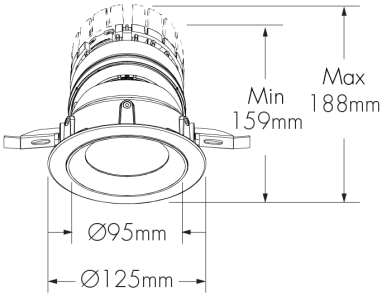


Project Name

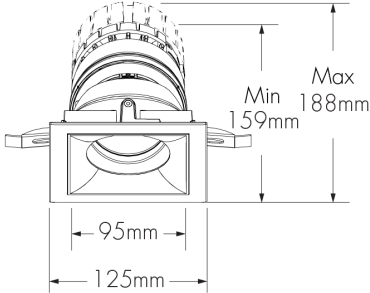
Qty

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	429	11	39
1000	691	16	43
1300	952	23	41
2000	1,257	32	39

[1] Consult website for latest LTD files.

Optics



Colour and Colour Temperature



Colour Rendering

CRI	CRI	CRI
80+	90+	95+

Control

DMX/RDM

Description

The Lumencore Recessed Opticolor+ Small Adjustable 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. The luminaire can be rotated from 0°-358° and tilted 0°-40°.

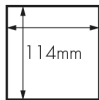
Physical

Cutout	R: Round, S: Square
Decorative Bezel	ADB: Adjustable (0°- 358° rotation, 0°-40° tilt)
Trim	RD: Round, TLR: Trimless Round, SQ: Square, SR: Square Trim with Round Hole, TLS: Trimless Square
Ceiling Thickness	1: 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+)

Ceiling Cutout Shapes



R - Round



S - Square

Decorative Bezel (Round Trim)



ADB - Adjustable

Decorative Bezel (Square Rim)

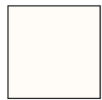


ADB - Adjustable

Colour Rendering

CRI
90+

Standard Finishes - Decorative Bezels



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



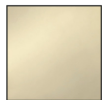
DCH - Dark chrome



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

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 1,257 lm
Medium Facetted Reflector Optic 40°, MRGBWP
Optidrive™ Enabled (White 3000K 95+ CRI, DMX/RDM, 0° tilt)
Up to 1,313 lm
Medium Facetted Reflector Optic 40°, MRGBWP
Optidrive™ Enabled (White 4000K 95+ CRI, DMX/RDM, 0° tilt)

Delivered Intensity

Up to 5,163 cd
Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled
(White 3000K CRI 95+, DMX/RDM, 0° tilt)
Up to 5,390 cd
Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled
(White 4000K CRI 95+, DMX/RDM, 0° tilt)

