Specification Sheet

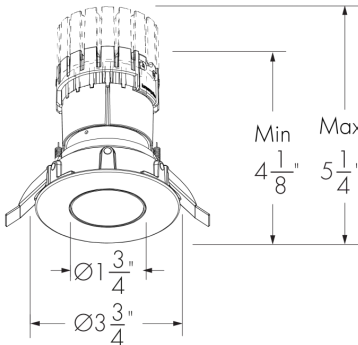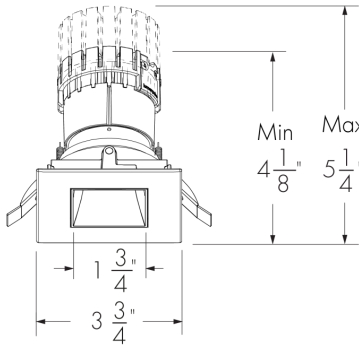**Project Name** _____   **Qty** _____

Type _____   **Catalog / Part Number** _____

Round trim
(Shown with 1 in ceiling springs)
Round trim ceiling cutout: Ø3.25 in

Square trim
(Shown with 1 in ceiling springs)
Square trim ceiling cutout: 3.25 in x 3.25 in

Description

The Lumencore Nano Pinhole is a high-performance LED downlight for ceiling applications. Available in an array of trims and finishes, outputs, optics, color renderings, and accessories, these luminaires are here to outperform. The Lumencore Nano Pinhole possesses a previously unseen lifespan, is quick to install, and can be used with a number of different control options.
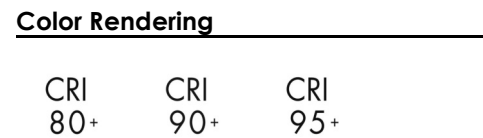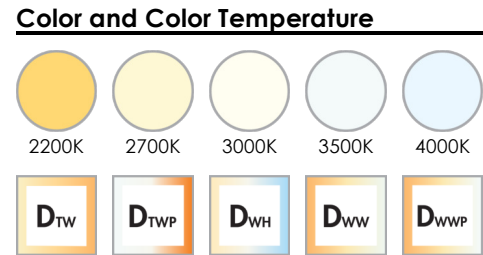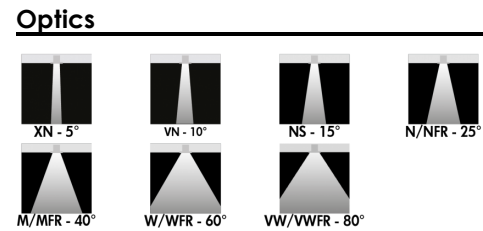
Photometric Summary

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	508	7.5	68	9.5	53
1000	668	11	61	13	51
1300	910	13	70	15	61

[1] Consult website for latest IES files.

Optics

XN - 5°   VN - 10°   NS - 15°   N/NFR - 25°

M/MFR - 40°   W/WFR - 60°   VW/VWFR - 80°

Color and Color Temperature

2200K   2700K   3000K   3500K   4000K

D_{TW}   D_{TWP}   D_{WH}   D_{WW}   D_{WWP}

Color Rendering

CRI 80+   CRI 90+   CRI 95+

Physical

Cutout	**R:** Round, **S:** Square
Decorative Bezel	**PB:** Pinhole
Trim	**PR:** Pinhole round, **PS:** Pinhole square, **PSR:** Pinhole square trim with round hole
Ceiling Thickness	**1:** 0.04 in to 1 in ceiling thickness **2:** 1.05 in to 2 in ceiling thickness
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Weight	3 lbs with RM installation type, 4.2 lbs with NC installation type, 7.2 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 15 in x 8 in x 8 in with RM installation type, Up to 15 in x 10 in x 8 in with NC installation type 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.)

Controls

ON/OFF   0-10V   PRO 0-10V   PH

PRO PH   **LUTRON**   DALI   PRO DALI

DALIT8   DMX rdm   lumen talk

Ceiling Cutout Shapes

Ø3 1/4" [83mm]

R - Round

3 1/4" [83mm]
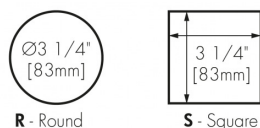
S - Square

Decorative Bezel (Round Trim)

PB - Pinhole

Decorative Bezel (Square Trim)

PB - Pinhole

Standard Finishes for Decorative Bezel

MBK - Matte black

Trim Shapes

PR - Pinhole round

PS - Pinhole square

PSR - Pinhole square round hole

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)

Features

Output (Nominal Lumens)	**L07:** 700 lm, **L10:** 1000 lm, **L13:** 1300 lm, **L20:** 2000 lm, **L30:** 3000 lm
Color and Color Temperature	**22K:** 2200K **27K:** 2700K **30K:** 3000K **35K:** 3500K **40K:** 4000K **DTW:** Dim to Warm **DTWP:** Dim to Warm Plus **DWH:** Dynamic White **DWW:** Dynamic Warm White **DWWP:** Dynamic Warm White Plus
Optics (Nominal Distribution)	**XN:** Extra Narrow Spot Distribution 5° **VN:** Very Narrow Spot Distribution 10° **NS:** Narrow Spot Distribution 15° **N:** Narrow Distribution 25° **NFR:** Narrow Faceted Reflector 25° **M:** Medium Reflector 40° **MFR:** Medium Faceted Reflector 40° **W:** Wide Reflector 60° **WFR:** Wide Faceted Reflector 60° **VW:** Very Wide Reflector 80° **VWFR:** Very Wide Faceted Reflector 80°
Decorative Bezel Finish	**MBK:** Matte Black
Trim Finish	**MWH:** Matte White **MBK:** Matte Black **NKS:** Nickel Satin **CC:** Custom color Trim (specify 4-digit RAL K7 color) **SP:** Special color (choose from standard Point Source color palette)
Installation Type	**RM:** Remodel Non-Insulated Ceiling (Plenum Rated in accordance to UL 2043 & CAN/ULC-S142) **NC:** New Construction Non-Insulated Ceiling (Plenum Rated in accordance to UL 2043 & CAN/ULC-S142) **PC:** Plenum Non-Insulated Ceiling (enclosed box) **IC:** New Construction Insulated Ceiling (enclosed box) **IC/AT:** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) **RMR:** Remote Recessed Insulated Ceiling/Plenum (enclosed box)
Option	**EBB:** Emergency Battery Backup with Hanger Bar (Bodine BSL17C-C2) **EBI:** Emergency Battery Backup with Hanger Bar (Iota ILB-CP07-A TBTS)
Certifications	UL compliant (this luminaire is listed & labeled for such use in accordance with UL2043 & CAN/ULC-S142), RoHS
Warranty	5-year limited warranty

