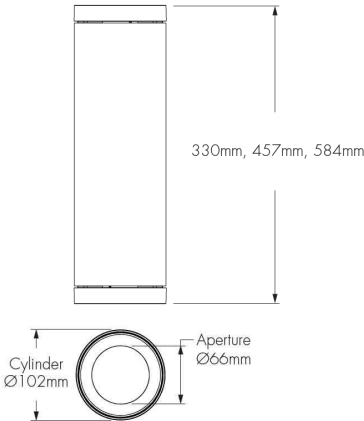


Project Name

Qty

Type

Catalog / Part Number



Front view

Bottom view

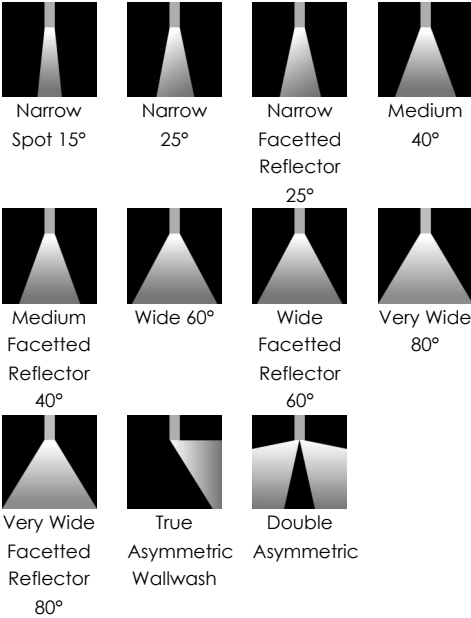
Photometric Summary

Based on Wide Facetted Reflector Optic (Nominal 60°), MRGBWP in Optidrive™ (White 3000K CRI 96+)

Nominal output [lm]	Delivered output [lm]	Power (220/240V) [W]	Efficacy [lm/W]
700	570	11	52
1000	919	16	57
1300	1,266	23	55

- ¹ Consult website for latest LDT files.
- ² Photometric performance is measured in compliance with IESNA LM-79-24.
- ³ Refer to the Lumencore Cylinder Opticolor+ Photometric Guide on Lumenpulse website for information on other colour temperatures.

Optics



Description

The Lumencore Cylinder Opticolor+ Small Surface Mount is a high-performance LED luminaire designed for commercial, residential, or hospitality environments. This versatile three-in-one fixture combines Dynamic RGBW Colours, Dynamic White with Dim-to-Warm, and Premium Static White, delivering the exceptional quality and precision Lumenpulse is known for. Available in a variety of finishes—or custom colour options—it adapts beautifully to any space. Accessories, beam angle, and optics can be easily adjusted in the field for on-site flexibility.

Features

Mounting	Surface Mount
Light Direction	Direct lighting
Length	330 mm, 457 mm, 584 mm
Direct Lighting Output (Nominal Lumens)	700lm, 1000lm, 1300lm
Direct Lighting Colour Temperature	Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K, Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K
Direct Lighting Optics (Nominal Distribution)	Narrow Spot 15°, Narrow 25°, Narrow Facetted Reflector 25°, Medium 40°, Medium Facetted Reflector 40°, Wide 60°, Wide Facetted Reflector 60°, Very Wide 80°, Very Wide Facetted Reflector 80°, True Asymmetric Wallwash, Double Asymmetric
Optical Accessories	Snoot, Half Snoot, Honeycomb Louver, Concentric Ring Louver, Clear Glass Lens, Softening Glass Lens, Prismatic Diffuser, Linear Spread Lens Narrow (1° x 40°), Linear Spread Lens Wide (1° x 60°), Beam Widening Lens (+10°), Beam Widening Lens (+20°), Beam Widening Lens (+30°)
Warranty	5-year limited warranty
Performance	

Maximum Delivered Output	Up to 1,266 lm Wide Facetted Reflector Optic 60°, MRGBWP Optidrive™ Enabled (White 3000K 96+ CRI, DMX/RDM) Up to 1,322 lm Wide Facetted Reflector Optic 60°, MRGBWP Optidrive™ Enabled (White 4000K 95+ CRI, DMX/RDM)
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Colour and Colour 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