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

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

0° - 358° rotation



0° - 40° tilt

ADB - Adjustable decorative bezel

Rating

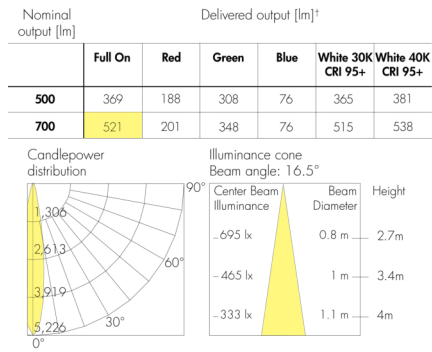
IP20

Certifications

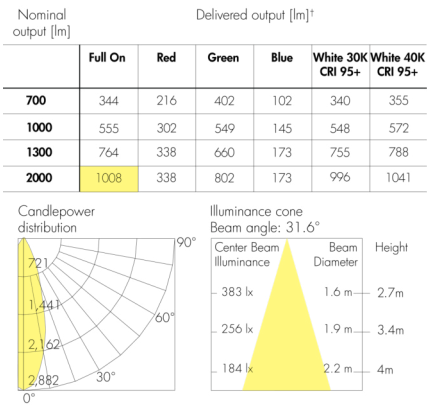


Photometric Information

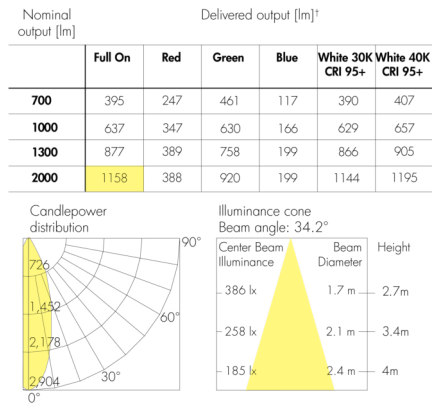
NS - Narrow Spot (Nominal 15°), 4000K



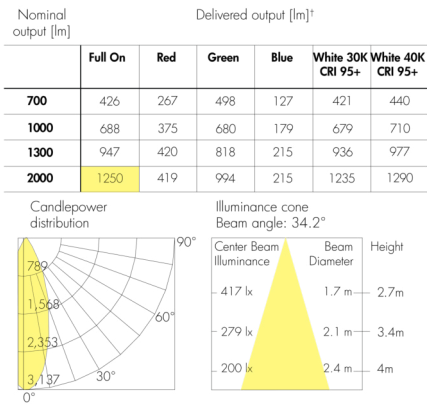
N - Narrow (Nominal 25°), 4000K, 30° Tilt*



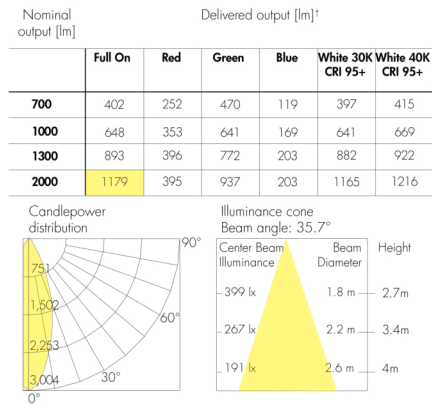
NR - Narrow Reflector (Nominal 25°), 4000K



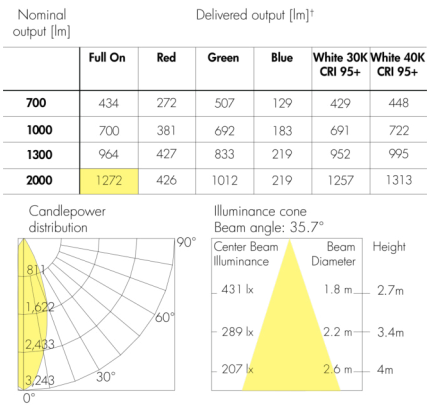
NFR - Narrow Facetted Reflector (Nominal 25°), 4000K



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



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



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

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

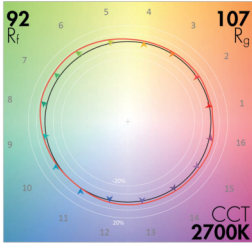
† Consult website for LDT files. Delivered output: +/- 10% tolerance.

Consult Power Consumption section for wattage information.