Electrical and control

Voltage	**120:** 120 volts, **277:** 277 volts, **347:** 347 volts

Options

Emergency
battery backup

Rating

IP20

Certifications

Wattage Range		8.5W to 30W (wattage will vary based on voltage, output, color temperature, color rendering, optic, control and installation type, refer to Power Consumption table for details)
Control		**NO:** On/Off control

Control

NO: On/Off control
NO3: On/Off control 347V
DAMC: Standard 0-10V dimming to 1% linear curve
DA1: Standard 0-10V dimming 1% linear
DA2: Standard 0-10V dimming 1% logarithmic
DA3: Standard 0-10V dimming 1% linear (347V)
PDA1: Pro 0-10V dimming 0.1% linear
PDA2: Pro 0-10V dimming 0.1% logarithmic
PH: Phase dimming
PPH: Pro Phase 1% dimming
ESP: Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black (temporarily unavailable)
SDALI1: Standard DALI dimming 1% linear
SDALI2: Standard DALI dimming 1% logarithmic
DALI1: Pro DALI dimming 0.1% linear
DALI2: Pro DALI dimming 0.1% logarithmic
DALIT8: DALI-2 dimming Type 8 (multi channel capability)
DMX/RDM: DMX/RDM (configurable to 1, 2, or 3 channel control via RDM in the field)
LT: Lumentalk dimming

Performance

Maximum Delivered Output	Up to 1,766 lm (Medium Faceted Reflector optic 40°, 4000K, CRI 80)
Maximum Delivered Intensity	Up to 31,473 cd (Extra Narrow Spot optic 5°, 4000K, CRI 80)
Efficacy	Up to 70 lm/W (Narrow Spot distribution optic 15°, 4000K, CRI 80, 120V, New Construction Non-insulated Ceiling), Up to 80 lm/W (Narrow Spot Distribution optic 15°, 4000K, CRI 80, 120V, New Construction Insulated Ceiling)
Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Color Rendering	**80:** CRI 80+, **90:** CRI 90+, **95:** CRI 95+
Lumen Maintenance	L95 55,000 hrs (Ta 25 °C) L70 225,000 hrs (Ta 25 °C)

Environmental

|	
Ingress Protection Rating	IP20
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, PH and PPH control options), 14 °F to 104 °F (NO control option), 32 °F to 104 °F (NO3, ESP control options and EBB and EBI options)

Exploded Overview - Part Selection
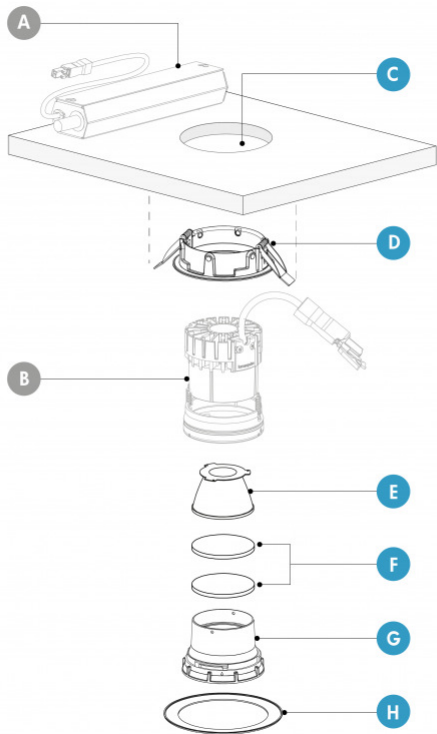
Standard parts

A - MTG kit
B - LUM Core (heatsink, universal fixing ring, LED module)
MTG: Mounting Kit
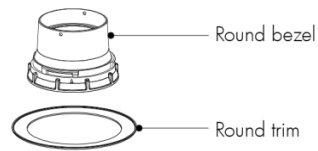LUM: Luminaire

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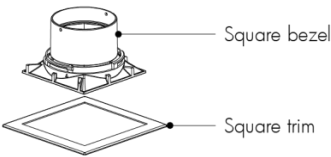**Field changeable, consult installation instructions for details. Consult factory for ordering details.

