Project Name _____   **Qty** _____

Type _____   **Catalog / Part Number** _____
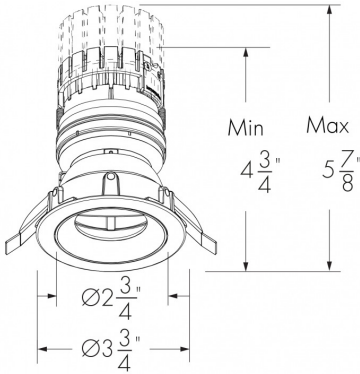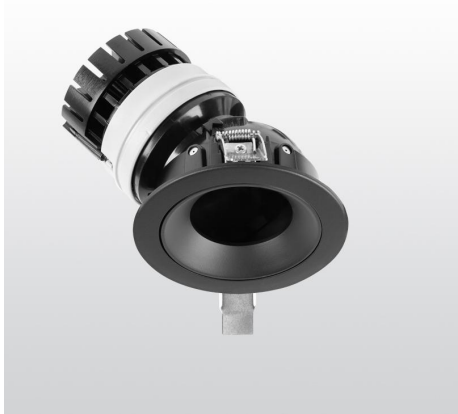
Round trim
(Shown with 1 in ceiling springs)
Round trim ceiling cutout: ∅3.25 in
Min 4 3/4 " Max 5 7/8 "
∅2 3/4 "
∅3 3/4 "
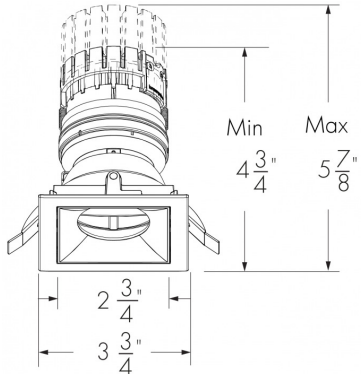
Square trim
(Shown with 1 in ceiling springs)
Square trim ceiling cutout: 3.25 in x 3.25 in
Min 4 3/4 " Max 5 7/8 "
2 3/4 "
3 3/4 "

Photometric Summary

Based on Narrow Optic (nominal 25°), 4000K, CRI 80+ , 0° Tilt

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	503	7.5	67	9.5	53
1000	649	11	59	13	50
1300	900	13	69	15	60

[1] Consult website for latest IES files.

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+
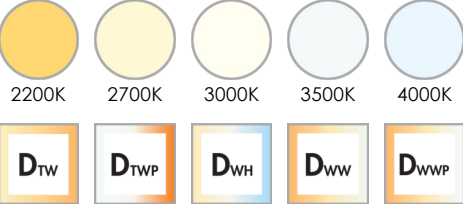
Description

The Lumencore Nano Adjustable is a high-performance LED downlight for ceiling applications that can be rotated from 0°-358° and tilted 0°-40°. Available in an array of trims and finishes, outputs, optics, color renderings, and accessories, these luminaires are here to outperform. The Lumencore Nano Adjustable 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	**ADB:** Adjustable (0°- 358° rotation, 0°-40° tilt)
Trim	**RD:** Round, **TLR:** Trimless Round, **SQ:** Square, **SR:** Square Trim with Round Hole, **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.
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.)

Controls

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

PRO PH   ⚫ LUTRON   DALI   PRO DALI

DALIT8   ☼ DMXrdm   lumentalk

Ceiling Cutout Shapes

Ø3 1/4" [83mm] — **R** - Round

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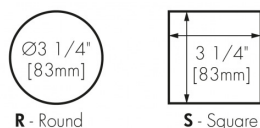
Decorative Bezel (Round Trim)

ADB - Adjustable

Decorative Bezel (Square Rrim)

ADB - Adjustable

Standard Finishes for Decorative Bezel

MWH - Matte white   **MBK -** Matte black   **NKS -** Nickel satin

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

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

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

Trim Shapes

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

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

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 **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)
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

Performance

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

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

0° - 358° rotation

0° - 40° tilt

ADB - Adjustable decorative bezel

Options

Emergency battery backup

Rating

IP20

Certifications

Field	Value
Maximum Delivered Output	Up to 1,634 lm (Medium Faceted Reflector optic 40°, 4000K, CRI 80, 0° tilt)
Maximum Delivered Intensity	Up to 28,125 cd (Extra Narrow Spot optic 5°, 4000K, CRI 80, 0° tilt)
Efficacy	Up to 69 lm/W (Narrow Spot distribution optic 15°, 4000K, CRI 80, 120V, New Construction Non-insulated Ceiling, 0° tilt), Up to 80 lm/W (Narrow Spot distribution optic 15°, 4000K, CRI 80, 120V, New Construction Insulated Ceiling, 0° tilt)
Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Lumen Maintenance	L95 55,000 hrs (Ta 25 °C) / L70 225,000 hrs (Ta 25 °C)

