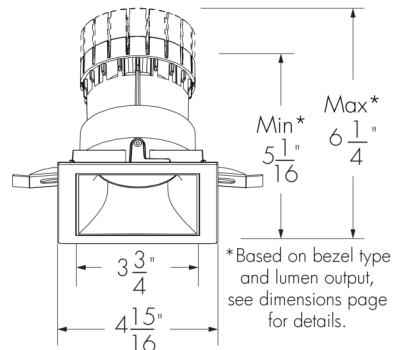
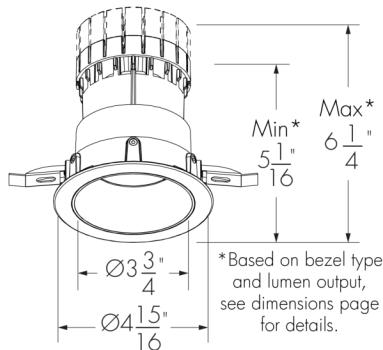


Project Name	Qty
Type	Catalog / Part Number



Photometric Summary

Based on Wide Faceted Reflector Optic (Nominal 60°),
MRGBWP in Optidrive™ (White 3000K CRI 96+)

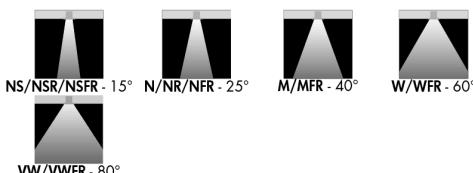
Nominal Output [lm]	Delivered Output [lm] ¹⁾	Non-Insulated Ceiling		Insulated Ceiling	
		Power (120V) [W]	Power (120V) [W]	Power (120V) [W]	Power (120V) [W]
700	570	13	11		
1000	919	18	16		
1300	1,266	25	N/A		
2000	1,671	34	N/A		

1. Consult website for latest IES files.

2. Refer to the [Lumencore Recessed Opticolor+ Small Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

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

Optics



Color and Color Temperature



Opticolor+®
Mix-at-Source
Red, Green,
Blue Plus White
Settable
Range 22K to
65K

Opticolor+®
Mix-at-Source
Red, Green,
Royal Blue Plus
White Settable
Range 22K to
65K

Description

The Lumencore Recessed Opticolor+ Small Downlight is a high-performance, color-changing interior LED luminaire. This versatile three-in-one fixture offers Dynamic RGBW Colors, Dynamic White with Dim-to-Warm, and Premium Static White, all while upholding Lumenpulse's renowned quality of light and precision.

Physical

Cutout

R: Round, S: Square

Decorative Bezel

SB: Standard, MB: Mid/Semi Recess, DB: Deep Recess, DR: Deep Rollover

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

3.4 lbs with RM installation type,
4.75 lbs with NC installation type,
10.8 lbs with PC, IC and IC/AT installation types
(Weights are approximate based on the heaviest fixture configuration)

Please consult factory if exact fixture weight is needed

Ceiling Space Requirements (Length x Width x Height)

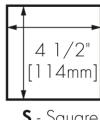
Up to 18 in x 18 in x 8 in with RM and NC installation types,
Up to 18 in x 15 in x 9 in with PC, IC and IC/AT installation types
Dimensions will vary by output, refer to Ceiling Requirements table for details

Color RenderingCRI
90+**Control**DALI
T8

DMX/RDM

Ceiling Cutout Shapes

R - Round



S - Square

Decorative Bezels (Round Trim)

SB - Standard



MB - Mid / semi recess



DB - Deep recess



DR - Deep rolled over

Decorative Bezels (Square Trim)

SB - Standard



MB - Mid / semi recess



DB - Deep recess



DR - Deep rolled over

Standard Finishes - Decorative Bezels

MWH - Matte white



MBK - Matte black



MSI - Matte Silver



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 color palette in complete specification sheet)

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**Color and Color Temperature****MRGBWP:** Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K**MRGROYWP:** Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K**Optics (Nominal Distribution)****NS:** Narrow Spot Distribution 15°**NSR:** Narrow Spot Reflector 15°**NSFR:** Narrow Spot Faceted Reflector 15°**N:** Narrow Distribution 25°**NR:** Narrow Reflector 25°**NFR:** Narrow Faceted Reflector 25°**M:** Medium 40°**MFR:** Medium Faceted Reflector 40°**W:** Wide 60°**WFR:** Wide Faceted Reflector 60°**VW:** Very Wide 80°**VWFR:** Very Wide Faceted Reflector 80°**Decorative Bezel Finish****MWH:** Matte White**MBK:** Matte Black**MSI:** Matte Silver**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**MSI:** Matte Silver**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)**Options****WET:** IP54 rating suitable for wet locations.

For IP55 Shower Rated "Dead Front" applications see Lumencore Small Shower Rated specification sheet

Certifications

UL compliant, UL Wet Location (WET option only), RoHS

Warranty

5-year limited warranty

Standard Finishes for Trim

MWH - Matte white



MBK - Matte black



MSI - Matte Silver



NKS - Nickel satin

CC - Custom color and finish
(specify 4-digit RAL K7 color)SP - Special color
(choose from standard Point Source color palette)**Options**

IP54 rating suitable for wet locations

Ratings

IP20

IP54

**Certifications****Performance****Delivered Output**

Up to 1,671 lm
Wide Faceted Reflector Optic 60°, MRGBW Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM)
Up to 1,745 lm
Wide Faceted Reflector Optic 60°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM)

Delivered Intensity

Up to 5,474 cd
Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 3000K 95+ CRI, DMX/RDM)
Up to 5,715 cd
Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 4000K 95+ CRI, DMX/RDM)

Color Consistency

3 SDCM (in white light color temperatures)

Color Rendering

90: CRI 90+ (White Light Only)

Lumen Maintenance

L95 50,000 hrs (Ta 25 °C)

Electrical and Control**Voltage**

120: 120 Volts, 277: 277 Volts

Wattage Range

13W to 34W (wattage will vary based on voltage, output and optic, refer to Power Consumption table for details)

Control

DMX/RDM: DMX/RDM Enabled Dimming 0.1%

DALI8: DALI 2 T8 Enabled Dimming 0.1%

Environmental**Ingress Protection Rating**

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

Environment

Damp location rating (interior applications only), Wet location rating (with WET option only)

Operating Temperature (Ceiling Cavity Ambient Temperature)

-4 °F to 104 °F (DMX/RDM control option)

Accessories (Order Separately)**Control Systems**

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

Diagnostic and Addressing Tools

LumenID (LID)

