Project Name _____   Qty _____

Type _____   Catalog / Part Number _____
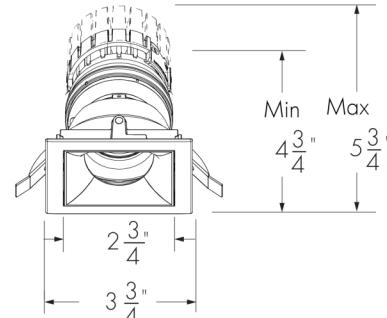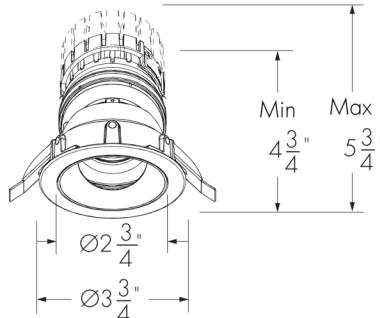
Round trim
(Shown with 1 in ceiling springs)
Round trim ceiling cutout: Ø3.25 in

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

Photometric Summary

**Based on Narrow Optic (nominal 25°), 4000K, CRI 90+**

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	532	7.5	71	9.5	56
1000	700	11	64	13	54
1300	953	13	73	15	64

1. Consult website for latest IES files.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

Optics

XN - 5°	VN - 10°	NS - 15°	N/NFR - 25°	M/MFR - 40°

Color and Color Temperature

2200K	2700K	3000K	3500K	4000K

D$_{TW}$	D$_{TWP}$	D$_{WH}$	D$_{WW}$	D$_{WWP}$
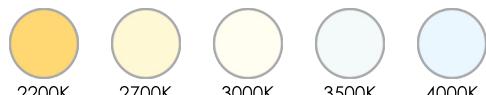
Color Rendering

CRI 80+	CRI 90+	CRI 95+

Description

The Lumencore Recessed Nano Fixed Tilt is a high-performance fixed 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 Recessed Nano Fixed Tilt possesses a previously unseen lifespan, is quick to install, and can be used with a number of different control options.

Physical

Cutout	**R:** Round, **S:** Square
Decorative Bezel	Fixed Tilt (0° rotation, factory set 30° tilt), LED can be fully adjustable behind the bezel
Trim	**RD:** Round, **SR:** Square Trim with Round Hole, **TLR:** Trimless Round, **SQ:** Square, **TLS:** Trimless Square
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

Controls

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

PPH PHB **LUTRON** DALI PRO DALI

DALIT8 **DMX rdm** **lumentalk**

Ceiling Cutout Shapes

Ø3 1/4" [83mm]
R - Round

3 1/4" [83mm]
S - Square
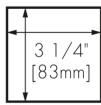
Decorative Bezel (Round Trim)

T - Fixed tilt

Decorative Bezel (Square Trim)

T - Fixed tilt

Standard Finishes - Decorative Bezels
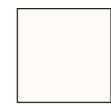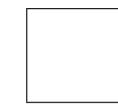
MWH - Matte white   **MBK -** Matte black   **NKS -** Nickel satin

DCH - Dark chrome   **BCH -** Bright chrome   **SWT -** Satin wheat

CPG - Champagne Gold   **CC -** Custom colour and finish (specify 4-digit RAL K7 colour)   **SP -** Special colour (choose from colour palette in complete specification sheet)

Trim Shapes
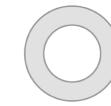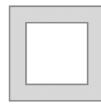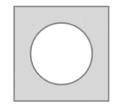
RD - Round   **SQ -** Square   **SR -** Square round hole

TLR - Trimless round   **TLS -** Trimless square

Ceiling Space Requirements (Length x Width x Height)

Up to 15 in x 8 in x 12 in with RM installation type, Up to 15 in x 9 in x 12 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.)

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°

Decorative Bezel Finish

MWH: Matte White
MBK: Matte Black
NKS: Nickel Satin
DCH: Dark Chrome
BCH: Bright Chrome
SWT: Satin Wheat
CPG: Champagne Gold
CC: Custom Color Trim (Specify 4-Digit RAL K7 Color)
SP: Special color (Choose From standard Point Source Color Palette)

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 (Non-Plenum Rated)
NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated)
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)

Standard Finishes for Trim
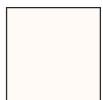
MWH - Matte white   **MBK -** Matte black   **NKS -** Nickel satin

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

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

Adjustability

30° fixed tilt

T - Fixed tilt decorative bezel

Options

Emergency battery backup

Rating

IP20

Certifications

RoHS   5 YEARS lumenpulse

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, RoHS
Warranty	5-year limited warranty

Electrical and Control

Voltage	**120:** 120 Volts, **277:** 277 Volts, **347:** 347 Volts
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 **NO3:** On/Off Control 347V **DAMC:** Standard 0-10V Dimming 1% Linear Curve **DA1:** Standard 0-10V Dimming 1% Linear Curve **DA2:** Standard 1-10V Dimming 1% Logarithmic Curve **DA3:** Standard 0-10V Dimming 1% Linear Curve (347V) **PDA1:** Professional 0-10V Dimming 0.1% Linear Curve **PDA2:** Professional 0-10V Dimming 0.1% Logarithmic Curve **PH:** Phase Dimming **PPH:** Phase Dimming 1% **PHB:** Pro Phase Dimming ERP PHB Series **ESP:** Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black **SDALI1:** Standard DALI Dimming 1% Linear Curve **SDALI2:** Standard DALI Dimming 1% Logarithmic Curve **DALI1:** Professional DALI Dimming 0.1% Linear Curve **DALI2:** Professional DALI Dimming 0.1% Logarithmic Curve **DALIT8:** DALI-2 T8 Enabled Dimming 1% **DMX/RDM:** DMX/RDM Enabled Dimming 1% **LT:** Lumentalk Enabled Dimming