Electrical and control

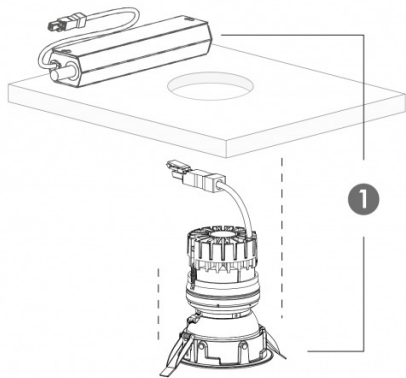| Field	Value
Voltage	**120:** 120 volts, **277:** 277 volts, **347:** 347 volts
Wattage Range	8.5W to 30W (wattage will vary based on voltage, output, color temperature, color rendering, optic, control and installation type, refer to Power Consumption table for details)
Control	**NO:** On/Off control **NO3:** On/Off control 347V **DAMC:** Standard 0-10V dimming 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

Environmental

Field	Value
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)

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Delivery - How It Works

Standard Shipping (1 delivery)

Advanced Shipping of Mounting kit (2 Separate Deliveries)

Included
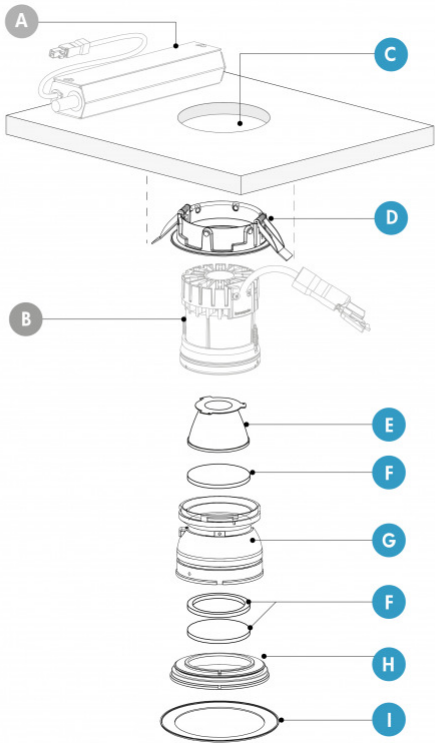
1. MTG Mounting kit and complete fixture assembly
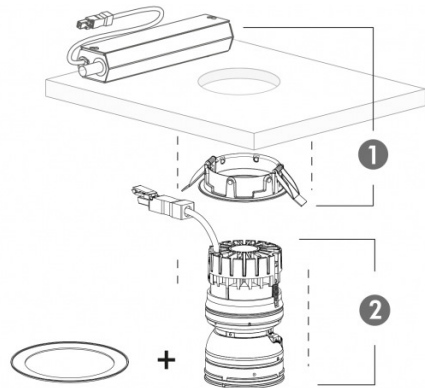
Included

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

Consult factory for Advanced Shipping 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 - Adjustable 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.
**Field changeable, consult installation instructions for details. Consult factory for ordering details.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout

Round bezel

Round trim

SQ - Square Ceiling Cutout

Square bezel

Square trim
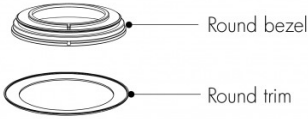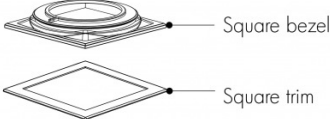
Decorative Bezel Options

RD - Compatible Round Decorative Bezels

ADB - Adjustable

SQ - Compatible Square Decorative Bezels

ADB - Adjustable

Standard Finishes - Decorative Bezels

MWH - Matte white

MBK - Matte black

NKS - Nickel satin

DCH - Dark chrome

BCH - Bright chrome
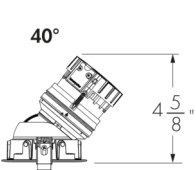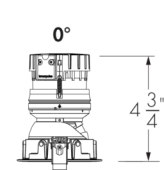
SWT - Satin wheat

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

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Standard Finishes - Trims

MWH - Matte white

MBK - Matte black

NKS - Nickel satin

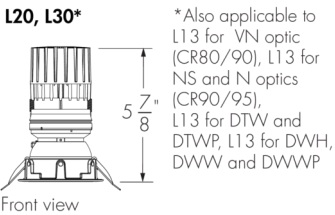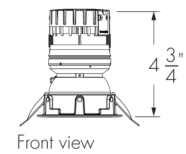**CC -** Custom colour*

SP - Special colour**

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

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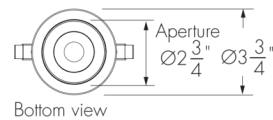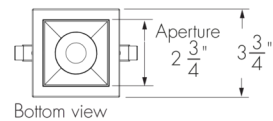
Dimensions

Adjustability (L07, L10, L13)

0° 4 3/4"