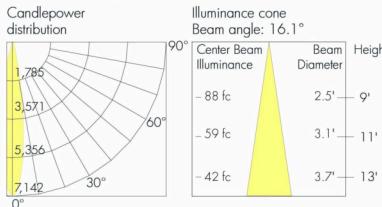
Important**Virtual Patent Marking Notice**

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

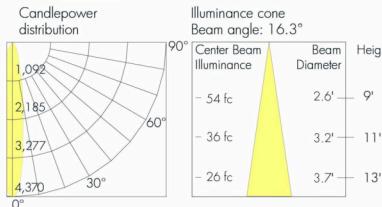
NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	558	285	467	114	551	576	
1000	788	304	526	114	779	813	



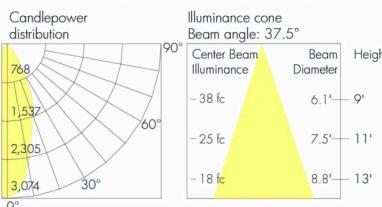
NSFR - Narrow Spot Faceted Reflector (Nominal 15°), 4000K

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	586	299	490	120	579	605	
1000	828	320	552	120	818	855	



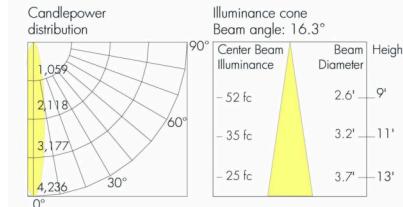
NR - Narrow Reflector (Nominal 25°), 4000K

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	522	327	610	155	515	538	
1000	841	459	832	220	831	868	
1300	1159	513	1001	263	1145	1196	
2000	1530	513	1216	263	1512	1579	



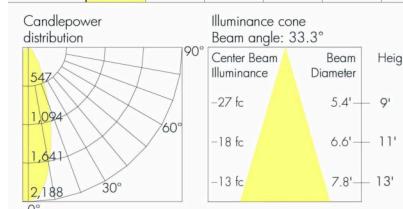
NSR - Narrow Spot Reflector (Nominal 15°), 4000K

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	567	289	474	116	560	585	
1000	801	309	534	116	791	826	



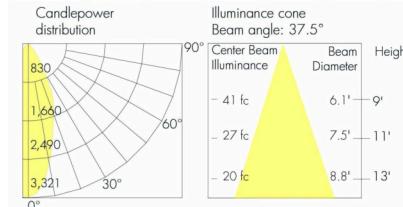
N - Narrow (Nominal 25°), 4000K

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	490	307	573	146	484	506	
1000	791	431	782	206	781	816	
1300	1089	482	941	247	1076	1124	
2000	1437	482	1143	247	1420	1483	



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

Nominal output [lm]		Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+	
700	563	353	659	167	557	581	
1000	909	495	899	237	898	968	
1300	1252	555	1082	284	1237	1292	
2000	1653	554	1314	284	1633	1706	



Photometric information is based on a factory-set Optidrive™ mode configuration.

Based on Standard Bezel and Round or Square trim configuration.

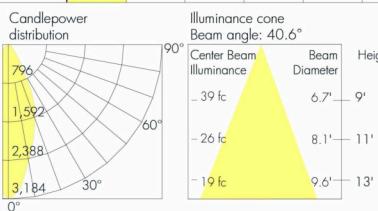
† Consult website for IES files. Delivered output: +/- 10% tolerance.

Consult Power Consumption section for wattage information.

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

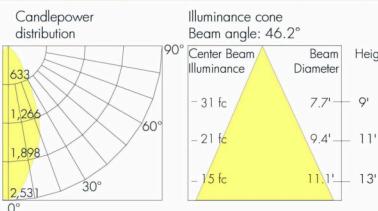
M - Medium (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	520	326	608	154	514	536
1000	839	457	829	219	828	865
1300	1155	512	998	262	1141	1192
2000	1525	511	1212	262	1506	1573



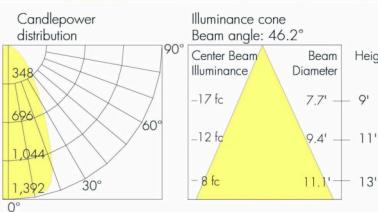
W - Wide (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	534	335	624	159	527	551
1000	861	469	852	225	851	889
1300	1186	525	1025	269	1172	1224
2000	1566	524	1245	269	1547	1616



VW - Very Wide (Nominal 80°), 4000K

Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	495	311	579	147	490	511
1000	799	436	791	209	790	825
1300	1101	488	951	250	1088	1136
2000	1453	487	1155	250	1436	1500



Photometric information is based on a factory-set Optidrive™ mode configuration.

Based on Standard Bezel and Round or Square trim configuration.

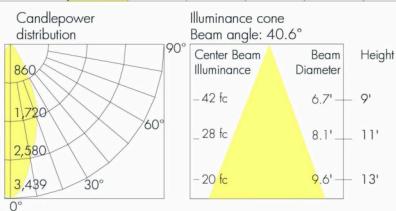
† Consult website for IES files. Delivered output: +/- 10% tolerance.

Consult Power Consumption section for wattage information.

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

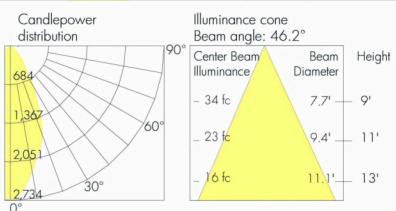
MFR - Medium Faceted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	561	352	656	167	554	579
1000	905	493	895	236	894	934
1300	1247	552	1077	283	1232	1287
2000	1646	551	1309	283	1626	1699



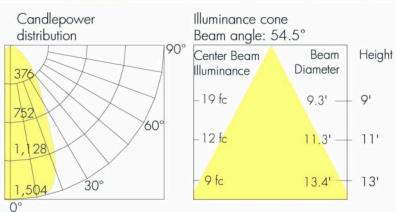
WFR - Wide Faceted Reflector (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	576	361	674	171	570	595
1000	930	507	920	243	919	960
1300	1281	567	1107	291	1266	1322
2000	1691	566	1344	291	1671	1745



VWFR - Very Wide Faceted Reflector (Nominal 80°), 4000K

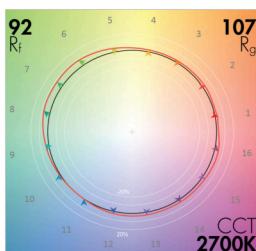
Nominal output [lm]	Delivered output [lm] [†]					
	Full On	Red	Green	Blue	White 30K	White 40K
CRI 96+	CRI 95+					
700	535	335	625	159	529	552
1000	863	470	854	225	853	891
1300	1189	527	1027	270	1175	1227
2000	1569	526	1248	270	1551	1620