Control



DALI
T8

DMX/RDM

Colour Rendering

CRI
90+

Finish

 Matte White	 Matte Black	 Matte Brown	 Matte Orange
 Matte Green	 Matte Blue	 Matte Silver	 Glossy White
 Glossy Black	 Glossy Yellow	 Glossy Red	 Glossy Violet
 Glossy Green	 Glossy Ivory	 Concrete Grey	 Metalised Grey
 Italian Brick Red	 Parget White	 Custom Colour & Finish	

Certifications



CE



RoHS





5
YEARS
warranty

Maximum Delivered Intensity	Up to 7,056 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 3000K CRI 96+, DMX/RDM) Up to 7,142 cd Narrow Spot Optic 15°, MRGBWP Optidrive™ Enabled (White 4000K CRI 95+, DMX/RDM)
Colour Rendering	CRI 90+ (White Light Only)
Lumen Maintenance	L95 50,000 hrs (Ta 25 °C)
Colour Consistency	3 SDCM (in white light colour temperatures)
Physical	
Weight	Up to 3.46 kg
Housing Material	Aluminium
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminium
Electrical and Control	
Voltage	220-240 Volts
Control	DMX/RDM Enabled Dimming 0.1% DALI 2 T8 Enabled Dimming 0.1%

Environmental

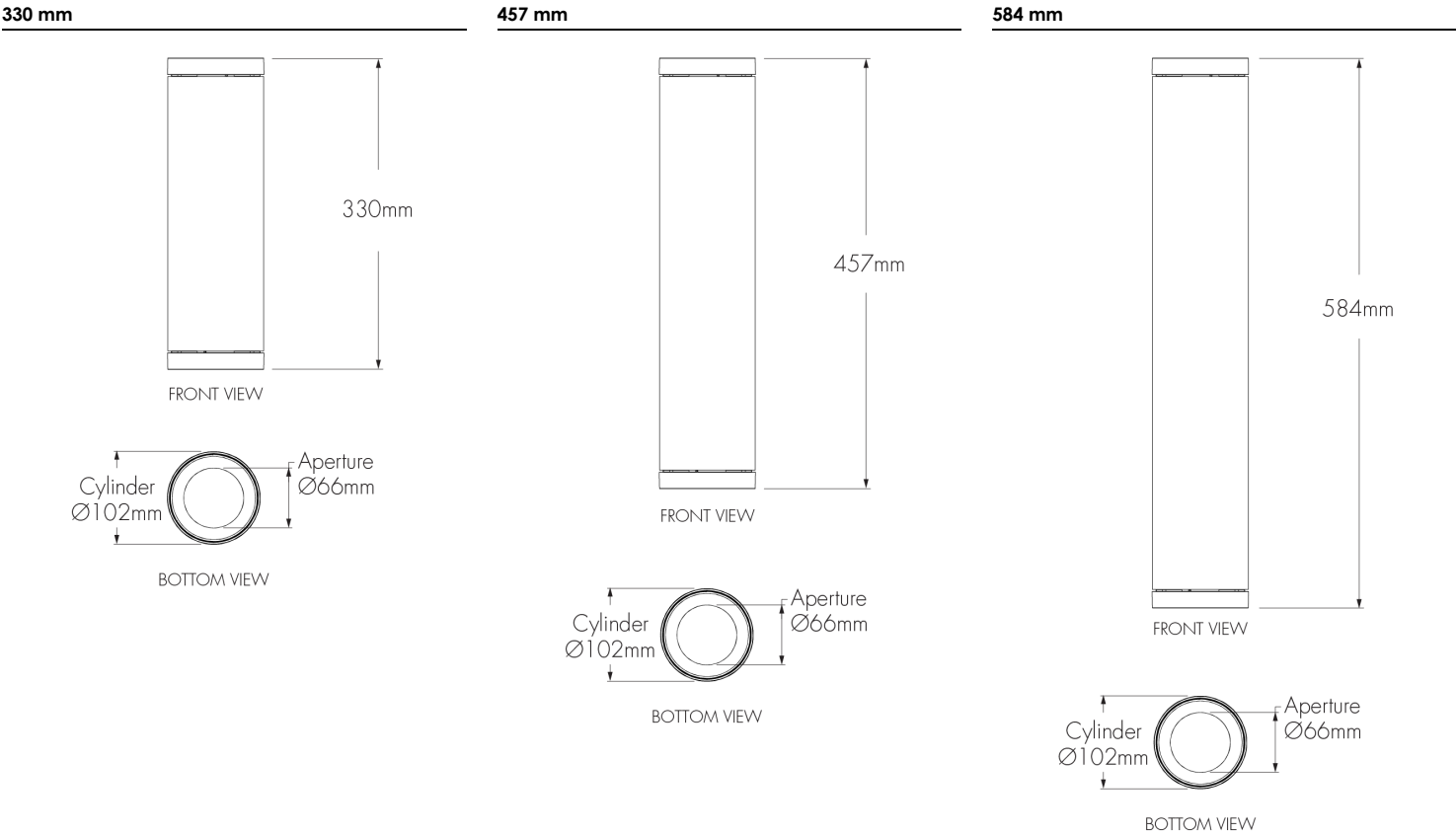
Environment	Dry location (indoor applications only)
Operating Temperature	-20 °C to 30 °C
Ingress Protection Rating	IP20
Accessories (Order Separately)	
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)
Control Systems	Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT), Consult Control Systems section for details
Diagnostic and Addressing Tools	LumenID (LID)

