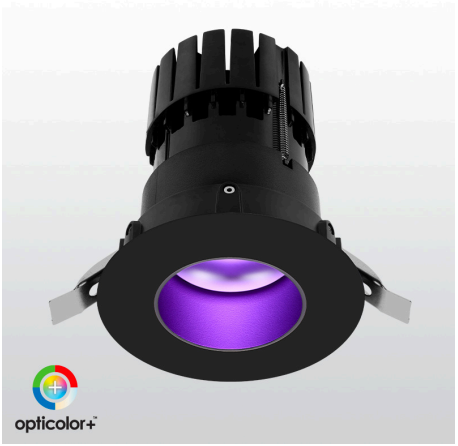
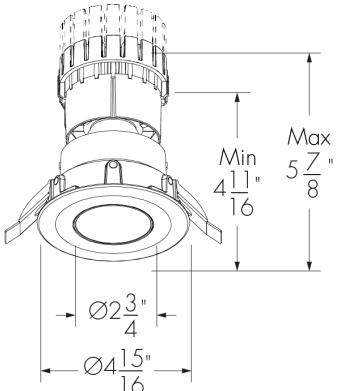
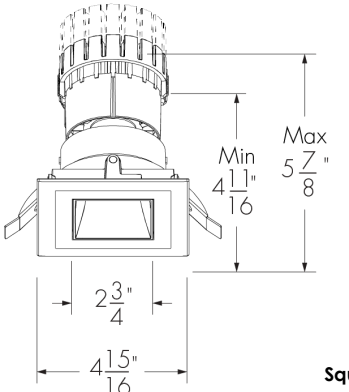
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____





Round trim
(Shown with 1 in in ceiling springs)
Round trim ceiling cutout: Ø4.5 in



Square trim
(Shown with 1 in in ceiling springs)
Square trim ceiling cutout: 4.5 in x 4.5 in

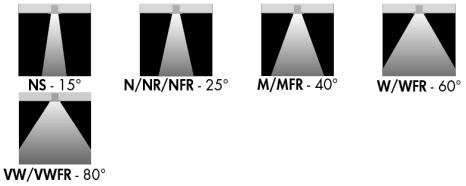
Photometric Summary

Based on Medium Faceted Reflector Optic (Nominal 40°), MRGBWP in Optidrive™ (White 3000K CRI 95+)

Nominal Output [lm]	Delivered Output [lm][1]	Insulated ceiling	Non-insulated ceiling
		Power (120V) [W]	Power (120V) [W]
700	404	11	13
1000	652	16	18
1300	898	N/A	25
2000	1,185	N/A	34

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

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

Description

The Lumencore Recessed Opticolor+ Small Pinhole 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

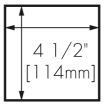
Cutout	**R:** Round, **S:** Square
Decorative Bezel	**PB:** Pinhole
Trim	**PR:** Pinhole Round, **PS:** Pinhole Square, **PSR:** Pinhole Square Trim with Round Hole
Ceiling Thickness	**1:** 0.04 in to 1 in Ceiling Thickness **2:** 1.05 in to 2 in Ceiling Thickness
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Weight	3.4 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 9 in with RM installation type, Up to 18 in x 18 in x 8 in with NC installation type Dimensions will vary by output, refer to Ceiling Requirements table for details

Color Rendering

CRI 90+

Ceiling Cutout Shapes

R - Round



S - Square

Decorative Bezel (Round Trim)

PB - Pinhole

Decorative Bezel (Square Trim)

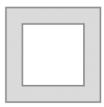
PB - Pinhole

Standard Finishes for Decorative Bezel

MBK - Matte black

Trim Shapes

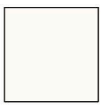
PR - Pinhole round



PS - Pinhole square

PSR - Pinhole square round hole

Standard Finishes for Trim



MWH - Matte white

MBK - Matte black

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

Emergency battery backup

Features

Output (Nominal Lumens)	**L05:** 500 lm, **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 **MRGRBWP:** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K
Optics (Nominal Distribution)	**NS:** Narrow Spot Distribution 15° **N:** Narrow Distribution 25° **NR:** Narrow Reflector 25° **NFR:** Narrow Faceted Reflector 25° **M:** Medium Reflector 40° **MFR:** Medium Faceted Reflector 40° **W:** Wide Reflector 60° **WFR:** Wide Faceted Reflector 60° **VW:** Very Wide Reflector 80° **VWFR:** Very Wide Faceted Reflector 80°
Decorative Bezel Finish	**MBK:** Matte Black
Trim Finish	**MWH:** Matte White **MBK:** Matte Black **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)
Certifications	UL compliant, RoHS
Warranty	5-year limited warranty

Performance

Delivered Output	Up to 1,185 lm Narrow Faceted Reflector Optic 25°, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 1,238 lm Narrow Faceted Reflector Optic 25°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM)
Delivered Intensity	Up to 5,410 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 5,648 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, 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)

Rating

IP20

Control

DMX/RDM

Certifications

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%

Environmental

Ingress Protection Rating	IP20
Environment	Damp location rating (interior applications 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

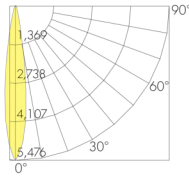
This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Photometric Information