TM-30

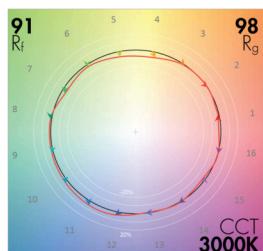
2700K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
2700K	R _a	90	92	R _f
	R _g	76	107	R _g



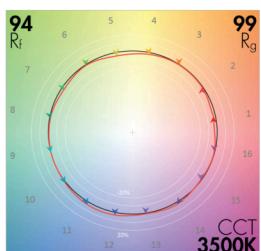
3000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3000K	R _a	96	91	R _f
	R _g	94	98	R _g



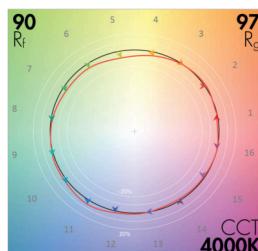
3500K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3500K	R _a	97	94	R _f
	R _g	83	99	R _g



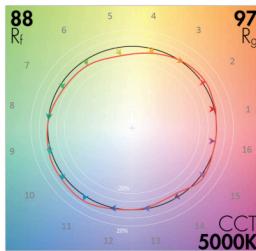
4000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
4000K	R _a	95	90	R _f
	R _g	97	97	R _g



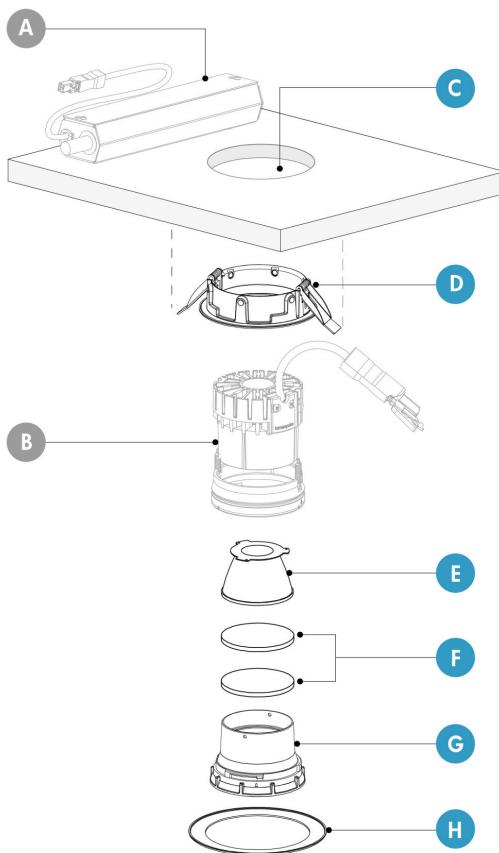
5000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
5000K	R _a	91	88	R _f
	R _g	78	97	R _g



Refer to TM-30 Reference Guide for details.

Exploded Overview - Part Selection



Standard parts

A - MTG kit

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

MTG: Mounting Kit

LUM: Luminaire

Customizable Parts

C - Ceiling cutout shape (round or square)

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

E - Optic*

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

G - Decorative bezel**

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

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

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

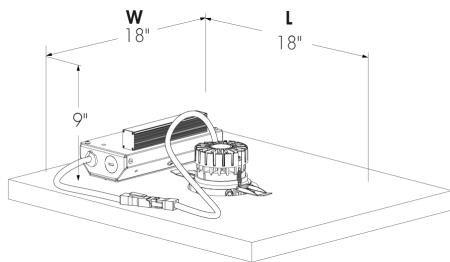
Ceiling Requirements

Ceiling Cavity Space Requirements (Length x Width x Height)

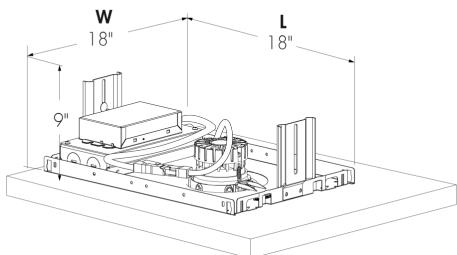
Installation type	Bezel Options	Output/Color Rendering			
		L07	L10	L13	L20
CRI90					
RM	SB or MB bezel options	11"x 11"x 5" (with trim) 11"x 11"x 8" (trimless)		12"x 12"x 7" (with trim) 12"x 12"x 8" (trimless)	18"x 18"x 9"
	DB or DR bezel options	11"x 11"x 5" (with trim) 11"x 11"x 8" (trimless)		14"x 11"x 7" (with trim) 14"x 11"x 8" (trimless)	
NC	SB or MB bezel options	14"x 11"x 5" (with trim) 18"x 18"x 9" (trimless)		14"x 11"x 7" (with trim) 14"x 11"x 8" (trimless)	18"x 18"x 9"
	DB or DR bezel options	14"x 11"x 7" (with trim) 14"x 11"x 8" (trimless)			
PC/IC/ICAT	ALL	14.5"x 10"x 7"	18"x 15"x 9"	N/A	

See Installation Type section for dimensional view of keep out and/or MTG mounting kit option.

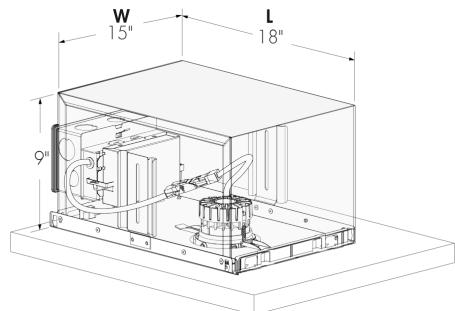
Above dimensions include any keep out requirements for proper airflow and thermal cooling.

Installation Types**RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)**

Ceiling cavity space requirements for L20 shown.

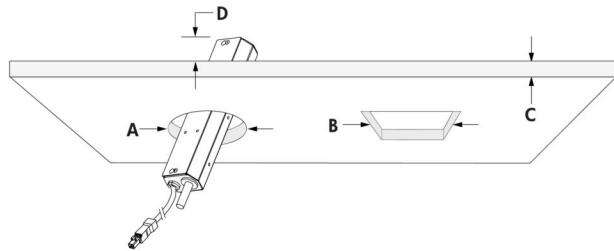
NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated)

Ceiling cavity space requirements for L20 shown.