Important

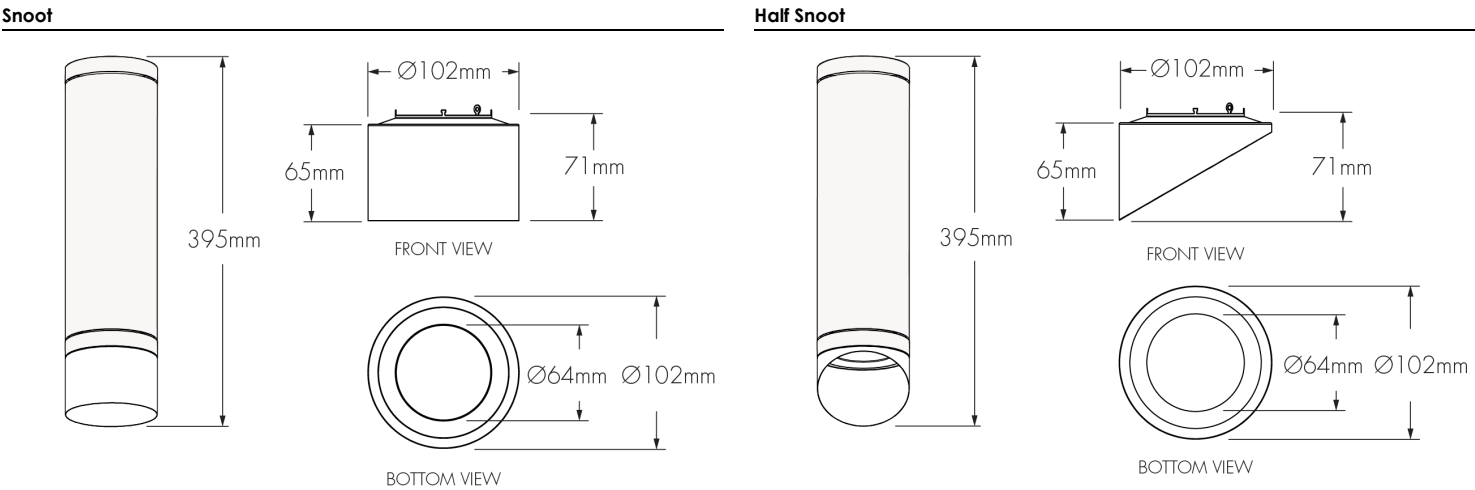
Virtual Patent Marking Notice

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.

Fixture Dimensions



Optical Accessory Dimensions (330 mm Fixture Shown)



Photometric Information - Colour Rendering Options Comparison, 3000K

Color sample	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
CRI 90+	94	95	98	99	95	94	97	91	80	55	93	97	83	96	99	89

