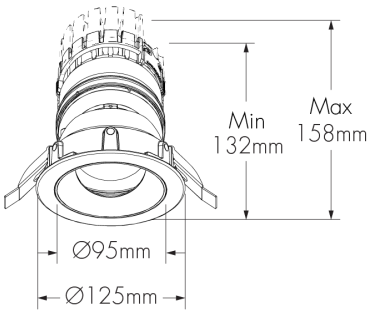


Project Name

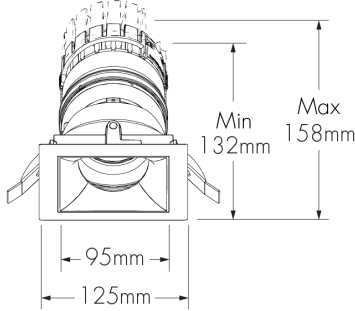
Qty

Type

Catalog / Part Number



Round trim
(Shown with 25 mm ceiling springs)
Round trim ceiling cutout: Ø114 mm



Square trim
(Shown with 25 mm in ceiling springs)
Square trim ceiling cutout: 114 mm x 114 mm

Photometric Summary

Based on Medium Faceted Reflector Optic (Nominal 40°), MRGBWP in Optidrive™ (White 3000K 96 CRI)

Nominal Output [lm]	Delivered Output [lm] ^[1]	Power (120V) [W]	Efficacy [lm/W]
700	365	11	33
1000	589	16	37
1300	811	23	35
2000	1,071	32	33

[1] Consult website for latest LTD files.

Optics



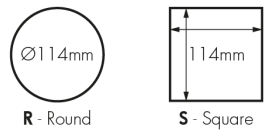
Colour and Colour Temperature



Colour Rendering

CRI
90+

Ceiling Cutout Shapes



Description

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

Physical

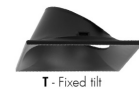
Cutout	R: Round, S: Square
Decorative Bezel	Fixed Tilt (0° rotation, factory set 30° tilt), LED can be fully adjustable behind the bezel
Trim	RD: Round, TLR: Trimless Round, SQ: Square, SR: Square Trim with Round Hole, TLS: Trimless Square
Ceiling Thickness	1: 1 mm to 25 mm Ceiling Thickness 2: 27 mm to 51 mm Ceiling Thickness
Housing Material	Aluminium
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminium
Weight	1.72 kg with external re-model box wired to luminaire (DMX/RDM control) (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 305 mm x 305 mm x 227 mm for external re-model box wired to luminaire Dimensions will vary by output, refer to Ceiling Requirements table for details
Features	
Output (Nominal Lumens)	L05: 500 lm, L07: 700 lm, L10: 1000 lm, L13: 1300 lm, L20: 2000 lm
Colour and Colour Temperature	MRGBWP: MRGBW With Opticolor+ (Red, Green, Blue, Plus White Settable Range 22K to 65K CRI 90+)

Decorative Bezel (Round Trim)



T - Fixed tilt

Decorative Bezel (Square Trim)



T - Fixed tilt

Standard Finishes - Decorative Bezels

		
MWH - Matte white	MBK - Matte black	NKS - Nickel satin
		
DCH - Dark chrome	BCH - Bright chrome	SWT - Satin wheat
		
CPG - Champagne Gold	CC - Custom colour and finish (specify 4-digit RAL K7 colour)	SP - Special colour (choose from colour palette in complete specification sheet)

Trim Shapes

		
RD - Round	SQ - Square	SR - Square round hole
		
TLR - Trimless round	TLS - Trimless square	

Standard Finishes for Trim

		
MWH - Matte white	MBK - Matte black	NKS - Nickel satin
		
CC - Custom colour and finish (specify 4-digit RAL K7 colour)	SP - Special colour (choose from colour palette in complete specification sheet)	