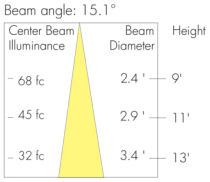
NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	**Red**	**Green**	**Blue**	**White 30K CRI 95+**	**White 40K CRI 95+**
500	360	184	301	74	356	372
700	508	196	339	74	502	525

Candlepower distribution



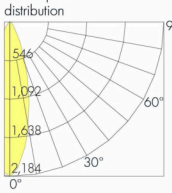
Illuminance cone
Beam angle: 15.1°



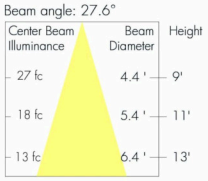
N - Narrow (Nominal 20°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	**Red**	**Green**	**Blue**	**White 30K CRI 95+**	**White 40K CRI 95+**
700	317	199	370	94	313	327
1000	511	279	505	133	505	527
1300	704	312	608	160	696	727

Candlepower distribution



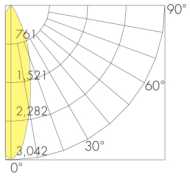
Illuminance cone
Beam angle: 27.6°



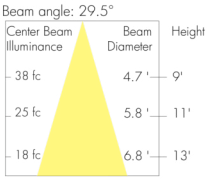
NR - Narrow Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	**Red**	**Green**	**Blue**	**White 30K CRI 95+**	**White 40K CRI 95+**
700	374	234	437	111	369	385
1000	603	328	596	157	595	622
1300	830	368	717	188	820	857
2000	1096	367	871	188	1082	1131

Candlepower distribution



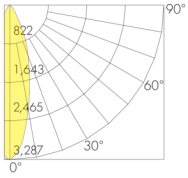
Illuminance cone
Beam angle: 29.5°



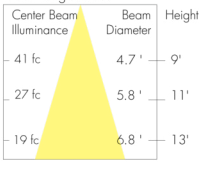
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	**Red**	**Green**	**Blue**	**White 30K CRI 95+**	**White 40K CRI 95+**
700	403	253	471	120	398	416
1000	650	355	643	170	643	671
1300	896	397	774	203	885	925
2000	1183	396	940	203	1169	1221

Candlepower distribution



Illuminance cone
Beam angle: 29.5°



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

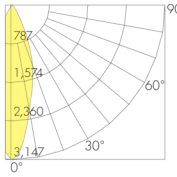
† Consult website for IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.
Consult Power Consumption section for wattage information.

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

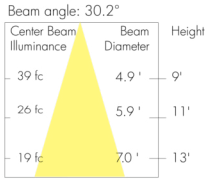
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	379	238	443	113	374	391
1000	611	333	605	160	604	631
1300	842	373	727	191	832	869
2000	1111	372	884	191	1098	1147

Candlepower distribution



Illuminance cone
Beam angle: 30.2°

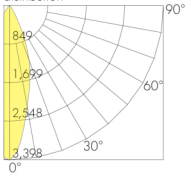


MFR - Medium Faceted Reflector (Nominal 40°), 4000K [1]

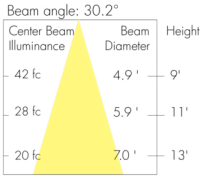
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	409	256	478	121	404	422
1000	660	360	653	172	652	681
1300	909	403	785	206	898	938
2000	1200	402	954	206	1185	1238

Candlepower distribution



Illuminance cone
Beam angle: 30.2°

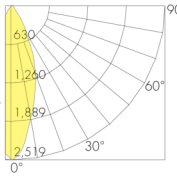


W - Wide (Nominal 60°), 4000K

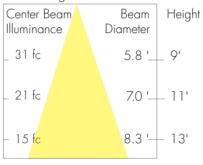
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	367	230	429	109	362	378
1000	592	322	585	154	585	611
1300	815	361	704	185	805	841
2000	1076	360	855	185	1063	1110

Candlepower distribution



Illuminance cone
Beam angle: 35.5°

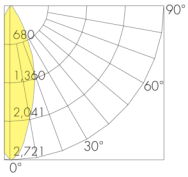


WFR - Wide Faceted Reflector (Nominal 60°), 4000K

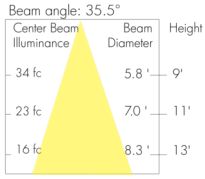
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	396	248	463	118	391	409
1000	639	348	632	167	631	659
1300	880	390	760	200	869	908
2000	1162	389	923	200	1148	1199

Candlepower distribution



Illuminance cone
Beam angle: 35.5°

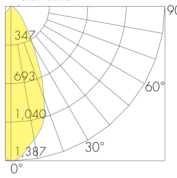


VW - Very Wide Reflector (Nominal 80°), 4000K

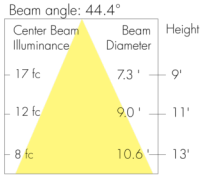
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	291	183	340	86	288	300
1000	470	256	465	123	464	485
1300	647	287	559	147	639	668
2000	854	286	679	147	844	881

