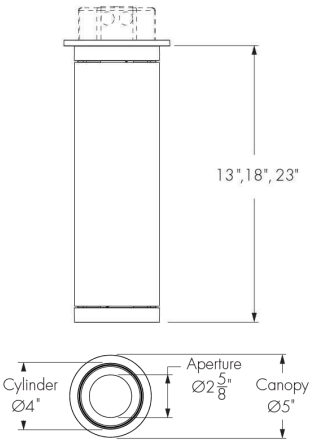


Project Name

Qty

Type

Catalog / Part Number



Front view

Bottom view

Photometric Summary

Based on Narrow Optic (Nominal 25°), MRGBWP in Optidrive™ (White 3000K CRI 96+)

Nominal output [lm]	Delivered output [lm]	Power (120V) [W]	Efficacy [lm/W]	Power (277V) [W]	Efficacy [lm/W]
700	490	11	45	11	45
1000	791	16	49	16	49
1300	1,089	23	47	23	47

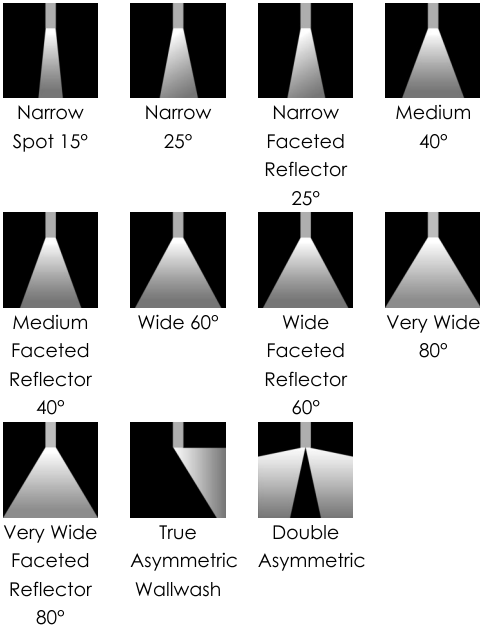
1. Consult website for latest IES files.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

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 Colors, 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 color options—it adapts beautifully to any space. Accessories, beam angle, and optics can be easily adjusted in the field for on-site flexibility.

Optics



Features

Mounting	Surface Mount
Light Direction	Direct lighting
Length	13 in, 18 in, 23 in
Direct Lighting Output (Nominal Lumens)	700lm, 1000lm, 1300lm
Direct Lighting Color 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 Faceted Reflector 25°, Medium 40°, Medium Faceted Reflector 40°, Wide 60°, Wide Faceted Reflector 60°, Very Wide 80°, Very Wide Faceted 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°), Decorative Ring
Warranty	5-year limited warranty

Color and Color Temperature



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



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

Control

DMX/RDM

Color 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
Gray



Metalized
Gray



Italian
Brick Red



Parget
White



Custom
Color &
Finish

Performance

Maximum Delivered Output	Up to 1,266 lm Wide Faceted Reflector Optic 60°, MRGBWP Optidrive™ Enabled (White 3000K 96+ CRI, DMX/RDM) Up to 1,322 lm Wide Faceted Reflector Optic 60°, MRGBWP Optidrive™ Enabled (White 4000K 95+ CRI, DMX/RDM)
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)
Color Rendering	CRI 90+ (White Light Only)
Lumen Maintenance	L95 50,000 hrs (Ta 25 °C)
Color Consistency	3 SDCM (in white light color temperatures)

Physical

Weight	Up to 7.62 lbs
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum

Electrical and Control

Voltage	120-277 Volts Universal
Control	DMX/RDM Enabled Dimming 0.1%

Environmental

Environment	Dry location (indoor applications only)
Operating Temperature	-4 °F to 86 °F
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

