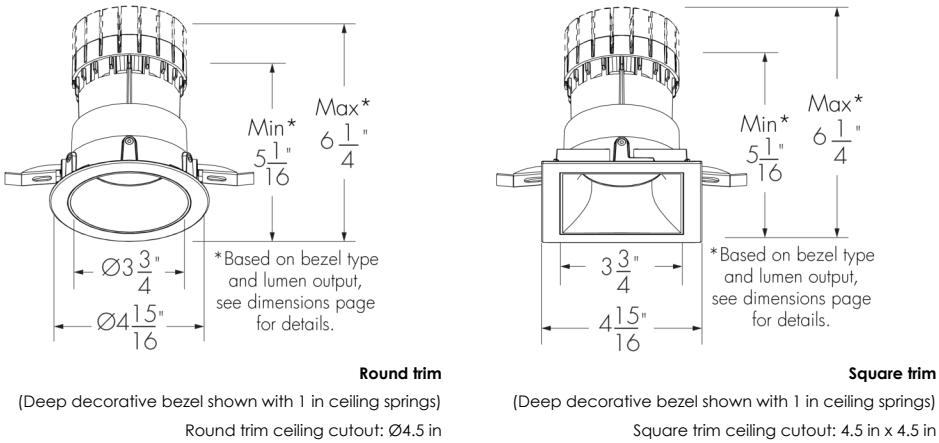


Project Name

Qty

Type

Catalog / Part Number



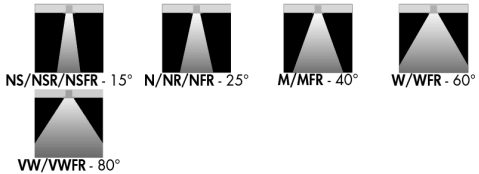
Photometric Summary

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]
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 Rendering

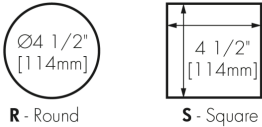
CRI
90+

Control

DALI
T8

DMX/RDM

Ceiling Cutout Shapes



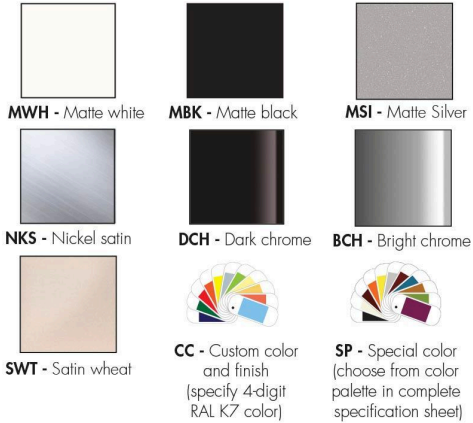
Decorative Bezels (Round Trim)



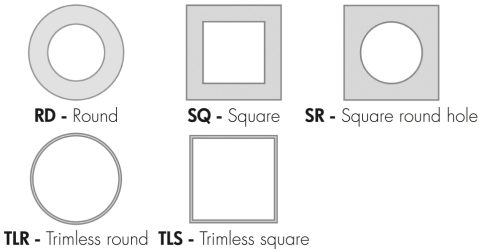
Decorative Bezels (Square Trim)



Standard Finishes - Decorative Bezels




Trim Shapes




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 MARGROYWP: 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



Wet Location

Certifications



UL US



RoHS





5 YEARS
lumenpulse

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)

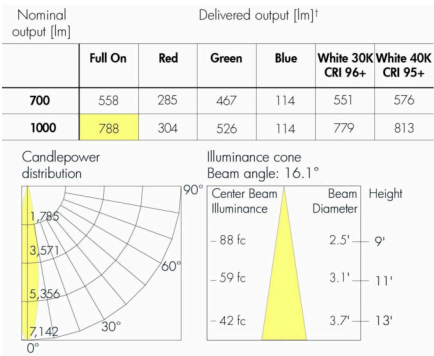
Important

Virtual Patent Marking Notice

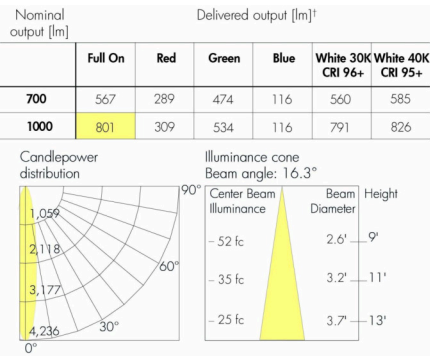
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Photometric Information

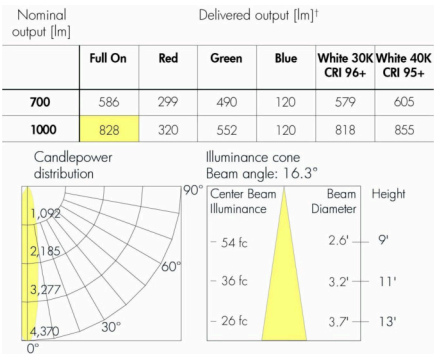
NS - Narrow Spot (Nominal 15°), 4000K



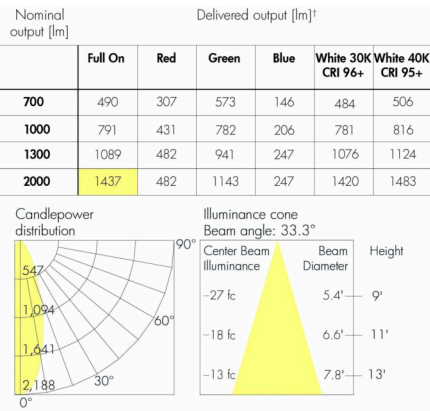
NSR - Narrow Spot Reflector (Nominal 15°), 4000K



