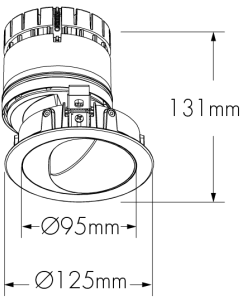


Project Name

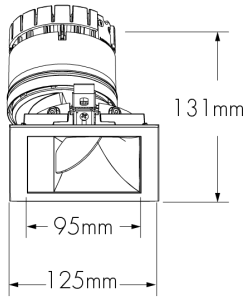
Qty

Type

Catalog / Part Number



Round Trim, Invisio Wallwash Bezel
Invisio Wallwash Optic
(Shown with 25 mm ceiling springs)
Round trim ceiling cutout: Ø114 mm



Square Trim, Invisio Wallwash Bezel
Invisio Wallwash Optic
(Shown with 25 mm ceiling springs)
Square trim ceiling cutout: 114 mm x 114 mm

Photometric Summary

Based on Invisio Wallwash Optic, 4000K, MRGBWP in Optidrive™ White (3000K 96 CRI)

Nominal Output [lm]	Delivered Output [lm] ^[1]	Power (120V) [W]	Efficacy [lm/W]
500	276	14	20
700	389	21	19

[1] Consult website for latest LTD files.

Optics



Colour and Colour Temperature



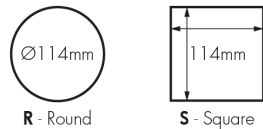
Colour Rendering

CRI
90+

Control

DMX/RDM

Ceiling Cutout Shapes



Description

The Lumencore Recessed Opticolor+ Small Wallwash 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	IB: Invisio Wallwash IRB: Invisio Rollover Wallwash SB: Standard (available for AWW and DAS optics only) T: Fixed Tilt (0° rotation, factory set 30° tilt) (available for WW optic only)
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
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)	305 mm x 305 mm x 210 mm for external driver wired to luminaire

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 Bezels (Round Trim)



Decorative Bezels (Square Trim)



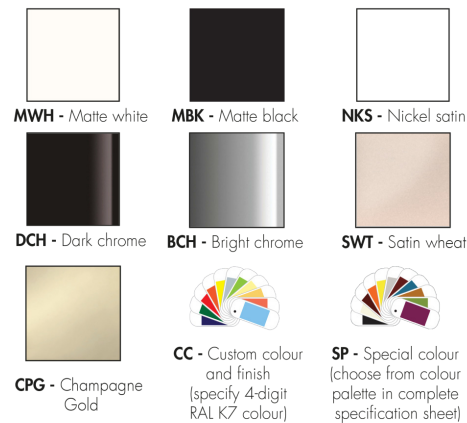
Decorative Bezels (Round Trim)



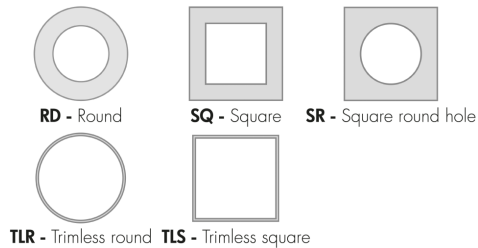
Decorative Bezels (Square Trim)



Standard Finishes - Decorative Bezels



Trim Shapes



Optics (Nominal Distribution)	IWW: Invisio Wallwash DAS: Double asymmetric WW: Accent Wallwash AWW: True Asymmetric Wallwash
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 389 lm Invisio Wallwash Optic, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 407 lm Invisio Wallwash Optic, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM) Up to 1,165 lm Double Asymmetric Optic, MRGBWP Optidrive™ Enabled (White 3000K CRI 95+, DMX/RDM) Up to 1,216 lm Double Asymmetric Optic, MRGBWP Optidrive™ Enabled (White 400K 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

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)

Rating

IP20

Certifications



Photometric Information

IWW - Invisio Wallwash, 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
500	279	142	233	57	276	288
700	394	152	263	57	389	407

AWW - True Asymmetric Wallwash, 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
500	265	135	222	54	262	273
700	374	144	250	54	370	386

DAS - Double Asymmetric Wallwash, 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	402	252	470	119	397	415
1000	648	353	641	169	641	669
1300	893	396	772	203	882	922
2000	1,179	395	937	203	1165	1,216