Candlepower distribution



Illuminance cone
Beam angle: 44.4°

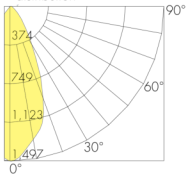


VWFR - Very Wide Faceted Reflector (Nominal 80°), 4000K

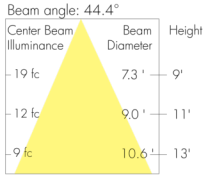
Nominal output [lm] — Delivered output [lm]†

	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	315	197	368	93	311	325
1000	507	277	502	132	501	524
1300	699	310	604	159	691	721
2000	923	309	734	159	912	952

Candlepower distribution



Illuminance cone
Beam angle: 44.4°



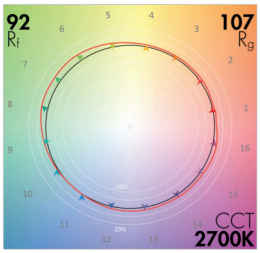
Photometric information is based on a factory-set Optidrive™ mode configuration.

† Consult website for IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.
Consult Power Consumption section for wattage information.

TM-30

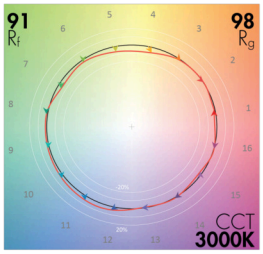
2700K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
2700K	R_a	90	92	R_f
	R_9	76	107	R_g



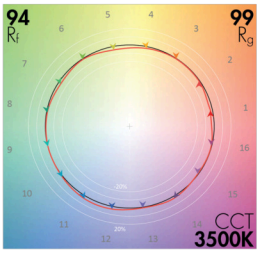
3000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3000K	R_a	96	91	R_f
	R_9	94	98	R_g



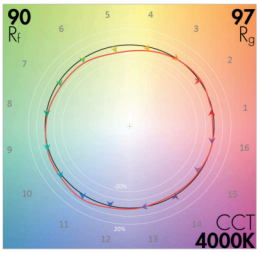
3500K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
3500K	R_a	97	94	R_f
	R_9	83	99	R_g



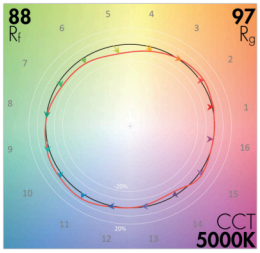
4000K - CRI 90+

CRI 90+				
CCT	CIE		TM-30	
4000K	R_a	95	90	R_f
	R_9	97	97	R_g



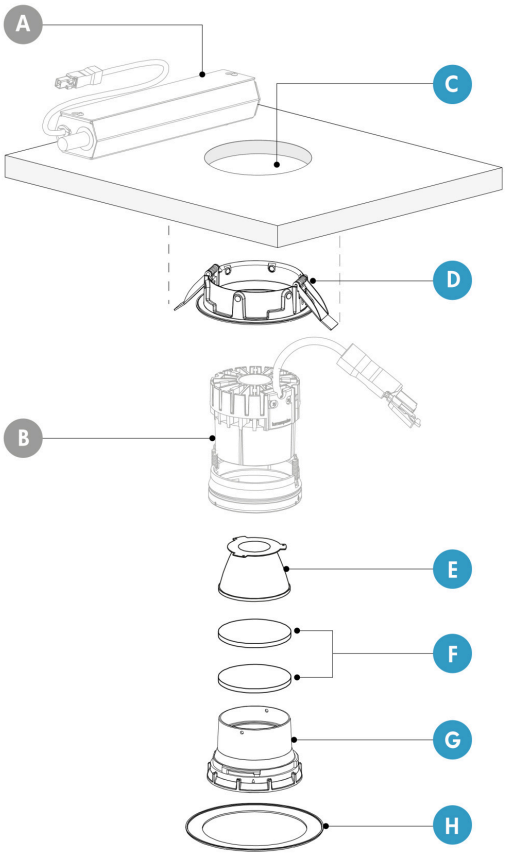
5000K - CRI 90+

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

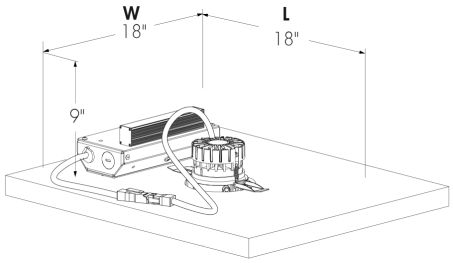
Ceiling Cavity Space Requirements (Length x Width x Height)

<table>
<tr><th rowspan="3">Installation type</th><th colspan="5">Output/Color Rendering</th></tr>
<tr><th>L05</th><th>L07</th><th>L10</th><th>L13</th><th>L20</th></tr>
<tr><th colspan="5">CRI90</th></tr>
<tr><td>RM</td><td colspan="3">11"x 11"x 7"</td><td>12"x 12"x 7"</td><td rowspan="2">18"x 18"x 9"</td></tr>
<tr><td>NC</td><td colspan="4">14"x 11"x 7"</td></tr>
<tr><td>PC/IC/ICAT</td><td colspan="2">14.5"x 10"x 7"</td><td>18"x 15"x 9"</td><td colspan="2">N/A</td></tr>
</table>

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.