Adjustability



30° fixed tilt

T - Fixed tilt decorative bezel

Optics (Nominal Distribution)	NS: Narrow Spot Distribution 15° N: Narrow Distribution 25° NR: Narrow Reflector 25° NFR: Narrow Facetted Reflector 25° M: Medium Reflector 40° MFR: Medium Facetted Reflector 40°
Decorative Bezel Finish	MWH: Matte White MBK: Matte Black NKS: Nickel Satin DCH: Dark Chrome BCH: Bright Chrome SWT: Satin Wheat CPG: Champagne Gold CC: Custom colour Trim (specify 4-digit RAL K7 colour) SP: Special colour (choose from colour palette in complete specification sheet)
Trim Finish	MWH: Matte White MBK: Matte Black NKS: Nickel Satin CC: Custom colour Trim (specify 4-digit RAL K7 colour) SP: Special colour (choose from colour palette in complete specification sheet)
Certifications	CE compliant, RoHS
Warranty	5-year limited warranty
Performance	
Delivered Output	Up to 1,071 lm Medium Facetted Reflector Optic 40°, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 1,118 lm Medium Facetted Reflector Optic 40°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM)
Delivered Intensity	Up to 4,411 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 4,605 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM)
Colour Consistency	3 SDCM (in white light colour temperatures)
Colour Rendering	90: CRI 90+ (White Light Only)
Lumen Maintenance	L95 55,000 hrs (Ta 25 °C)
Electrical and Control	
Voltage	220/240: 220-240 volts
Wattage Range	11W to 32W (wattage will vary based on voltage, output and optic, refer to Power Consumption table for details)
Control	DMX/RDM: DMX/RDM (Configurable to 3, 4, or 5 channel control via RDM in the field)
Environmental	
Ingress Protection Rating	IP20
Operating Temperature (Ceiling Cavity Ambient Temperature)	-20 °C to 40 °C

Rating

IP20

Control

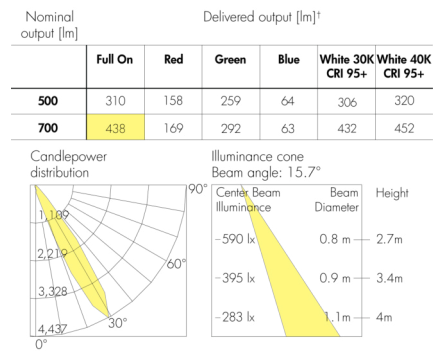
DMX/RDM

Certifications

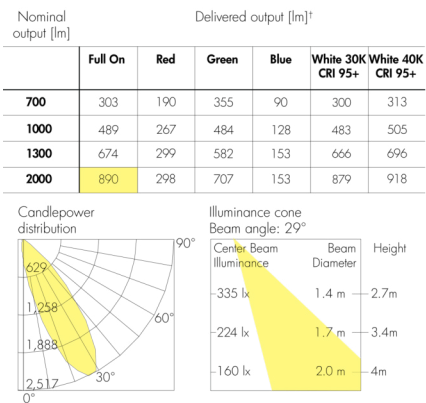


Photometric Information

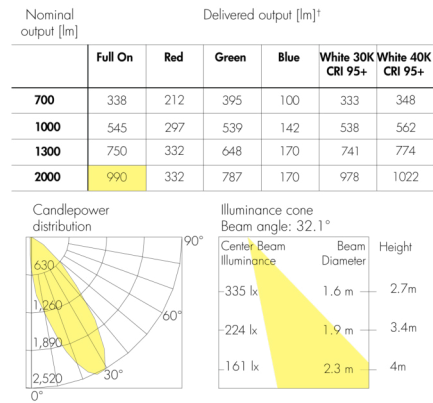
NS - Narrow Spot (Nominal 15°), 4000K



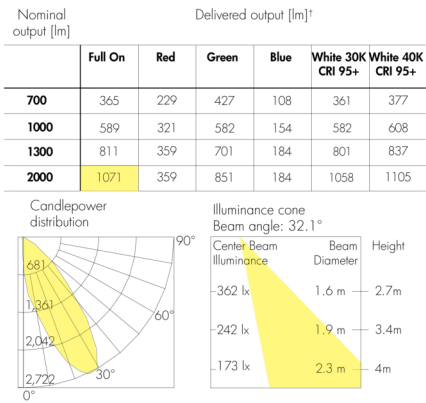
N - Narrow (Nominal 25°), 4000K



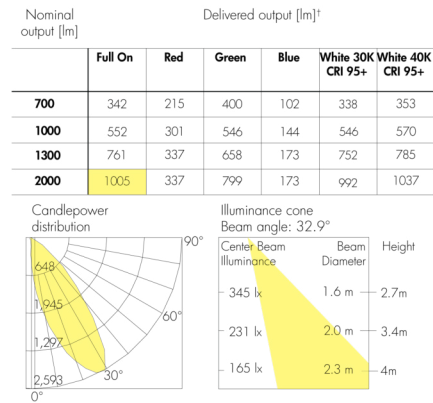
NR - Narrow Reflector (Nominal 25°), 4000K