TM-30

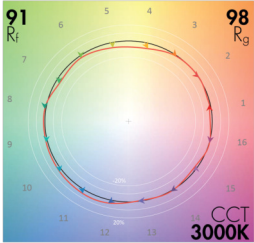
2700K - CRI 90+

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



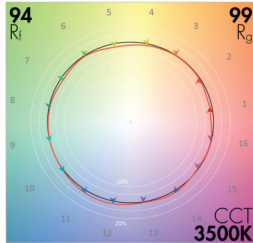
3000K - CRI 90+

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



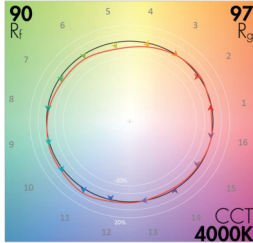
3500K - CRI 90+

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



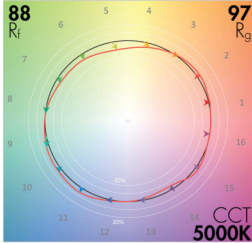
4000K - CRI 90+

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



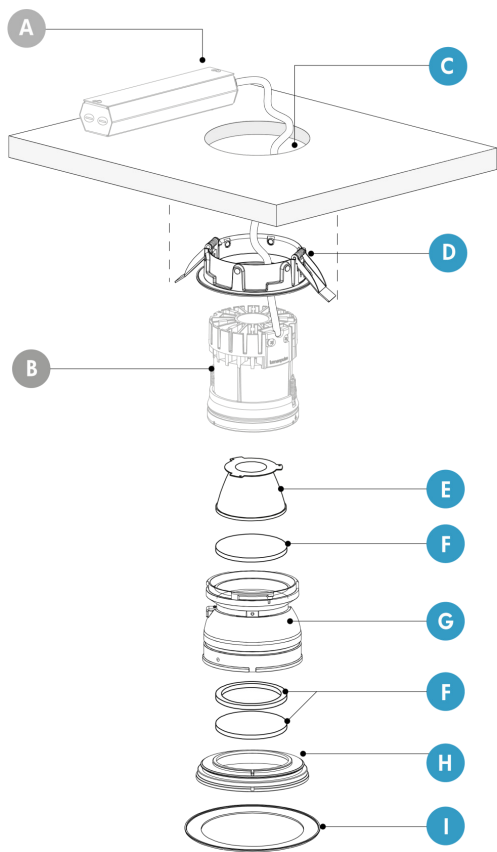
5000K - CRI 90+

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 - 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 - Adjustable decorative bezel
- I - Trim (round or square, based on ceiling ring selection)
- *Optic is field changeable. Consult Interchangeable Optics section of the specification sheet for details.
- **Field changeable, consult installation instructions for details. Consult factory for ordering details.

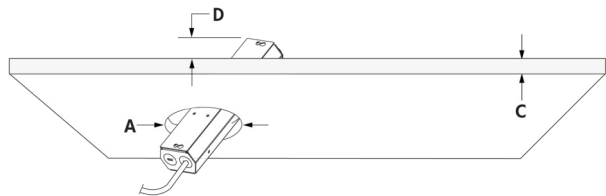
Ceiling Requirements

Ceiling Cavity Space Requirements (Length x Width x Height)

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

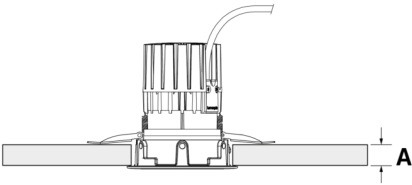
Ceiling Cutout



- 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

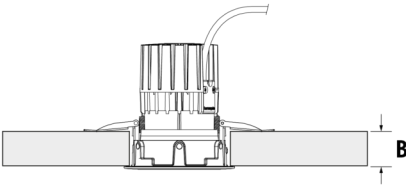
Ceiling Thickness Options

Ceiling Thickness 1



A - Ceiling thickness range: 1 mm to 25 mm

Ceiling Thickness 2



B - Ceiling thickness range: 27 mm to 51 mm

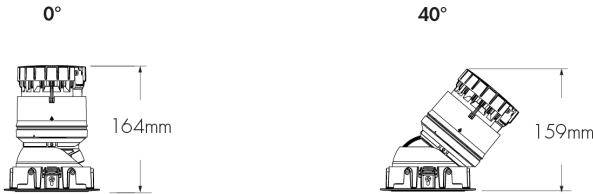
Ceiling springs are field changeable, consult installation instructions and factory for details.