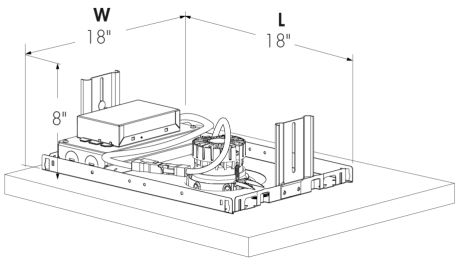
Installation Types

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



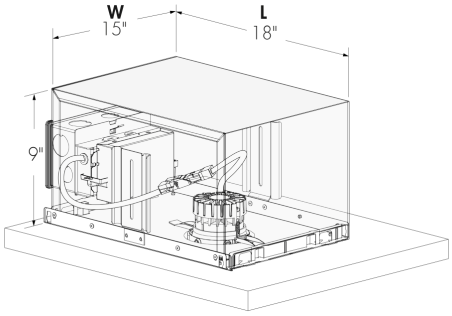
Ceiling cavity space requirements for L20 shown.

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



Ceiling cavity space requirements for L20

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

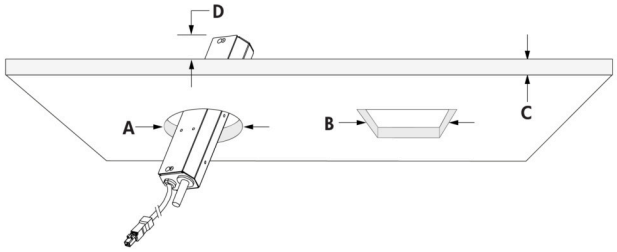


Ceiling cavity space requirements for L10 shown.

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

Ceiling Requirements

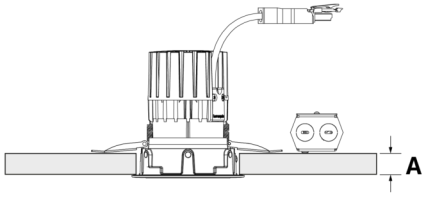
Ceiling Cutout



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

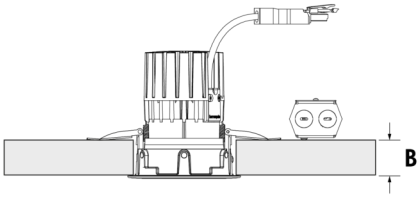
Ceiling Thickness Options

Ceiling Thickness 1



A - Ceiling thickness range: 0.04 in to 1 in

Ceiling Thickness 2

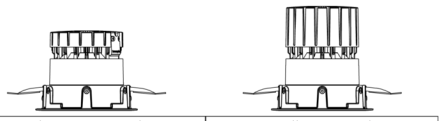


B - Ceiling thickness range: 1.05 in to 2 in

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

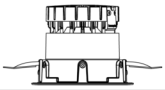
Lumen Output and Installation Type

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



	Short Heatsink	Tall Heatsink
Optic	**Lumen Output**	**Lumen Output**
NS, NSR, NSFR	L05	L07
N, NR, NFR, M, MFR, W, WFR, VW, VWFR	L07, L10, L13	L20

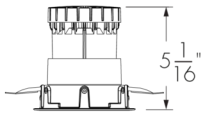
IC, PC, IC/AT - New Construction Insulated And Non-Insulated Ceiling



	Short Heatsink
Optic	**Lumen Output**
NS, NSR, NSFR	L05
N, NR, NFR, M, MFR, W, WFR, VW, VWFR	L07, L10

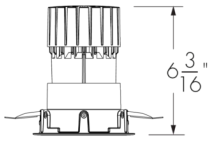
Dimensions

Short Heatsink



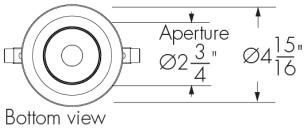
Front view

Tall Heatsink



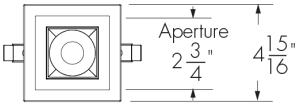
Front view

RD - Round Shape, Round Trim



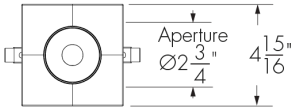
Bottom view

SQ - Square Shape, Square Trim



Bottom view

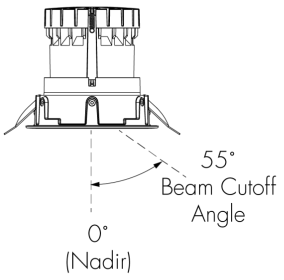
SR - Square Shape, Round Hole



Bottom view

Beam Cutoff Angle

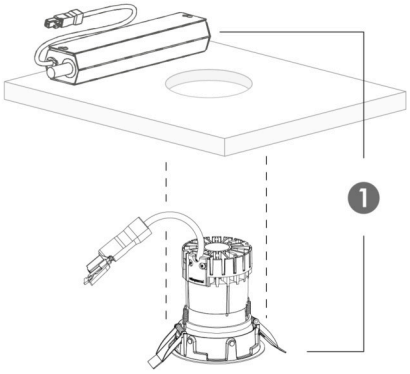
PB - Pinhole



Front view

Delivery - How it Works

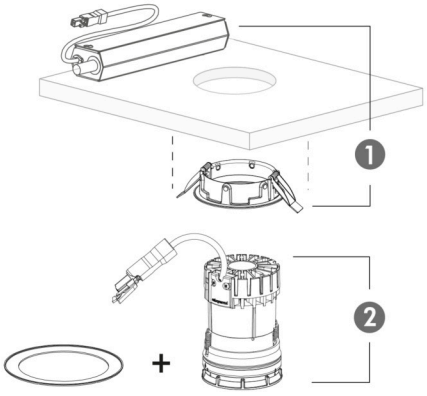
Standard Shipping (1 delivery)