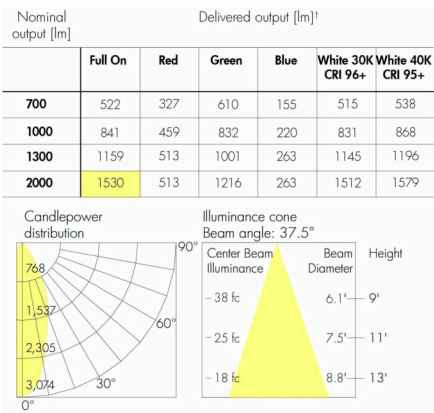
NSFR - Narrow Spot Faceted Reflector (Nominal 15°), 4000K



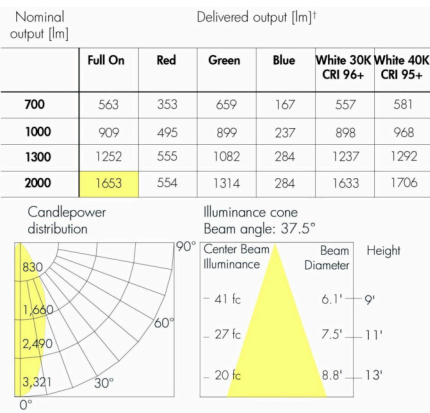
N - Narrow (Nominal 25°), 4000K



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



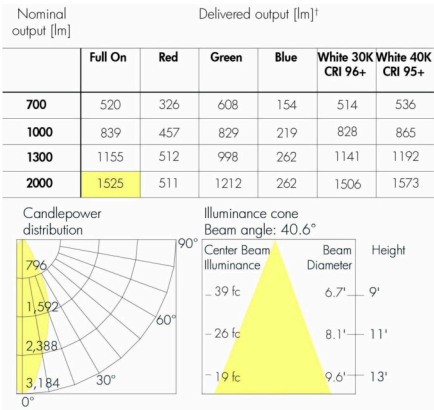
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K



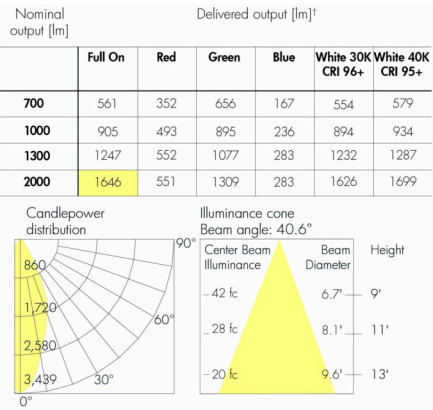
Photometric information is based on a factory-set Optidrive™ mode configuration.

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.

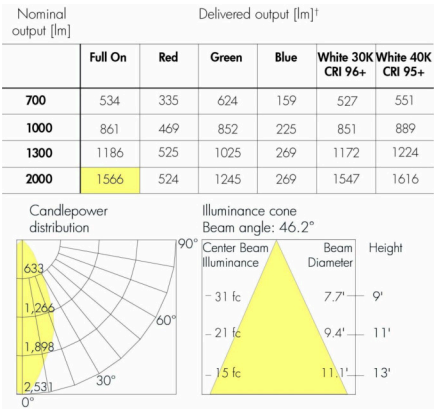
M - Medium (Nominal 40°), 4000K



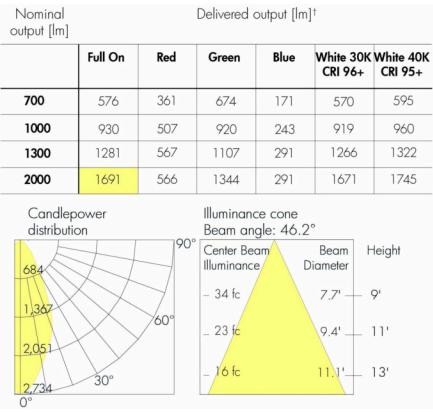
MFR - Medium Faceted Reflector (Nominal 40°), 4000K



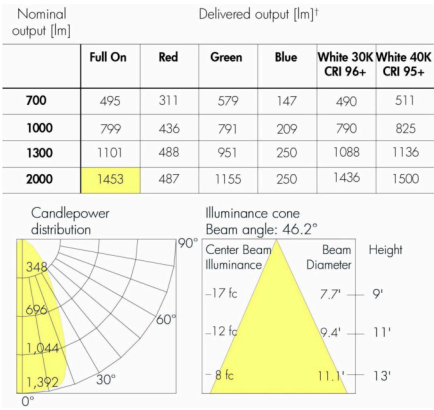
W - Wide (Nominal 60°), 4000K



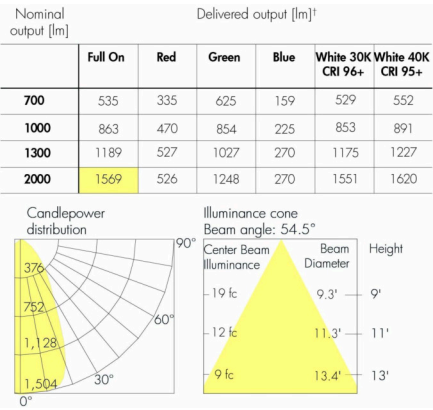
WFR - Wide Faceted Reflector (Nominal 60°), 4000K



VW - Very Wide (Nominal 80°), 4000K



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



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.