40° 4 5/8"

Adjustability (L20, L30)

0° 5 7/8"

40° 5 9/16"

ADB - Adjustable (0°- 358° Rotation, 0°-40° Tilt)
L07, L10, L13

4 3/4"
Front view

L20, L30*

5 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

ADB - Adjustable (0°-358° Rotation, 0°-40° Tilt, Trimless Version)
L07, L10, L13

4 3/4"
Front view

L20, L30*

5 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 Ø2 3/4" Ø3 3/4"
Bottom view

TLR - Trimless Round

Aperture Ø2 7/8" Ø5 7/8"
Bottom view

SQ - Square Shape, Square Trim

Aperture 2 3/4" 3 3/4"
Bottom view

TLS - Trimless Square

Aperture 2 7/8" 5 7/8"
Bottom view

SR - Square Shape, Round Hole

Aperture Ø2 3/4" 3 3/4"
Bottom view
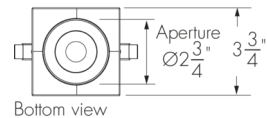
Round ceiling cutout: Ø3.25 in
Square ceiling cutout: 3.25 in x 3.25 in

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Beam Cutoff Angle

ADB - Adjustable (0° Tilt)

60°
Beam Cutoff
Angle

0°
(Nadir)
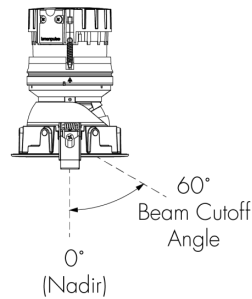
Side view
(Based on 0° tilt)

ADB - Adjustable (40° Tilt)

70°
Beam Cutoff
Angle

0°
(Nadir)

20°
Beam Cutoff
Angle
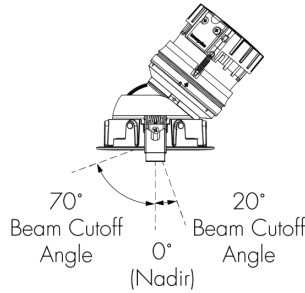
Side view
(Based on 40° max tilt)

Adjustability

Pre-set and lock the angle
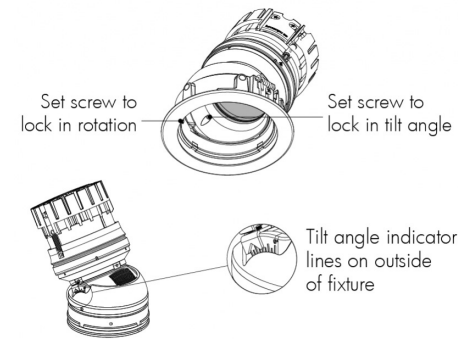
Set screw to
lock in rotation

Set screw to
lock in tilt angle

Tilt angle indicator
lines on outside
of fixture

0° to 40° Tilt Adjustment

0°
40°

358° Rotation

358°

Refer to installation instructions for details.
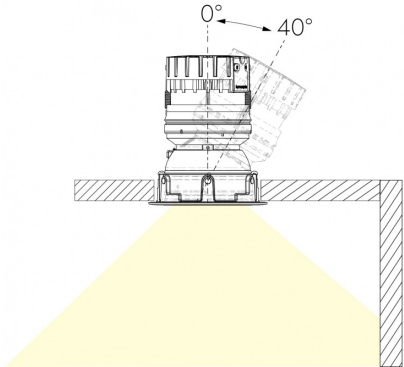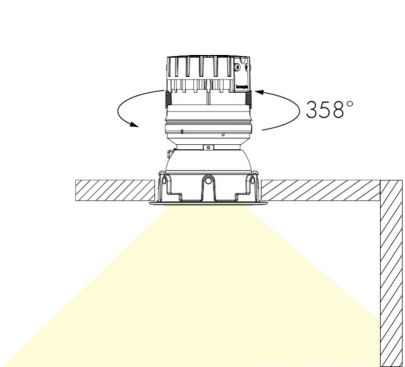
TM-30

CRI 80+

CRI 80 +				
CCT	CIE		TM-30	
3500K	R_a	84	84	R_f
	R_9	15	97	R_g
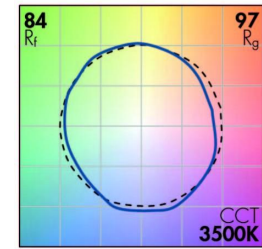
CRI 90+

CRI 90 +				
CCT	CIE		TM-30	
3500K	R_a	92	90	R_f
	R_9	59	98	R_g
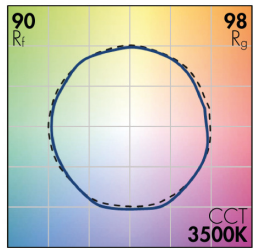
CRI 95+

CRI 95 +				
CCT	CIE		TM-30	
3500K	R_a	97	91	R_f
	R_9	97	99	R_g
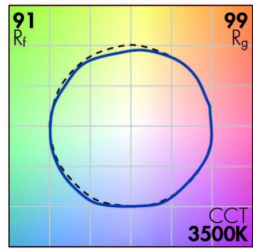
Refer to TM-30 Reference Guide for details.