Performance

Maximum Delivered Output	Up to 1,825 lm (Medium Faceted Reflector optic 40°, 4000K, CRI 80)
Maximum Delivered Intensity	Up to 22,597 cd (Extra Narrow Spot optic 5°, 4000K, CRI 80)
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)

Accessories (Order Separately)

Control Systems
Pharos® Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT)

Diagnostic and Addressing Tools
LumenID (LID)

Important

**Virtual Patent Marking Notice**

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Photometric Information

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

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	577	519

Candlepower distribution

5,649
11,299
16,948
22,597

90° 60° 30° 0°

Illuminance cone
Beam angle: 6.4°

Center Beam Illuminance	Beam Diameter	Height
209 fc	1'	9'
140 fc	1.5'	11'
100 fc	1.5'	13'

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

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	617	555
1000	881	793
1300	1,145	1,031

Candlepower distribution

4,726
9,452
14,177
18,903

90° 60° 30° 0°

Illuminance cone
Beam angle: 11°

Center Beam Illuminance	Beam Diameter	Height
175 fc	2'	9'
117 fc	2.5'	11'
84 fc	3'	13'

NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	586	527
1000	771	694
1300	1,050	945

Candlepower distribution

2,172
4,345
6,517
8,689

90° 60° 30° 0°

Illuminance cone
Beam angle: 17°

Center Beam Illuminance	Beam Diameter	Height
81 fc	3'	9'
54 fc	4'	11'
39 fc	4.5'	13'

N - Narrow (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	532	479
1000	700	630
1300	953	858

Candlepower distribution

1,228
2,455
3,683
4,910

90° 60° 30° 0°

Illuminance cone
Beam angle: 21.5°

Center Beam Illuminance	Beam Diameter	Height
46 fc	4'	9'
30 fc	5'	11'
22 fc	5.5'	13'

NFR - Narrow Faceted Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	515	464
1000	678	610
1300	923	831
2000	1,442	N/A

Candlepower distribution

1,588
3,177
4,765
6,353

90° 60° 30° 0°

Illuminance cone
Beam angle: 21°

Center Beam Illuminance	Beam Diameter	Height
59 fc	4'	9'
39 fc	4.5'	11'
28 fc	5.5'	13'

M - Medium Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	412	371
1000	532	479
1300	738	664
2000	1,150	1,035
3000	1,717	N/A

Candlepower distribution

1,108
2,216
3,324
4,432

90° 60° 30° 0°

Illuminance cone
Beam angle: 34.1°

Center Beam Illuminance	Beam Diameter	Height
41 fc	6.5'	9'
28 fc	8'	11'
20 fc	9'	13'

MFR - Medium Faceted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	438	394
1000	566	509
1300	785	706
2000	1,223	1,100
3000	1,825	N/A

Candlepower distribution

898
1,796
2,693
3,591

90° 60° 30° 0°

Illuminance cone
Beam angle: 40.1°

| Center Beam Illuminance	Beam Diameter	Height
33 fc	7.5'	9'
22 fc	9.5'	11'
16 fc	11'	13'

Based on Fixed Tilt Bezel and Round or Square trim configuration.

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

Consult Power consumption section for more wattage information.

TM-30

CRI 80+

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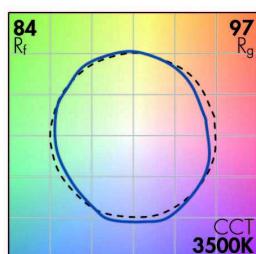
CRI 90+

CRI 90 +				
CCT	CIE		TM-30	
3500K	R$_a$	94	91	R$_f$
	R$_9$	55	98	R$_g$
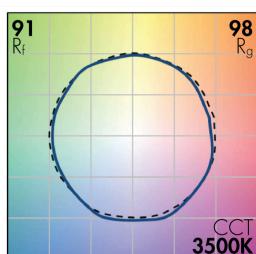
CRI 95+

CRI 95 +				
CCT	CIE		TM-30	
3500K	R$_a$	97	91	R$_f$
	R$_9$	97	99	R$_g$
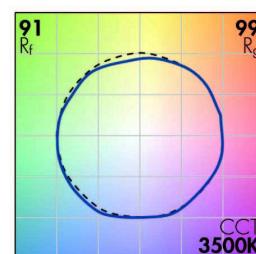
Refer to TM-30 Reference Guide for details.