Included

1. MTG kit and complete fixture assembly

Advanced Shipping of Mounting kit (2 Separate Deliveries)



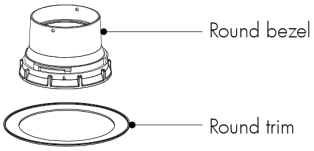
Included

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

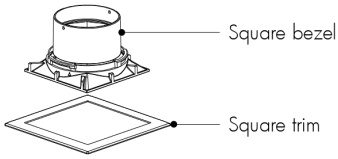
Consult factory for Advanced Shipping details.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout



SQ - Square Ceiling Cutout



Decorative Bezel Options

RD - Compatible Round Decorative Bezels

PB - Pinhole

SQ - Compatible Square Decorative Bezels

PB - Pinhole

Standard Finishes - Decorative Bezels

MBK - Matte black

Trim Shape Options

RD - Compatible Round Trim Shapes

PR - Pinhole round

PSR - Pinhole square trim with round hole

SQ - Compatible Square Trim Shapes

PS - Pinhole square

Standard Finishes - Trims

MWH - Matte white

MBK - Matte black

MSI - Matte silver

NKS - Nickel satin

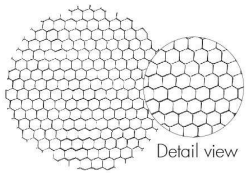
CC - Custom colour*

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

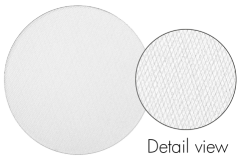


XLVR - Concentric Ring Louver

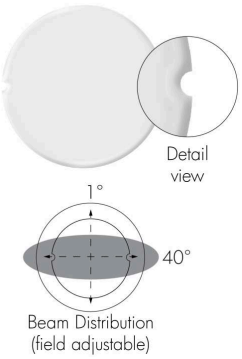
CL - Clear Glass Lens

SL - Softening Glass Lens

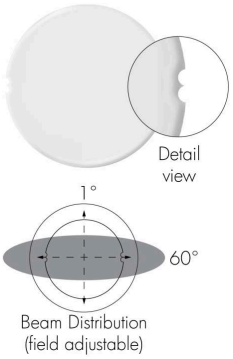
PD – Prismatic Diffuser



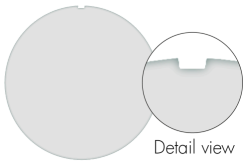
LSN - Linear Spread Lens Narrow (1° x 40°)



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

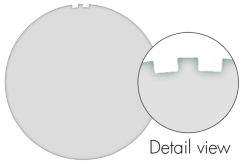


BW1 - Beam Widening Lens (+10°)



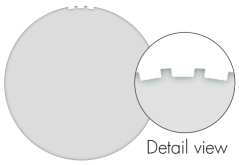
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

BW2 - Beam Widening Lens (+20°)



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

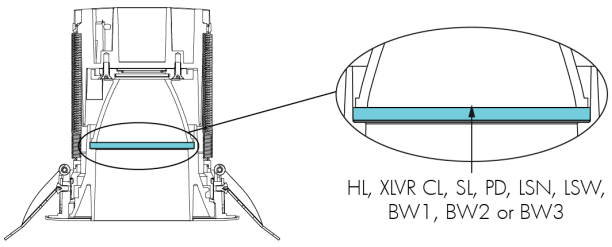
BW3 - Beam widening lens (+30°)



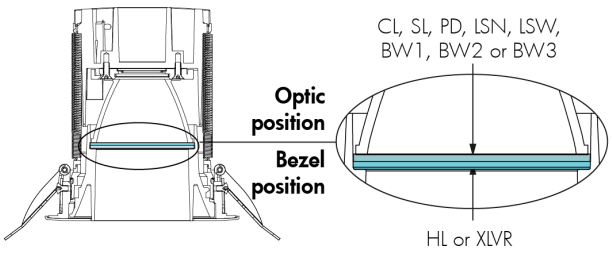
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

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 position shown above.

Optics

TIR Optic - Total Internal Reflection

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

Semi-Specular Reflector

Applicable to NR (25°), 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°	**N** 25°	**NR** 25°	**NFR** 25°	**M** 40°	**MFR** 40°	**W** 60°	**WFR** 60°	**VW** 80°	**VWFR** 80°
BW1	17°	30°	30°	30°	41°	41°	61°	61°	81°	81°
BW2	24°	34°	34°	34°	45°	45°	63°	63°	82°	82°
BW3	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°	**N** 25°	**NR** 25°	**M** 40°	**W** 60°	**VW** 80°
Interchangeable optics	N/A	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 WFR VW VWFR	N NR NFR M MFR W WFR VWFR
			NFR 25°	**MFR** 40°	**WFR** 60°	**VWFR** 80°
			N NR M MFR W WFR VW VWFR	N NR NFR M W WFR VW VWFR	N NR NFR M MFR W VW VWFR	N NR NFR M MFR W WFR VW