Lumen Output and Heatsink Height

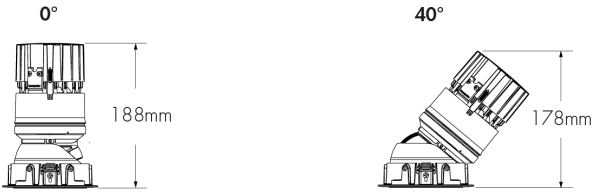
Optic	Short Heatsink	Tall Heatsink
	Lumen Output	
NS, NSR, NSFR	L05	L07
N, NR, NFR, M, MFR, W, WFR, VV, VVFR	L07, L10, L13	L20

Dimensions

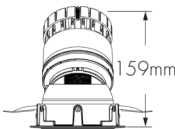
Adjustability - Short model



Adjustability - Tall model

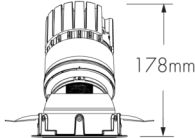


Short Heatsink



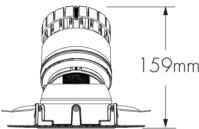
Front view

Tall Heatsink



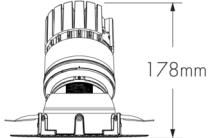
Front view

Short model - Trimless



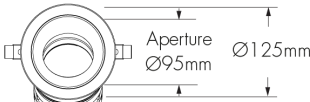
Front view

Tall model - Trimless



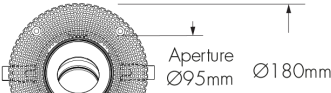
Front view

RD - Round Shape, Round Trim



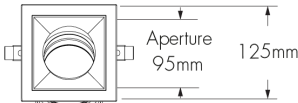
Bottom view

TLR - Trimless Round



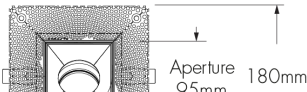
Bottom view

SQ - Square Shape, Square Trim



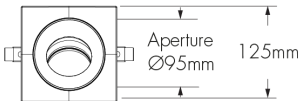
Bottom view

TLS - Trimless Square



Bottom view

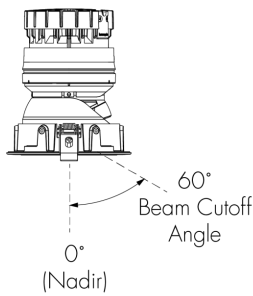
SR - Square Shape, Round Hole



Bottom view

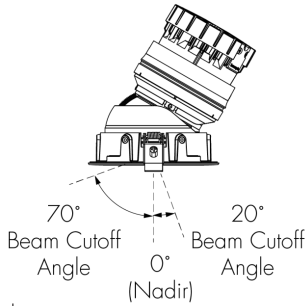
Beam Cutoff Angle

ADB - Adjustable (0° Tilt)



Side view
(Based on 0° tilt)

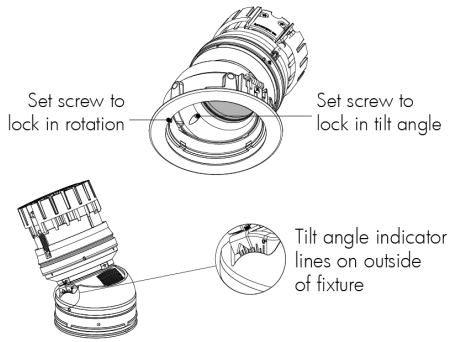
ADB - Adjustable (40° Tilt)



Side view
(Based on 40° max tilt)

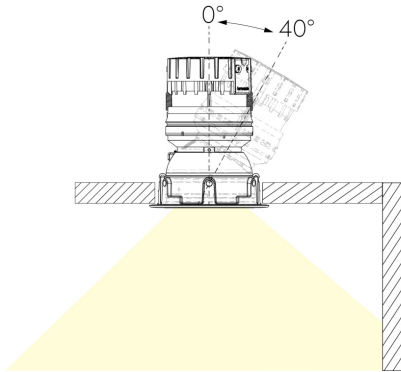
Adjustability

Pre-Set and Lock the Angle

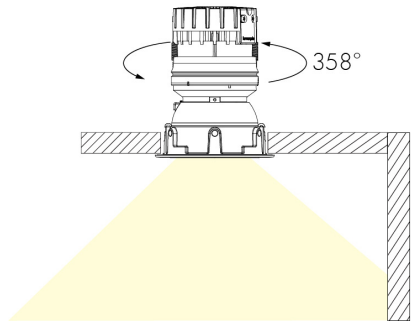


Refer to installation instructions for details.