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Ceiling Cutout Shape Options

RD - Round Ceiling Cutout

Round bezel

Round trim

SQ - Square Ceiling Cutout

Square bezel

Square trim

Decorative Bezel Options

RD - Compatible Round Decorative Bezels

PB - Pinhole

SQ - Compatible Square Decorative Bezels

PB - Pinhole

Standard Finishes - Decorative Bezels

MBK - Matte black

Trim Shape Options

RD - Compatible Round Trim Shapes

PR - Pinhole round

PSR - Pinhole square trim with round hole

SQ - Compatible Square Trim Shapes

PS - Pinhole square

Standard Finishes - Trims

MWH - Matte white

MBK - Matte black

NKS - Nickel satin

CC - Custom colour*
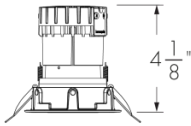
SP - Special colour**

*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.
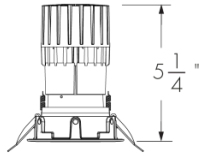
Dimensions

PB - Pinhole

L07, L10, L13

$4\frac{1}{8}$ "

Front view
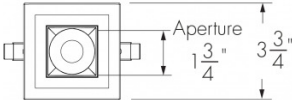
L20, L30*

$5\frac{1}{4}$ "

Front view

*Also applicable to L13 for VN optic (CR80/90), L13 for NS and N optics (CR90/95), L13 for DTW and DTWP, L13 for DWH, DWW and DVWP
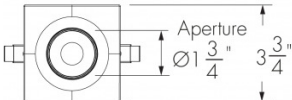
PR - Pinhole Round

Aperture $\varnothing 1\frac{3}{4}$ " $\varnothing 3\frac{3}{4}$ "

Bottom view

PS - Pinhole Square

Aperture $1\frac{3}{4}$ " $3\frac{3}{4}$ "

Bottom view

PSR - Pinhole Square Trim with Round Hole
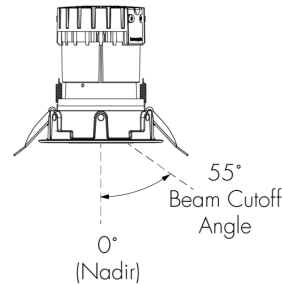

Aperture $\varnothing 1\frac{3}{4}$ " $3\frac{3}{4}$ "

Bottom view

Round ceiling cutout: Ø3.25 in
Square ceiling cutout: 3.25 in x 3.25 in

Beam Cutoff Angle

PB - Pinhole

55°
Beam Cutoff
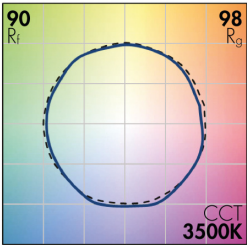Angle

0°
(Nadir)

Front view

TM-30

CRI 80+

CRI 80 +				
CCT	**CIE**		**TM-30**	
3500K	R$_a$	84	84	R$_f$
	R$_9$	15	97	R$_g$
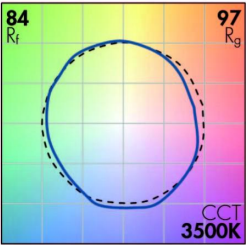
CRI 90+

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$_g$
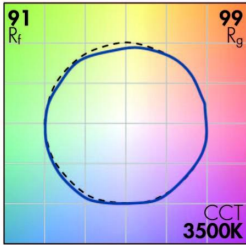
Refer to TM-30 Reference Guide for details.

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Color and Color Temperature

Color Temperature Ranges

2200K | 2700K | 3000K | 3500K | 4000K

1800K   6500K

D_{TW} Dim to warm
2700K - 2200K

D_{WW} Dynamic warm
2200K - 3000K

D_{WWP} Dynamic warm plus
2200K - 3500K

D_{TWP} Dim to warm plus
3500K - 1800K

D_{WH} Dynamic white
2700K - 6500K

- - -1 channel (DTW, DTWP) Compatible with: DA1 SDALI1 SDALI2 DMX rdm lumen talk
——2 channels* (DWH, DWW, DWWP) Compatible with: DALIT8 DMX rdm lumen talk
——3 channels (DWH, DWW, DWWP) Compatible with: DALIT8 DMX rdm lumen talk

*Can be changed in the field via RDM & LT for individual CCT control.

Dim to warm

Intensity (%)
100%, 80%, 60%, 40%, 20%, 0%

Color Temperature (CCT): 2700K, 2450K, 2200K

Dim to warm plus

Intensity (%)
100%, 80%, 60%, 40%, 20%, 0%

Color Temperature (CCT): 3500K, 2650K, 1800K

Control

Linear curve

Brightness % / Voltage %

Logarithmic curve

Brightness % / Voltage %

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

*Temporarily unavailable, consult factory.

**DMX/RDM control can be programmed onsite via RDM for linear dimming curve option. Logarithmic curve is standard from factory. Consult factory for further details.

Refer to website product code for exceptions.

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Optics

TIR Optic - Total Internal Reflection

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

Semi-Specular Reflector

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

Faceted Reflector

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

Beam Widening Lenses

	Optic installed in fixture										
	XN 5°	VN 10°	NS 15°	N 25°	NFR 25°	M 40°	MFR 40°	W 60°	WFR 60°	VW 80°	VWFR 80°
BW1	11°	14°	21°	26°	26°	51°	51°	61°	61°	81°	81°
BW2	21°	22°	27°	31°	31°	54°	54°	63°	63°	82°	82°
BW3	30°	32°	35°	38°	38°	58°	58°	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°	N 25°	NFR 25°	M 40°	MFR 40°	W 60°	WFR 60°	VW 80°	VWFR 80°
Interchangeable optics	N/A	N/A	N NFR	NS NFR	NS N	MFR W WFR VW VWFR	M W WFR VW VWFR	M MFR WFR VW VWFR	M MFR W VW VWFR	M MFR W WFR VWFR	M MFR W WFR VW

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

Power Consumption

Static White Color Temperatures

Output [lm]	Power consumption [W]									
	XN (5°) - **VN** (10°)		**NS** (15°) - **N** (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	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**	N/A	24**	N/A	20	23	21	24
3000	N/A	N/A	N/A	N/A	N/A	N/A	30	N/A	30	N/A

*Not applicable to XN optic.
**Not applicable to NS and N optics.