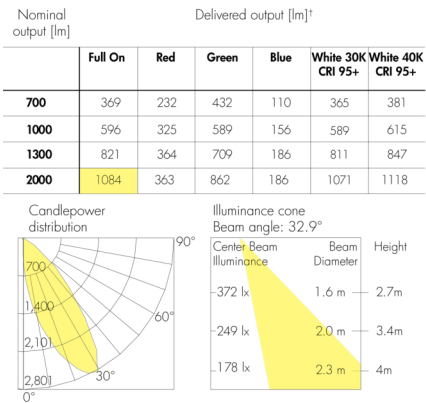
NFR - Narrow Facetted Reflector (Nominal 25°), 4000K



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



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

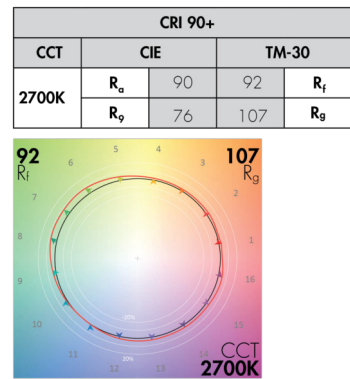


Photometric information is based on a factory-set Optidrive™ mode configuration.

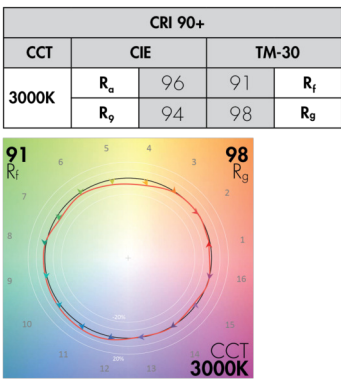
† Consult website for LDT files. Delivered output: +/- 10% tolerance.
Consult Power Consumption section for wattage information.