WW - Accent Wallwash, 4000K

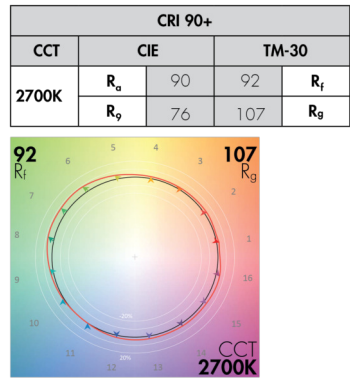
Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 95+	White 40K CRI 95+
700	302	189	353	90	298	312
1000	487	265	482	127	481	503
1300	671	297	580	152	663	692
2000	886	297	704	152	875	914

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

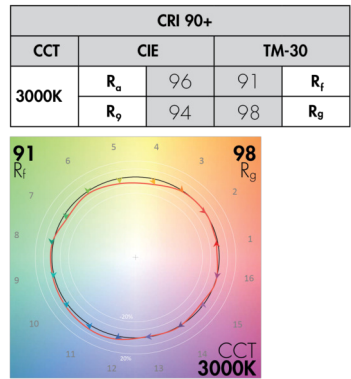
† Consult website for LDT files. Delivered output: +/- 10% tolerance.
Consult Power Consumption section for wattage information.

TM-30

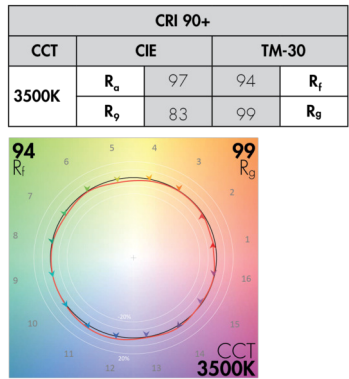
2700K - CRI 90+



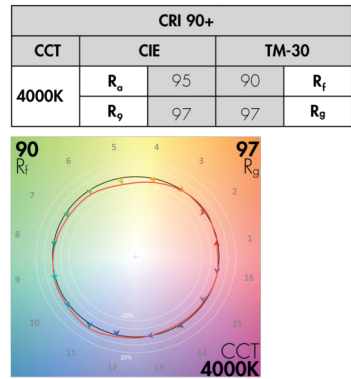
3000K - CRI 90+



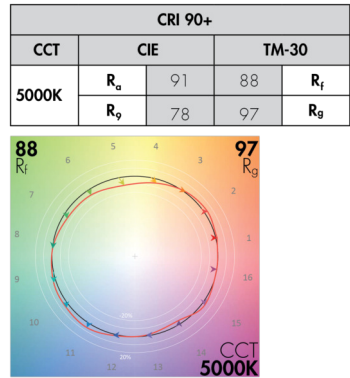
3500K - CRI 90+



4000K - CRI 90+

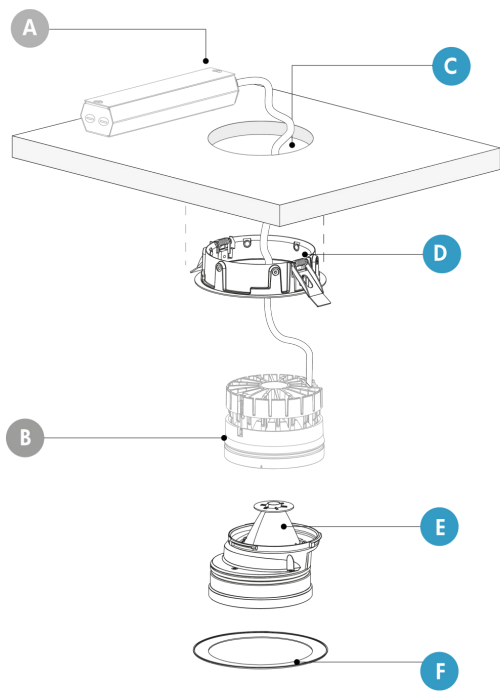


5000K - CRI 90+



Refer to TM-30 Reference Guide for details.