Dynamic Colors

Output [lm]	Power consumption [W]			
	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	19	26

- Power consumption values are for non-insulated ceiling (RM and NC) and remote recessed insulated ceiling/plenum (RMR) installation types. For plenum ceiling (PC), 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.
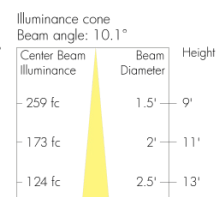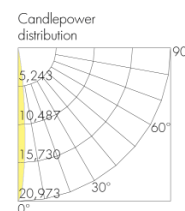- Add 4 watts per fixture when specifying 347V.

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JC - R12

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Photometric Information

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

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	628	565

Candlepower distribution: 7,868 / 15,737 / 23,605 / 31,473

Illuminance cone — Beam angle: 5.6°

Center Beam Illuminance	Beam Diameter	Height
389 fc	1'	9'
260 fc	1'	11'
186 fc	1.5'	13'
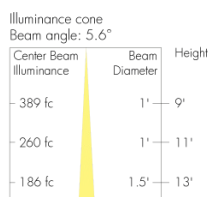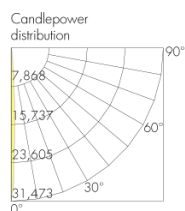
VN - Very Narrow Spot (Nominal 10°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	635	572
1000	908	817
1300	1,180	1,062

Candlepower distribution: 5,243 / 10,487 / 15,730 / 20,973

Illuminance cone — Beam angle: 10.1°

Center Beam Illuminance	Beam Diameter	Height
259 fc	1.5'	9'
173 fc	2'	11'
124 fc	2.5'	13'

NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	582	611	524
1000	766	804	689
1300	1,043	1,095	938

Candlepower distribution: 2,197 / 4,394 / 6,591 / 8,788

Illuminance cone — Beam angle: 16.7°

Center Beam Illuminance	Beam Diameter	Height
109 fc	2.6'	2.7'
73 fc	3.2'	3.4'
52 fc	3.8'	4'
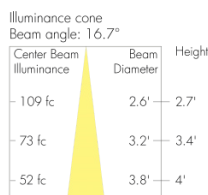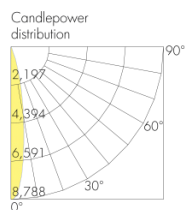
N - Narrow (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	508	533	457
1000	668	702	602
1300	910	956	819

Candlepower distribution: 1,235 / 2,471 / 3,706 / 4,941

Illuminance cone — Beam angle: 20.7°

Center Beam Illuminance	Beam Diameter	Height
61 fc	3.5'	9'
41 fc	4'	11'
29 fc	4.5'	13'
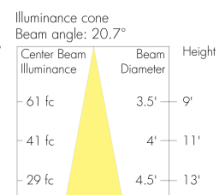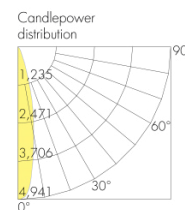
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	503	528	453
1000	662	695	596
1300	902	947	812
2000	1,409	N/A	N/A

Candlepower distribution: 1,602 / 3,203 / 4,805 / 6,407

Illuminance cone — Beam angle: 20.2°

Center Beam Illuminance	Beam Diameter	Height
79 fc	3.5'	9'
53 fc	4'	11'
38 fc	4.5'	13'
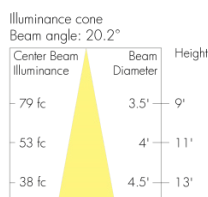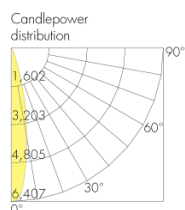
M - Medium Reflector (Nominal 40°), 4000KR

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	398	418	359
1000	515	540	463
1300	714	749	642
2000	1,112	1,168	1,001
3000	1,660	N/A	N/A

Candlepower distribution: 1,085 / 2,170 / 3,254 / 4,339

Illuminance cone — Beam angle: 33°

Center Beam Illuminance	Beam Diameter	Height
54 fc	5.5'	9'
36 fc	6.5'	11'
26 fc	7.5'	13'
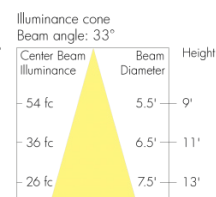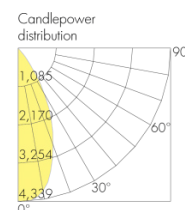
MFR - Medium Faceted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	424	445	381
1000	547	575	493
1300	759	797	683
2000	1,183	1,242	1,065
3000	1,766	N/A	N/A

Candlepower distribution: 862 / 1,723 / 2,585 / 3,446

Illuminance cone — Beam angle: 40.8°

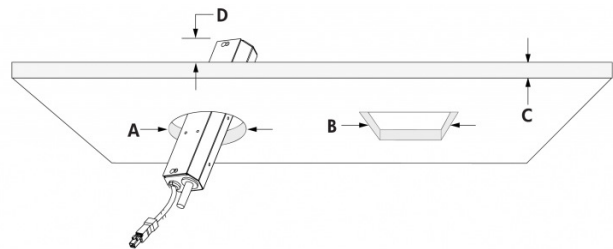| Center Beam Illuminance	Beam Diameter	Height
43 fc	6.5'	9'
29 fc	8'	11'
20 fc	9.5'	13'
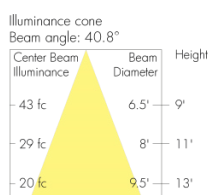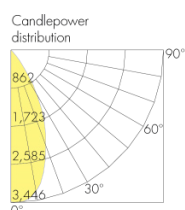
Based on Pinhole Bezel and Round or Square Trim configuration.