Color and Color Temperature

Color Temperature Ranges

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 DMXrdm lumentalk
—— 2 channels* (DWH, DWW, DWWP) Compatible with: DALIT8 DMXrdm lumentalk
—— 3 channels (DWH, DWW, DWWP) Compatible with: DALIT8 DMXrdm lumentalk

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

Dim to warm

Intensity (%)
100%
80%
60%
40%
20%
0%
2700K   2450K   2200K
Color Temperature (CCT)

Dim to warm plus

Intensity (%)
100%
80%
60%
40%
20%
0%
3500K   2650K   1800K
Color Temperature (CCT)

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	DMXrdm**	
Dimming down to 1%	DA1	DA3	DAMC	PPH	SDALI1	DA2	SDALI2	DALIT8	DMXrdm**	lumentalk

*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.

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°) distribution.

Faceted Reflector

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]	Power consumption [W]									
	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/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°)			
	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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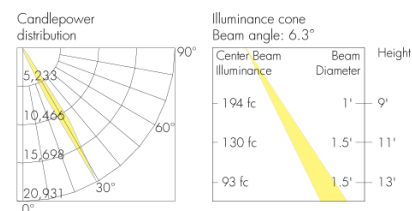1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CA
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Photometric Information

XN - Extra Narrow Spot (Nominal 5°), 4000K, 0° Tilt
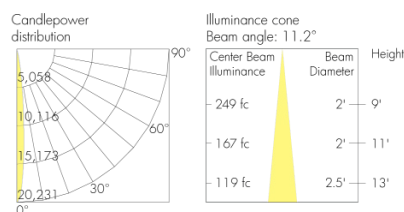
Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	635	571

Candlepower distribution: 7,031 / 14,063 / 21,094 / 28,125

Illuminance cone — Beam angle: 6.5°

Center Beam Illuminance	Beam Diameter	Height
347 fc	1'	9'
232 fc	1'	11'
166 fc	1.5'	13'
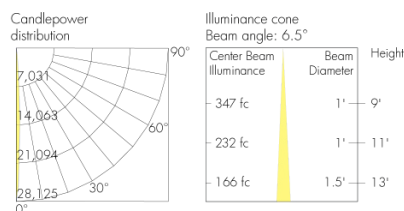
XN - Extra Narrow Spot (Nominal 5°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	533	480

Candlepower distribution: 5,233 / 10,466 / 15,698 / 20,931

Illuminance cone — Beam angle: 6.3°

Center Beam Illuminance	Beam Diameter	Height
194 fc	1'	9'
130 fc	1.5'	11'
93 fc	1.5'	13'

VN - Very Narrow Spot (Nominal 10°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	655	589
1000	846	761
1300	1,175	1,057

Candlepower distribution: 5,058 / 10,116 / 15,173 / 20,231

Illuminance cone — Beam angle: 11.2°

Center Beam Illuminance	Beam Diameter	Height
249 fc	2'	9'
167 fc	2'	11'
119 fc	2.5'	13'

VN - Very Narrow Spot (Nominal 10°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	536	482
1000	765	689
1300	995	896

Candlepower distribution: 4,132 / 8,265 / 12,397 / 16,529

Illuminance cone — Beam angle: 11°

Center Beam Illuminance	Beam Diameter	Height
153 fc	2'	9'
103 fc	2.5'	11'
73 fc	3'	13'
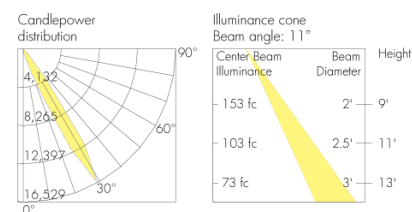
NS - Narrow Spot (Nominal 15°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	581	604	518
1000	751	782	670
1300	1,042	1,087	930

Candlepower distribution: 2,222 / 4,444 / 6,665 / 8,887

Illuminance cone — Beam angle: 17.1°

Center Beam Illuminance	Beam Diameter	Height
109 fc	2.5'	9'
73 fc	3.5'	11'
52 fc	4'	13'
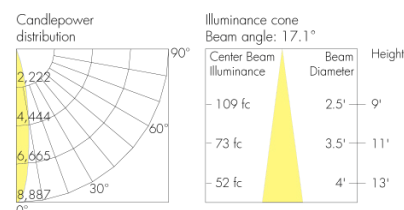
NS - Narrow Spot (Nominal 15°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	507	532	456
1000	667	700	600
1300	908	954	817