Exploded Overview - Part Selection (IWW Optic)



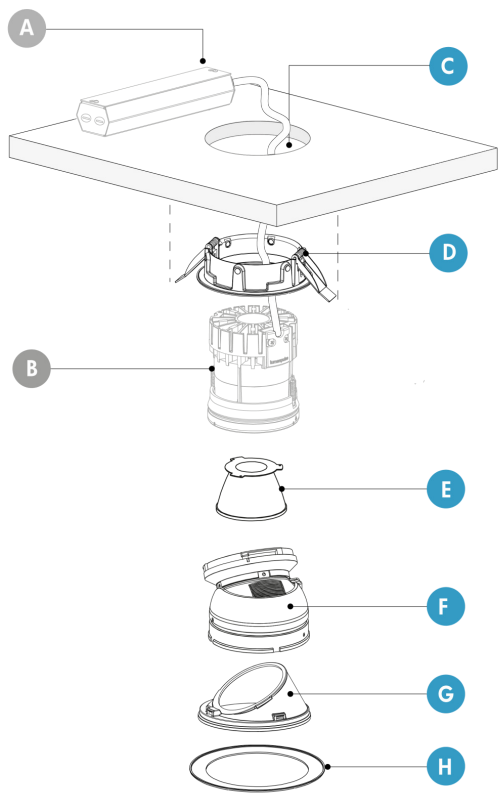
Standard Parts

- 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 and Decorative bezel Assembly (IB and IRB)
- F - Trim (round or square, based on ceiling ring selection)

Exploded Overview - Part Selection (DAS, WW and AWW Optics)



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 - Adjustable mechanism
- G - Decorative bezel (SB type for AWW and DAS optics, T Type for WW optic)
- H - Trim (round or square, based on ceiling ring selection)

* WW optic is field changeable. Consult Interchangeable Optics section of the specification sheet for details.

Based on WW optic construction.

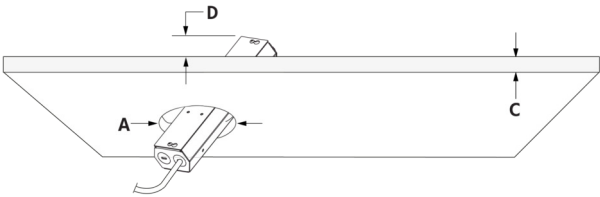
Ceiling Requirements

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 210mm				

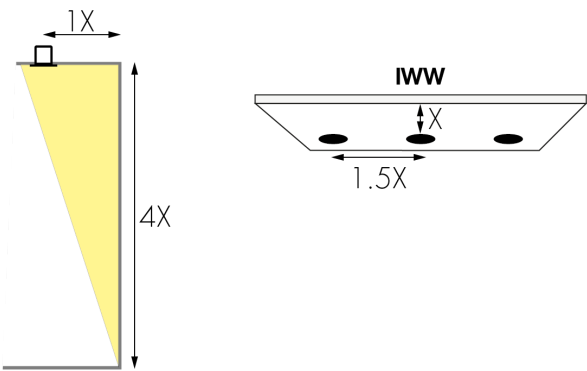
Above dimensions include any keep out requirements for proper airflow and thermal cooling.

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

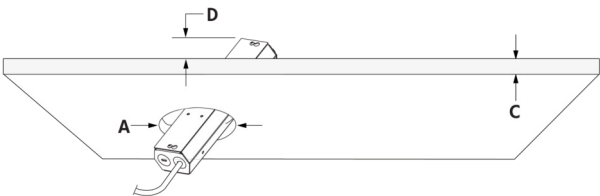
Setback and Spacing Information



Guidelines for Invisio Wallwash Optic (IWW):

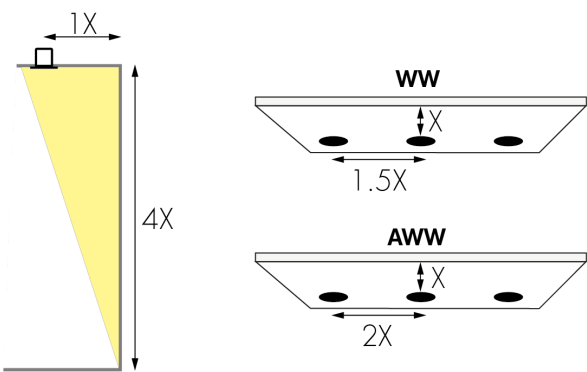
- Setback ratio: 1:3.5
- Spacing: on centre, 1.5x setback
- Example for a 3 m wall: 0.9 m setback, 1.4 m spacing between fixture