† Consult website for IES files. Delivered output: +/- 10% tolerance.

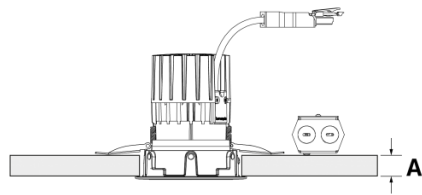Consult Power consumption section for more wattage information.

Ceiling Requirements

Ceiling Cutout

A - Ceiling cutout: Ø3.25 in
B - Ceiling cutout: 3.25 in x 3.25 in
C - Maximum ceiling thickness: 2 in
D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table
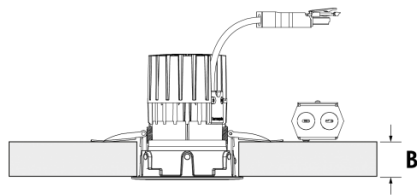
Ceiling Thickness Options

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.

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www.lumenpulse.com/products/2626

Installation Types

RM : Remodel Non-Insulated Ceiling (Plenum Rated in Accordance to UL 2043 & CAN/ULC-S142) (NO, PH, ES and ESP Controls Only)
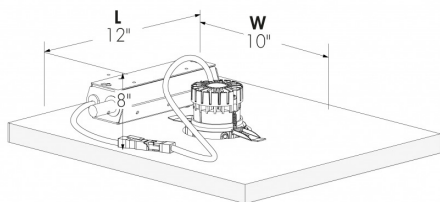
Ceiling cavity space requirements for L20 CR90/95 and L30 CR80 shown.

RM: Remodel Non-Insulated Ceiling (Plenum Rated in Accordance to UL 2043 & CAN/ULC-S142) (Other Controls)
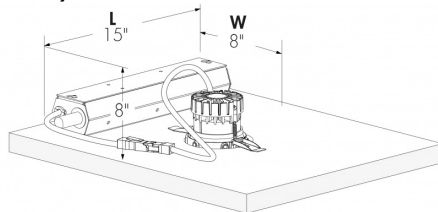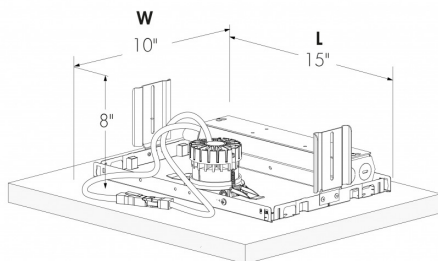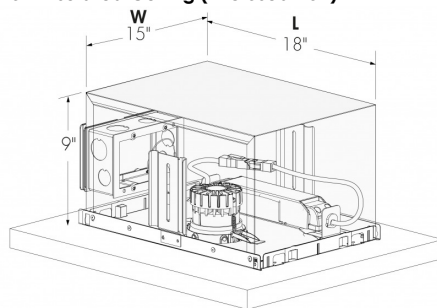

Ceiling cavity space requirements up to L20 CR90/95 and L30 CR80 shown.

NC: New Construction Non-Insulated Ceiling (Plenum Rated in accordance to UL 2043 & CAN/ULC-S142) (NO, PH, ES and ESP Control Options only)
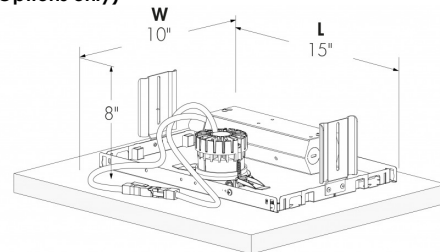
Ceiling cavity space requirements for L20 CR90/95 and L30 CR80 shown.

NC: New Construction Non-Insulated Ceiling (Plenum Rated In Accordance To UL 2043 & CAN/ULC-S142) (Other Controls)

Ceiling cavity space requirements up to L20 CR90/95 and L30 CR80 shown.

**IC, PC, IC/AT: New Construction Insulated and Non-Insulated Ceiling (Enclosed Box)**

IC - New construction insulated ceiling (enclosed box)
PC - Plenum non-insulated ceiling (enclosed box)
IC/AT - New construction insulated ceiling (Chicago Plenum/airtight, enclosed box)

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

**RMR: Remote Recessed Insulated Ceiling/Plenum (Enclosed Box)**
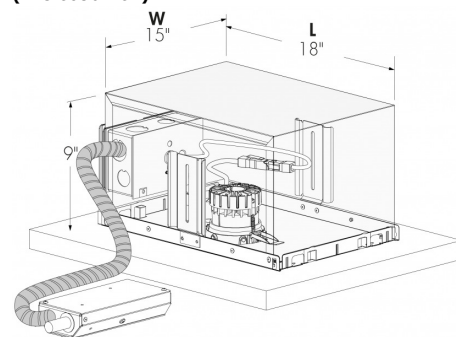
Luminaire ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80 shown. Refer to remote driver box dimensions in installation instructions for space required for driver.