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Exploded Overview - Part Selection
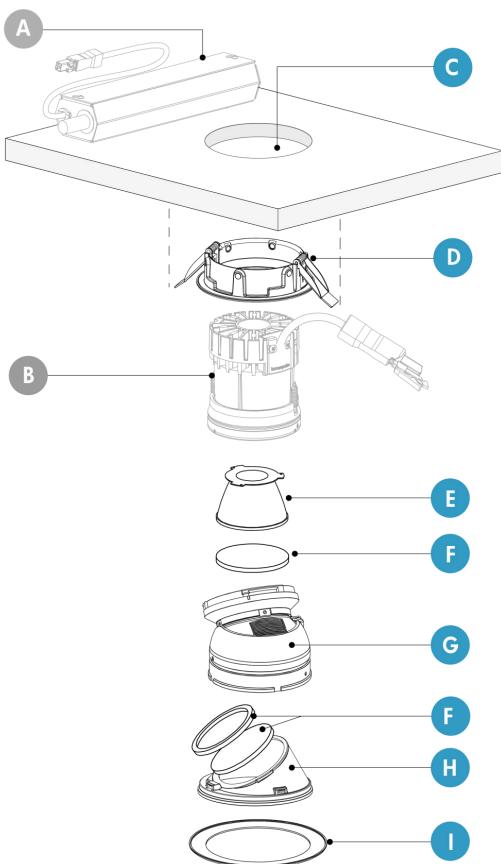
Standard Parts

A - MTG Mounting 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 and accessory holder (up to two optical accessories can be combined in the fixture, position will vary by accessory type)**
G - Adjustable mechanism
H - Fixed tilt decorative bezel
I - Trim (round or square, based on ceiling ring selection)

* Optic is 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 Requirements

**Ceiling Cavity Space Requirements (Length x Width x Height)**

Installation type	Control	Output/Color Rendering							
		L07	L10	L13	L20		L30		L40
		CR80/90/95			CR80/90	CR95	CR80/90	CR95	CR80/90
RM	NO/PH/PHB/ESP	12"x 8"x 6" (with trim) 12"x 8"x 8" (trimless)			12"x 10"x 8"		N/A		
	DA/DAMC/PDA/SDALI/DALI/ LT/DMX-RDM	15"x 8"x 8" (with trim) 15"x 8"x 12" (trimless)					N/A		
NC	NO/PH/PHB/ESP	15"x 10"x 6" (with trim) 15"x 10"x 8" (trimless)			15"x 10"x 8"		N/A		
	DA/DAMC/PDA/SDALI/DALI/ LT/DMX-RDM	15"x 10"x 8" (with trim) 15"x 9"x 12" (trimless)					N/A		
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.

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Installation Types

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated) (NO, PH, ES and ESP Controls Only)
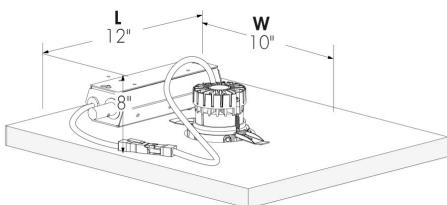

Ceiling cavity space requirements for L20 CR90/95 and L30 CR80/90 shown.

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated) (Other Controls)
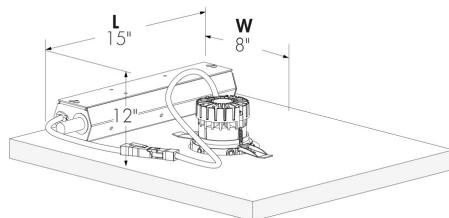

Ceiling cavity space requirements up to L20 CR95 and L30 CR80/CR90 shown, trimless version.

NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated) (NO, PH, ES and ESP Control Options Only)
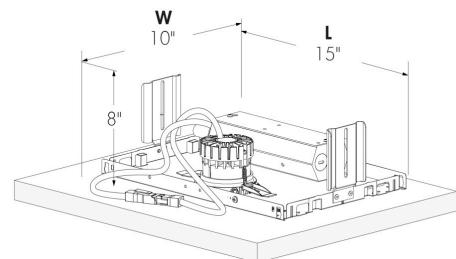

Ceiling cavity space requirements for L20 CR95 and L30 CR80/CR90 shown.

NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated) (Other Controls)
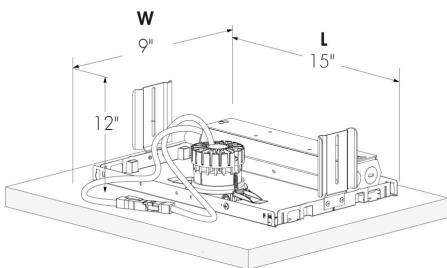

Ceiling cavity space requirements up to L20 CR95 and L30 CR80/CR90 shown, trimless version.

IC, PC, IC/AT: New Construction Insulated and Non-Insulated Ceiling (Enclosed Box)
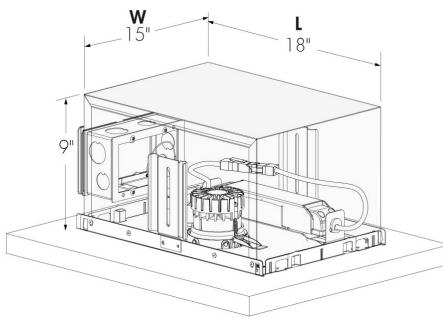
IC - New construction insulated ceiling (enclosed box)
PC - Plenum non-insulated ceiling (enclosed box)
IC/AT - New construction insulated ceiling (Chicago Plenum/airtight, enclosed box)

Ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80/CR90 shown.