TM-30

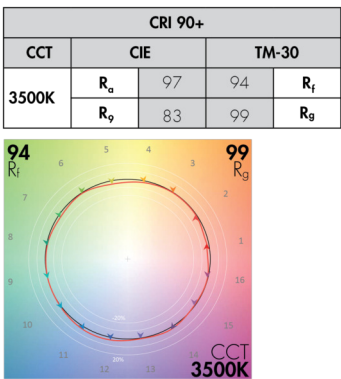
2700K - CRI 90+



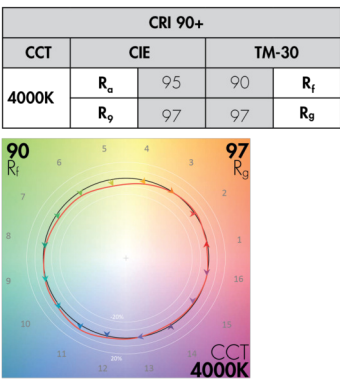
3000K - CRI 90+



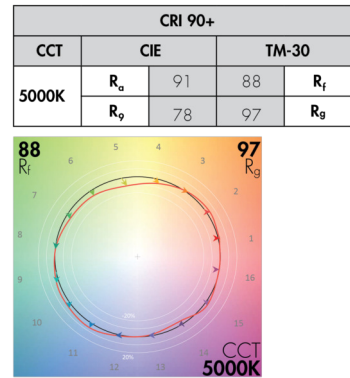
3500K - CRI 90+



4000K - CRI 90+

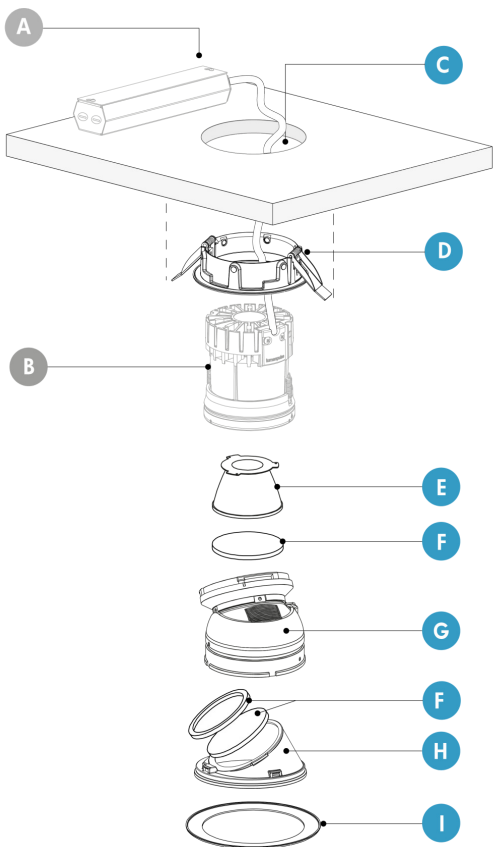


5000K - CRI 90+



Refer to TM-30 Reference Guide for details.

Exploded Overview - Part Selection



Standard Parts

A - Ceiling driver box
B - Lumencore body (heatsink, universal fixing ring, LED module)

Customizable Parts

C - Ceiling cutout shape (round or square)
D - Ceiling mounting ring (round or square, based on ceiling cutout selection)
E - Optic*
F - Optical accessory and accessory holder (up to two optical accessories can be combined in the fixture, position will vary by accessory type)**
G - Adjustable mechanism
H - Fixed tilt decorative bezel
I - Trim (round or square, based on ceiling ring selection)

* Optic is field changeable. Consult Interchangeable Optics section of the specification sheet for details. Consult factory for ordering details.
**Field changeable, consult installation instructions for details. Consult factory for ordering details.

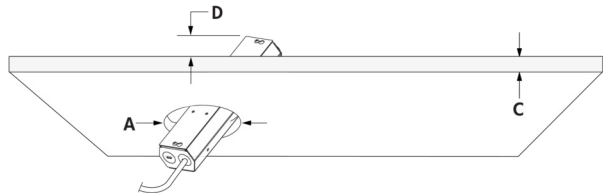
Ceiling Requirements

Ceiling Cavity Space Requirements (Length x Width x Height)

Installation type	Control	Output/Colour Rendering				
		L05	L07	L10	L13	L20
External re-model box wired to luminaire	DMX/RDM	CR90				
		305mm x 305mm x 227mm				

See Installation Type section for dimensional view of keep out and/or MTG mounting kit option.
Above dimensions include any keep out requirements for proper airflow and thermal cooling.

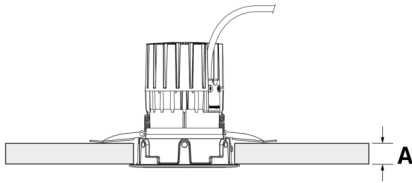
Ceiling Cutout



- A - Ceiling cutout: Ø114 mm
- B - Ceiling cutout: 114 mm x 114 mm
- C - Maximum ceiling thickness: 51 mm
- D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table

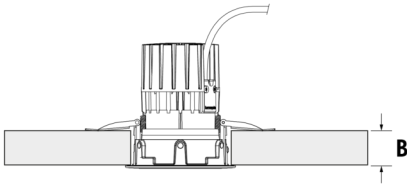
Ceiling Thickness Options

Ceiling Thickness 1



A - Ceiling thickness range: 1 mm to 25 mm

Ceiling Thickness 2



B - Ceiling thickness range: 27 mm to 51 mm

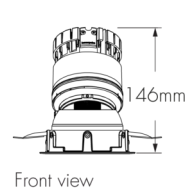
Ceiling springs are field changeable, consult installation instructions and factory for details.

Lumen Output and Heatsink Height

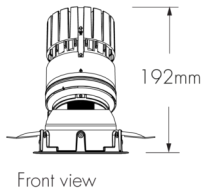
Optic	Short Heatsink	Tall Heatsink
	Lumen Output	
NS, NSR, NSFR	L05	L07
N, NR, NFR, M, MFR, VV, VVFR, VVV, VVVFR	L07, L10, L13	L20

Dimensions

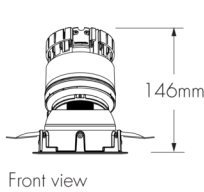
T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt)
Short model



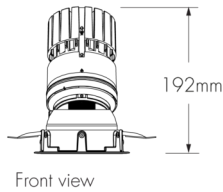
T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt)
Tall model