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

Power Consumption

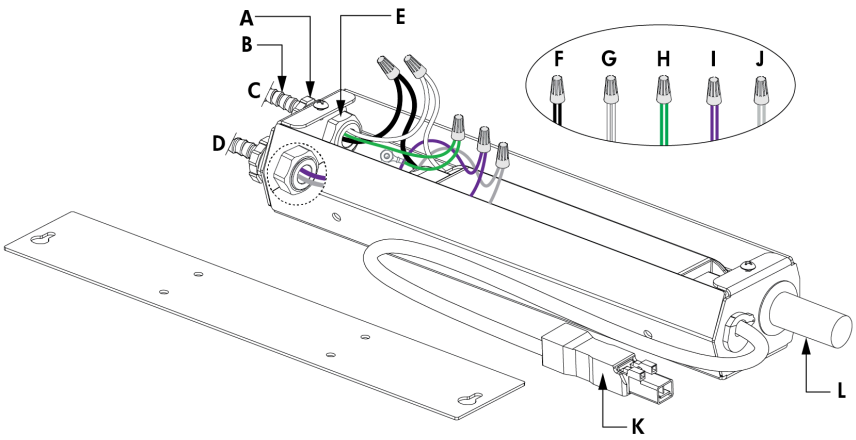
Power consumption [W]				
	NS (15°)		**N** (25°) - **NR** (25°) - **NFR** (25°) - **M** (40°) - **MFR** (40°) - **W** (60°) - **WFR** (60°) - **VW** (80°) - **VWFR** (80°)	
Output [lm]	**120 V**	**277 V**	**120 V**	**277 V**
500	16	16	N/A	N/A
700	23	23	13	13
1000	N/A	N/A	18	18
1300	N/A	N/A	25	25
2000	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.

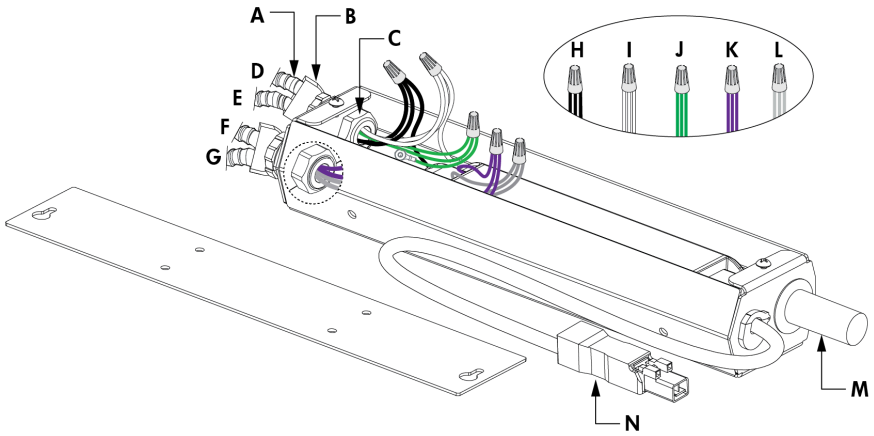
Wiring Details RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)

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

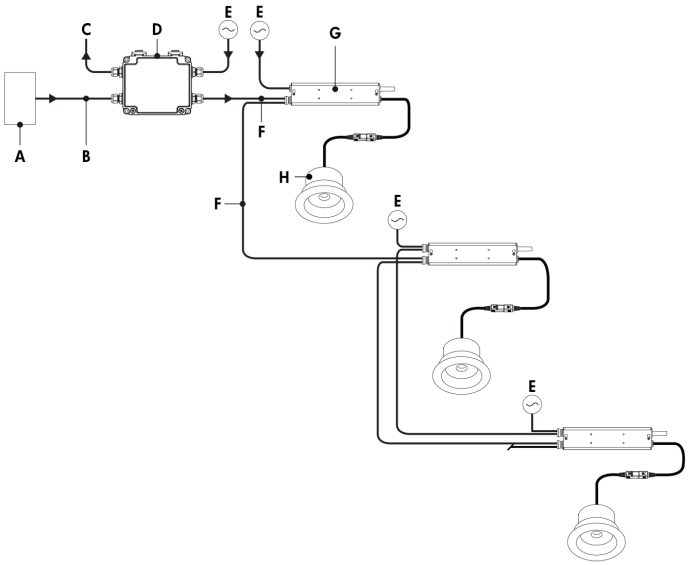


A - Conduit (by others)
B - Duplex connector (by others)
C - Locknut (by others)
D - Power Output to next luminaire
E - Power input
F - Data Output to next luminaire
G - Data Input from Control System
H - Line
I - Neutral
J - Ground
K - Data +
L - Data -
M - Thermal protector
N - Output to luminaire