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

Setback and Spacing Information



Guidelines for Accent Wallwash Optic (WW):

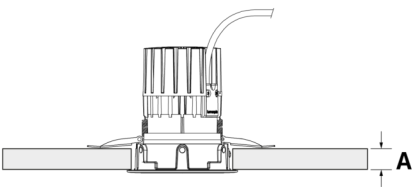
- Setback ratio: 1:4
- Spacing: on centre, 1.5x setback
- Example for an 2.4 m wall: 0.6 m setback, 0.9 m spacing between fixtures

Guidelines for True Asymmetric Wallwash Optic (AWW):

- Setback ratio: 1:4
- Spacing: on centre, 2x setback
- Example for an 2.4 m wall: 0.6 m setback, 1.2 m spacing between fixtures

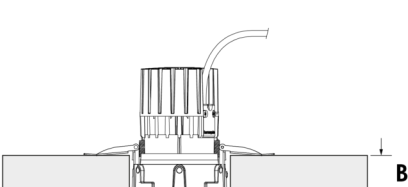
Ceiling Thickness Options

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.

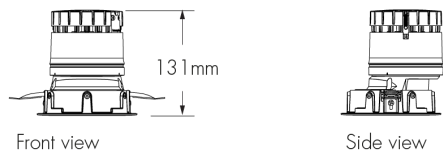
Lumen Output and Heatsink Height

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)
NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated)
IC, PC, IC/AT - New Construction Insulated And Non-Insulated Ceiling

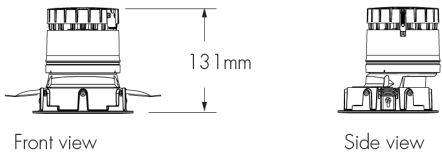
	Short Heatsink	Tall Heatsink
Optic	Lumen Output	
IWW, AWW	L05	L07
DAS, WW	L07, L10, L13	L20

Dimensions - Invisio Wallwash Optic

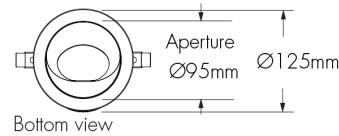
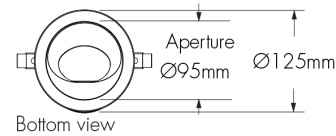
SB - Standard Decorative Bezel



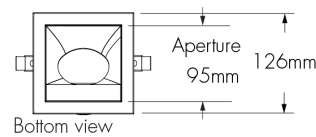
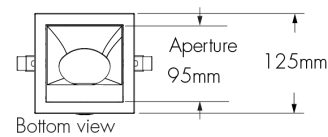
DR - Deep Roll Bezel



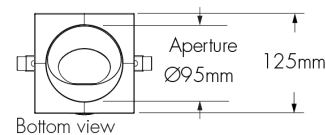
RD - Round Shape, Round Trim



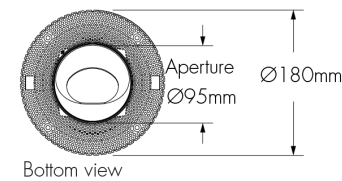
SQ - Square Shape, Square Trim



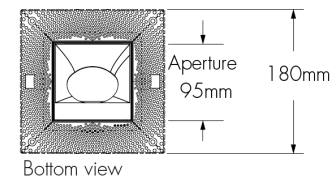
SR - Square Shape, Round Hole



TLR - Trimless Round

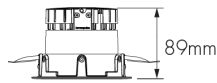


TLS - Trimless Square



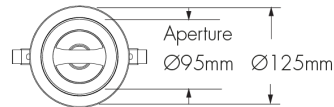
Dimensions - Double Asymmetric Wallwash Optic