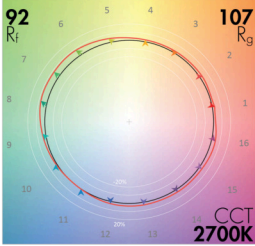
Consult Power Consumption section for wattage information.

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

TM-30

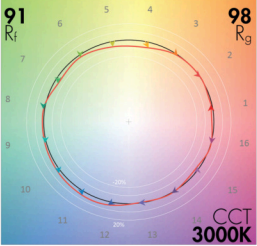
2700K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
2700K	R _a	90	92	R _f
	R ₉	76	107	R _g



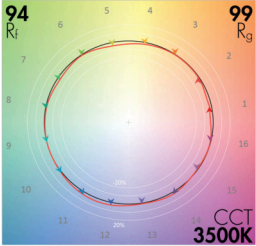
3000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3000K	R _a	96	91	R _f
	R ₉	94	98	R _g



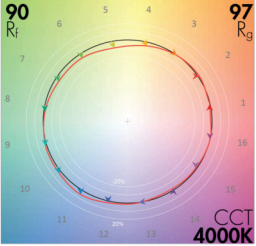
3500K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3500K	R _a	97	94	R _f
	R ₉	83	99	R _g



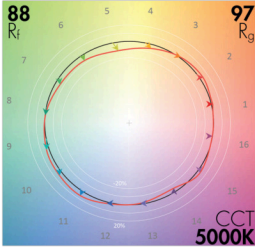
4000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
4000K	R _a	95	90	R _f
	R ₉	97	97	R _g



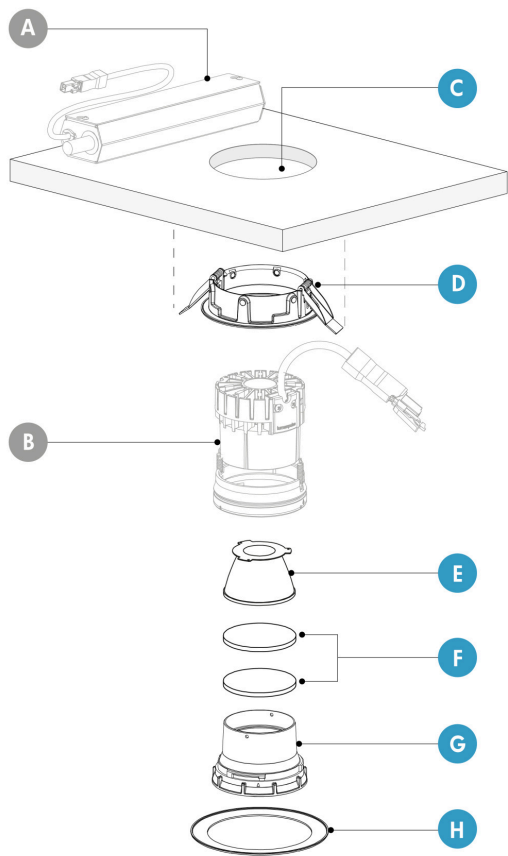
5000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
5000K	R _a	91	88	R _f
	R ₉	78	97	R _g



Refer to TM-30 Reference Guide for details.

Exploded Overview - Part Selection



Standard parts

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

Customizable Parts

- C** - Ceiling cutout shape (round or square)
- D** - Ceiling mounting ring (round or square, based on ceiling cutout selection)
- E** - Optic*
- F** - Optical accessory (up to two optical accessories can be combined in the fixture, field changeable)
- G** - Decorative bezel**
- H** - Trim (round or square, based on ceiling ring selection)**

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

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

Ceiling Requirements

Ceiling Cavity Space Requirements (Length x Width x Height)

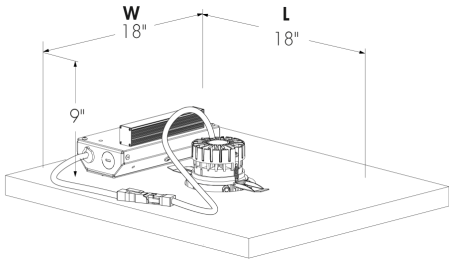
Installation type	Bezel Options	Output/Color Rendering			
		L07	L10	L13	L20
		CRI90			
RM	SB or MB bezel options	11"x 11"x 5" (with trim) 11"x 11"x 8" (trimless)		12"x 12"x 7" (with trim)	18"x 18"x 9"
	DB or DR bezel options	11"x 11"x 5" (with trim) 11"x 11"x 8" (trimless)		12"x 12"x 8" (trimless)	
NC	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)	
	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.

