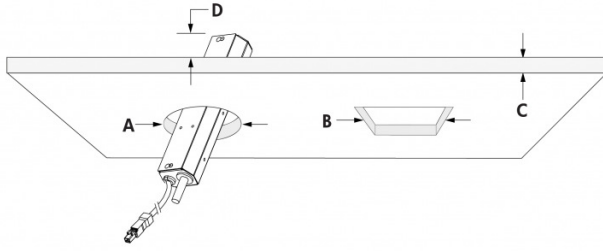
Ceiling Requirements

Ceiling Cavity Space Requirements (length x width x height)

Installation type	Bezel Options	Output/Color Rendering						
		L07	L10	L13	L20		L30	L40
		CR80/90/95			CR80	CR90/CR95	CR80	CR90/95
RM	SB or MB bezel options	11" x 11" x 4" (with trim) 11" x 11" x 7" (trimless)			12" x 12" x 6" (with trim) 12" x 12" x 7" (trimless)		18" x 18" x 8"	
	DB or DR bezel options	11" x 11" x 6" (with trim) 11" x 11" x 7" (trimless)						
NC	SB or MB bezel options	14" x 11" x 4" (with trim) 14" x 11" x 7" (trimless)			14" x 11" x 6" (with trim) 14" x 11" x 7" (trimless)		18" x 18" x 8"	
	DB or DR bezel options	14" x 11" x 6" (with trim) 14" x 11" x 7" (trimless)						
PC/IC/ICAT/RMR	ALL	14.5" x 10" x 7"		18" x 15" x 9"			N/A	N/A

See Installation Type section for dimensional view of keep out and/or MTG mounting kit option.
 Above dimensions include any keep out requirements for proper airflow and thermal cooling

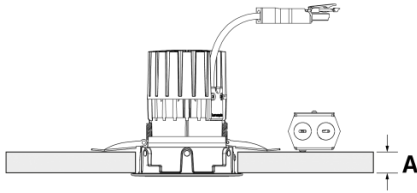
Ceiling cutout



- A - Ceiling cutout: Ø4.5 in
- B - Ceiling cutout: 4.5 in x 4.5 in
- C - Maximum ceiling thickness: 2 in
- D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table

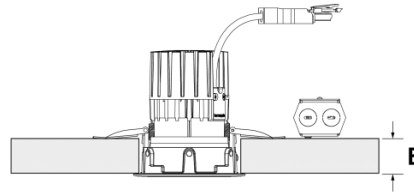
Ceiling thickness options

Ceiling thickness 1



- A - Ceiling thickness range: 0.04 in to 1 in

Ceiling thickness 2

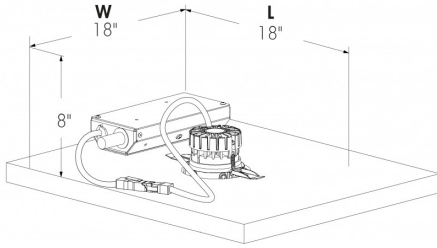


- B - Ceiling thickness range: 1.05 in to 2 in

Ceiling springs are field changeable, consult installation instructions and factory for details.

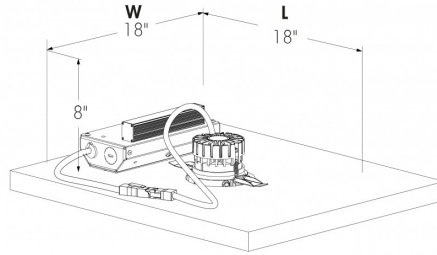
Installation types

RM - Remodel non-insulated ceiling (NO, PH, ES and ESP control options only)



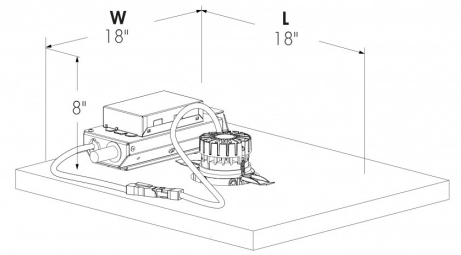
Ceiling cavity space requirements for L30 CR90/95 and L40 CR80 shown.

RM - Remodel non-insulated ceiling (DALI8, DMX/RDM and LT control options only)



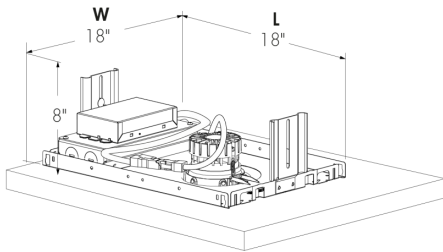
Ceiling cavity space requirements for L30 CR90/95 and L40 CR80 shown.