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.
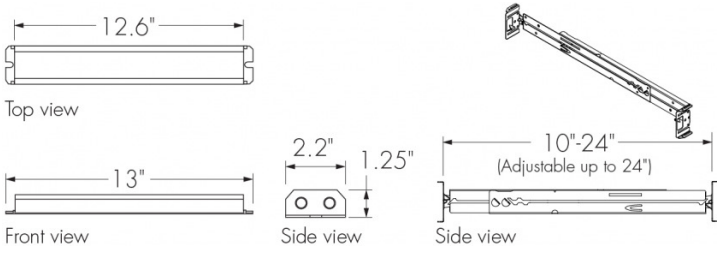
Options

EBB - Emergency Battery Backup With Hanger Bar (Bodine BSL17C-C2)
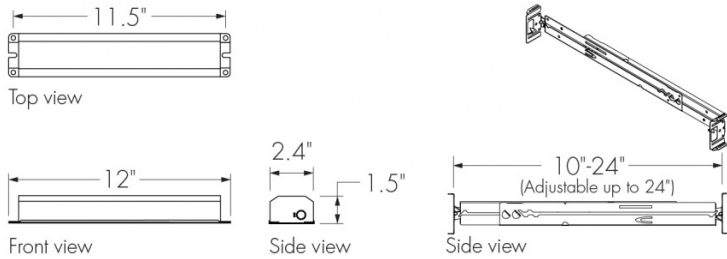
11.5"

Top view

12"

Front view

2.4"

1.5"

Side view

10"-24"
(Adjustable up to 24")

Side view

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.
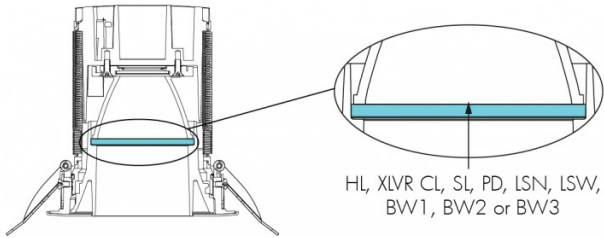
EBI - Emergency Battery Backup With Hanger Bar (Iota ILB-CP07-A TBTS)

12.6"

Top view

13"

Front view

2.2"

1.25"

Side view

10"-24"
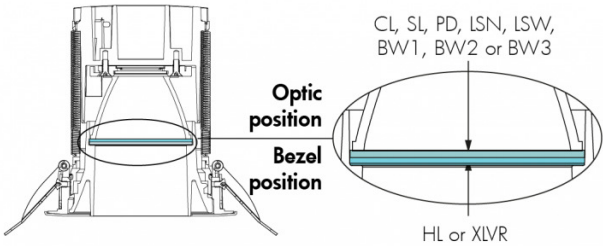(Adjustable up to 24")

Side view

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.

## Optical Accessories - Installation Options (Field Changeable)

One Optical Accessory Installed

HL, XLVR CL, SL, PD, LSN, LSW, BW1, BW2 or BW3

Two Optical Accessories Installed

CL, SL, PD, LSN, LSW, BW1, BW2 or BW3

Optic position

Bezel position

HL or XLVR

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

Wiring Details RM: Remodel Non-Insulated Ceiling (Plenum Rated In Accordance to UL 2043 & CAN/ULC-S142)

NO And PH Controls - Wiring Detail
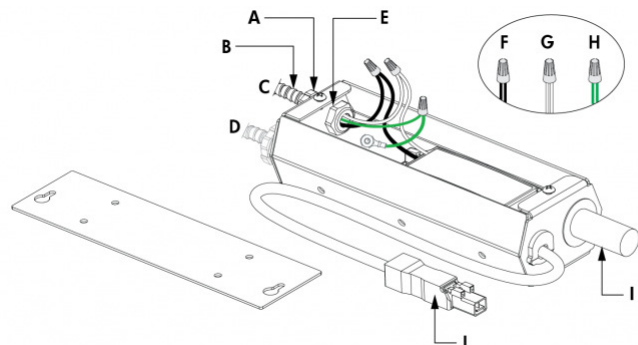
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Optional Output
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Thermal protector
J - Output to luminaire

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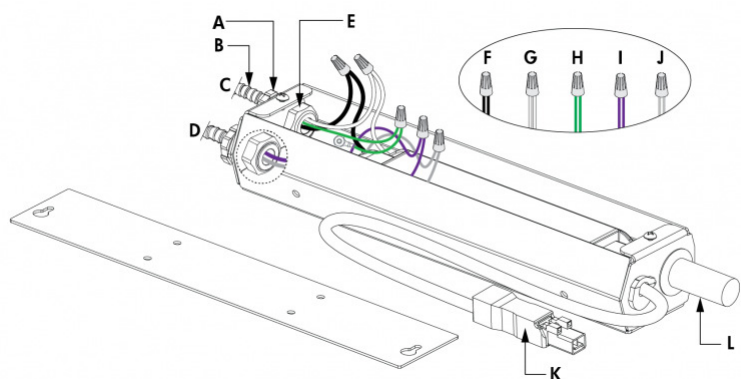
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Data Input from Control System
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Data +
J - Data -
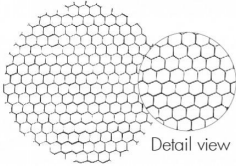**K -** Output to luminaire
L - Thermal protector

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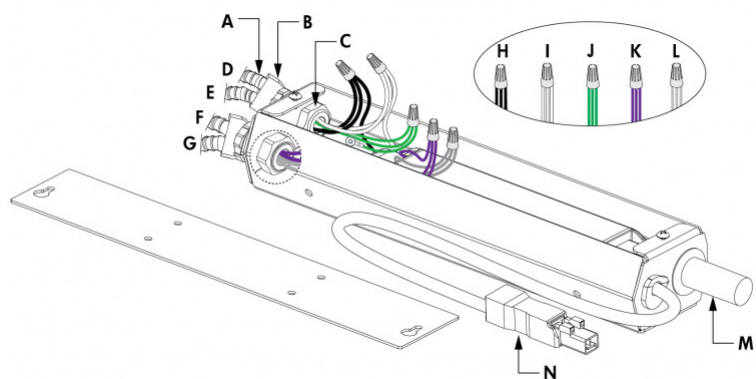
A - Conduit (by others)
B - Duplex connector (by others)
C - Locknut (by others)
D - Power Output to next luminaire
E - Power input
F - Data Output to next luminaire
G - Data Input from Control System
H - Line
I - Neutral
J - Ground
K - Data +
L - Data -
M - Thermal protector
N - Output to luminaire