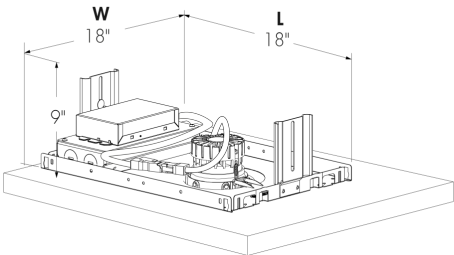
Installation Types

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



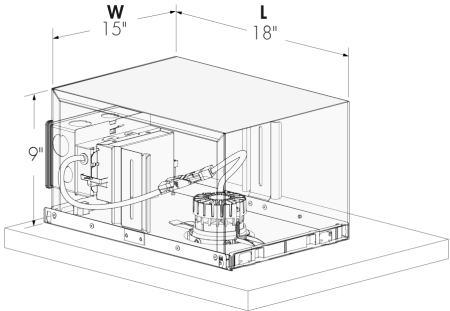
Ceiling cavity space requirements for L20 shown.

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)

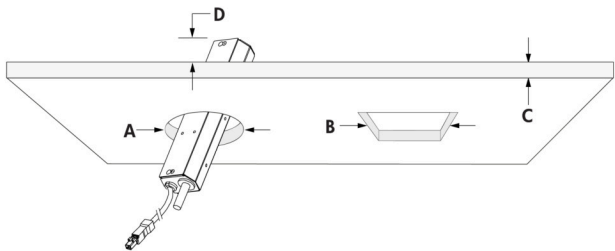


Ceiling cavity space requirements for L10 shown.

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

Ceiling Requirements

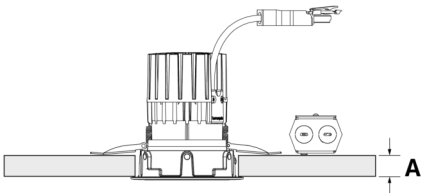
Ceiling Cutout



- A - Ceiling cutout: $\varnothing 4.5$ 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

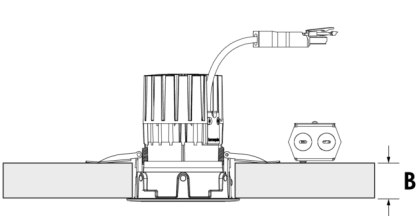
Ceiling Thickness Options

Ceiling Thickness 1



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

Ceiling Thickness 2



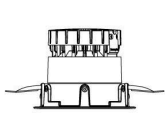
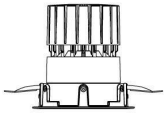
- B - Ceiling thickness range: 1.05 in to 2 in

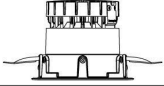
Ceiling springs are field changeable, consult installation instructions and factory for details.

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

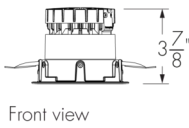
		
	Short Heatsink	Tall Heatsink
Optic	Lumen Output	Lumen Output
NS, NSR, NSFR	N/A	107
N, NR, NFR, M, MFR, W, WFR, VVW, VVWFR	107, 110, 113	120

	
	Short Heatsink
Optic	Lumen Output
NS, NSR, NSFR	107
N, NR, NFR, M, MFR, W, WFR, VVW, VVWFR	107, 110