RMR: Remote Recessed Insulated Ceiling/Plenum (Enclosed Box)
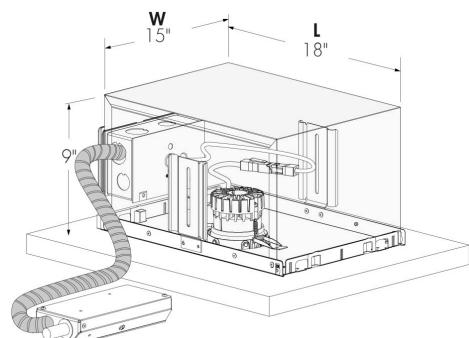

Luminaire ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80/CR90 shown. Refer to remote driver box dimensions in installation instructions for space required for driver.

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.

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JC - R18

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Ceiling Requirements
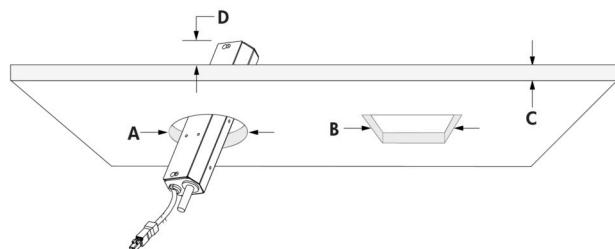
Ceiling Cutout

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	Ceiling Thickness 2
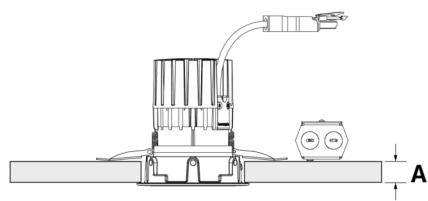
**A -** Ceiling thickness range: 0.04 in to 1 in

B - Ceiling thickness range: 1.05 in to 2 in

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

Dimensions

### T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt)

L07, L10, L13
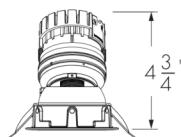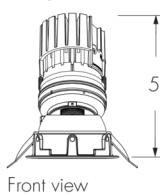
$4\frac{3}{4}$ "

Front view

L20, L30*

$5\frac{3}{4}$ "

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 DWWP

T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt, Trimless Version)

L07, L10, L13

$4\frac{7}{8}$ "

Front view

L20, L30*

$5\frac{7}{8}$ "

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 DWWP

RD - Round Shape, Round Trim

Aperture $\varnothing 2\frac{3}{4}$ " $\varnothing 3\frac{3}{4}$ "

Bottom view

TLR - Trimless Round

Aperture $\varnothing 2\frac{7}{8}$ " $\varnothing 5\frac{7}{8}$ "
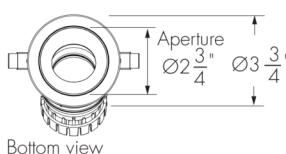
Bottom view

SQ - Square Shape, Square Trim

Aperture $2\frac{3}{4}$ " $3\frac{3}{4}$ "

Bottom view

TLS - Trimless Square

Aperture $2\frac{7}{8}$ " $5\frac{7}{8}$ "
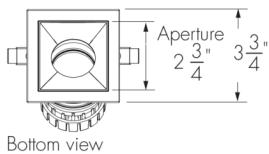
Bottom view

SR - Square Shape, Round Hole

Aperture $\varnothing 2\frac{3}{4}$ " $3\frac{3}{4}$ "
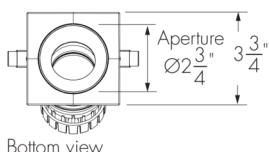
Bottom view

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

Beam Cutoff Angle

T - Fixed Tilt

60°
Beam Cutoff Angle

0°
(Nadir)

30°
Beam Cutoff Angle
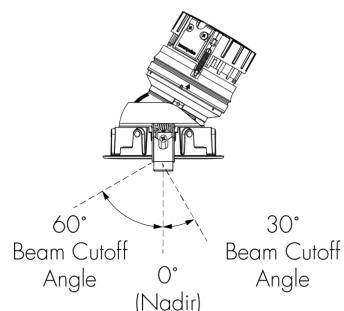
Side view
(Based on 30° fixed tilt)

Tilt

Factory set tilt
30°*
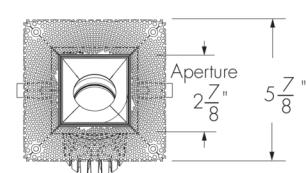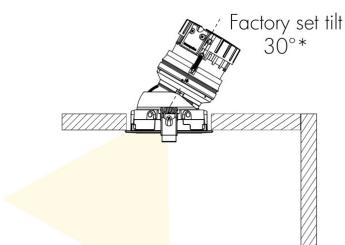
*Field adjustable from 0° to 40°, see installation
instructions for details.