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

Ceiling cavity space requirements for L10 shown.

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

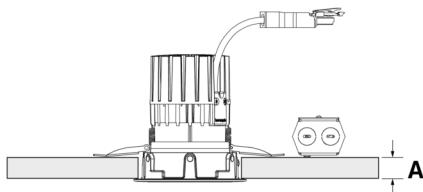
Ceiling Requirements**Ceiling Cutout**

A - Ceiling cutout: Ø4.5 in

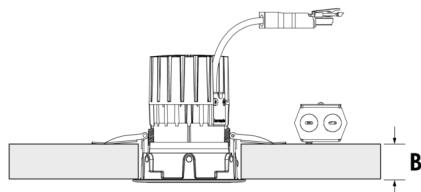
B - Ceiling cutout: 4.5 in x 4.5 in

C - Maximum ceiling thickness: 2 in

D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table

Ceiling Thickness Options**Ceiling Thickness 1**

A - Ceiling thickness range: 0.04 in to 1 in

Ceiling Thickness 2

B - Ceiling thickness range: 1.05 in to 2 in

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

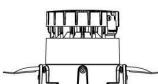
Lumen Output and Installation Type

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

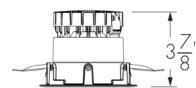
NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated)

IC, PC, IC/AT - New Construction Insulated And Non-Insulated Ceiling

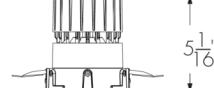
Optic	Short Heatsink	Tall Heatsink
	Lumen Output	Lumen Output
NS, NSR, NSFR	N/A	l07
N, NR, NFR, M, MFR, W, WFR, VV, VVFR	l07, l10, l13	l20



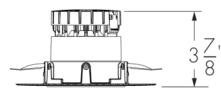
Optic	Lumen Output
NS, NSR, NSFR	l07
N, NR, NFR, M, MFR, W, WFR, VV, VVFR	l07, l10

Dimensions**SB - Standard****Short Heatsink**

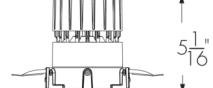
Front view

Tall Heatsink

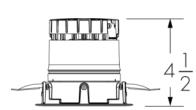
Front view

Short model - Trimless

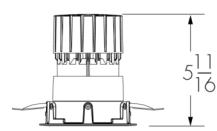
Front view

Tall model - Trimless

Front view

MB - Mid/Semi Recess**Short Heatsink**

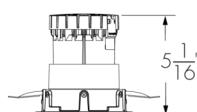
Front view

Tall Heatsink

Front view

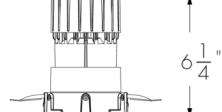
DB - Deep Recess

Short Heatsink



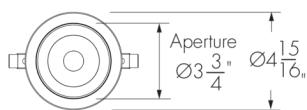
Front view

Tall Heatsink



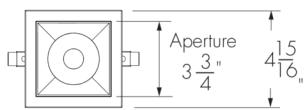
Front view

RD - Round Shape, Round Trim



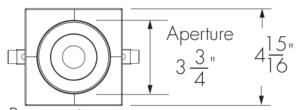
Bottom view

SQ - Square Shape, Square Trim



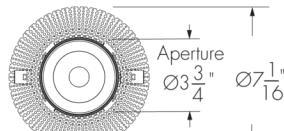
Bottom view

SR - Square Shape, Round Hole



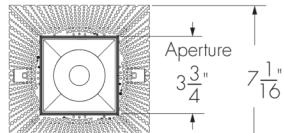
Bottom view

TLR - Trimless Round



Bottom view

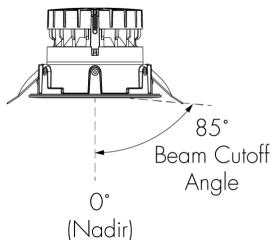
TLS - Trimless Square



Bottom view

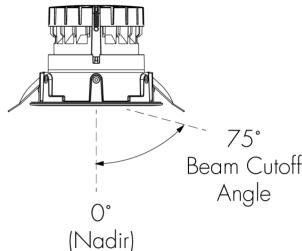
Beam Cutoff Angle

SB - Standard

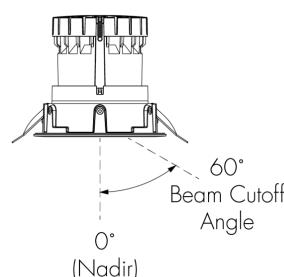


Front view

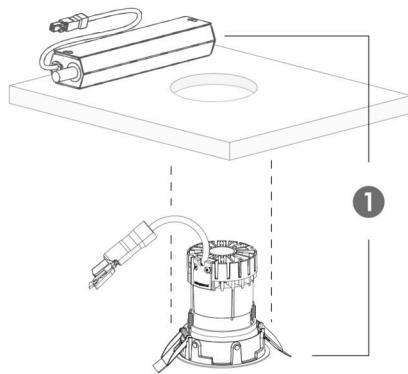
MB - Mid/Semi Recess



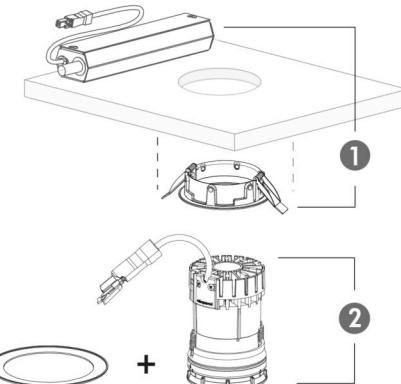
Front view

DB - Deep Recess
DR - Deep Rolled Over

Front view

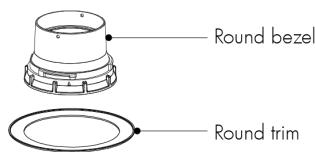
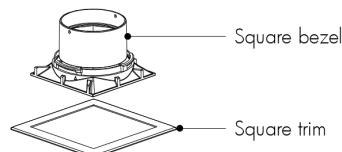
Delivery - How it Works**Standard Shipping (1 delivery)****Included**

1. MTG kit and complete fixture assembly

Advanced Shipping of Mounting kit (2 Separate Deliveries)**Included**

1. Optional advanced delivery: MTG 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****SQ - Square Ceiling Cutout****Decorative Bezel Options****RD - Compatible Round Decorative Bezels**

SB - Standard



MB - Mid/semi recess



DB - Deep recess



DR - Deep rolled over

Standard Finishes - Decorative Bezels

MWH - Matte white



MBK - Matte black



MSI - Matte silver



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 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 - Square