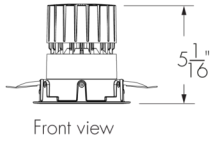
Dimensions

SB - Standard

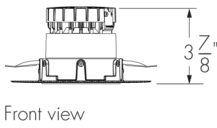
Short Heatsink



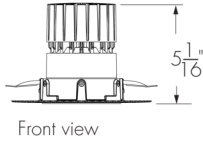
Tall Heatsink



Short model - Trimless

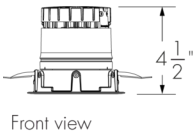


Tall model - Trimless

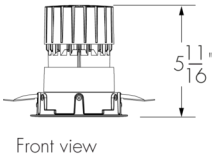


MB - Mid/Semi Recess

Short Heatsink

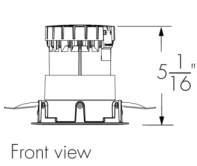


Tall Heatsink

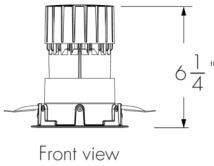


DB - Deep Recess

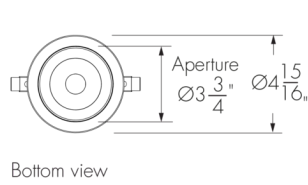
Short Heatsink



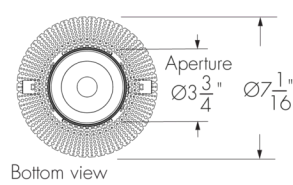
Tall Heatsink



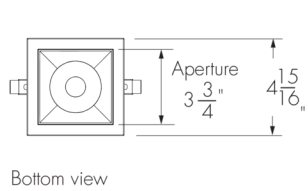
RD - Round Shape, Round Trim



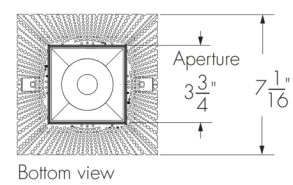
TLR - Trimless Round



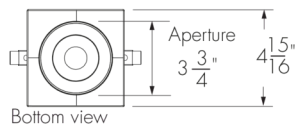
SQ - Square Shape, Square Trim



TLS - Trimless Square

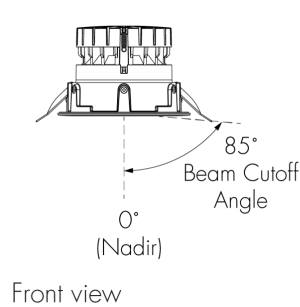


SR - Square Shape, Round Hole

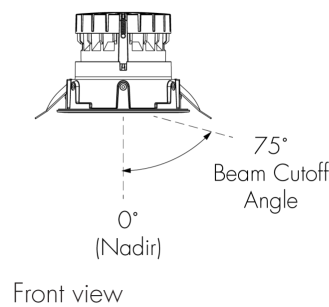


Beam Cutoff Angle

SB - Standard

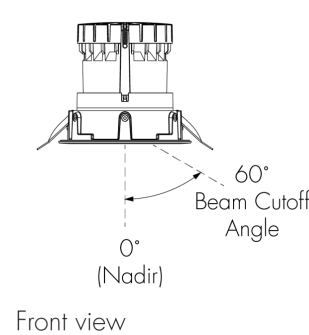


MB - Mid/Semi Recess



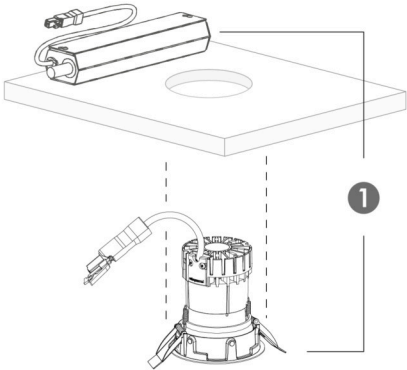
DB - Deep Recess

DR - Deep Rolled Over



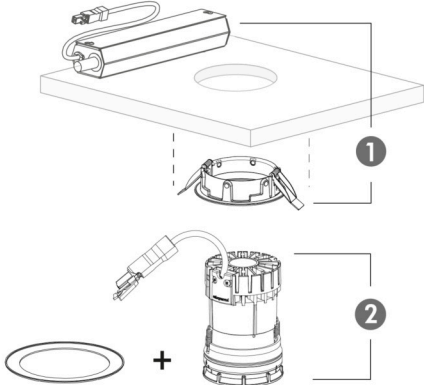
Delivery - How it Works

Standard Shipping (1 delivery)



- Included**
- 1. MTG kit and complete fixture assembly

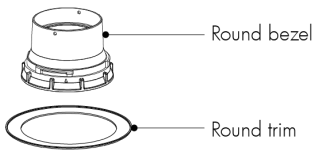
Advanced Shipping of Mounting kit (2 Separate Deliveries)



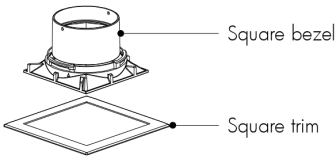
- Included**
- 1. Optional advanced delivery: MTG kit and ceiling mounting ring
 - 2. Second delivery: LUM Core (heatsink, universal fixing ring, LED module, optic, accessories, decorative bezel) and trim
- Consult factory for Advanced Shipping details.

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 - Compatible Square Trim Shapes



SQ - Square



TLS - Trimless Square

Standard Finishes - Trims



MWH - Matte white



MBK - Matte black



MSI - Matte silver



NKS - Nickel satin



CC - Custom colour*

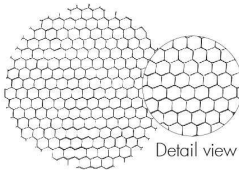


SP - Special colour**

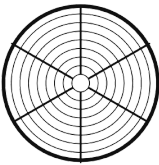
*Custom color: specify 4-digit RAL K7 color.
**Special color: choose one of the standard Point Source colors from the Point Source product brochure or Lumencore Cylinder specification sheets. Contact manufacturer for additional information.

Optical Accessories

HL - Honeycomb Louver



XLVR - Concentric Ring Louver



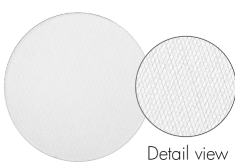
CL - Clear Glass Lens



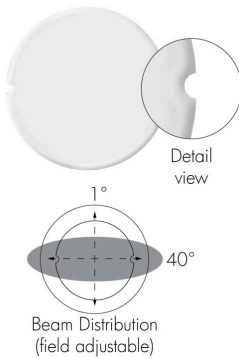
SL - Softening Glass Lens



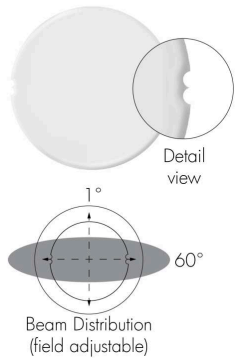
PD - Prismatic Diffuser



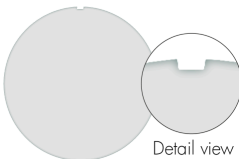
LSN - Linear Spread Lens Narrow (1° x 40°)



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

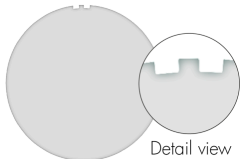


BW1 - Beam Widening Lens (+10°)



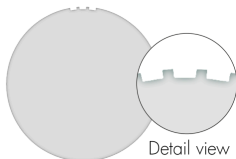
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

BW2 - Beam Widening Lens (+20°)