Optics

TIR Optic
NS/N



Semi-Specular Reflector
M/W/VW



Faceted Reflector
NFR/MFR/WFR/VWFR



Power Consumption

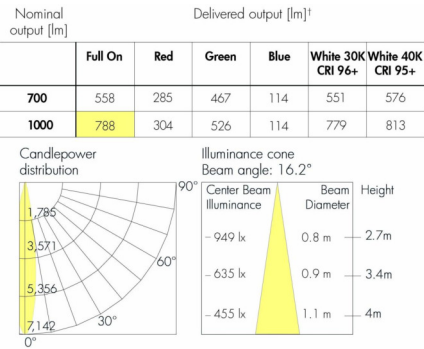
MRGBWP and MRGROYWP

Power Consumption [W]				
Output [lm]	NS (15°) - NSR (15°) - NSFR (15°)		N (25°) - NR (25°) - NFR (25°) - M (40°) - MFR (40°) - W (60°) - WFR (60°) - VW (80°) - VWFR (80°) - DAS	
	220 V	240 V	220 V	240 V
700	14	14	11	11
1000	21	21	16	16
1300	N/A	N/A	23	23

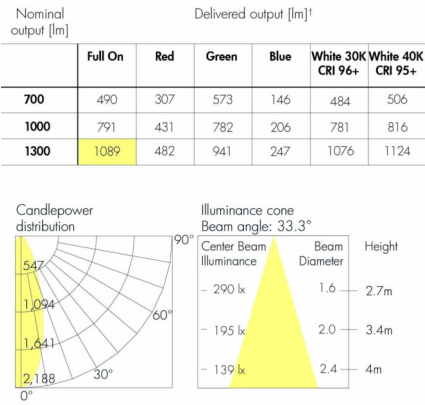
Power Consumption values are based on a MRGBWP or MRGROYWP Full On configuration.

Photometric Information - Direct Lighting Optics

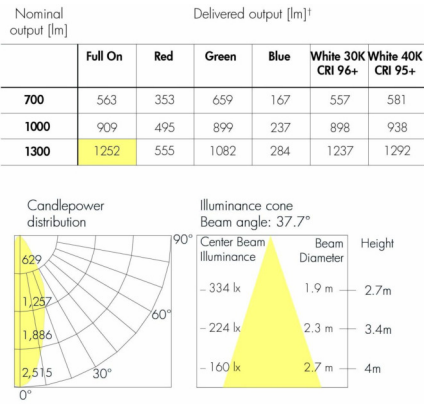
NS - Narrow Spot (Nominal 15°), 4000K



N - Narrow (Nominal 25°), 4000K



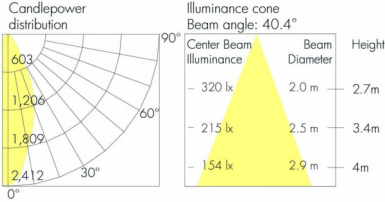
NFR - Narrow Facetted Reflector (Nominal 25°), 4000K



† Consult website for latest LDT files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.

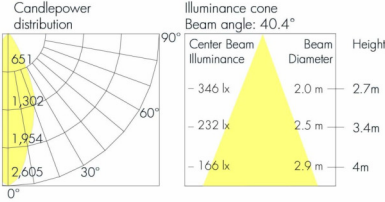
M - Medium (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	520	326	608	154	514	536
1000	839	457	829	219	828	865
1300	1155	512	998	262	1141	1192



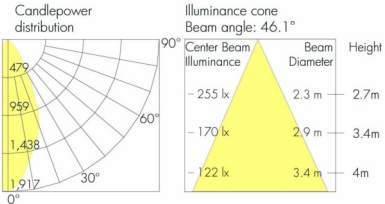
MFR - Medium Facetted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	561	352	656	167	554	579
1000	905	493	895	236	894	934
1300	1247	552	1077	283	1232	1287



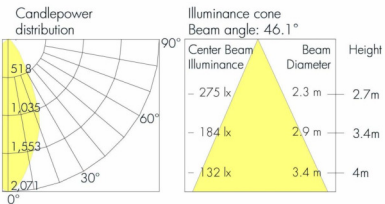
W - Wide (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	534	335	624	159	527	551
1000	861	469	852	225	851	889
1300	1186	525	1025	269	1172	1224



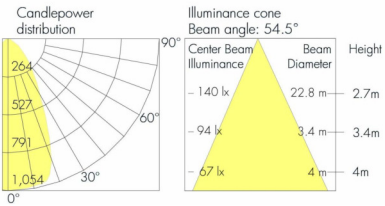
WFR - Wide Facetted Reflector (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	576	361	674	171	570	595
1000	930	507	920	243	919	960
1300	1281	567	1107	291	1266	1322