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

Typical Wiring Diagrams

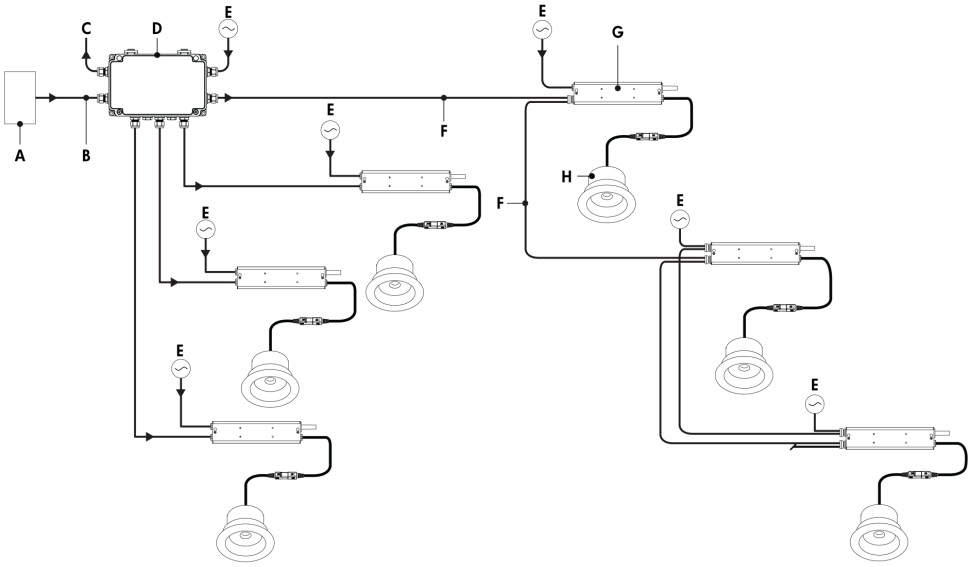
Daisy Chain Layout (DMX/RDM)



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.

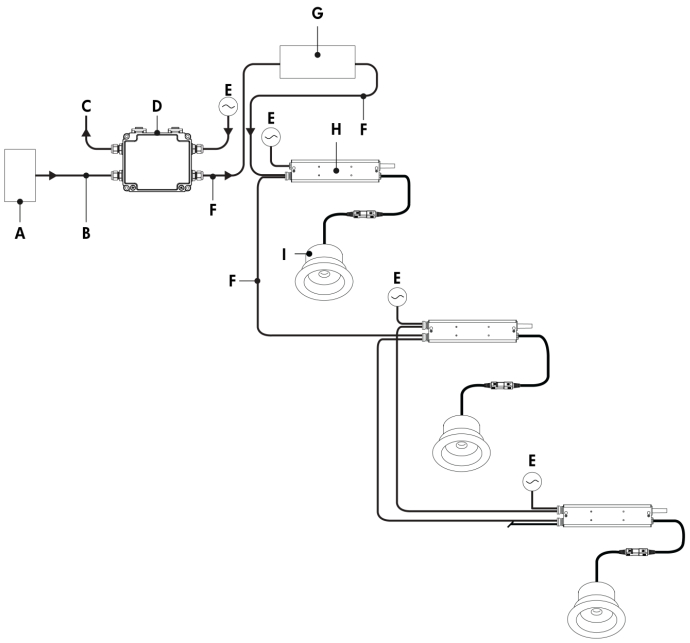
Star Layout (DMX/RDM)



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



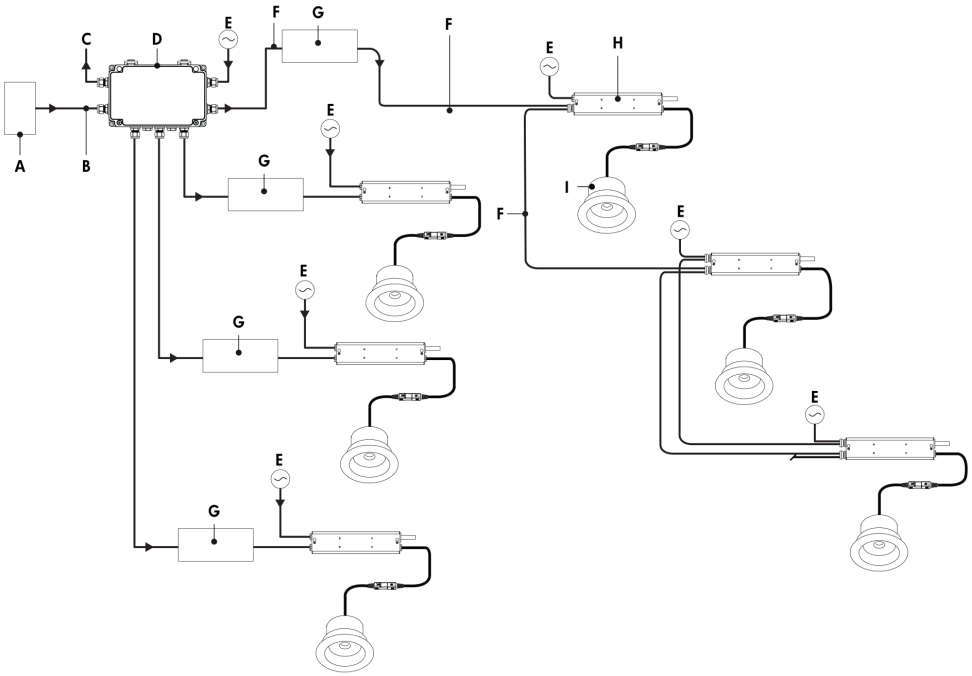
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V AC, emergency circuit or inverter, wiring by others)
F - Data cable (Belden 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)
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The wiring configuration shown is an example and may vary depending on the emergency backup power system selected.