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

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JC - R12

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Optical Accessories

HL - Honeycomb Louver

Detail view

XLVR - Concentric Ring Louver

CL - Clear Glass Lens
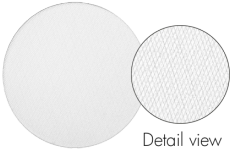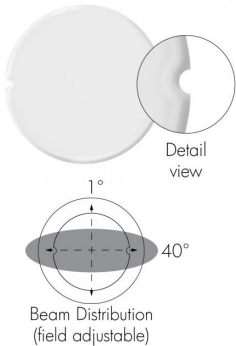
SL - Softening Glass Lens

PD – Prismatic Diffuser

Detail view

LSN - Linear Spread Lens Narrow (1° x 40°)

Detail view

1°

40°

Beam Distribution
(field adjustable)

LSW - Linear Spread Lens Wide (1° x 60°)

Detail view

1°

60°

Beam Distribution
(field adjustable)

BW1 - Beam Widening Lens (+10°)

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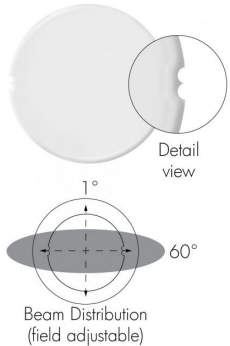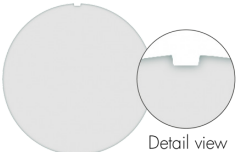
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

BW2 - Beam Widening Lens (+20°)

Detail view

Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.
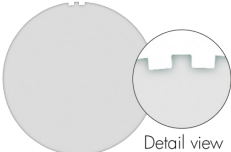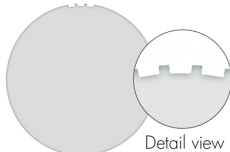
BW3 - Beam widening lens (+30°)

Detail view

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

How to Order

Housing [1]	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Color and Color Temperature	Color Rendering	Optics (Nominal Distribution)	Control [20]
LCRN Lumencore Nano - 2.75 in aperture	**A** UL/cUL	**P** Pinhole	**120** 120 volts **277** 277 volts **347** 347 volts [2] [3] [4]	**R** Round **S** Square	**L07** 700 lm **L10** 1000 lm **L13** 1300 lm **L20** 2000 lm **L30** 3000 lm [5] [6]	**22K** 2200K [7] [8] **27K** 2700K [8] **30K** 3000K [8] **35K** 3500K [8] **40K** 4000K [8] **DTW** Dim to Warm (2700K to 2200K) [9] [10] [11] **DTWP** Dim to Warm Plus (3500K to 1800K) [9] [10] [11] **DWH** Dynamic White (2700K to 6500K) [10] [12] [13] **DWW** Dynamic Warm White (2200K to 3000K) [10] [12] [13] **DWWP** Dynamic Warm White Plus (2200K to 3500K) [10] [12] [13]	**80** CRI 80+ **90** CRI 90+ **95** CRI 95+	**XN** Extra Narrow Spot Distribution 5° [14] **VN** Very Narrow Spot Distribution 10° [15] **NS** Narrow Spot Distribution 15° [16] **N** Narrow Distribution 25° [16] **NFR** 25° Faceted Reflector [17] **M** 40° Reflector [18] **MFR** 40° Faceted Reflector [18] **W** 60° Reflector [18] [19] **WFR** 60° Faceted Reflector [18] [19] **VW** 80° Reflector [18] [19] **VWFR** 80° Faceted Reflector [18] [19]	**NO** On/Off control [21] [22] **NO3** On/Off control 347V [2] [3] [23] **DAMC** Standard 0-10V dimming to 1% linear curve [4] [22] [24] [25] **DA1** Standard 0-10V dimming 1% linear [22] [26] **DA2** Standard 0-10V dimming 1% logarithmic [22] [26] **DA3** Standard 0-10V dimming 1% linear (347V) [2] [3] [23] **PDA1** Pro 0-10V dimming 0.1% linear [22] [26] **PDA2** Pro 0-10V dimming 0.1% logarithmic [22] [26] **PH** Phase dimming [27] [28] **PPH** Pro Phase 1% dimming [3] [4] [28] [29] **ESP** Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black (temporarily unavailable) [22] [30] [31] [32] **SDALI1** Standard DALI dimming 1% linear [22] **SDALI2** Standard DALI dimming 1% logarithmic [22] **DALI1** Pro DALI dimming 0.1% linear [22] **DALI2** Pro DALI dimming 0.1% logarithmic [22] **DALIT8** DALI-2 dimming Type 8 (multi channel capability) [3] [22] [33] [34] **DMX/RDM** DMX/RDM (configurable to 1, 2, or 3 channel control via RDM in the field) [22] [35] [36] **LT** Lumentalk dimming [22] [37] [38]

Notes:

1. Refer to website product configurator for all exceptions.
2. Not available for 700 lumens. Not available for 1000 lumens when combined with 80 color rendering option.
3. Not available for XN and VN optics.
4. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
5. Available for M, MFR, W, WFR, VW and VWFR optics only.
6. Not available with PC, IC, IC/AT or RMR installation types.
7. Available for CRI 80 only.
8. Compatible with all control options except for DALIT8.
9. Available for 1000 and 1300 lumens when combined with 90 color rendering option and MFR, W, WFR, VW or VWFR optics only.
10. MFR, WFR and VWFR faceted reflector optics are recommended for optimal performance.
11. Compatible with DA1, SDALI1, SDALI2, DMX/RDM and LT control options.
12. Available for 1300 lumens when combined with 80 color rendering option and MFR, W, WFR, VW or VWFR optics only.
13. Compatible with LT, DMX/RDM and DALIT8 control options only.
14. Available for 700 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options only.
15. Available up to 1300 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options only.
16. Available up to 1300 lumens when combined with 80, 90 or 95 color rendering options only.
17. Available up to 2000 lumens when combined with 80 color rendering option and up to 1300 lumens when combined with 80, 90 or 95 color rendering options only.