RM - Remodel non-insulated ceiling (other controls)



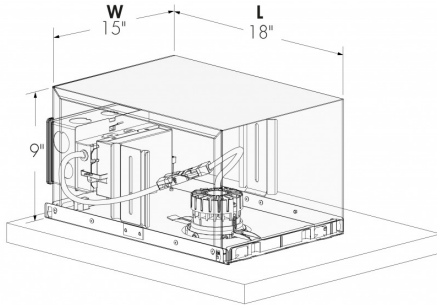
Ceiling cavity space requirements for L30 CR90/95 and L40 CR80 shown.

NC - New construction non-insulated ceiling



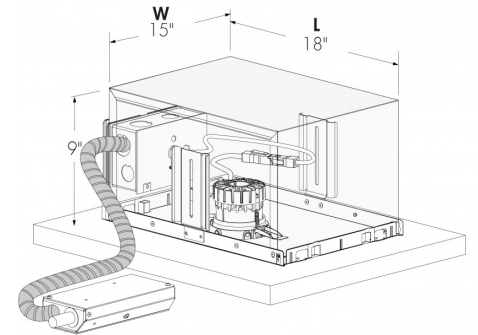
Ceiling cavity space requirements for L30 CR90/95 and L40 CR80 shown.

IC, PC, IC/AT - New construction insulated and non-insulated ceiling



Ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80 shown.

RMR - Remote recessed insulated ceiling/ Plenum



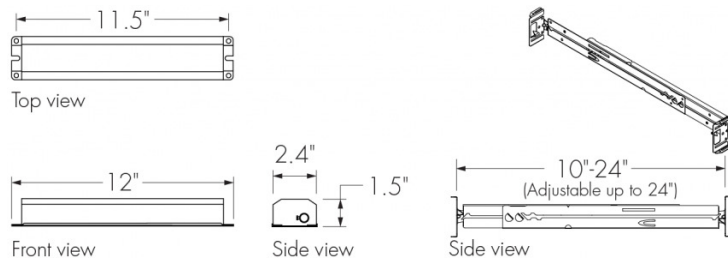
Luminaire ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80/90/95 shown. Refer to remote driver box dimensions in installation instructions for space required for driver.

Remote distance is a maximum of 75 ft, consult Lumenpulse Application Engineering Team for longer remote distances.

Fixture shown for reference only. Refer to Ceiling Requirements section and installation instructions for dimensions and ceiling cutout requirements.

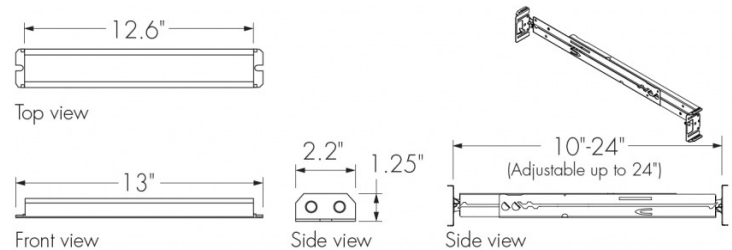
Options

EBB - Emergency battery backup with hanger bar (Bodine BSL17C-C2)



Hardware to mount the battery backup to the hanger bar is included. A test button is included. The unit comes pre-wired with 2 ft flexible conduit in and out. Refer to installation instructions for details.

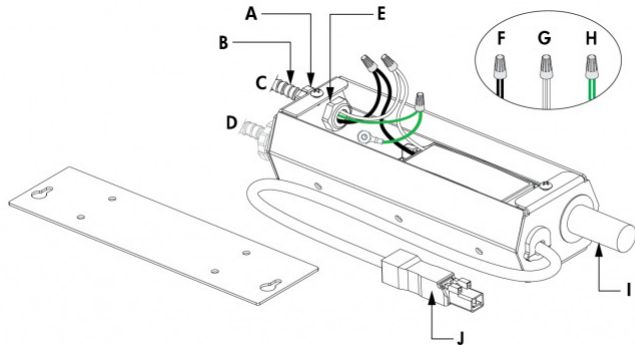
EBI - Emergency battery backup with hanger bar (Iota ILB-CP07-A TBTS)



Hardware to mount the battery backup to the hanger bar is included. A test button is included. The unit comes pre-wired with 2 ft flexible conduit in and out. Refer to installation instructions for details.