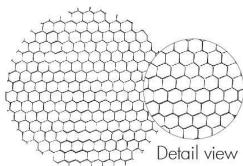
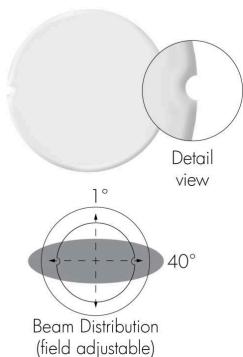
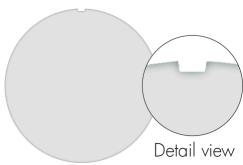


TLS - Trimless Square

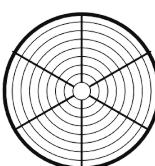
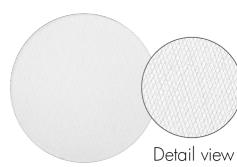
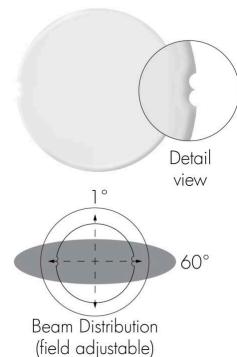
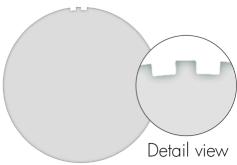
Standard Finishes - Trims**MWH** - Matte white**MBK** - Matte black**MSI** - Matte silver**NKS** - Nickel satin**CC** - Custom colour***SP** - Special colour**

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

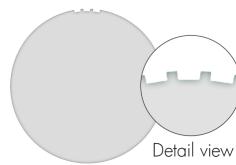
**Special color: choose one of the standard Point Source colors from the Point Source product brochure or Lumencore Cylinder specification sheets. Contact manufacturer for additional information.

Optical Accessories**HL - Honeycomb Louver****SL - Softening Glass Lens****LSN - Linear Spread Lens Narrow (1° x 40°)****BW1 - Beam Widening Lens (+10°)**

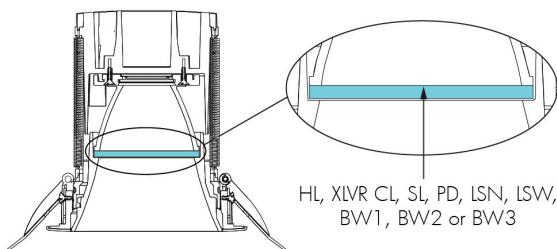
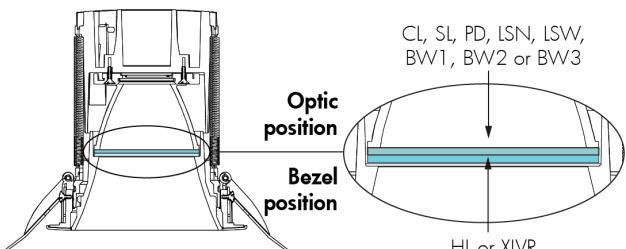
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

XLVR - Concentric Ring Louver**PD - Prismatic Diffuser****LSW - Linear Spread Lens Wide (1° x 60°)****BW2 - Beam Widening Lens (+20°)**

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

CL - Clear Glass Lens**BW3 - Beam widening lens (+30°)**

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

Optical Accessories - Installation Options (Field Changeable)**One Optical Accessory Installed****Two Optical Accessories Installed**

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

Optics**TIR Optic - Total Internal Reflection**

Applicable to NS (15°) and N (25°) distributions.

Semi-Specular Reflector

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

Faceted Reflector

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

Beam Widening Lenses

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

The above beam angles are nominal beam angles.

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

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

Interchangeable Optics

Optic installed in fixture							
	NS 15°	NSR 15°	N 25°	NR 25°	M 40°	W 60°	VW 80°
Interchangeable optics	NSR NSFR	NS NSFR	NR NFR M MFR W WFR VW VWFR	N	N	N	N
				NFR	NFR	NFR	NFR
				M	NFR	NFR	NFR
				MFR	MFR	M	M
				W	W	MFR	MFR
	NSFR 15°	NS NSR	WFR VW VWFR	WFR	WFR	WFR	W
				VW	VW	VFR	WFR
				VWFR	VWFR	VWFR	VWFR
				NFR 25°		MFR 40°	WFR 60°
				NS 15°		NFR 25°	VWFR 80°

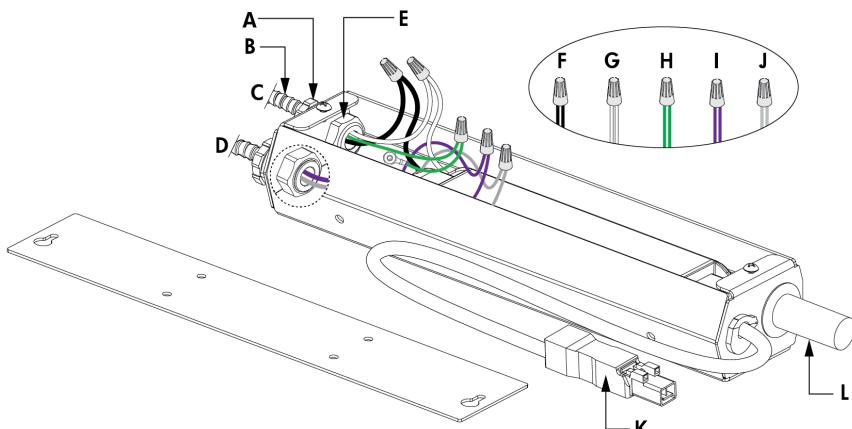
The optic options listed above are field changeable. Consult factory and installation instructions for details.