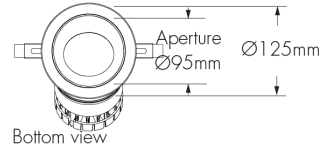
T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt, Trimless Version)
Short model



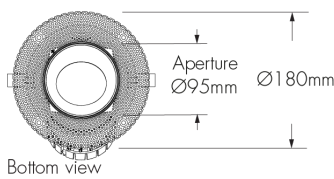
T - Fixed Tilt (0° Rotation, Factory Set 30° Tilt, Trimless Version)
Tall model



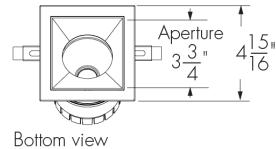
RD - Round Shape, Round Trim



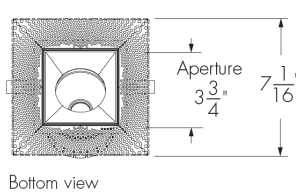
TLR - Trimless Round



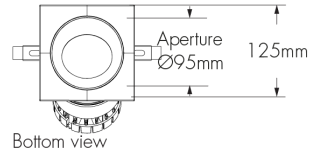
SQ - Square Shape, Square Trim



TLS - Trimless Square

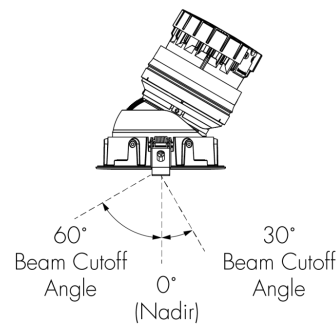


SR - Square Shape, Round Hole

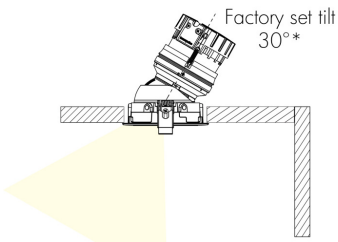


Beam Cutoff Angle

T - Fixed Tilt



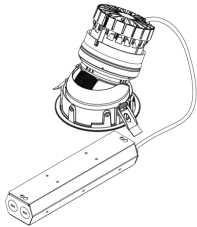
Tilt



*Field adjustable from 0° to 40°, see installation instructions for details.

Configurations

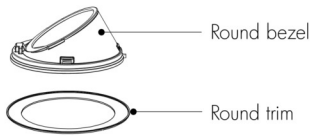
MRGBWP



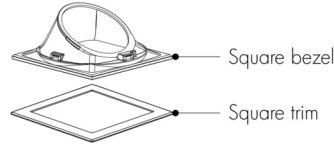
External re-model box wired to luminaire.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout



SQ - Square Ceiling Cutout



Decorative Bezel Options

RD - Compatible Round Decorative Bezels



T - Fixed tilt

SQ - Compatible Square Decorative Bezels



T - Fixed tilt

Standard Finishes - Decorative Bezels



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



DCH - Dark chrome



BCH - Bright chrome



SWT - Satin wheat



CPG - Champagne Gold



CC - Custom colour*



SP - Special colour**

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

**Special colour: choose one of the colours from the special colours palette for decorative bezels and trims. 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



NKS - Nickel satin



CC - Custom colour*



SP - Special colour**

*Custom colour: specify 4-digit RAL K7 colour.
**Special colour: choose one of the colours from the special colours palette for decorative bezels and trims. Contact manufacturer for additional information.

SP - Special Colours (Palette For Decorative Bezels and Trims)