Candlepower distribution: 1,901 / 3,801 / 5,702 / 7,602

Illuminance cone — Beam angle: 16.7°

Center Beam Illuminance	Beam Diameter	Height
70 fc	3'	9'
47 fc	3.5'	11'
34 fc	4.5'	13'
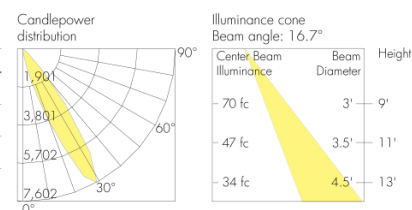
N - Narrow (Nominal 25°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	503	524	449
1000	649	676	579
1300	900	939	804

Candlepower distribution: 1,234 / 2,468 / 3,702 / 4,936

Illuminance cone — Beam angle: 21.3°

Center Beam Illuminance	Beam Diameter	Height
60 fc	3.5'	9'
40 fc	4'	11'
29 fc	5'	13'
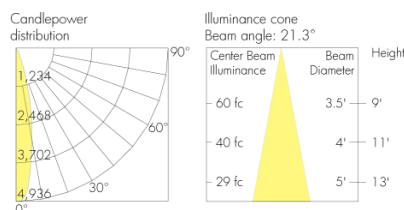
N - Narrow (Nominal 25°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	455	478	410
1000	599	629	539
1300	815	856	734

Candlepower distribution: 1,071 / 2,143 / 3,214 / 4,285

Illuminance cone — Beam angle: 21°

Center Beam Illuminance	Beam Diameter	Height
40 fc	4'	9'
27 fc	4.5'	11'
19 fc	5.5'	13'
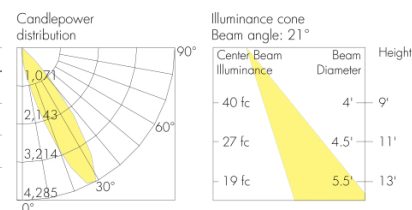
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	486	506	434
1000	628	654	561
1300	871	909	778
2000	1,358	N/A	N/A

Candlepower distribution: 1,603 / 3,207 / 4,810 / 6,413

Illuminance cone — Beam angle: 20.8°

Center Beam Illuminance	Beam Diameter	Height
79 fc	3.5'	9'
52 fc	4'	11'
37 fc	5'	13'
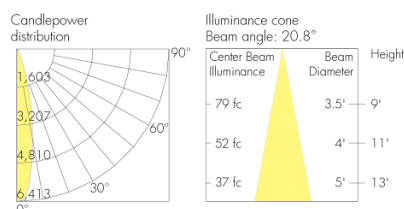
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†		
	CR80	CR90	CR95
700	437	459	393
1000	575	604	518
1300	783	823	705
2000	1,224	N/A	N/A

Candlepower distribution: 1,383 / 2,765 / 4,148 / 5,530

Illuminance cone — Beam angle: 20.6°

Center Beam Illuminance	Beam Diameter	Height
51 fc	4'	9'
34 fc	4.5'	11'
25 fc	5.5'	13'

M - Medium Reflector (Nominal 40°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†			Candlepower distribution	Illuminance cone Beam angle: 33°			
	CR80	CR90	CR95		Center Beam Illuminance		Beam Diameter	Height
700	379	395	339		54 fc		5.5'	9'
1000	489	510	437		36 fc		6.5'	11'
1300	678	708	606		25 fc		7.5'	13'
2000	1,057	1,104	946					
3000	1,577	N/A	N/A					

Candlepower distribution values: 1,097 / 2,194 / 3,290 / 4,387

M - Medium Reflector (Nominal 40°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†			Candlepower distribution	Illuminance cone Beam angle: 31.8°			
	CR80	CR90	CR95		Center Beam Illuminance		Beam Diameter	Height
700	348	365	313		38 fc		6'	9'
1000	449	471	404		26 fc		7'	11'
1300	623	654	560		18 fc		8.5'	13'
2000	970	1,019	873					
3000	1,448	N/A	N/A					

Candlepower distribution values: 1,037 / 2,074 / 3,110 / 4,147

MFR - Medium Faceted Reflector (Nominal 40°), 4000K, 0° Tilt

Nominal output [lm]	Delivered output [lm]†			Candlepower distribution	Illuminance cone Beam angle: 39.8°			
	CR80	CR90	CR95		Center Beam Illuminance		Beam Diameter	Height
700	392	409	350		42 fc		6.5'	9'
1000	506	528	452		28 fc		8'	11'
1300	702	732	628		20 fc		9.5'	13'
2000	1,095	1,143	980					
3000	1,634	N/A	N/A					

Candlepower distribution values: 871 / 1,743 / 2,614 / 3,485

MFR - Medium Faceted Reflector (Nominal 40°), 4000K, 30° Tilt*

Nominal output [lm]	Delivered output [lm]†			Candlepower distribution	Illuminance cone Beam angle: 36.9°			
	CR80	CR90	CR95		Center Beam Illuminance		Beam Diameter	Height
700	366	384	329		32 fc		7'	9'
1000	473	496	425		21 fc		8.5'	11'
1300	656	689	590		15 fc		10'	13'
2000	1,022	1,073	920					
3000	1,525	N/A	N/A					

Candlepower distribution values: 863 / 1,725 / 2,588 / 3,450

*Based on Adjustable Bezel (set at 30°) and Round or Square trim configuration. The full tilt range of the fixture is 0°-40°.