Power Consumption

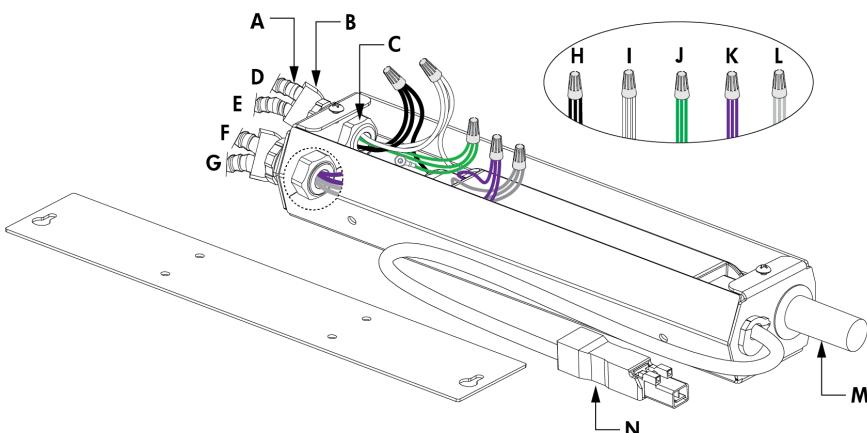
Power consumption [W]				
Output [lm]	NS (15°) - NSR (15°) - NSFR (15°)		N (25°) - NR (25°) - NFR (25°) - M (40°) - MFR (40°) - W (60°) - WFR (60°) - VW (80°) - VWFR (80°)	
	120 V	277 V	120 V	277 V
700	16	16	13	13
1000	23	23	18	18
1300	N/A	N/A	25	25
2000	N/A	N/A	34	34

Power Consumption values are based on a MRGBWP Full On configuration.

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

Wiring Details RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)**DMX/RDM 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

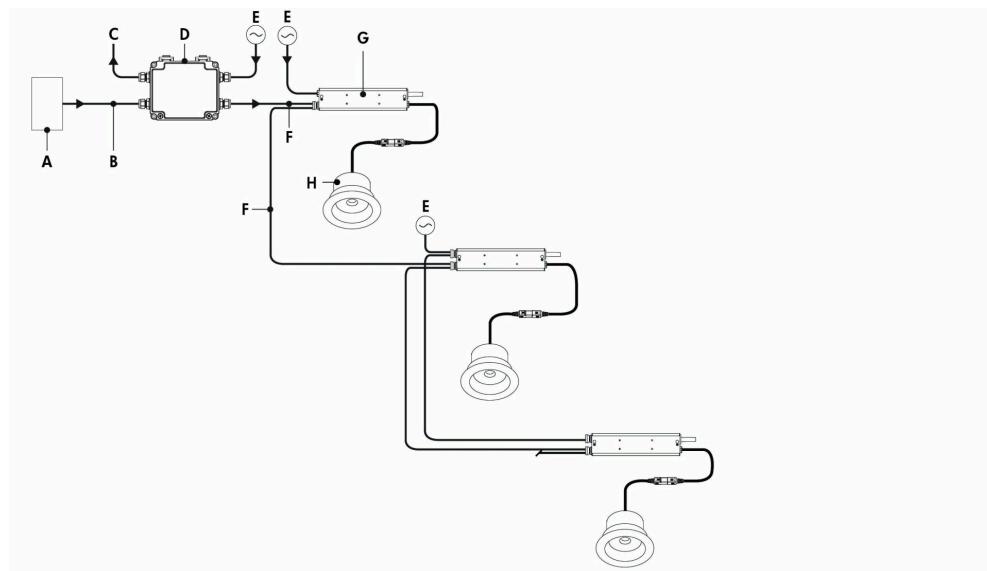
Daisy Chain Layout (DMX/RDM) - Wiring Detail

- 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.

Typical Wiring Diagrams

Daisy Chain Layout (DMX/RDM)



- A** - DMX/RDM controller (to be ordered separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, non-isolated/non-boosted)
- D** - CBX-DS
- E** - Power input (120-277V AC, wiring by others)
- F** - Data cable (Belden 9841 or equivalent, by others)
- G** - MTG kit (included, specified in fixture order code)
- H** - Lumencore Recessed fixture

The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.

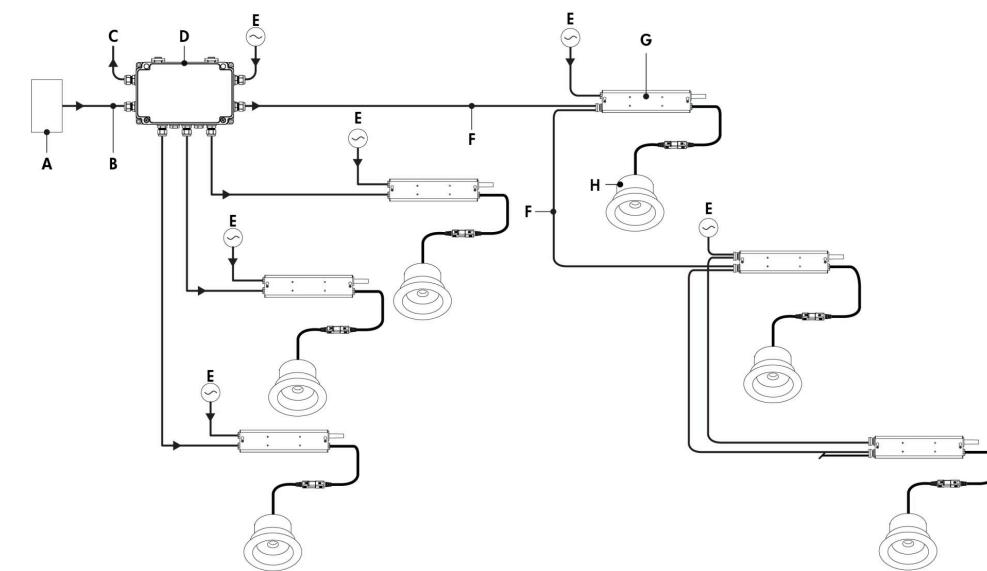
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 1 output per CBX-DS.

Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.

DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

Star Layout (DMX/RDM)



- A** - DMX/RDM controller (to be ordered separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, non-isolated/non-boosted)
- D** - CBX-ST
- E** - Power input (120-277V AC, wiring by others)
- F** - Data cable (Belden 9841 or equivalent, by others)
- G** - MTG kit (included, specified in fixture order code)
- H** - Lumencore Recessed fixture

The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.