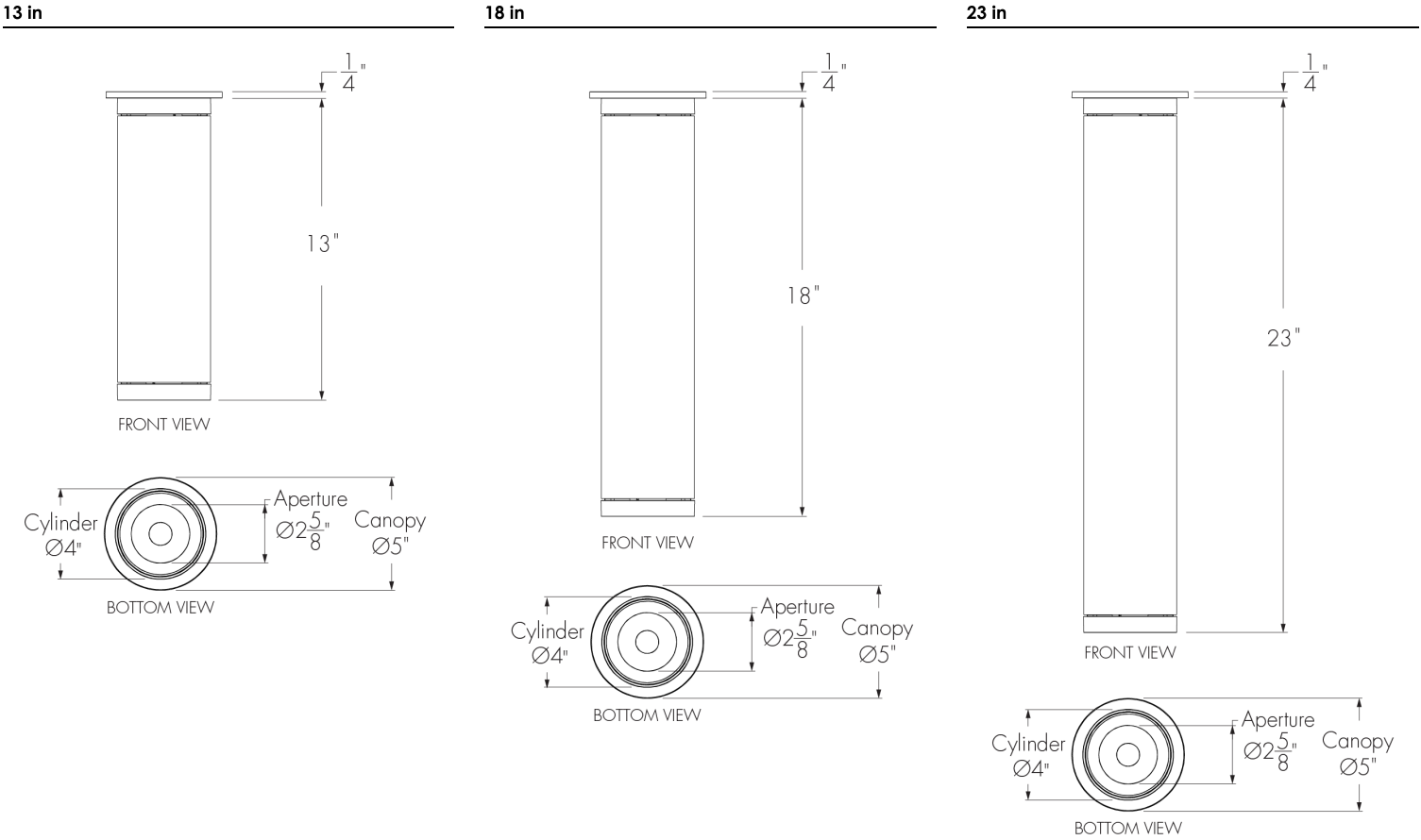
Virtual Patent Marking Notice

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.