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

Consult Power consumption section for more wattage information.

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	CR80/90/95	CR80/90/95	CR80	CR90/95	CR80	CR90/95	CR80
RM	NO/PH/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/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.

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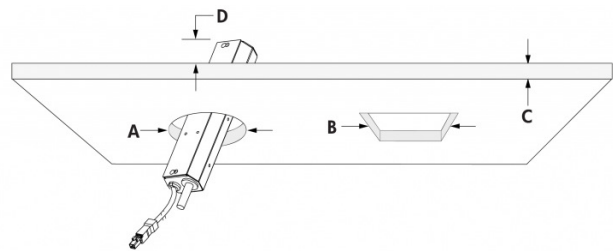
A - Ceiling cutout: Ø3.25 in
B - Ceiling cutout: 3.25 in x 3.25 in
C - Maximum ceiling thickness: 2 in
D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table

Ceiling Thickness Options

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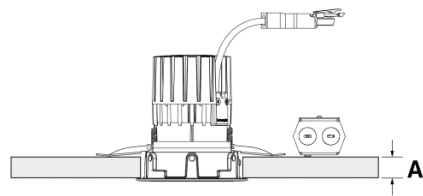
A - Ceiling thickness range: 0.04 in to 1 in

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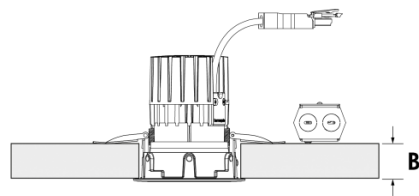
B - Ceiling thickness range: 1.05 in to 2 in

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

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Installation Types

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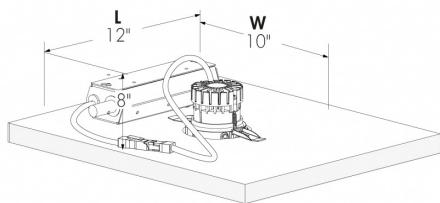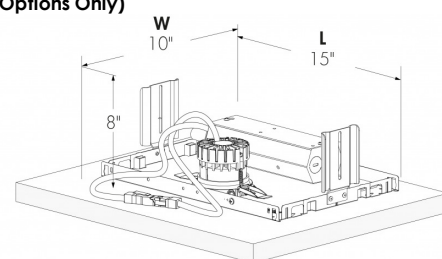

Ceiling cavity space requirements for L20 CR90/95 and L30 CR80 shown.

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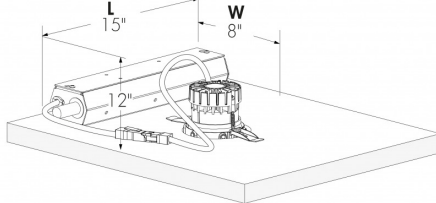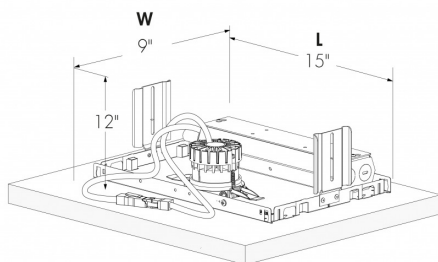

Ceiling cavity space requirements up to L20 CR90/95 and L30 CR80 shown, trimless version.

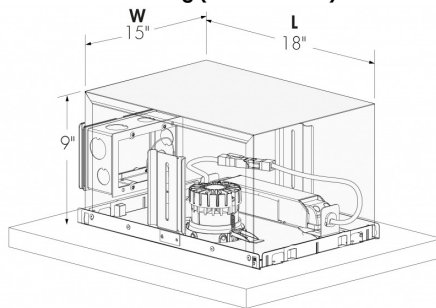**NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated) (NO, PH, ES and ESP Control Options Only)**

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

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

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

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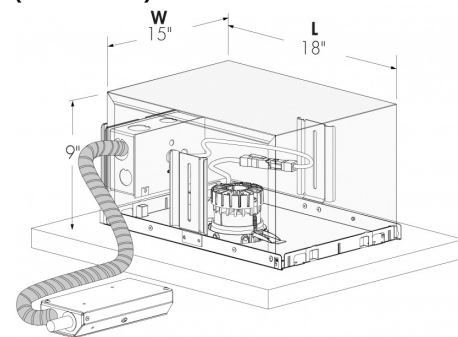
Luminaire ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80 shown. Refer to remote driver box dimensions in installation instructions for space required for driver.