Short model



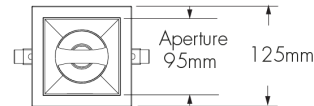
Front view

RD - Round Shape, Round Trim



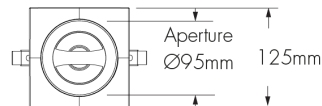
Bottom view

SQ - Square Shape, Square Trim



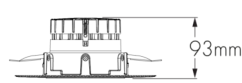
Bottom view

SR - Square Shape, Round Hole



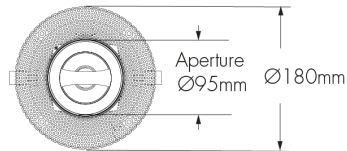
Bottom view

Short model - Trimless



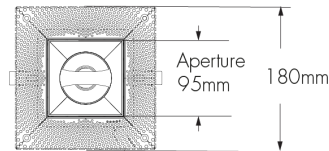
Front view

TLR - Trimless Round



Bottom View

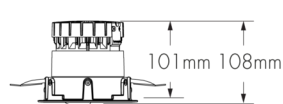
TLS - Trimless Square



Bottom View

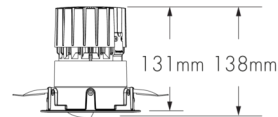
Dimensions - Asymmetric Wallwash Optic

Short model



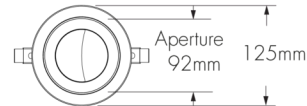
Front view

Tall model



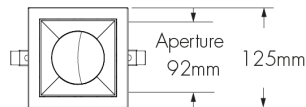
Front view

RD - Round Shape, Round Trim



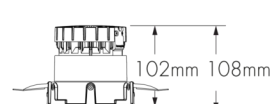
Bottom view

SQ - Square Shape, Square Trim



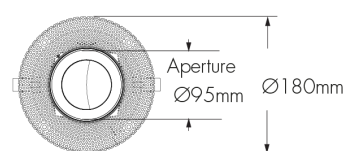
Bottom view

Short model - Trimless



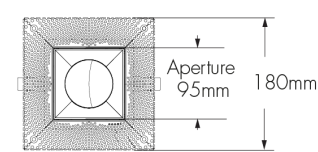
Front view

TLR - Trimless Round



Bottom view

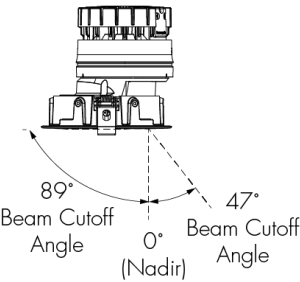
TLS - Trimless Square



Bottom view

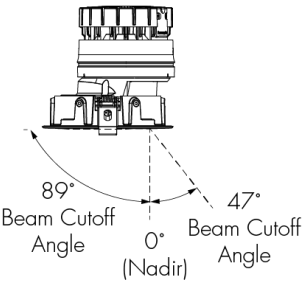
Beam Cutoff Angle

IWW - Invisio Wallwash
IB - Invisio Wallwash Bezel



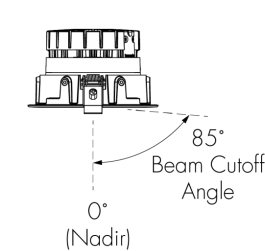
Side view

IWW - Invisio Wallwash
IRB - Invisio Rollover Wallwash Bezel



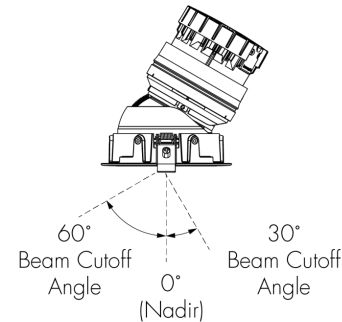
Side view

DAS - Double Asymmetric Wallwash
SB - Standard Bezel



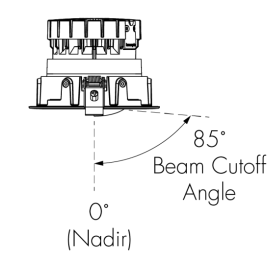
Side view

WW - Accent Wallwash
T - Fixed Tilt Bezel



Side view
(Based on 30° fixed tilt)

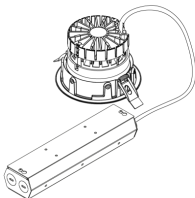
AWW - True Asymmetric Wallwash
SB - Standard Bezel



Side view

Configurations

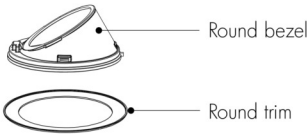
MRGBWP



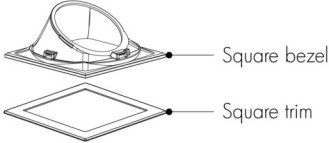
External re-model box wired to luminaire.