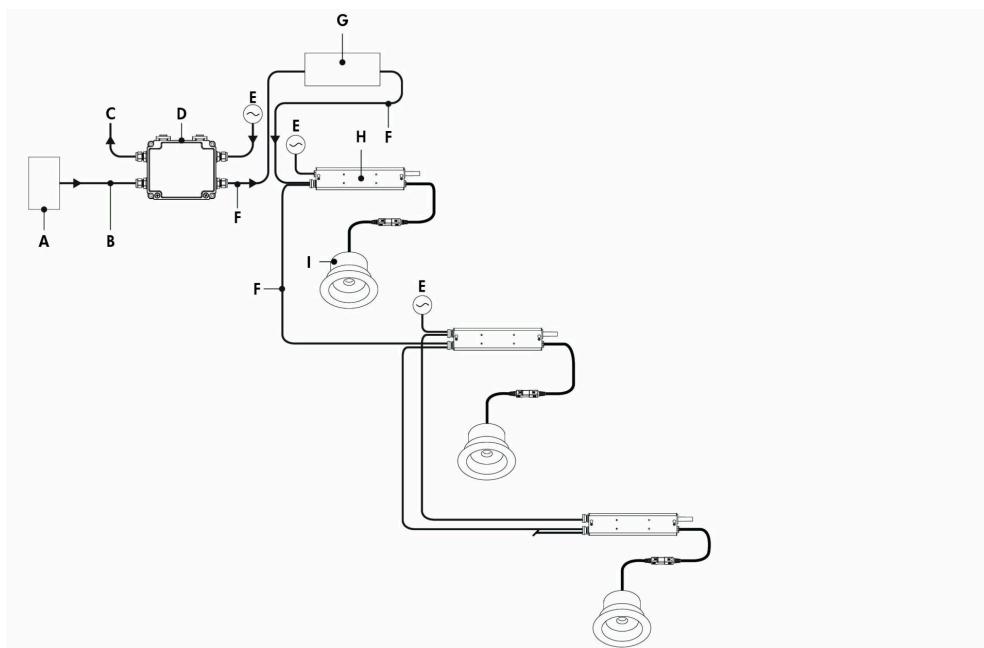
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 6 outputs per CBX-ST.

Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.

DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

Daisy Chain Layout (DMX/RDM) Using Emergency Backup Power



- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (120-277V AC, emergency circuit or inverter, wiring by others)
- F** - Data cable (Belden 9841 or equivalent, by others)
- G** - UL 924 Emergency Backup Device (by others)
- H** - MTG kit (included, specified in fixture order code)
- I** - Lumencore Recessed fixture

The wiring configuration shown is an example and may vary depending on the emergency backup power system selected.

Emergency backup power is provided by others.

The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.

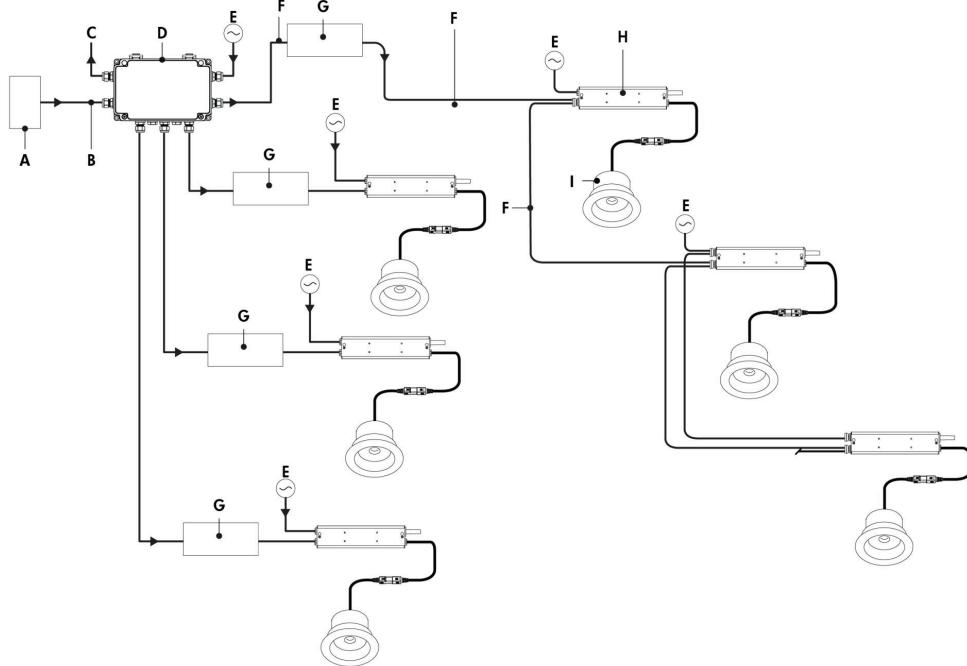
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 1 output per CBX-DS.

Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.

DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

Star Layout (DMX/RDM) Using Emergency Backup Power



- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-ST
- E** - Power input (120-277V AC, emergency circuit or inverter, wiring by others)
- F** - Data cable (Belden 9841 or equivalent, by others)
- G** - UL 924 Emergency Backup Device (by others)
- H** - MTG kit (included, specified in fixture order code)
- I** - Lumencore Recessed fixture

The wiring configuration shown is an example and may vary depending on the emergency backup power system selected.

Emergency backup power is provided by others.

The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.

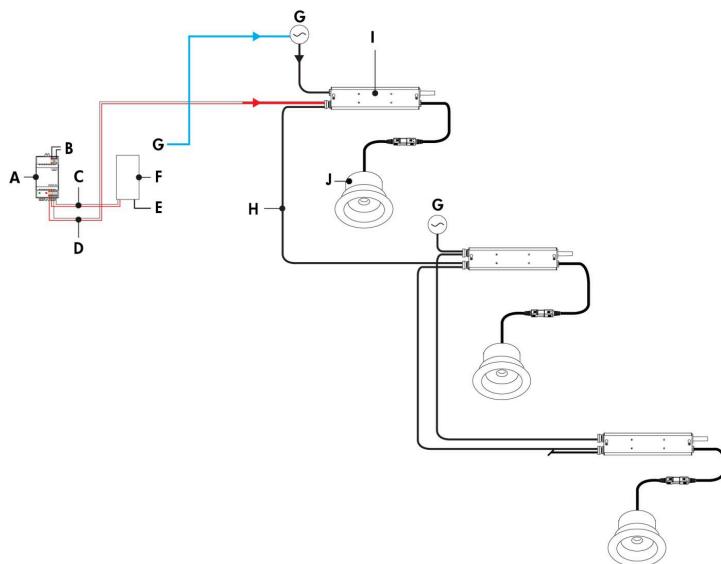
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 6 outputs per CBX-ST.

Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.