0° to 40° Tilt Adjustment

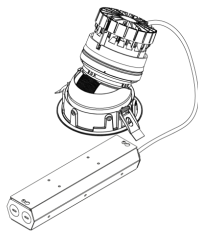


358° Rotation



Configurations

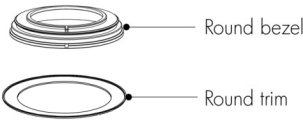
MRGBWP



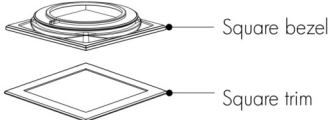
External re-model box wired to luminaire.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout



SQ - Square Ceiling Cutout



Decorative Bezel Options

RD - Compatible Round Decorative Bezels



ADB - Adjustable

SQ - Compatible Square Decorative Bezels



ADB - Adjustable

Standard Finishes - Decorative Bezels



MWH - Matte white



MBK - Matte black



NKS - Nickel satin



DCH - Dark chrome



BCH - Bright chrome



SWT - Satin wheat



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



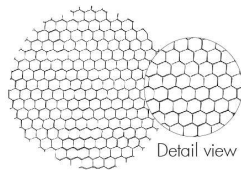
IBR - Italian brick red



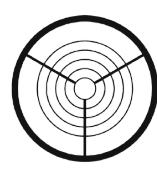
PWH - Parget white

Optical Accessories

HL - Honeycomb Louver



XLVR - Concentric Ring Louver



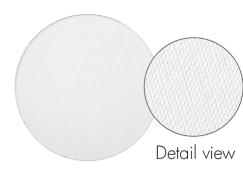
CL - Clear Glass Lens



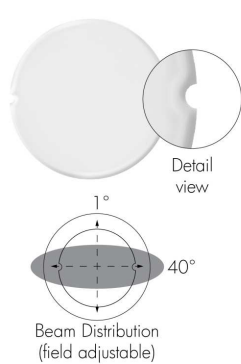
SL - Softening Glass Lens



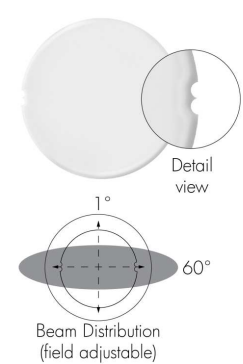
PD - Prismatic Diffuser



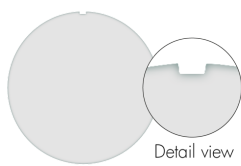
LSN - Linear Spread Lens Narrow (1° x 40°)



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

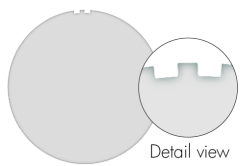


BW1 - Beam Widening Lens (+10°)



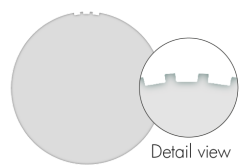
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

BW2 - Beam Widening Lens (+20°)



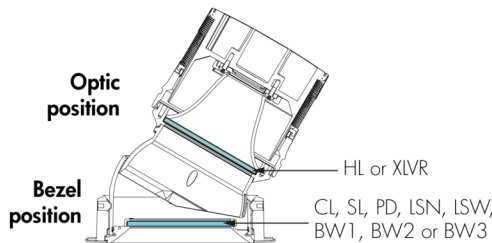
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

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)



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.

