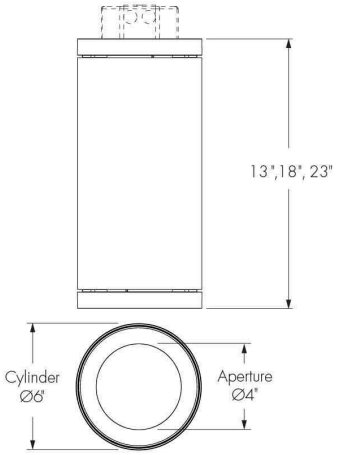
Project Name _____ **Qty** _____

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	484	11	44	11	44
1000	781	16	49	16	49
1300	1,076	23	47	23	47

1. Consult website for latest IES files.

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

Optics


Narrow Spot 15°


Narrow 25°


Narrow Faceted Reflector 25°


Medium 40°


Medium Faceted Reflector 40°


Wide 60°


Wide Faceted Reflector 60°

Description

The Lumencore Cylinder Opticolor+ Medium 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.

Features

Mounting	Surface Mount
Light Direction	Direct lighting
Length	13 in, 18 in, 23 in
Direct Lighting Output (Nominal Lumens)	700lm, 1000lm, 1300lm, 2000lm
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°
Optical Accessories	Snoot , Half Snoot, Honeycomb Louver, Clear Glass Lens, Softening Glass Lens, Prismatic Diffuser, Linear Spread Lens Narrow (1° x 40°), Linear Spread Lens Wide (1° x 60°)
Warranty	5-year limited warranty

Color and 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

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 1,424 lm Medium Faceted Reflector Optic 40°, MRGBWP Optidrive™ Enabled (White 3000K 96+ CRI, DMX/RDM) Up to 1,488 lm Medium Faceted Reflector Optic 40°, 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 10.58 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	Damp location (interior 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

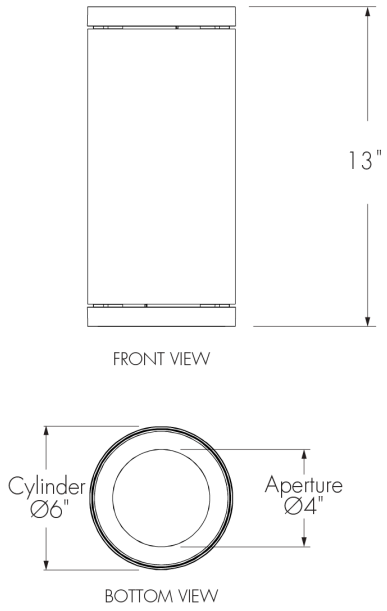
Virtual Patent Marking Notice

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.