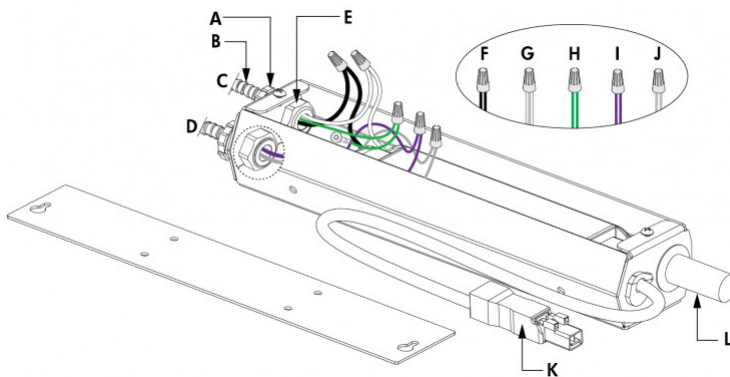
Wiring details RM: remodel non-insulated ceiling

NO and PH controls - wiring detail



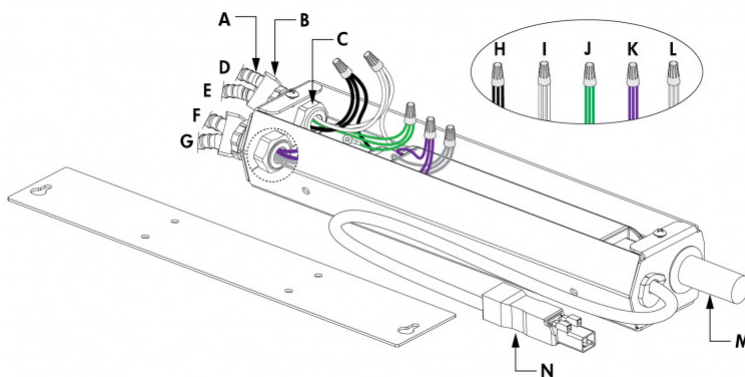
- A - Conduit fitting (by others)
- B - Conduit (by others)
- C - Power Input
- D - Optional Output
- E - Locknut (by others)
- F - Line
- G - Neutral
- H - Ground
- I - Thermal protector
- J - Output to luminaire

Other controls - wiring detail



- A - Conduit fitting (by others)
- B - Conduit (by others)
- C - Power Input
- D - Data Input from Control System
- E - Locknut (by others)
- F - Line
- G - Neutral
- H - Ground
- I - Data +
- J - Data -
- K - Output to luminaire
- L - Thermal protector

Other controls - daisy chain layout wiring detail

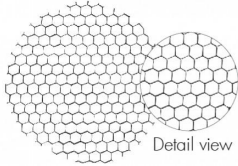


- A - Conduit (by others)
- B - Duplex connector (by others)
- C - Locknut (by others)
- D - Power Output to next luminaire
- E - Power input
- F - Data Output to next luminaire
- G - Data Input from Control System
- H - Line
- I - Neutral
- J - Ground
- K - Data +
- L - Data -
- M - Thermal protector
- N - Output to luminaire

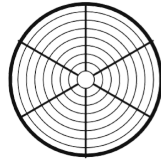
Remodel driver box varies by control option. Refer to installation instructions for additional wiring details.

Optical Accessories

HL - Honeycomb louver



XLVR - Concentric ring louver



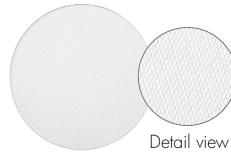
CL - Clear glass lens



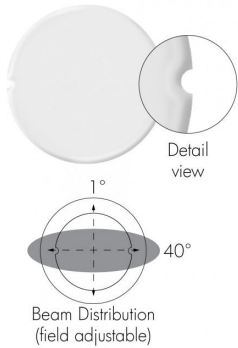
SL - Softening glass lens



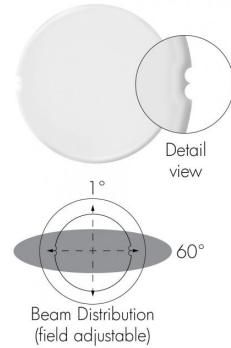
PD - Prismatic diffuser



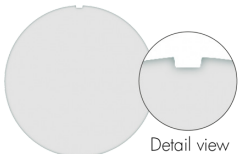
LSN - Linear spread lens narrow (1° x 40°)