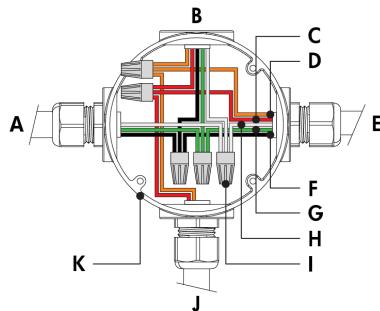
DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

DALI 2 T8 Enabled Dimming (DALIT8)



- A** - DALI bus power supply (by others)
- B** - Power input for DALI bus power supply (wiring by others)
- C** - Data output to DALI controller (wiring by others)
- D** - Data output to fixture (wiring by others)
- E** - Power input for DALI controller (if required, wiring by others)
- F** - DALI controller (by others)
- G** - Power input (100-277V AC, wiring by others)
- H** - Data wiring (by others)
- I** - MTG kit (included, specified in fixture order code)
- J** - Lumencore Recessed fixture

DALI 2 T8 (DALIT8) - Wiring Detail



- A** - Power input or from previous fixture
- B** - To fixture
- C** - DA +
- D** - DA -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Neutral
- I** - Wire-nut (by others)
- J** - From DALI controller (by others)
- K** - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumencore Recessed fixture responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



The Pharos Designer Lighting Control 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.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID



The updated LumenID (LID) is an 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. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

How to Order

Housing ⁽¹⁾	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Color and Color Temperature ⁽⁴⁾	Color Rendering	Optics (Nominal Distribution)	Control
LCRS Lumencore Recessed Small - 4 in	A UL/cUL	FD Downlight	120 120 Volts 277 277 Volts	R Round S Square	L07 700 lm L10 1000 lm L13 1300 lm ⁽²⁾ L20 2000 lm ⁽³⁾	MRGBWP Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K ⁽⁵⁾ ⁽⁶⁾ MRGROYWP Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K ⁽⁶⁾ ⁽⁷⁾	90 CRI 90+ (White Light Only) ⁽⁵⁾	NS Narrow Spot Distribution 15° ⁽⁸⁾ NSR Narrow Spot Reflector 15° ⁽⁸⁾ NSFR Narrow Spot Faceted Reflector 15° ⁽⁸⁾ N Narrow Distribution 25° ⁽⁹⁾ NR Narrow Reflector 25° NFR 25° Faceted Reflector M Medium 40° MFR 40° Faceted Reflector W Wide 60° WFR 60° Faceted Reflector VW 80° Reflector VWFR 80° Faceted Reflector	DMX/RDM DMX/RDM Enabled Dimming 0.1% ⁽¹⁰⁾ DALI8 DALI 2 T8 Enabled Dimming 0.1% ⁽¹⁴⁾

Notes:

1. Refer to website product configurator for all exceptions.
2. Available for N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
3. Available for NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
4. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
5. CRI 90 applies only to white light color temperatures from 2700K to 6500K.
6. Fixtures are shipped from the factory in Optidrive™ Mode. Normal Mode can be activated onsite for DMX/RDM fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. Additionally, with Opticolor+™ the white CCT is configurable in the field from 2200K-8000K.
7. CRI 90 applies only to white light color temperatures from 2700K to 6500K.
8. Available up to 1000 lumens.
9. Available up to 1300 lumens.
10. Configurable between 8 or 16-bit dimming control via RDM. DMX/RDM requires LumenID, LumenID software and onsite commissioning.
11. A Control Box (CBX-DS or CBX-ST) and LumenID (LID) must be specified.
12. Consult the Lumencore Recessed Opticolor+™ Brochure for details.
13. Configurable to 3, 4, or 5 channel control via RDM in the field.
14. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.

How to Order

Decorative Bezel	Decorative Bezel Finish	Trim ⁽¹⁷⁾	Trim Finish	Installation Type	Ceiling Thickness ⁽²³⁾	Option	Accessories ⁽²⁷⁾
SB Standard	MWH Matte White	RD Round ⁽¹⁸⁾	MWH Matte White	RM Remodel Non-Insulated Ceiling (Non-Plenum Rated) ^{(20) (21) (22)}	1 0.04 in to 1 in Ceiling Thickness	WET IP54 Rating Suitable for Wet Locations ^{(24) (25) (26)}	NA No Accessory
MB Mid/Semi Recess	MBK Matte Black	SR Square Trim with Round Hole ⁽¹⁸⁾	MBK Matte Black	NC New Construction Non-Insulated Ceiling (Non-Plenum Rated) ^{(20) (21) (22)}	2 1.05 in to 2 in Ceiling Thickness		HL Honeycomb Louver
DB Deep Recess	MSI Matte Silver	TLR Trimless Round ⁽¹⁸⁾	MSI Matte Silver	PC Plenum Non-Insulated Ceiling (Enclosed Box) ⁽⁸⁾			XLVR Concentric Ring Louver ⁽²⁸⁾
DR Deep Rollover	NKS Nickel Satin	SQ Square ⁽¹⁹⁾	CC Custom Color Trim ⁽¹⁵⁾	IC New Construction Insulated Ceiling (Enclosed Box) ⁽⁸⁾			CL Clear Glass Lens
	DCH Dark Chrome	TLS Trimless Square ⁽¹⁹⁾	SP Special Point Source Color ⁽¹⁶⁾	IC/AT New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) ⁽⁸⁾			SL Softening Glass Lens
	BCH Bright Chrome						PD Prismatic Diffuser ⁽²⁹⁾
	SWT Satin Wheat						LSN Linear Spread Lens Narrow (1° x 40°) ⁽³⁰⁾
	CC Custom Color Trim ⁽¹⁵⁾						LW Linear Spread Lens Wide (1° x 60°) ⁽³⁰⁾
	SP Special Point Source Color ⁽¹⁶⁾						BW1 Beam Widening Lens (+10°) ⁽³⁰⁾
							BW2 Beam Widening Lens (+20°) ⁽³⁰⁾
							BW3 Beam Widening Lens (+30°) ⁽³⁰⁾

Notes:

8. Available up to 1000 lumens.
 15. Longer lead times can be expected for custom RAL color finishes.
 16. Refer to Cylinder specification sheet and brochure for color options.
 17. Not applicable to DR bezel option.
 18. Cannot be combined with square ceiling cutout.
 19. Cannot be combined with round ceiling cutout.
 20. Available up to 1000 lumens when combined with NS, NSR and NSFR optics.
 21. Available up to 1300 lumens when combined with N optic.
 22. Available up to 2000 lumens when combined with NR, NFR, M, MFR, W, WFR, VW and VWFR optics.

23. Ceiling springs are field changeable, consult factory and installation instructions for details.
 24. IP54 rating only if installation is interior covered recessed ceiling-mounted or exterior canopy-mounted.
 25. DR bezel is recommended for outdoor canopy installations.
 26. A CL, SL or PD must be specified to maintain an IP54 rating. A second accessory may be specified.
 27. Maximum two accessories per fixture.
 28. Can be combined with PD accessory only.
 29. Recommended to be combined with HL or XLVR accessory only.
 30. For optimal performance, it is not recommended to mix with other accessories.