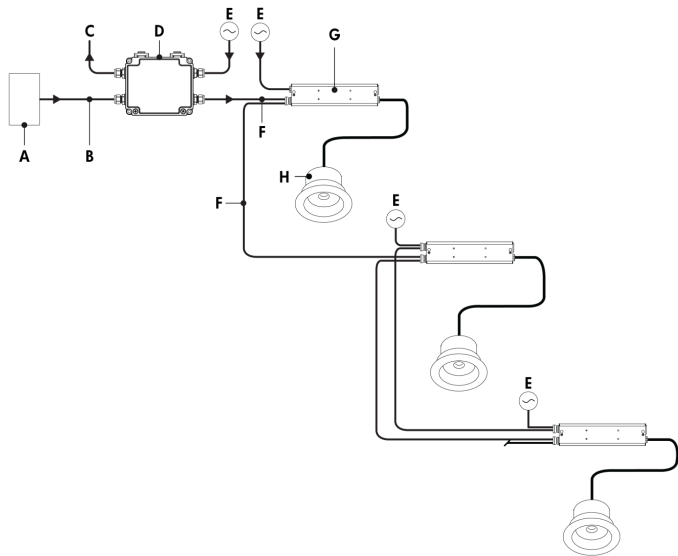
Power Consumption

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

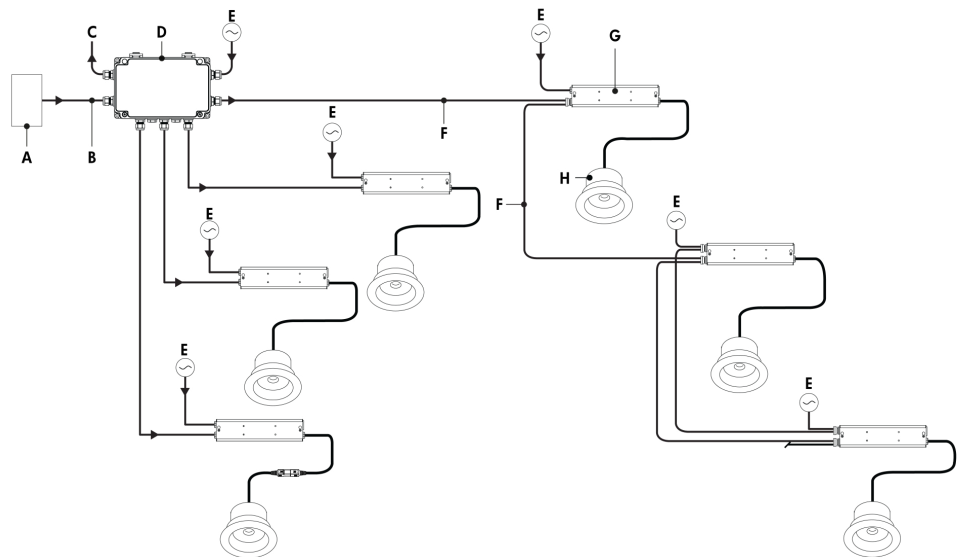
Daisy Chain Layout (DMX/RDM)



- 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
LCRS Lumencore Recessed Small - 102 mm	B CE	AD Adjustable	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 25° Reflector NFR 25° Facetted Reflector M 40° Reflector MFR 40° Facetted Reflector	DMX/RDM DMX/RDM (Configurable to 3, 4, or 5 channel control via RDM in the field) ⁽⁶⁾ ⁽⁷⁾ ⁽⁸⁾

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 with 500 lumens only.

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.

How to Order

Decorative Bezel	Decorative Bezel Finish	Trim	Trim Finish	Ceiling Thickness	Accessories ⁽¹⁴⁾
ADB Adjustable (0°- 358° rotation, 0°-40° tilt)	MWH Matte White MBK Matte Black NKS Nickel Satin DCH Dark Chrome BCH Bright Chrome SWT Satin Wheat CPG Champagne Gold ⁽⁹⁾ CC Custom Colour Trim ⁽¹⁰⁾ SP Special colour (choose from colour palette in complete specification sheet) ⁽¹¹⁾	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:

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.

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.