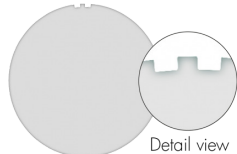
LSW - Linear spread lens wide (1° x 60°)



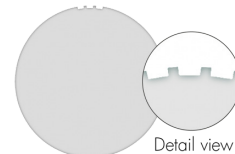
BW1 - Beam widening lens (+10°)



BW2 - Beam widening lens (+20°)



BW3 - Beam widening lens (+30°)



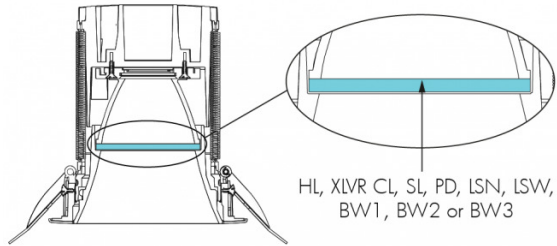
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

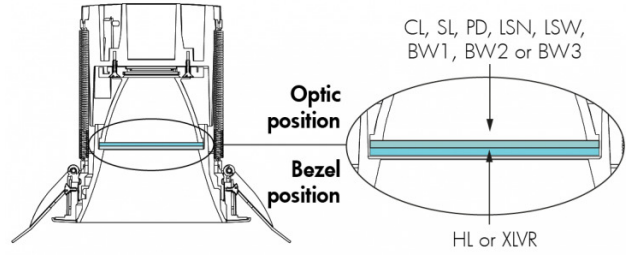
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

Optical accessories - installation options (field changeable)

One optical accessory installed



Two optical accessories installed



Accessories specified in the fixture code will ship from the factory in the order shown above.

How to order

Housing ⁽¹⁾	Quickship	Certification	Type	Voltage	Cutout	Output (nominal lumens)	Color and Color Temperature	Color Rendering	Optics (nominal distribution)
LCRS Lumencore Small - 4 in aperture	QS Quickship ⁽²⁾	A UL/cUL ESR UL/cUL & ENERGY STAR® ⁽³⁾	FD Downlight	120 120 volts	R Round S Square	L07 700 lm ⁽⁸⁾	22K 2200K ^{(7) (11) (12)} 27K 2700K ⁽¹²⁾ 30K 3000K ⁽¹²⁾ 35K 3500K ⁽¹²⁾ 40K 4000K ⁽¹²⁾ DTW Dim to warm (2700K to 2200K) ^{(7) (13) (14) (15)} DTWP Dim to warm plus (3500K to 1800K) ^{(7) (13) (14) (15)} DWH Dynamic White (2700K to 6500K) ^{(7) (14) (16) (17)} DWW Dynamic warm white (2200K to 3000K) ^{(7) (14) (16)} ⁽¹⁷⁾ DWWP Dynamic warm white plus (2200K to 3500K) ^{(7) (14)} ^{(16) (17)}	80 CRI 80+ 90 CRI 90+ 95 CRI 95+ ⁽⁷⁾	XN 5° TIR ^{(7) (18)} VN 10° TIR ^{(7) (19)} NS 15° TIR ⁽²⁰⁾ NSR 15° Reflector ⁽²¹⁾ ⁽²²⁾ NSFR 15° Faceted reflector ^{(21) (22)} N 25° TIR ⁽²³⁾ NR 25° Reflector NFR 25° Faceted reflector M 40° Reflector MFR 40° Faceted reflector W 60° Reflector WFR 60° Faceted reflector VW 80° Reflector VWFR 80° Faceted reflector
				277 277 volts		L10 1000 lm			
				347 347 volts ^{(4) (5) (6)} ⁽⁷⁾		L13 1300 lm			
						L20 2000 lm			
						L30 3000 lm ^{(9) (10)}			
						L40 4000 lm ^{(8) (9) (10)} ⁽¹¹⁾			

Notes:

1. Refer to website product configurator for all exceptions.
2. Refer to website for Quickship configurations.
3. Refer to website for ENERGY STAR certified product configurations.
4. Not available for 700 lumens. Not available for 1000 lumens when combined with 80 color rendering option.
5. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
6. Not available for XN and VN optics.
7. Not available for ENERGY STAR certification.
8. For ENERGY STAR certification, not available with RM or NC installation types when combined with 90 color rendering option.
9. Available for NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
10. Not available with PC, IC, IC/AT or RMR installation types.
11. Available for CRI 80 only.
12. Compatible with all control options except for DALI8.
13. Available for 1000, 1300 and 2000 lumens when combined with 90 color rendering option and NR, NFR, M, MFR, W, WFR, VW or VWFR optics only.
14. NFR, MFR, WFR and VWFR faceted reflector optics are recommended for optimal performance.
15. Compatible with DAL1, ES, SDALI1, SDALI2, DMX/RDM and LT control options only.
16. Available for 1300 lumens when combined with 80 color rendering option and NR, NFR, M, MFR, W, WFR, VW or VWFR optics only.
17. Compatible with LT, DMX/RDM and DALI8 control options only.
18. Available for 700 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options only.
19. Available up to 1300 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options only.
20. Available up to 2000 lumens when combined with 80 color rendering option. Available up to 1300 lumens when combined with 90 or 95 color rendering options.
21. Available up to 1300 lumens when combined with 80, 90 or 95 color rendering options.
22. Available with SB bezel only.
23. Available up to 2000 lumens when combined with 80, 90 or 95 color rendering options.

- 26. Driver cuts on power to the fixture when the control signal drops below 0.5V.
- 29. Available for 120V voltage option only.
- 30. Consult factory for PPH2 control option.
- 31. Not available for 700 lumens.
- 43. Configurable between 8 or 16-bit dimming control via RDM. DMX/RDM requires LumenID, LumenID software and onsite commissioning.
- 44. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.
- 45. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL2) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- 46. 1% minimum dimming value.
- 47. For ENERGY STAR certification, not available with MB, DB and DR decorative bezels when combined with RM or NC installation types or PC, IC and IC/AT installation types when combined with 90 color rendering option.
- 48. For ENERGY STAR certification, not available with MB, DB and DR decorative bezels when combined with RM or NC installation types.
- 49. For ENERGY STAR certification, not available with MB, DB and DR decorative bezels.
- 50. Longer lead times can be expected for custom RAL color finishes.
- 51. Refer to Cylinder specification sheet and brochure for color options.
- 52. Not applicable to DR bezel option.
- 53. Cannot be combined with square ceiling cutout.
- 54. Cannot be combined with round ceiling cutout.
- 55. Available for 700 lumens when combined with XN optic and up to 1300 lumens when combined with VN. Available up to 2000 lumens when combined with NS, NSR, NSFR and N optics. Available up to 4000 lumens when combined with NR and NFR, M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.
- 56. Available for 700 lumens when combined with XN optic. Available up to 1300 lumens when combined with VN, NS, NSR and NSFR optics. Available up to 2000 lumens when combined with N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.
- 57. Not available for 2000 lumens when combined with DTW and DTWP color options.
- 58. Not available for DWH, DWW or DWWP color options.
- 40. When used with RMK installation type, the installer is responsible for verifying the wireless distance limitations of the main controller to the remote driver installation.
- 41. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.
- 42. Not available for PC, IC or IC/AT installation types.
- 59. Remote distance is a maximum of 75 ft. For longer remote distances, please contact Lumenpulse Application Engineering Team for application validation.
- 60. Ceiling springs are field changeable, consult factory and installation instructions for details.
- 61. IP54 rating only if installation is interior covered recessed ceiling-mounted or exterior canopy-mounted.
- 62. DR bezel is recommended for outdoor canopy installations.
- 63. A CL, SL or PD must be specified to maintain an IP54 rating. A second accessory may be specified.
- 64. For ENERGY STAR certification, not available with RM or NC installation types when combined with 90 color rendering option combined and 2000 lumens.
- 65. Available for RM and NC installation types only.
- 66. Emergency battery backup options require ceiling access for test button use. The battery will operate for 90 minutes minimum and maintain a minimum of 1 fc from a 7 ft 2 in height as per UL 924. For indoor use only in dry or damp locations.
- 67. Emergency battery backup options are field installed and not presided by Lumenpulse. Refer to related installation instructions for details.
- 68. Maximum two accessories per fixture.
- 69. Not available for DTW and DTWP color options.
- 70. Available for XN, VN and NS optics only.
- 71. Can be combined with PD accessory only.
- 72. Recommended to be combined with HL or XLVR accessory only.
- 73. Recommended for XN, VN, NS, NSR, NSFR, N, NR and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color temperature options. Nominal 10° x 40° distribution when used with the NS optic. Available for NFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options only.
- 74. For optimal performance, it is not recommended to mix with other accessories.
- 75. Recommended for XN, VN, NS, NSR, NSFR, N, NR and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color temperature options. Nominal 10° x 60° distribution when used with the NS optic. Available for NFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options only.