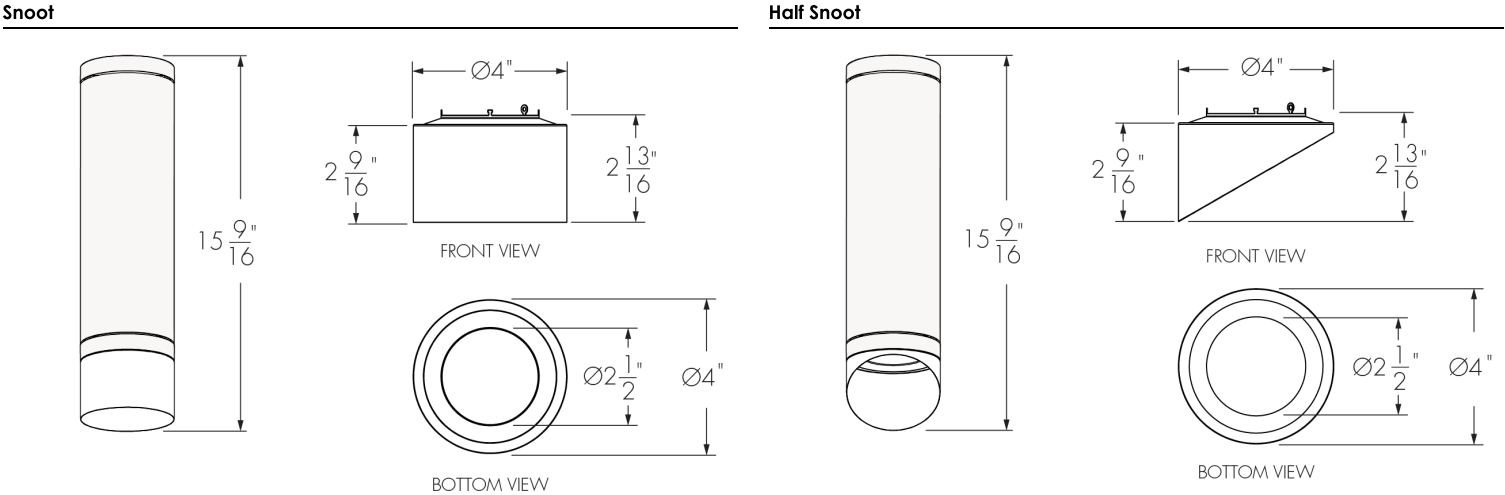
Certifications



Fixture Dimensions



Optical Accessory Dimensions (13 in Fixture Shown)



Photometric Information - Color 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

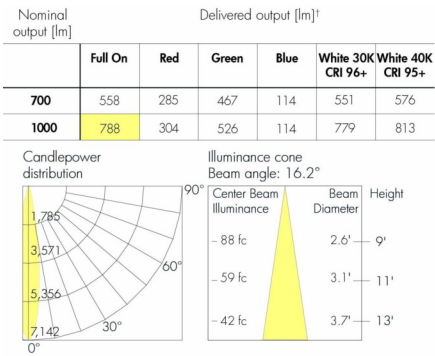
MRGBWP and MRGRBWP

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	
	120 V	277 V	120 V	277 V
700	14	14	11	11
1000	21	21	16	16
1300	N/A	N/A	23	23

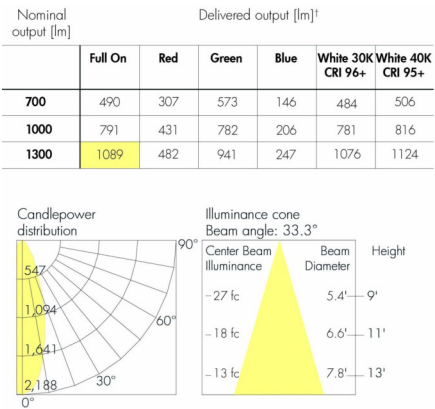
Power Consumption values are based on a MRGBWP or MRGRBWP Full On configuration.

Photometric Information - Direct Lighting Optics

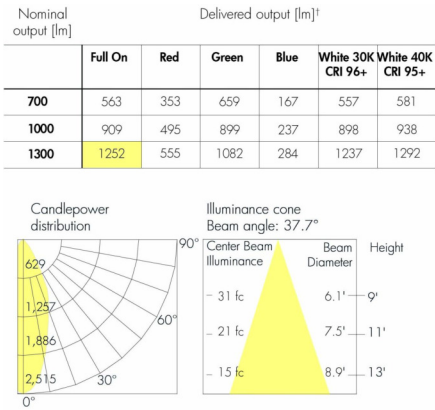
NS - Narrow Spot (Nominal 15°), 4000K



N - Narrow (Nominal 25°), 4000K



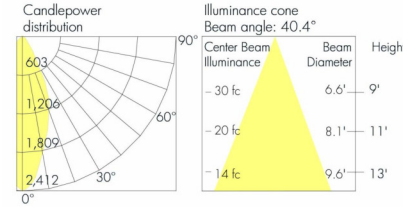
NFR - Narrow Faceted Reflector (Nominal 25°), 4000K



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

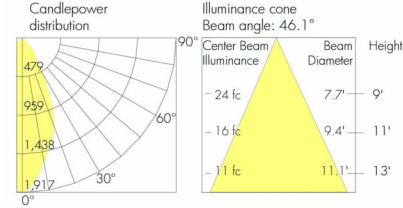
M - Medium (Nominal 40°), 4000K

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



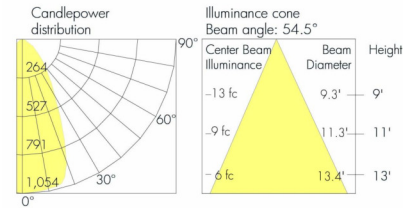
W - Wide (Nominal 60°), 4000K

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



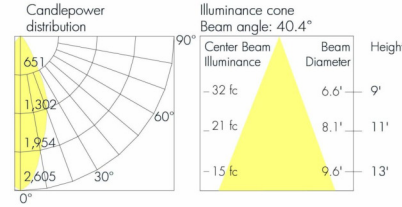
VW - Very Wide Reflector (Nominal 80°), 4000K