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)
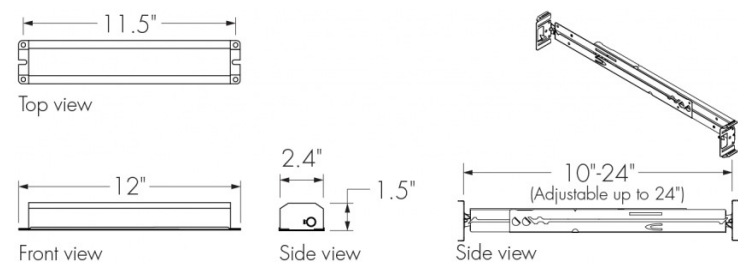
Top view — 11.5"

Front view — 12"

Side view — 2.4" / 1.5"

Side view — 10"-24" (Adjustable up to 24")

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)
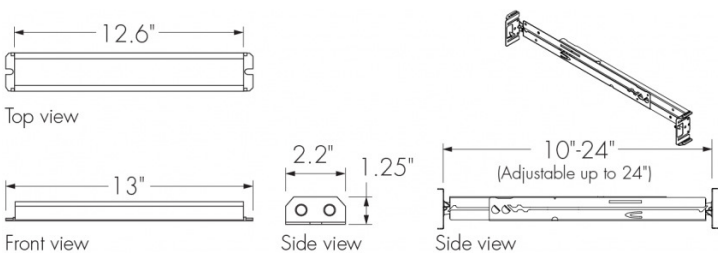
Top view — 12.6"

Front view — 13"

Side view — 2.2" / 1.25"

Side view — 10"-24" (Adjustable up to 24")

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.

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

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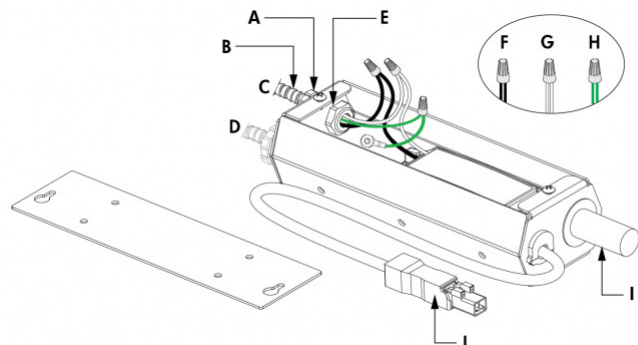
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Optional Output
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Thermal protector
J - Output to luminaire

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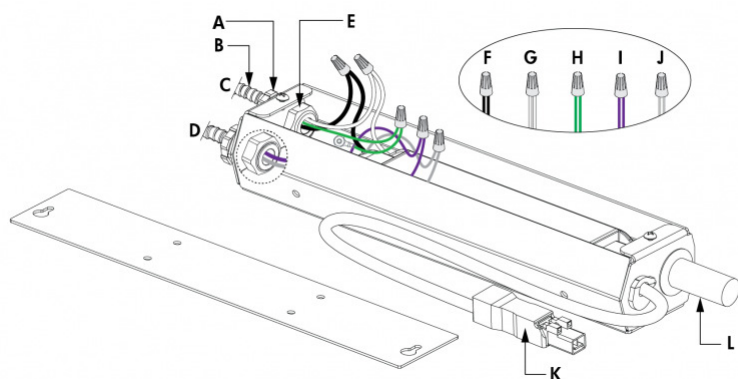
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Data Input from Control System
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Data +
J - Data -
K - Output to luminaire
L - Thermal protector

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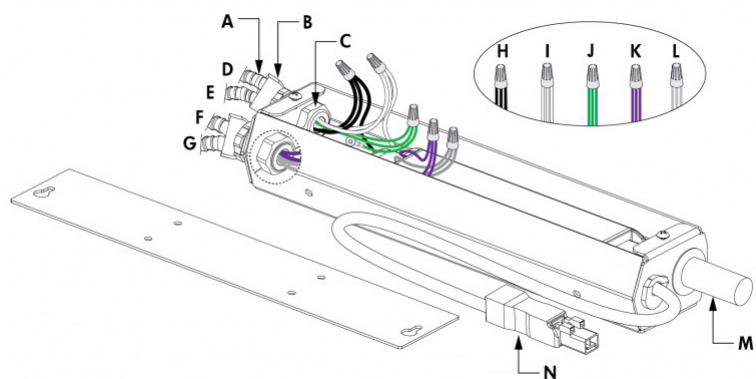
A - Conduit (by others)
B - Duplex connector (by others)
C - Locknut (by others)
D - Power Output to next luminaire
E - Power input
F - Data Output to next luminaire
G - Data Input from Control System
H - Line
I - Neutral
J - Ground
K - Data +
L - Data -
M - Thermal protector
N - Output to luminaire