Delivery - How it Works

Standard Shipping (1 delivery)
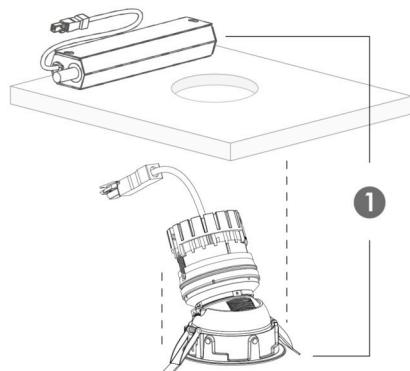
Included

1. MTG Mounting kit and complete fixture assembly

Advanced Shipping of Mounting kit (2 Separate Deliveries)
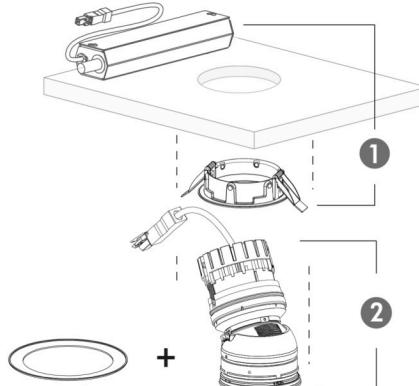
Included

1. Optional advanced delivery: MTG Mounting kit and ceiling mounting ring
2. Second delivery: LUM Core (heatsink, universal fixing ring, LED module, optic, accessories, decorative bezel) and trim

Consult factory for Advanced Shipping details.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout

Round bezel
Round trim

SQ - Square Ceiling Cutout
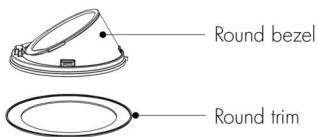
Square bezel
Square trim
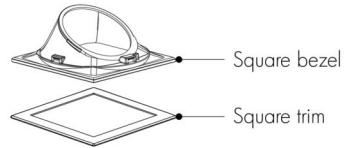
Decorative Bezel Options

RD - Compatible Round Decorative Bezels

T - Fixed tilt

SQ - Compatible Square Decorative Bezels

T - Fixed tilt

Standard Finishes - Decorative Bezels

MWH - Matte white

MBK - Matte black

NKS - Nickel satin

DCH - Dark chrome

BCH - Bright chrome

SWT - Satin wheat

CPG - Champagne Gold

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 Point Source product brochure or Lumencore Cylinder 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

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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 Point Source product brochure or Lumencore Cylinder specification sheets. Contact manufacturer for additional information.

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Optical Accessories

HL - Honeycomb Louver
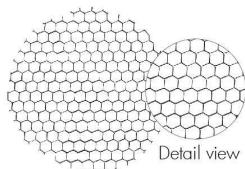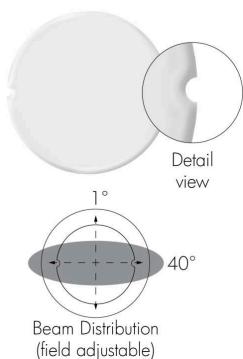
Detail view

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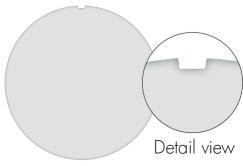
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

Optical Accessories - Installation Options (Field Changeable)

Optic position

Bezel position

HL or XLVR

CL, SL, PD, LSN, LSW, BW1, BW2 or BW3
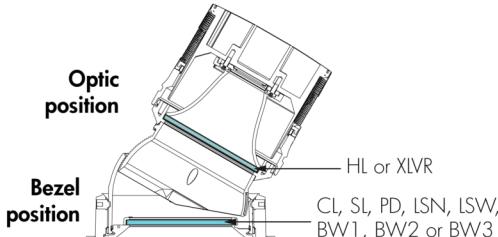
Accessories specified in the fixture code will ship from the factory in the position shown above.
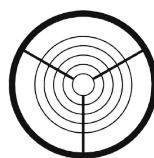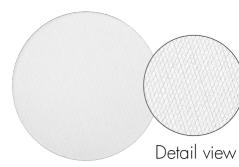
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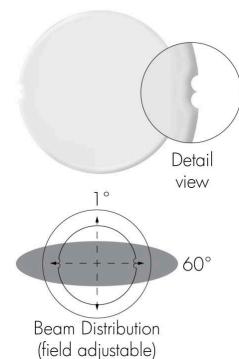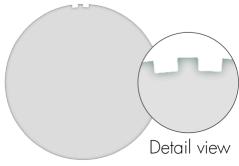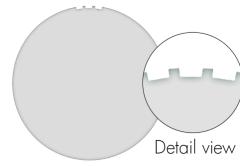
Optics

TIR Optic - Total Internal Reflection	Semi-Specular Reflector	Faceted Reflector

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

Applicable to M (40°) distribution.

Applicable to NFR (25°) and MFR (40°) distributions.

Beam Widening Lenses

	Optic installed in fixture						
	XN 5°	**VN** 10°	**NS** 15°	**N** 25°	**NFR** 25°	**M** 40°	**MFR** 40°
BW1	11°	14°	21°	26°	26°	51°	51°
BW2	21°	22°	27°	31°	31°	54°	54°
BW3	30°	32°	35°	38°	38°	58°	58°

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°
Interchangeable optics	N/A	N/A	N NFR	NS NFR	NS N	MFR	M

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

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Power Consumption

Static White Color Temperatures

| Output [lm] | XN (5°) - VN (10°) | | NS (15°) - N (25°) - NFR (25°) | | | | M (40°) - MFR (40°) | | | |
| | 120 V | 277 V | 120 V | | 277 V | | 120 V | | 277 V | |
	CR80/90	CR80/90	CR80/90	CR95	CR80/90	CR95	CR80/90	CR95	CR80/90	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] | NFR (25°) - M (40°) - MFR (40°) | | | |
| | 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.