Ceiling Cutout Shape Options

RD - Round Ceiling Cutout

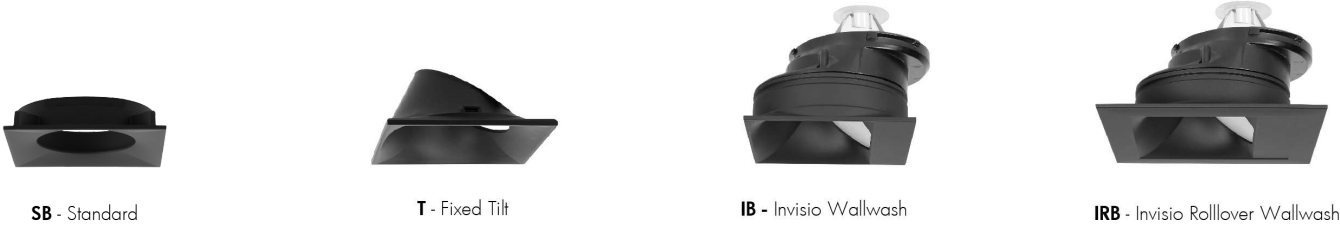


SQ - Square Ceiling Cutout



Decorative Bezel Options

SQ - Compatible Square Decorative Bezels



RD - Compatible Round Decorative Bezels



Standard Finishes - Decorative Bezels



*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

Interchangeable Optics

	Optic installed in fixture			
	IWW Invisio Wallwash	WW Accent Wallwash	AWW True Asymmetric Wallwash	DAS Double Asymmetric Wallwash
Interchangeable optics	N/A	N* NR* NFR* M* MFR* W* WFR* VW* VWFR*	N/A	N/A

The optic options listed above are field changeable. Note that when the wallwash optic is changed for another optic, the fixture is no longer suitable for wallwash applications. Consult factory and installation instructions for details.

* Consult the Lumencore Recessed Small Fixed Tilt specification sheet for details.

Power Consumption

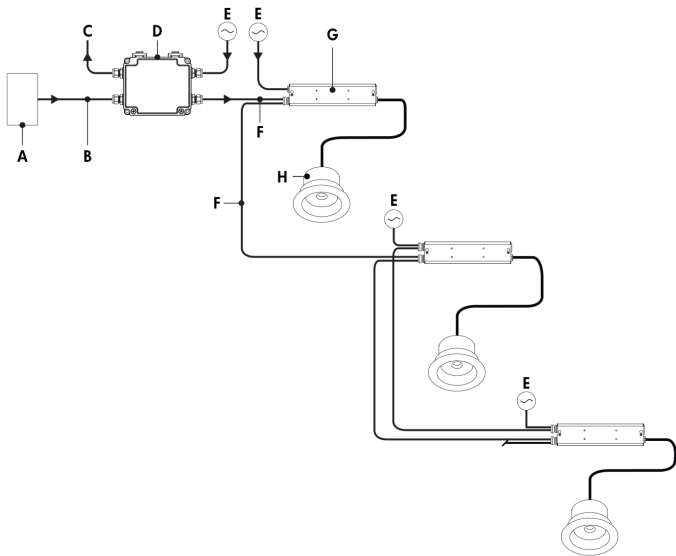
Power consumption [W]		
Output [lm]	IWW - WW - AWW	DAS
500	14	N/A
700	21	11
1000	N/A	16
1300	N/A	23
2000	N/A	32

*Not applicable to IWW and AWW optics.