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

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Optical Accessories

HL - Honeycomb Louver

Detail view
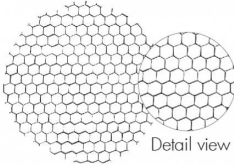
XLVR - Concentric Ring Louver

CL - Clear Glass Lens
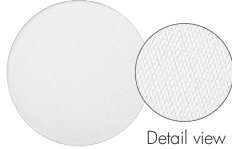
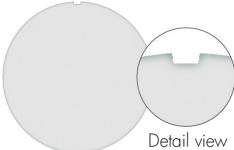**SL - Softening Glass Lens**

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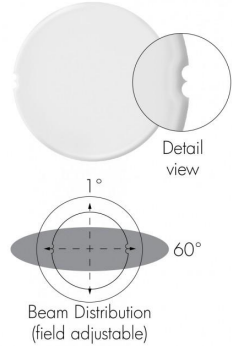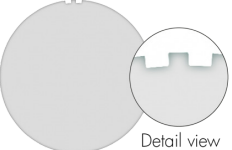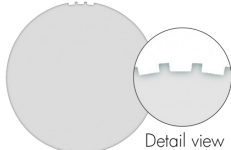
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

Optical Accessories - Installation Options (Field Changeable)

Optic position

Bezel position

HL or XLVR

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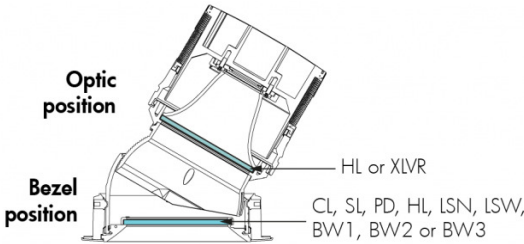
Accessories specified in the fixture code will ship from the factory in the position shown above.

How to Order

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

Notes:

1. Refer to website product configurator for all exceptions.
2. Refer to website for Quickship configurations.
3. Not available for 700 lumens. Not available for 1000 lumens when combined with 80 color rendering option.
4. Not available for XN and VN optics.
5. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
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. Consult factory for availability.

30. 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.

31. Not available for 3000 lumens.

32. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.

33. Not available for PC, IC or IC/AT installation types.

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

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

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

37. 1% minimum dimming value.

How to Order

Decorative Bezel	Decorative Bezel Finish	Trim	Trim Finish	Installation Type	Ceiling Thickness [46]	Option	Accessories [50]
ADB Adjustable (0°- 358° rotation, 0°-40° tilt)	**MWH** Matte White **MBK** Matte Black **NKS** Nickel Satin **DCH** Dark Chrome **BCH** Bright Chrome **SWT** Satin Wheat **CC** Custom Color Trim [38] **SP** Special Point Source Color [39]	**RD** Round [40] **TLR** Trimless Round [40] **SQ** Square [41] **SR** Square Trim with Round Hole [40] **TLS** Trimless Square [41]	**MWH** Matte White **MBK** Matte Black **NKS** Nickel Satin **CC** Custom Color Trim [38] **SP** Special Point Source Color [39]	**RM** Remodel non-insulated ceiling (non-Plenum rated) [42] **NC** New construction non-insulated ceiling (non-Plenum rated) [42] **PC** Plenum Non-Insulated Ceiling (enclosed box) [31] [43] [44] **IC** New Construction Insulated Ceiling (enclosed box) [31] [43] [44] **IC/AT** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) [31] [43] [44] **RMR** Remote Recessed Insulated Ceiling/Plenum (enclosed box) [31] [43] [44] [45]	**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) [5] [21] [47] [48] [49] **EBI** Emergency Battery Backup with Hanger Bar (Iota ILB-CP07-A TBTS) [5] [21] [47] [48] [49]	**NA** No accessory **HL** Honeycomb Louver [51] **XLVR** Concentric Ring Louver [52] [53] **CL** Clear Glass Lens **SL** Softening Glass Lens **PD** Prismatic Diffuser [54] **LSN** Linear Spread Lens Narrow (1° x 40°) [55] [56] **LSW** Linear Spread Lens Wide (1° x 60°) [56] [57] **BW1** Beam Widening Lens (+10°) [56] **BW2** Beam Widening Lens (+20°) [56] **BW3** Beam Widening Lens (+30°) [56]

Notes:

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

21. Not available with 347V.

31. Not available for 3000 lumens.

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

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

40. Cannot be combined with square ceiling cutout.

41. Cannot be combined with round ceiling cutout.

42. 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.

43. 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.

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

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

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

47. Available for RM and NC installation types only.

48. 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.

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

50. 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.

51. Not available for DTW and DTWP color options.

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

53. Can be combined with PD accessory only.

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

55. 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.

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

57. 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.