MBR - Matte brown



MOR - Matte orange



MGR - Matte green



MBL - Matte blue



MSI - Matte silver



GWH - Glossy white



GBK - Glossy black



GYL - Glossy yellow



GLR - Glossy red



GVI - Glossy violet



GGR - Glossy green



GIY - Glossy ivory



CGY - Concrete grey



MLG - Metalized grey



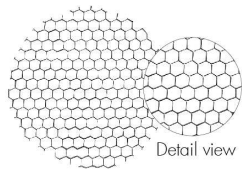
IBR - Italian brick red



PWH - Parget white

Optical Accessories

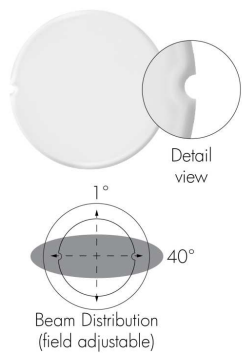
HL - Honeycomb Louver



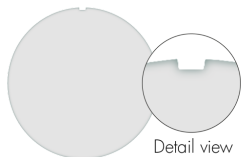
SL - Softening Glass Lens



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

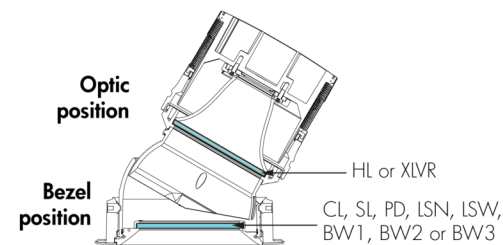


BW1 - Beam Widening Lens (+10°)



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

Optical Accessories - Installation Options (Field Changeable)



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°) and M (40°) distributions.

Facetted Reflector



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

Beam Widening Lenses

	Optic installed in fixture					
	NS 15°	N 25°	NR 25°	NFR 25°	M 40°	MFR 40°
BW1	17°	30°	30°	30°	41°	41°
BW2	24°	34°	34°	34°	45°	45°
BW3	33°	41°	41°	41°	50°	50°

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°	NFR 25°	M 40°	MFR 40°
Interchangeable optics	N/A	NR NFR M MFR	N NFR M MFR	N NR M MFR	N NR NFR MFR	N NR NFR M

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

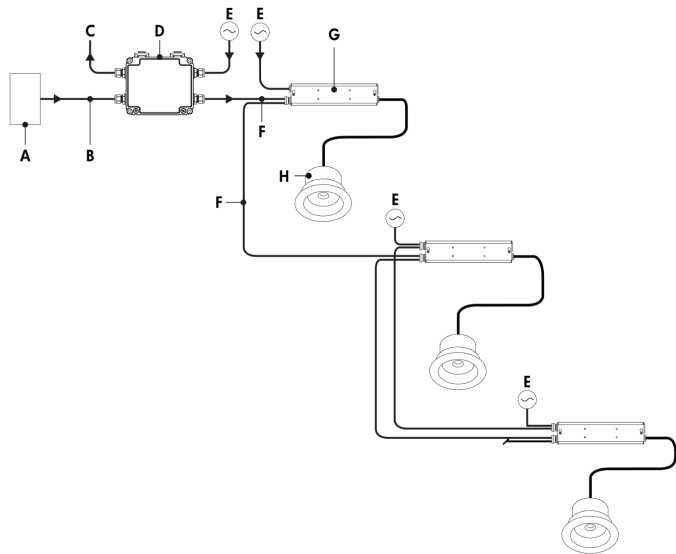
Power Consumption

Power consumption [W]		
Output [lm]	NS (15°)	N (25°) - NR (25°) - NFR (25°) - M (40°) - MFR (40°)
500	14	N/A
700	21	11
1000	N/A	16
1300	N/A	23
2000	N/A	32

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

Typical Wiring Diagrams

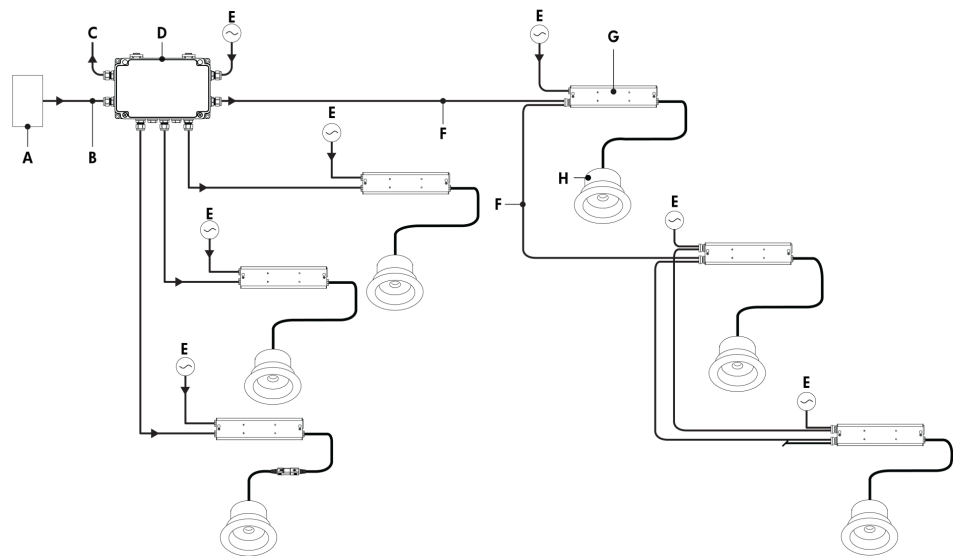
Daisy Chain Layout (DMX/RDM)