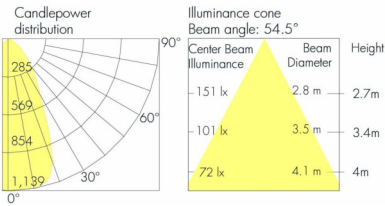
VW - Very Wide (Nominal 80°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	495	311	579	147	490	511
1000	799	436	791	209	790	825
1300	1101	488	951	250	1088	1136



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

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	535	335	625	159	529	552
1000	863	470	854	225	853	891
1300	1189	527	1027	270	1175	1227

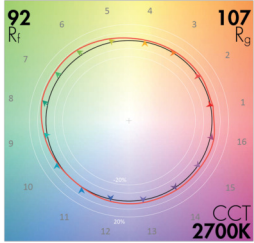


† Consult website for latest LDT files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.

TM-30

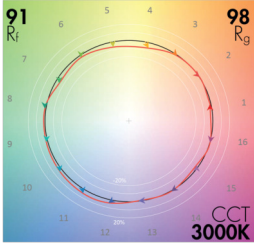
2700K - CRI 90+

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



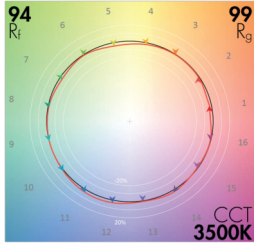
3000K - CRI 90+

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



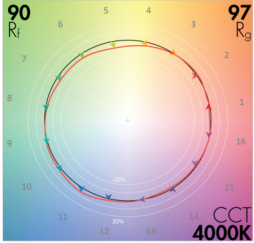
3500K - CRI 90+

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



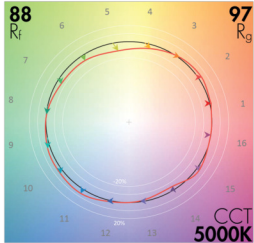
4000K - CRI 90+

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



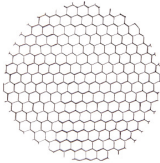
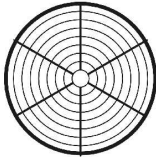
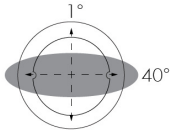
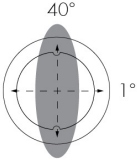
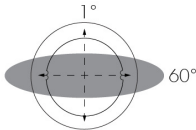
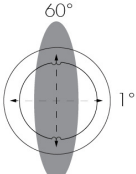
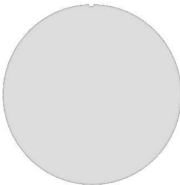
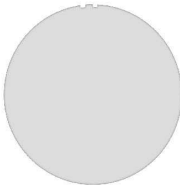
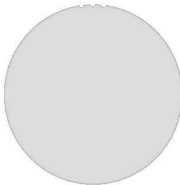
5000K - CRI 90+

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



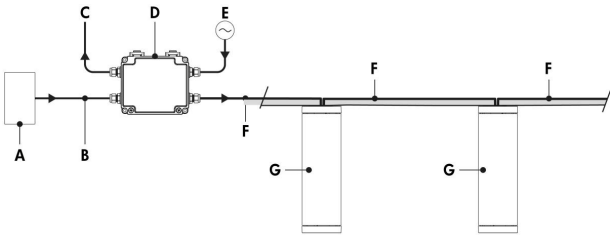
Refer to TM-30 Reference Guide for details.

Optical Accessories

SN - Snoot  LACYS - SN	HSN - Half Snoot  LACYS - HSN	HL - Honeycomb Louver  LACYS - HL
XLVR - Concentric Ring Louver  LACYS - XLVR	CL - Clear Glass Lens  LACYS - CL	SL - Softening Glass Lens  LACYS - SL
PD - Prismatic Diffuser  LACYS - PD	LSN - Linear Spread Lens Narrow (1° x 40°)  Horizontal Beam Distribution  Vertical Beam Distribution LACYS - LSN	LSW - Linear Spread Lens Wide (1° x 60°)  Horizontal Beam Distribution  Vertical Beam Distribution LACYS - LSW
BW1 - Beam Widening Lens (+10°)  LACYS - BW1	BW2 - Beam Widening Lens (+20°)  LACYS - BW2	BW3 - Beam widening lens (+30°)  LACYS - BW3
DR - Decorative Ring  LACYS - DR		

Typical Wiring Diagrams (Refer to Installation Instructions for Additional Wiring Details)