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

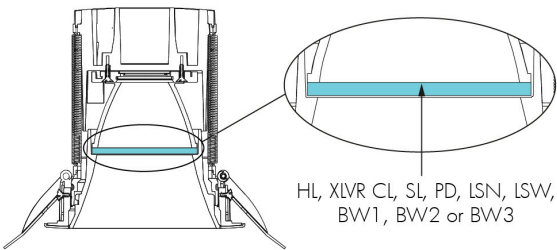
BW3 - Beam widening lens (+30°)



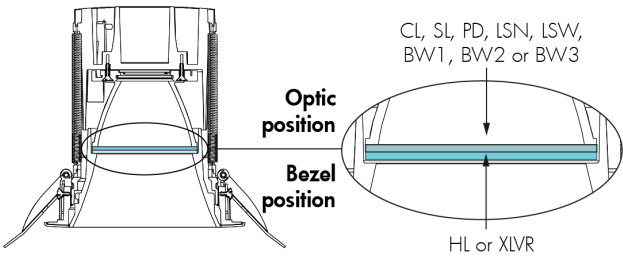
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

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

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

Power Consumption

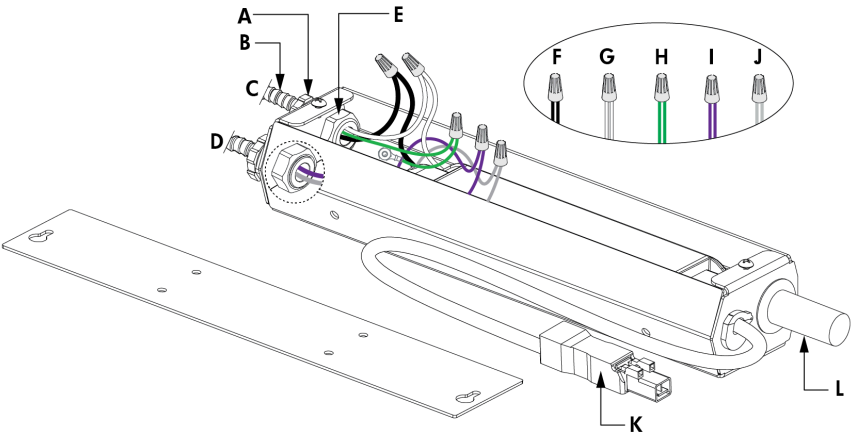
Output [lm]	Power consumption [W]			
	NS (15°) - NSR (15°) - NSFR (15°)		N (25°) - NR (25°) - NFR (25°) - M (40°) - MFR (40°) - W (60°) - WFR (60°) - VW (80°) - VWFR (80°)	
	120 V	277 V	120 V	277 V
700	16	16	13	13
1000	23	23	18	18
1300	N/A	N/A	25	25
2000	N/A	N/A	34	34

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.

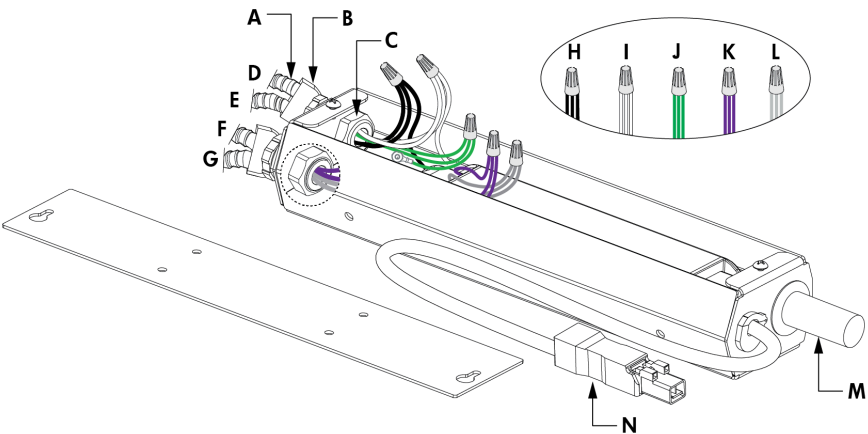
Wiring Details RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)