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

Typical Wiring Diagrams

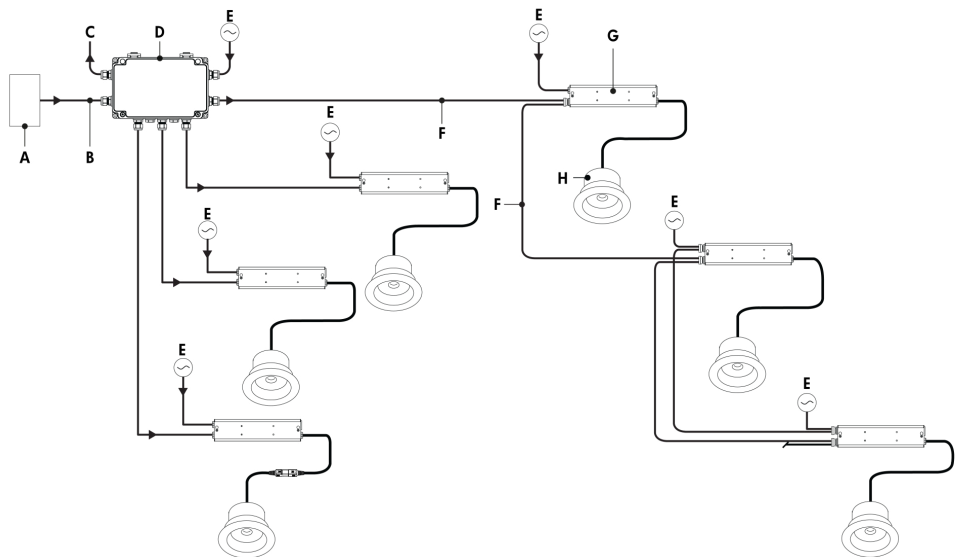
Daisy Chain Layout (DMX/RDM)



- 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
LCRS Lumencore Recessed Small - 102 mm	B CE	WA Wallwash	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 ⁽⁴⁾	MRGBWP MRGBW With Opticolor+	90 CRI 90+ (White Light Only) ⁽⁵⁾	IWW Invisio Wallwash ⁽⁶⁾ DAS Double Asymmetric Wallwash ⁽⁷⁾ ⁽⁸⁾ WW Accent Wallwash ⁽⁹⁾ AWW True Asymmetric Wallwash ⁽⁶⁾ ⁽¹⁰⁾	DMX/RDM DMX/RDM (Configurable to 3, 4, or 5 channel control via RDM in the field) ⁽¹¹⁾ ⁽¹²⁾ ⁽¹³⁾	SB Standard ⁽¹⁴⁾ IRB Invisio Rollover Wallwash IB Invisio Wallwash T Fixed Tilt (0° rotation, factory set 30° tilt) ⁽¹⁵⁾

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

2. Available for IWW and AWW optics only.

3. Available for DAS and WW optics only.

4. Available for WW optic only.

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

6. Available up to 700 lumens.

7. Available up to 1300 lumens.

8. The colour of the double asymmetric baffle is metallic grey.

9. Available up to 2000 lumens.

10. The colour of the asymmetric wallwash baffle matches the colour specified for the decorative bezel.

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

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

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

14. Available for AWW and DAS optics only.

15. Available for WW optic only.

How to Order

Decorative Bezel Finish	Trim	Trim Finish	Ceiling Thickness	Accessories
MWH Matte White	RD Round ⁽²⁰⁾	MWH Matte White	1 1 mm to 25 mm Ceiling Thickness	NA No Accessory
MBK Matte Black	TLR Trimless Round ⁽²⁰⁾	MBK Matte Black	2 27 mm to 51 mm Ceiling Thickness	
NKS Nickel Satin	SQ Square ⁽²¹⁾	NKS Nickel Satin		
DCH Dark Chrome	SR Square Trim with Round Hole ⁽²⁰⁾	CC Custom Colour Trim ⁽¹⁸⁾		
BCH Bright Chrome	TLS Trimless Square ⁽²¹⁾	SP Special colour (choose from colour palette in complete specification sheet) ⁽¹⁹⁾		
SWT Satin Wheat				
CPG Champagne Gold ⁽¹⁶⁾ ⁽¹⁷⁾				
CC Custom Colour Trim ⁽¹⁸⁾				
SP Special colour (choose from colour palette in complete specification sheet) ⁽¹⁹⁾				

Notes:

16. Not available for SB bezel.

17. Coming soon, consult factory for details.

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

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

20. Cannot be combined with square ceiling cutout.

21. Cannot be combined with round ceiling cutout.