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	PPH	PHB	SDALI1	DA2	SDALI2	DALIT8	DMXrdm*	lumentalk

*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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Color and Color Temperature

Color Temperature Ranges

2200K 2700K 3000K 3500K 4000K

1800K   6500K

DTW
Dim to warm
2700K - 2200K

DWW
Dynamic warm
2200K - 3000K

DWWP
Dynamic warm plus
2200K - 3500K

DWH
Dynamic white
2700K - 6500K

DTWP
Dim to warm plus
3500K - 1800K
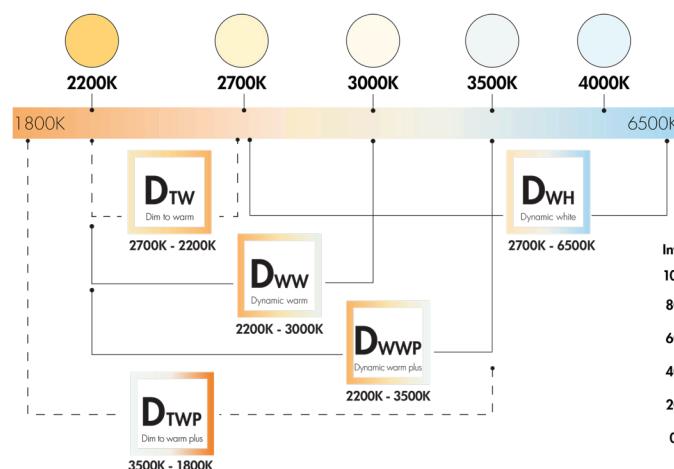
- - - **1 channel (DTW, DTWP)** Compatible with: DA1 SDALI1 SDALI2 ⚙DMX**rdm** lumen talk
——— **2 channels* (DWH, DWW, DWWP)** Compatible with: DALIT8 ⚙DMX**rdm** lumen talk
——— **3 channels (DWH, DWW, DWWP)** Compatible with: DALIT8 ⚙DMX**rdm** lumen talk

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

Intensity (%)

Dim to warm

100%
80%
60%
40%
20%
0%

2700K   2450K   2200K
Color Temperature (CCT)

Intensity (%)

Dim to warm plus

100%
80%
60%
40%
20%
0%

3500K   2650K   1800K
Color Temperature (CCT)

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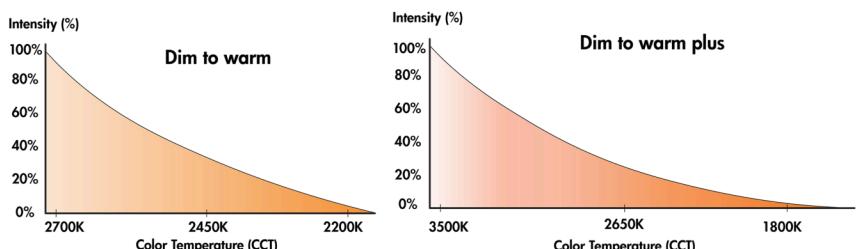
Wiring Details RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)

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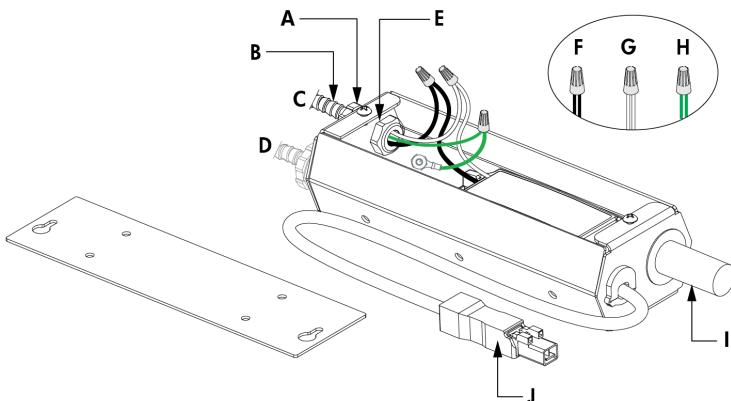
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Optional Output
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Thermal protector
J - Output to luminaire

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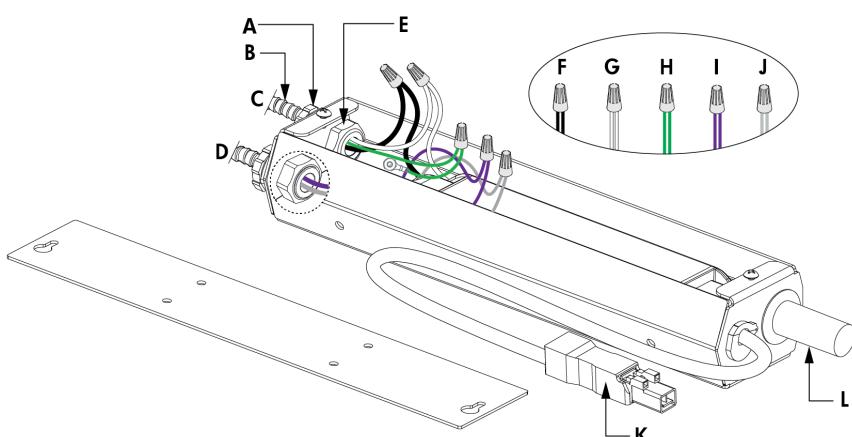
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Data Input from Control System
**E -** Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Data +
J - Data -
K - Output to luminaire
L - Thermal protector