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

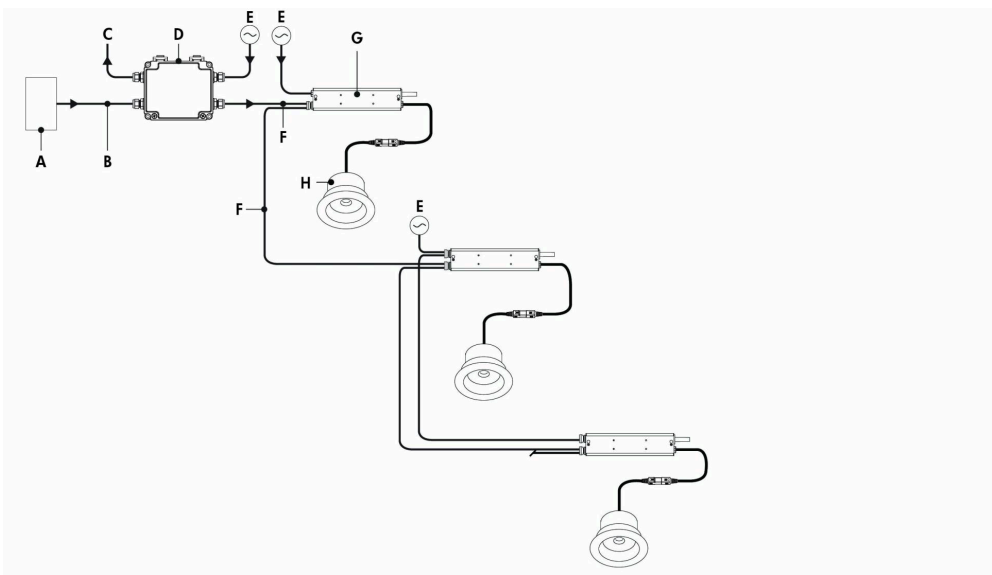


- A - Conduit (by others)
- B - Duplex connector (by others)
- C - Locknut (by others)
- D - Power Output to next luminaire
- E - Power input
- F - Data Output to next luminaire
- G - Data Input from Control System
- H - Line
- I - Neutral
- J - Ground
- K - Data +
- L - Data -
- M - Thermal protector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

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

Typical Wiring Diagrams

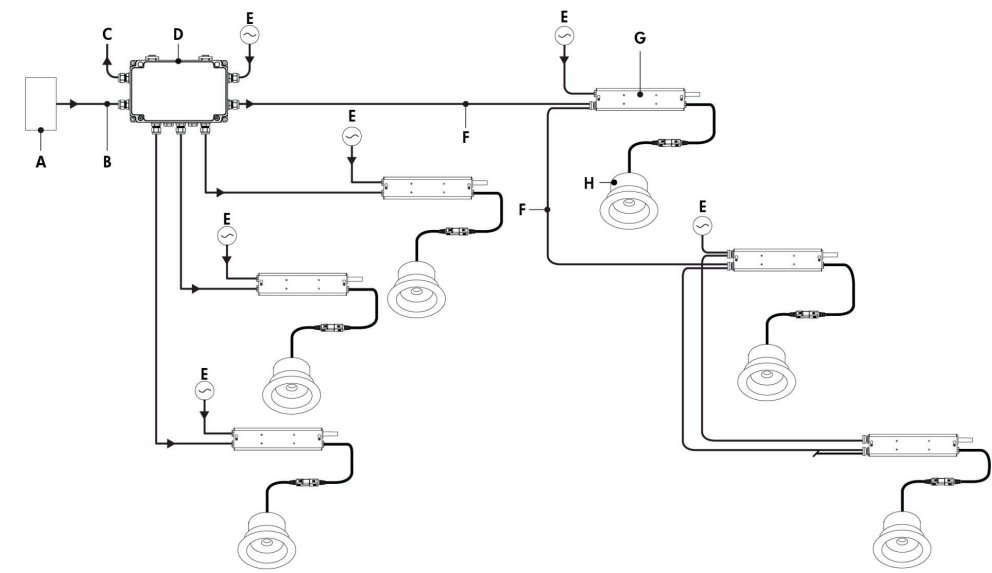
Daisy Chain Layout (DMX/RDM)



- 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.

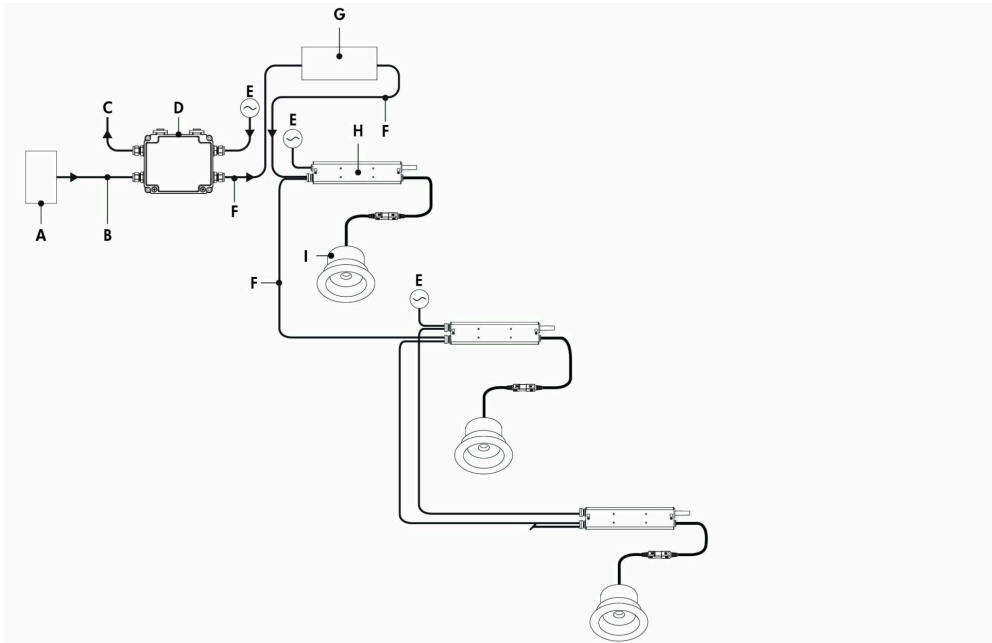
Star Layout (DMX/RDM)



- 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.