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



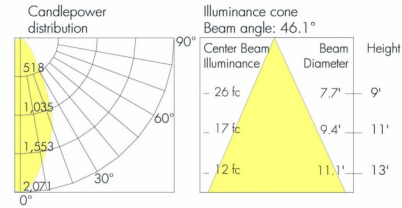
MFR - Medium Faceted Reflector (Nominal 40°), 4000K

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



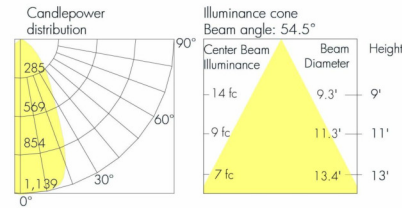
WFR - Wide Faceted Reflector (Nominal 60°), 4000K

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



VWFR - Very Wide Faceted 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

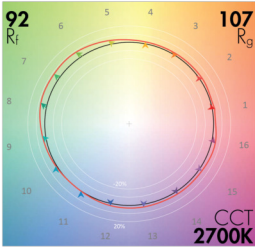


† Consult website for latest IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.

TM-30

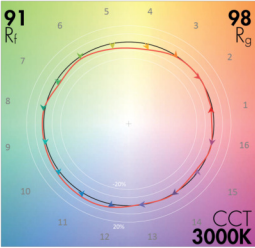
2700K - CRI 90+

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



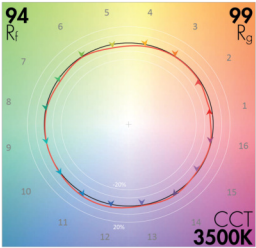
3000K - CRI 90+

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



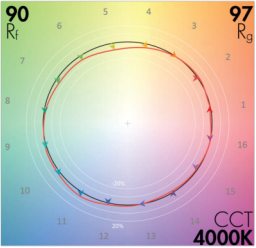
3500K - CRI 90+

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



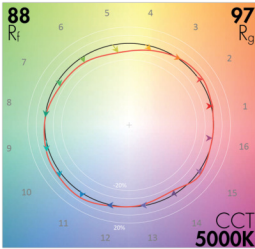
4000K - CRI 90+

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.

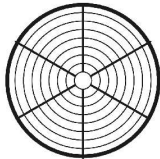
Optical Accessories

SN - Snoot



LACYS - SN

XLVR - Concentric Ring Louver



LACYS - XLVR

PD – Prismatic Diffuser



LACYS - PD

HSN - Half Snoot



LACYS - HSN

CL - Clear Glass Lens



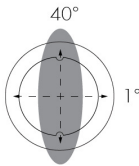
LACYS - CL

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



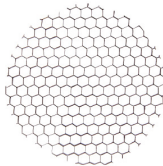
Horizontal Beam Distribution

LACYS - LSN



Vertical Beam Distribution

HL - Honeycomb Louver



LACYS - HL

SL - Softening Glass Lens



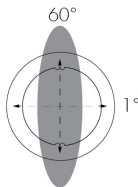
LACYS - SL

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



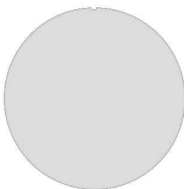
Horizontal Beam Distribution

LACYS - LSW



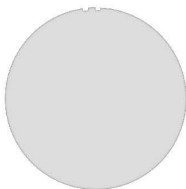
Vertical Beam Distribution

BW1 - Beam Widening Lens (+10°)



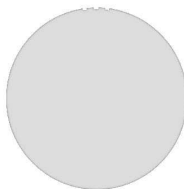
LACYS - BW1

BW2 - Beam Widening Lens (+20°)



LACYS - BW2

BW3 - Beam widening lens (+30°)