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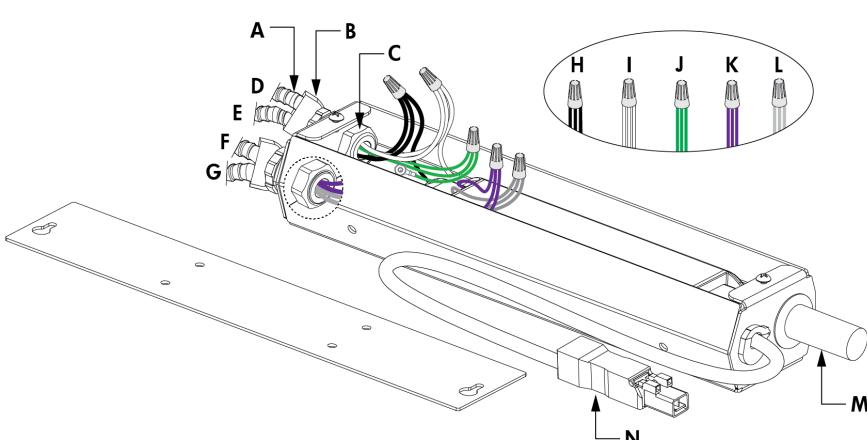
A - Conduit (by others)
B - Duplex connector (by others)
C - Locknut (by others)
D - Power Output to next luminaire
E - Power input
F - Data Output to next luminaire
G - Data Input from Control System
H - Line
I - Neutral
J - Ground
K - Data +
L - Data -
M - Thermal protector
N - Output to luminaire

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

Options

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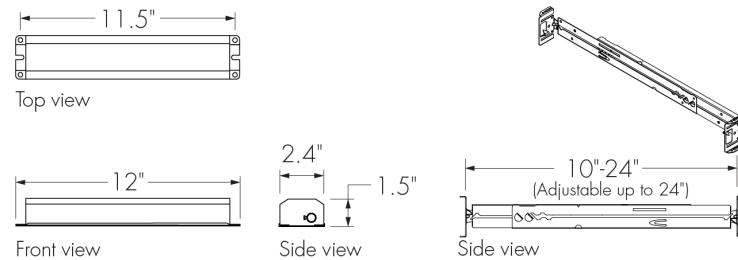
11.5"

Top view

12"   2.4"   1.5"

Front view   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)
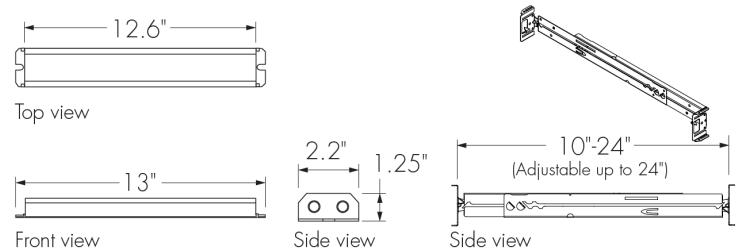
12.6"

Top view

13"   2.2"   1.25"

Front view   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.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

The updated LumenID (LID) is now your all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols— no need for multiple tools. Consult the LID specification sheet for full details.

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit

The Pharos Designer Lighting Contol Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

EXPERT - Pharos® Expert Control Kit

The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

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How to Order

Housing [1]	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Color and Color Temperature	Color Rendering	Optics (Nominal Distribution)	Control [19]	Decorative Bezel
LCRN Lumencore Recessed Nano - 2.75 in	**A** UL/cUL	**FT** Fixed Tilt	**120** 120 Volts **277** 277 Volts **347** 347 Volts [2] [3] [4] [5]	**R** Round **S** Square	**L07** 700 lm **L10** 1000 lm **L13** 1300 lm **L20** 2000 lm **L30** 3000 lm [6] [7]	**22K** 2200K [8] [9] **27K** 2700K [9] **30K** 3000K [9] **35K** 3500K [9] **40K** 4000K [9] **DTW** Dim to Warm (2700K to 2200K) [10] [11] **DTWP** Dim to Warm Plus (3500K to 1800K) [10] [11] **DWH** Dynamic White (2700K to 6500K) [12] [13] **DWW** Dynamic Warm White (2200K to 3000K) [12] [13] **DWWP** Dynamic Warm White Plus (2200K to 3500K) [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** Narrow Faceted Reflector 25° [17] **M** Medium Reflector 40° [18] **MFR** Medium Faceted Reflector 40° [18]	**NO** On/Off Control [20] [21] **NO3** On/Off Control 347V [2] [4] [22] **DAMC** Standard 0-10V Dimming 1% Linear Curve [3] [21] [23] [24] **DA1** Standard 0-10V Dimming 1% Linear Curve [21] [25] **DA2** Standard 1-10V Dimming 1% Logarithmic Curve [21] [25] **DA3** Standard 0-10V Dimming 1% Linear Curve (347V) [2] [4] [22] **PDA1** Professional 0-10V Dimming 0.1% Linear Curve [21] [25] **PDA2** Professional 0-10V Dimming 0.1% Logarithmic Curve [21] [25] **PH** Phase Dimming [26] [27] **PPH** Phase Dimming 1% [3] [4] [27] [28] **PHB** Pro Phase Dimming ERP PHB Series [3] [24] [29] [30] **ESP** Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black [21] [31] [32]	**T** Fixed Tilt (0° rotation, factory set 30° tilt)