18. Available up to 3000 lumens when combined with 80 color rendering option and up to 2000 lumens when combined with 80, 90 or 95 color rendering options only.
19. Beam angle will be affected by the Pinhole bezel. Consult factory for details.
20. Control options vary according to color temperature, color rendering, optics and installation type combination. Refer to website product configurator for details.
21. Manufacturer's choice driver. Order code may change to NO1.
22. Not available with 347V.
23. Available for 3000 lumens.
24. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.
25. Not available for XN and VN optics.
26. Driver cuts off power to the fixture when the control signal drops below 0.5V.
27. Manufacturer's choice driver. Order code may change to PH1 or PH2.
28. Available for 120V voltage option only.
29. Manufacturer's choice driver. Order code is subject to change.
30. Consult factory for availability.
31. One EcoSystem® address per fixture. Lutron® EcoSystem® Enabled dimming not available for 1300 lumens combined with VN optic. Available for static white color temperatures only.
32. Not available for 3000 lumens.
33. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.
34. Not available for PC, IC or IC/AT installation types.

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35. Configurable between 8 or 16-bit dimming control via RDM. DMX/RDM requires LumenID, LumenID software and onsite commissioning.

36. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.

37. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

38. 1% minimum dimming value.

How to Order

Decorative Bezel	Decorative Bezel Finish	Trim	Trim Finish	Installation Type	Ceiling Thickness [47]	Option	Accessories [51]
PB Pinhole	**MBK** Matte Black	**PR** Pinhole round [39] **PS** Pinhole square [40] **PSR** Pinhole square trim with round hole [39]	**MWH** Matte White **MBK** Matte Black **NKS** Nickel Satin **CC** Custom Color Trim [41] **SP** Special Point Source Color [42]	**RM** Remodel Non-Insulated Ceiling (Plenum Rated in accordance to UL 2043 & CAN/ULC-S142) [43] **NC** New Construction Non-Insulated Ceiling (Plenum Rated in accordance to UL 2043 & CAN/ULC-S142) [43] **PC** Plenum Non-Insulated Ceiling (enclosed box) [32] [44] [45] **IC** New Construction Insulated Ceiling (enclosed box) [32] [44] [45] **IC/AT** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) [32] [44] [45] **RMR** Remote Recessed Insulated Ceiling/Plenum (enclosed box) [32] [44] [45] [46]	**1** 0.04 in to 1 in ceiling thickness **2** 1.05 in to 2 in ceiling thickness	**EBB** Emergency Battery Backup with Hanger Bar (Bodine BSL17C-C2) [4] [22] [48] [49] [50] **EBI** Emergency Battery Backup with Hanger Bar (Iota ILB-CP07-A TBTS) [4] [22] [48] [49] [50]	**NA** No accessory **HL** Honeycomb Louver [52] **XLVR** Concentric Ring Louver [53] [54] **CL** Clear Glass Lens **SL** Softening Glass Lens **PD** Prismatic Diffuser [55] **LSN** Linear Spread Lens Narrow (1° x 40°) [56] [57] **LSW** Linear Spread Lens Wide (1° x 60°) [57] [58] **BW1** Beam Widening Lens (+10°) [57] **BW2** Beam Widening Lens (+20°) [57] **BW3** Beam Widening Lens (+30°) [57]

Notes:

4. Not available for DTW, DTWP, DWH, DWW or DWWP color options.

22. Not available with 347V.

32. Not available for 3000 lumens.

39. Cannot be combined with square ceiling cutout.

40. Cannot be combined with round ceiling cutout.

41. Longer lead times can be expected for custom RAL color finishes.

42. Refer to Cylinder specification sheet and brochure for color options.

43. Available for 700 lumens when combined with XN optic and up to 1300 lumens when combined with VN, NS and N optics. Available up to 2000 lumens when combined with NFR optic and up to 3000 lumens when combined with M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.

44. Available for 700 lumens when combined with XN optic and up to 1300 lumens when combined with VN, NS, N and NFR optics. Available up to 2000 lumens when combined 80 color rendering option and M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.

45. Not available for DWH, DWW or DWWP color options.

46. Remote distance is a maximum of 75 ft. For longer remote distances, please contact Lumenpulse Application Engineering Team for application validation.

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

48. Available for RM and NC installation types only.

49. 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.

50. Emergency battery backup options are field installed and not presided by Lumenpulse. Refer to related installation instructions for details.

51. Maximum two accessories per fixture.

52. Not available for DTW and DTWP color options.

53. Available for XN, VN and NS optics only.

54. Can be combined with PD accessory only.

55. Recommended to be combined with HL or XLVR accessory only.

56. Recommended for XN, VN, NS, N 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. Recommended for MFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options.

57. For optimal performance, it is not recommended to mix with other accessories.

58. Recommended for XN, VN, NS, N and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color temperature options only. Nominal 10° x 60° distribution when used with the NS optic. Recommended for MFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options only.