LACYS - BW3

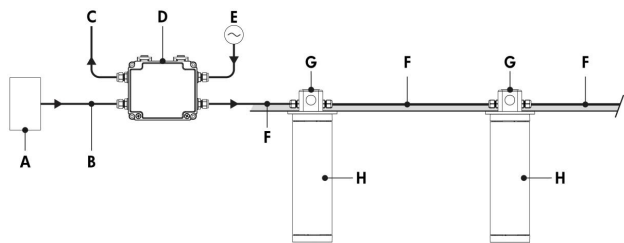
DR - Decorative Ring



LACYS - DR

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

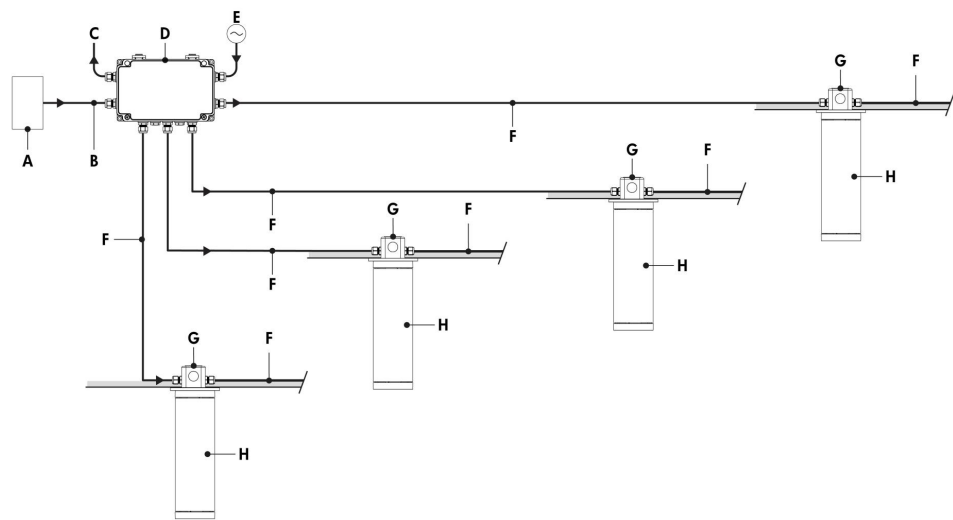
Daisy Chain Layout (DMX/RDM)



- 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 (120-277V AC, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - 4 in Octagonal/round junction box (by others)
- H - 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.

Star Layout (DMX/RDM)

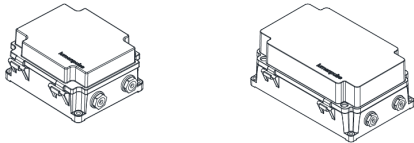


- A - DMX/RDM controller (to be ordered separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, non-isolated/non-boosted)
- D - CBX-ST
- E - Power line (120-277V AC, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - 4 in Octagonal/round junction box (by others)
- H - 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.

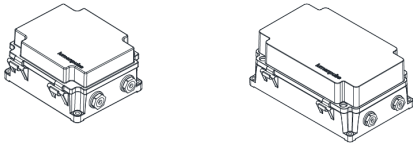
Control Boxes (Order Separately)

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.

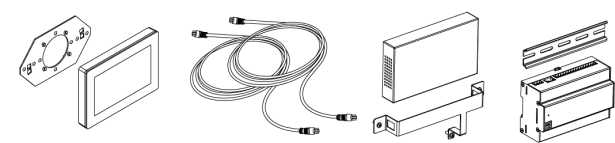
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

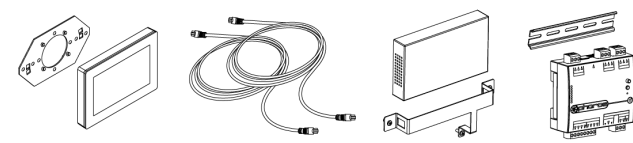
Control Systems (Order Separately)

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 Color Temperature ⁽³⁾	Direct Lighting Color Rendering	Direct Lighting Optics (Nominal Distribution)
LACYS Lumencore Cylinder Small - Ø4 in	A UL/cUL	SM Surface Mount	D Direct lighting	120/277 120-277 Volts Universal	13 13 in 18 18 in 23 23 in	dL07 700lm dL10 1000lm dL13 1300lm ⁽²⁾	MRGBWP Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K ^{(4) (5)} MRGRBWP Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K ^{(5) (6)}	CR90 CRI 90+ (White Light Only)	NS Narrow Spot 15° ⁽⁷⁾ N Narrow 25° ⁽⁷⁾ NFR Narrow Faceted Reflector 25° M Medium 40° MFR Medium Faceted Reflector 40° W Wide 60° WFR Wide Faceted Reflector 60° VW Very Wide 80° VWFR Very Wide Faceted 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 color 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 color temperatures from 2700K to 6500K.

7. Available up to 1000 lumens.

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

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

10. The color of the double asymmetric baffle is metallic gray.

How to Order

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

Notes:

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

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

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

13. 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.

14. 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.

15. Matte black interior surface, exterior finish matches housing color.

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

18. Can be combined with PD accessory only.

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

20. Nominal 10° x 40° distribution when used with the NS optic.

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

22. Nominal 10° x 60° distribution when used with the NS optic.

23. 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.

24. Longer lead times can be expected for custom RAL color finishes.