									SDALI1 Standard DALI Dimming 1% Linear Curve [21]		
									SDALI2 Standard DALI Dimming 1% Logarithmic Curve [21]		
									DALI1 Professional DALI Dimming 0.1% Linear Curve [21]		
									DALI2 Professional DALI Dimming 0.1% Logarithmic Curve [21]		
									DALIT8 DALI-2 T8 Enabled Dimming 1% [4] [21] [33] [34]		
									DMX/RDM DMX/RDM Enabled Dimming 1% [21] [33] [36] [37]		
									LT Lumentalk Enabled Dimming [21] [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 DTW, DTWP, DWH, DWW or DWWP color options.
4. Not available for XN and VN optics.
5. Not available for CR90.
6. Available for M and MFR optics only.
7. Not available with PC, IC, IC/AT or RMR installation types.
8. Available for CRI 80 only.
9. Compatible with all control options except for DALIT8.
10. Available for 1000 and 1300 lumens when combined with 90 color rendering option and MFR optic only.
11. Compatible with DA1, SDALI1, SDALI2, DMX/RDM and LT control options only.
12. Available for 1300 lumens when combined with 80 color rendering option and MFR optic 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. Control options vary according to color temperature, color rendering, optics and installation type combination. Refer to website product configurator for details.

20. Manufacturer's choice driver. Order code may change to NO1.
21. Not available with 347V.
22. Not available for 3000 lumens.
23. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.
24. Not available for XN and VN optics.
25. Driver cuts off power to the fixture when the control signal drops below 0.5V.
26. Manufacturer's choice driver. Order code may change to PH1 or PH2.
27. Available for 120V voltage option only.
28. Manufacturer's choice driver. Order code is subject to change.
29. Not available for 700 lumens.
30. Not available for M and MFR optics when combined with 1000 lumens.
31. Not available for 3000 lumens.
32. 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.
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.
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. Configurable to 1, 2, or 3 channel control via RDM in the field.
38. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

How to Order

Decorative Bezel Finish	Trim	Trim Finish	Installation Type	Ceiling Thickness [48]	Option	Accessories [52]
MWH Matte White	**RD** Round [42]	**MWH** Matte White	**RM** Remodel Non-Insulated Ceiling (Non-Plenum Rated) [44]	**1** 0.04 in to 1 in Ceiling Thickness	**EBB** Emergency Battery Backup with Hanger Bar (Bodine BSL17C-C2) [3] [21] [49] [50] [51]	**NA** No Accessory
MBK Matte Black	**SR** Square Trim with Round Hole [42]	**MBK** Matte Black	**NC** New Construction Non-Insulated Ceiling (Non-Plenum Rated) [44]	**2** 1.05 in to 2 in Ceiling Thickness	**EBI** Emergency Battery Backup with Hanger Bar (Iota ILB-CP07-A TBTS) [3] [21] [49] [50] [51]	**HL** Honeycomb Louver [53]
NKS Nickel Satin	**TLR** Trimless Round [42]	**NKS** Nickel Satin	**PC** Plenum Non-Insulated Ceiling (Enclosed Box) [31] [45] [46]			**XLVR** Concentric Ring Louver [54] [55]
DCH Dark Chrome	**SQ** Square [43]	**CC** Custom Color Trim [40]	**IC** New Construction Insulated Ceiling (Enclosed Box) [31] [45] [46]			**CL** Clear Glass Lens
BCH Bright Chrome	**TLS** Trimless Square [43]	**SP** Special Point Source Color [41]	**IC/AT** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) [31] [45] [46]			**SL** Softening Glass Lens
SWT Satin Wheat			**RMR** Remote Recessed Insulated Ceiling/Plenum (enclosed box) [31] [45] [46] [47]			**PD** Prismatic Diffuser [56]
CPG Champagne Gold [39]						**LSN** Linear Spread Lens Narrow (1° x 40°) [57] [58]
CC Custom Color Trim [40]						**LSW** Linear Spread Lens Wide (1° x 60°) [58] [59]
SP Special Point Source Color [41]						**BW1** Beam Widening Lens (+10°) [58]
						BW2 Beam Widening Lens (+20°) [58]
						BW3 Beam Widening Lens (+30°) [58]

Notes:

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

21. Not available with 347V.

31. Not available for 3000 lumens.

39. Coming soon, consult factory for details.

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

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

42. Cannot be combined with square ceiling cutout.

43. Cannot be combined with round ceiling cutout.

44. 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 and MFR optics. Refer to optic option notes for color rendering limitations.

45. 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 and MFR optics. Refer to optic option notes for color rendering limitations.

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

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

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

49. Available for RM and NC installation types only.

50. 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.

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

52. Maximum one accessory per position (optic and bezel). HL and XLVR accessories are installed in optic position. CL, SL, PD, LSN, LSW, BW1, BW2 and BW3 accessories are installed in bezel position. Refer to specification sheet for details.

53. Not available for DTW and DTWP color options.

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

55. Can be combined with PD accessory only.

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

57. 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 only.

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

59. 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.

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