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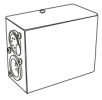
Maximum of 6 outputs per CBX-ST.
Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.
DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

Diagnostic And Addressing Tools (Order Separately)

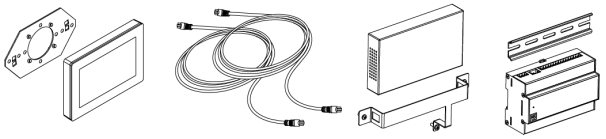
LID - LumenID



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.

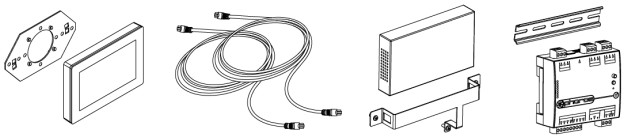
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



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

EXPERT - Pharos® Expert Control Kit



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

How to Order

Housing [1]	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Color and Color Temperature [5]	Color Rendering	Optics (Nominal Distribution)	Control
LCRS Lumencore Recessed Small - 4 in	**A** UL/cUL	**P** Pinhole	**120** 120 Volts **277** 277 Volts	**R** Round **S** Square	**L05** 500 lm [2] **L07** 700 lm **L10** 1000 lm [3] **L13** 1300 lm [3] **L20** 2000 lm [4]	**MRGBWP** Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K [6] [7] **MRGRBWP** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K [7] [8]	**90** CRI 90+ (White Light Only) [6]	**NS** Narrow Spot Distribution 15° [9] **N** Narrow Distribution 25° [10] **NR** 25˚ Reflector **NFR** 25˚ Faceted Reflector **M** 40˚ Reflector **MFR** 40˚ Faceted Reflector **W** 60˚ Reflector [11] **WFR** 60˚ Faceted Reflector [11] **VW** 80˚ Reflector [11] **VWFR** 80˚ Faceted Reflector [11]	**DMX/RDM** DMX/RDM Enabled Dimming 0.1% [12] [13] [14] [15]

Notes:

1. Refer to website product configurator for all exceptions.
2. Available for NS optic only.
3. Available for N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
4. Available for NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
5. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
6. CRI 90 applies only to white light color temperatures from 2700K to 5000K.
7. 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.
8. CRI 90 applies only to white light color temperatures from 2700K to 6500K.
9. Available up to 700 lumens.
10. Available up to 1300 lumens.
11. Beam angle will be affected by the Pinhole bezel. Consult factory for details.
12. Configurable between 8 or 16-bit dimming control via RDM. DMX/RDM requires LumenID, LumenID software and onsite commissioning.
13. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.
14. Consult the Lumencore Recessed Opticolor+™ Brochure for details.
15. Configurable to 3, 4, or 5 channel control via RDM in the field.

How to Order

Decorative Bezel	Decorative Bezel Finish	Trim	Trim Finish	Installation Type	Ceiling Thickness [25]	Accessories [26]
PB Pinhole	**MBK** Matte Black	**PR** Pinhole Round [16] **PS** Pinhole Square [17] **PSR** Pinhole Square Trim with Round Hole [16]	**MWH** Matte White **MBK** Matte Black **MSI** Matte Silver **NKS** Nickel Satin **CC** Custom Color Trim [18] **SP** Special Point Source Color [19]	**RM** Remodel Non-Insulated Ceiling (Non-Plenum Rated) [20] [21] [22] **NC** New Construction Non-Insulated Ceiling (Non-Plenum Rated) [20] [21] [22] **PC** Plenum Non-Insulated Ceiling (Enclosed Box) [23] [24] **IC** New Construction Insulated Ceiling (Enclosed Box) [23] [24] **IC/AT** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) [23] [24]	**1** 0.04 in to 1 in Ceiling Thickness **2** 1.05 in to 2 in Ceiling Thickness	**NA** No Accessory **HL** Honeycomb Louver **XLVR** Concentric Ring Louver [2] [27] **CL** Clear Glass Lens **SL** Softening Glass Lens **PD** Prismatic Diffuser [28] **LSN** Linear Spread Lens Narrow (1° x 40°) [29] **LSW** Linear Spread Lens Wide (1° x 60°) [29] **BW1** Beam Widening Lens (+10°) [29] **BW2** Beam Widening Lens (+20°) [29] **BW3** Beam Widening Lens (+30°) [29]

Notes:

2. Available for NS optic only.
16. Cannot be combined with square ceiling cutout.
17. Cannot be combined with round ceiling cutout.
18. Longer lead times can be expected for custom RAL color finishes.
19. Refer to Cylinder specification sheet and brochure for color options.
20. Available up to 700 lumens when combined with NS optic.
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. Available for 500 lumens when combined with NS optic.
24. Available up to 1000 lumens when combined with N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics.
25. Ceiling springs are field changeable, consult factory and installation instructions for details.
26. Maximum two accessories per fixture.
27. Can be combined with PD accessory only.
28. Recommended to be combined with HL or XLVR accessory only.
29. For optimal performance, it is not recommended to mix with other accessories.