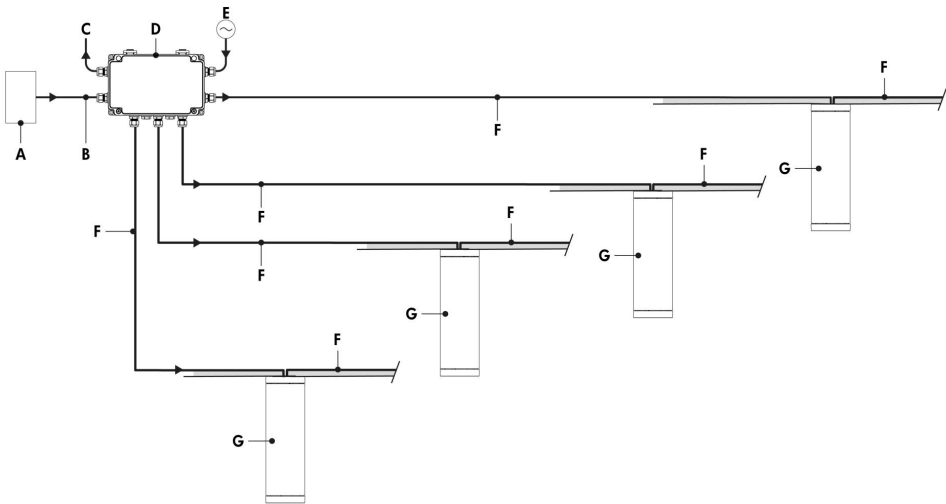
Daisy Chain Layout (DMX/RDM)



- 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 line (220-240V AC, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Lumencore Cylinder Small Surface Mount

The DMX/RDM protocol states a maximum of 64 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.

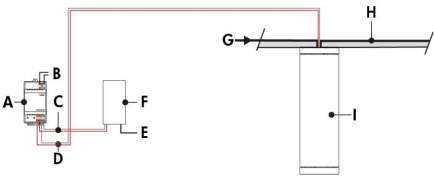
Daisy Chain Layout (DMX/RDM)



- 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-ST
- E - Power line (220-240V AC, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Lumencore Cylinder Small Surface Mount

The DMX/RDM protocol states a maximum of 64 DMX/RDM enabled fixtures on any single run.
Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
Maximum of 6 outputs per CBX-ST.
Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.
DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

DALI 2 T8 Enabled Dimming (DALIT8)

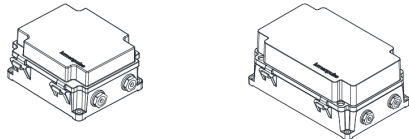


- A - DALI bus power supply (by others)
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (wiring by others)
- D - Data output to fixture (wiring by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - DALI controller (by others)
- G - Power input (220-240V AC, wiring by others)
- H - Power and data wiring (by others)
- I - Lumencore Cylinder Small Surface Mount

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumencore Cylinder fixture responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

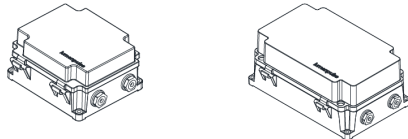
Control Boxes (Order Separately)

CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)



DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

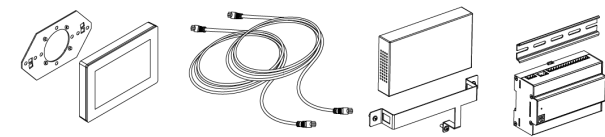
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

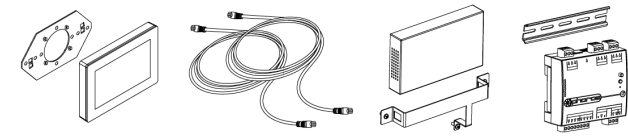
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