- 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 (220-240V AC, wiring by others)
- F - Data cable (Belden 9841 or equivalent, by others)
- G - Driver box (wired to fixture)
- 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 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 (220-240V AC, wiring by others)
- F - Data cable (Belden 9841 or equivalent, by others)
- G - Driver box (wired to fixture)
- 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 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.

How to Order

Housing ⁽¹⁾	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Colour and Colour Temperature	Colour Rendering	Optics (Nominal Distribution)	Control	Decorative Bezel	Decorative Bezel Finish
LCRS Lumencore Recessed Small - 102 mm	B CE	FT Fixed Tilt	220/240 220-240 volts	R Round S Square	L05 500 lm ⁽²⁾ L07 700 lm L10 1000 lm ⁽³⁾ L13 1300 lm ⁽³⁾ L20 2000 lm ⁽³⁾	MRGBWP MRGBW With Opticolor+ ⁽⁴⁾	90 CRI 90+ (White Light Only) ⁽⁴⁾	NS Narrow Spot Distribution 15° ⁽⁵⁾ N Narrow Distribution 25° NR Narrow Reflector 25° NFR Narrow Facetted Reflector 25° M Medium Reflector 40° MFR Medium Facetted Reflector 40°	DMX/RDM DMX/RDM (Configurable to 3, 4, or 5 channel control via RDM in the field) ⁽⁶⁾ ⁽⁷⁾ ⁽⁸⁾	T Fixed Tilt (0° rotation, factory set 30° tilt)	MWH Matte White MBK Matte Black NKS Nickel Satin DCH Dark Chrome BCH Bright Chrome SWT Satin Wheat CPG Champagne Gold ⁽⁹⁾ CC Custom Colour Trim ⁽¹⁰⁾ SP Special colour (choose from colour palette in complete specification sheet) ⁽¹¹⁾

- Notes:
1. Refer to website product configurator for all exceptions.

2. Available for NS optic only.

3. Available for N, NR, NFR, M and MFR optics only.

4. CRI 90 applies only to white light colour temperatures from 2700K to 5000K.

5. Available up to 700 lumens.

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

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

8. Consult the Lumencore Recessed Opticolor+™ Brochure for details.

9. Coming soon, consult factory for details.

10. Longer lead times can be expected for custom RAL colour finishes.

11. Please specify colour from special colour palette on Lumencore specification sheets.

How to Order

Trim	Trim Finish	Ceiling Thickness	Accessories ⁽¹⁴⁾
RD Round ⁽¹²⁾ TLR Trimless Round ⁽¹²⁾ SQ Square ⁽¹³⁾ SR Square Trim with Round Hole ⁽¹²⁾ TLS Trimless Square ⁽¹³⁾	MWH Matte White MBK Matte Black NKS Nickel Satin CC Custom Colour Trim ⁽¹⁰⁾ SP Special colour (choose from colour palette in complete specification sheet) ⁽¹¹⁾	1 1 mm to 25 mm Ceiling Thickness 2 27 mm to 51 mm Ceiling Thickness	NA No Accessory HL Honeycomb Louver XLVR Concentric Ring Louver ⁽¹⁵⁾ CL Clear Glass Lens SL Softening Glass Lens PD Prismatic Diffuser ⁽¹⁶⁾ LSN Linear Spread Lens Narrow (1° x 40°) ⁽¹⁷⁾ LSW Linear Spread Lens Wide (1° x 60°) ⁽¹⁷⁾ BW1 Beam Widening Lens (+10°) ⁽¹⁷⁾ BW2 Beam Widening Lens (+20°) ⁽¹⁷⁾ BW3 Beam Widening Lens (+30°) ⁽¹⁷⁾

Notes:

10. Longer lead times can be expected for custom RAL colour finishes.

11. Please specify colour from special colour palette on Lumencore specification sheets.

12. Cannot be combined with square ceiling cutout.

13. Cannot be combined with round ceiling cutout.

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

15. Can be combined with PD accessory only.

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

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