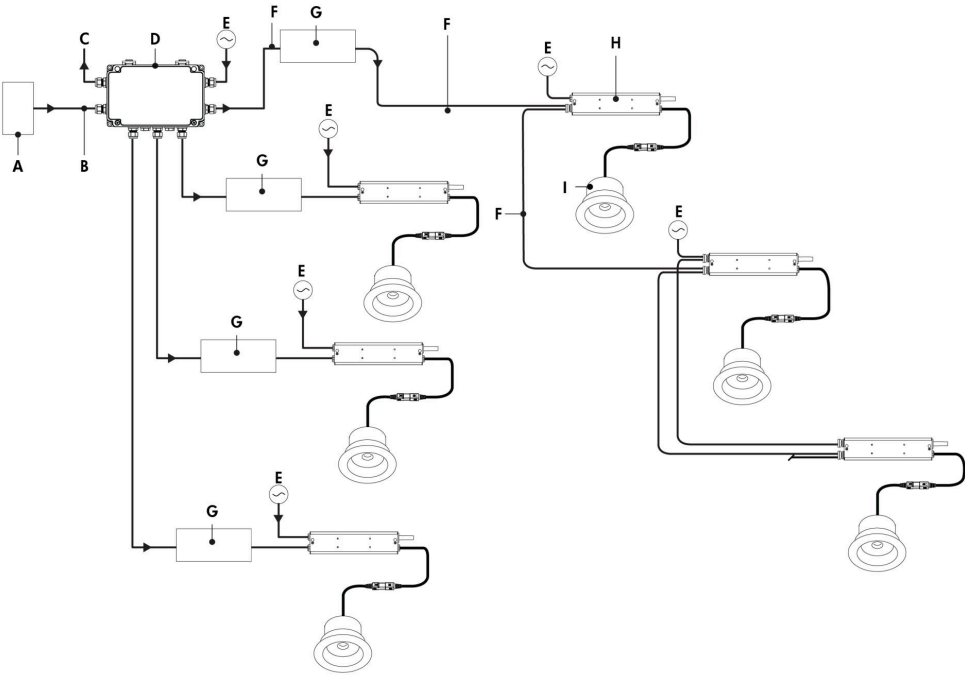
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

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.

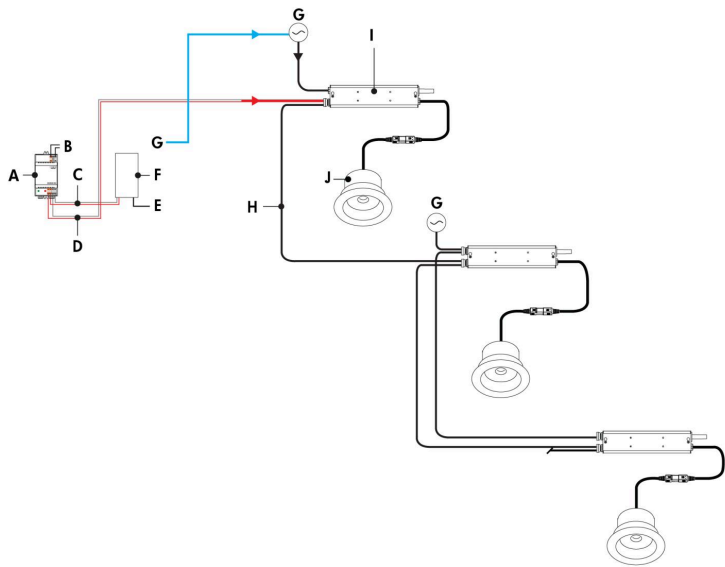
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 6 outputs per CBX-ST.

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

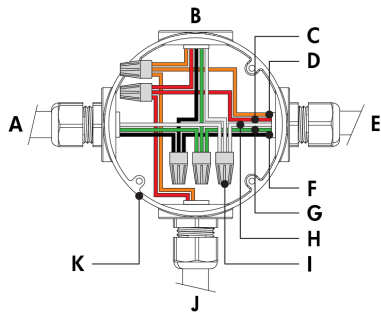
DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

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

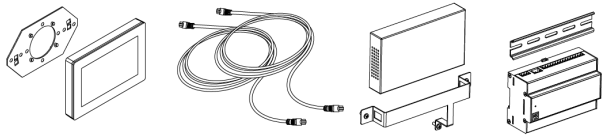


- A - Power input or from previous fixture
- B - To fixture
- C - DA +
- D - DA -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nut (by others)
- J - From DALI controller (by others)
- K - Junction box (by others)

- 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.

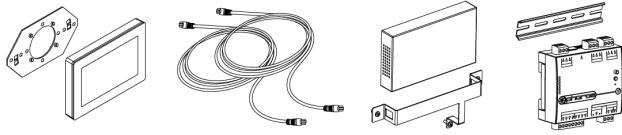
Control Systems (Order Separately)

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) ⁽⁸⁾	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⁾ ⁽¹¹⁾ ⁽¹²⁾ ⁽¹³⁾ DALI28 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 5000K.

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⁾	NKS Nickel Satin	IC New Construction Insulated Ceiling (Enclosed Box) ⁽⁸⁾			CL Clear Glass Lens
	DCH Dark Chrome	TLS Trimless Square ⁽¹⁹⁾	CC Custom Color Trim ⁽¹⁵⁾	IC/AT New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) ⁽⁸⁾			SL Softening Glass Lens
	BCH Bright Chrome		SP Special Point Source Color ⁽¹⁶⁾				PD Prismatic Diffuser ⁽²⁹⁾
	SWT Satin Wheat						LSN Linear Spread Lens Narrow (1° x 40°) ⁽³⁰⁾
	CC Custom Color Trim ⁽¹⁵⁾						LSW 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.