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

EXPERT - Pharos® Expert Control Kit



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

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID



The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

How to Order

Housing ⁽¹⁾	Certification	Mounting	Light Direction	Voltage	Length	Direct Lighting Output (Nominal Lumens)	Direct Lighting Colour Temperature ⁽³⁾	Direct Lighting Colour Rendering	Direct Lighting Optics (Nominal Distribution)
LACYS Lumencore Cylinder Small - Ø102 mm	B CE	SM Surface Mount	D Direct lighting	220/240 220-240 Volts	13 330 mm 18 457 mm 23 584 mm	dL07 700lm dL10 1000lm dL13 1300lm ⁽²⁾	MRGBWP Opticolor+® Mix- at-Source Red, Green, Blue Plus White Settable Range 22K to 65K ⁽⁴⁾ ⁽⁵⁾ MRGROYWP Opticolor+® Mix- at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K ⁽⁵⁾ ⁽⁶⁾	CRI 90 CRI 90+ (White Light Only)	NS Narrow Spot 15° ⁽⁷⁾ N Narrow 25° ⁽⁷⁾ NFR Narrow Facetted Reflector 25° M Medium 40° MFR Medium Facetted Reflector 40° W Wide 60° WFR Wide Facetted Reflector 60° VW Very Wide 80° VWFR Very Wide Facetted Reflector 80° WW True Asymmetric Wallwash ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾ DAS Double Asymmetric ⁽⁸⁾ ⁽¹⁰⁾

Notes:

1. Refer to website product configurator for all exceptions.

2. Available for N, NFR, M, MFR, W, WFR, VW, VWFR and DAS optics only.

3. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.

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

5. 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.
6. CRI 90 applies only to white light colour temperatures from 2700K to 6500K.

7. Available up to 1000 lumens.

8. Optical accessories are not available for WW or DAS optics.

9. The colour of the true asymmetric wallwash baffle matches the fixture bezel.

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

How to Order

Direct Lighting Control	Direct Lighting Accessories ⁽⁸⁾ ⁽¹⁴⁾ ⁽¹⁵⁾	Finish	Bezel	Bezel Finish
DMX/RDM DMX/RDM Enabled Dimming 0.1% ⁽¹¹⁾ ⁽¹²⁾ DALI78 DALI 2 T8 Enabled Dimming 0.1% ⁽¹³⁾	NA No Accessory SN Snoot ⁽¹⁶⁾ HSN Half Snoot ⁽¹⁶⁾ HL Honeycomb Louver ⁽¹⁷⁾ XLVR Concentric Ring Louver ⁽¹⁸⁾ ⁽¹⁹⁾ CL Clear Glass Lens SL Softening Glass Lens PD Prismatic Diffuser ⁽²⁰⁾ LSN Linear Spread Lens Narrow (1° x 40°) ⁽²¹⁾ ⁽²²⁾ ⁽²³⁾ LSW Linear Spread Lens Wide (1° x 60°) ⁽²¹⁾ ⁽²³⁾ ⁽²⁴⁾ BW1 Beam Widening Lens (+10°) ⁽²³⁾ BW2 Beam Widening Lens (+20°) ⁽²³⁾ BW3 Beam Widening Lens (+30°) ⁽²³⁾ DR Decorative Ring ⁽²⁵⁾	MWH Matte White MBK Matte Black 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 Metalised Grey IBR Italian Brick Red PWH Parget White CC Custom Colour & Finish ⁽²⁶⁾	b Bezel	MWH Matte White MBK Matte Black 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 Metalised Grey IBR Italian Brick Red PWH Parget White CC Custom Colour & Finish ⁽²⁶⁾

Notes:

- 8.** Optical accessories are not available for WW or DAS optics.

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

12. Configurable to 3, 4, or 5 channel control via RDM in the field.

13. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.

14. Accessories specified in the fixture code are factory installed but can also be changed in the field. Refer to installation instructions for details. To order accessories separately, refer to the Optical Accessories section of the specification sheet.

15. Maximum of two lenses can be installed per fixture. The Snoot (SN) or Half Snoot (HSN) can be combined with any accessory. The Clear Glass Lens (CL) and Softening Glass Lens (SL) cannot be combined together. The Linear Spread Lenses (LSN and LSW) are compatible with the Snoot and Half Snoot accessories only.

16. Matte black interior surface, exterior finish matches housing colour.

17. When combined with another accessory, the HL will be factory-installed in second position (furthest from the LED source).
- 18.** Available for NS optic only.

19. Can be combined with PD accessory only.

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

21. Available for NS and N optics only.

22. Nominal 15° x 40° distribution when used with the NS optic.

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

24. Nominal 15° x 60° distribution when used with the NS optic.

25. No other accessories can be combined with the decorative ring accessory. A decorative ring replaces the bezel on a fixture. Do not specify a bezel finish.

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