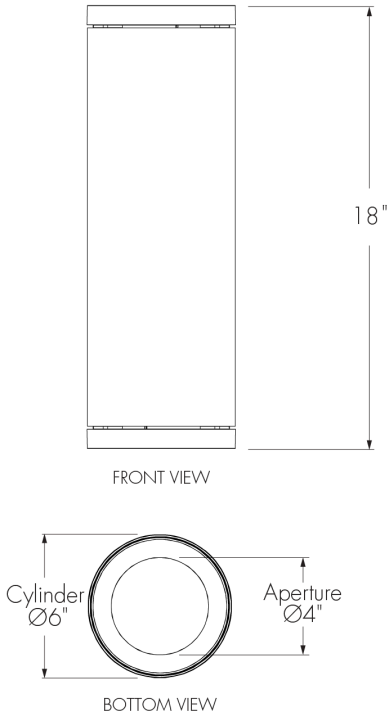
Certifications

Fixture Dimensions

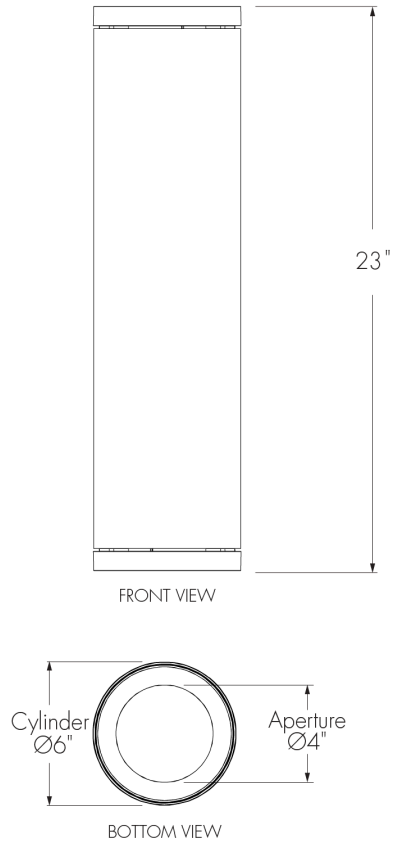
13 in



18 in

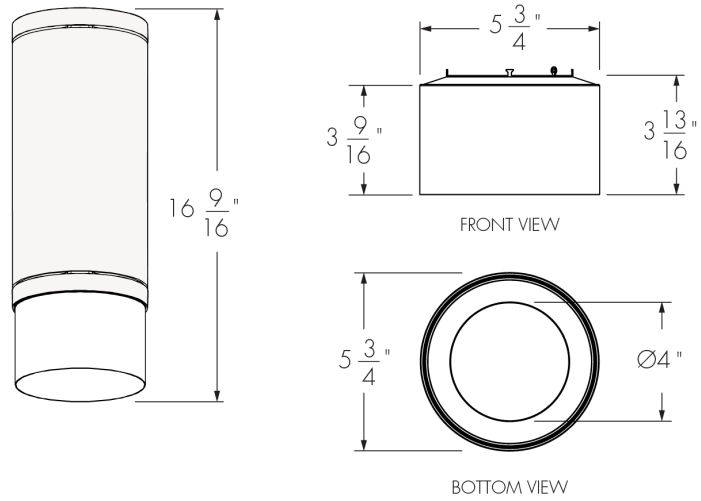


23 in

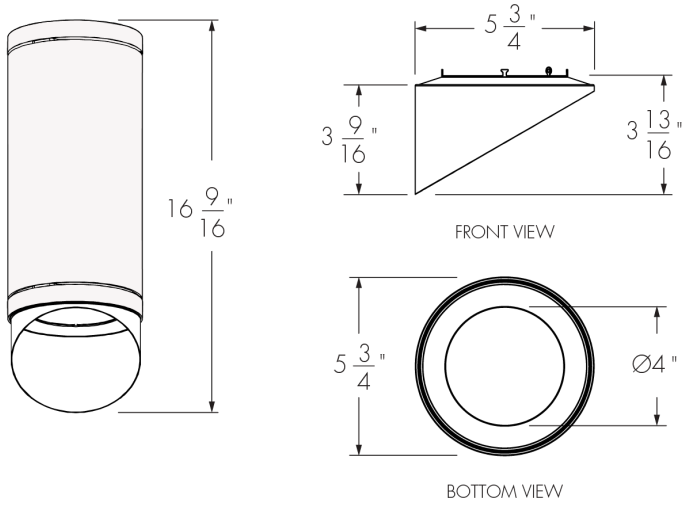


Optical Accessory Dimensions (13 in Fixture Shown)

Snoot



Half Snoot



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

Faceted Reflector
MFR/WFR

Power Consumption

MRGBWP and MRGRBWP

Power Consumption [W]				
	NS (15°)		**N** (25°) - **NFR** (25°) - **M** (40°) - **MFR** (40°) - **W** (60°) - **WFR** (60°)	
Output [lm]	**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
2000	N/A	N/A	32	32

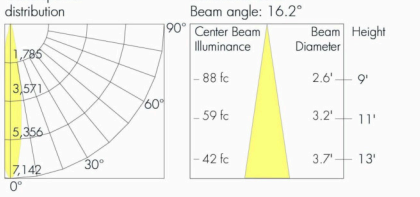
Power Consumption values are based on a MRGBWP or MRGRBWP Full On configuration.

Photometric Information - Direct Lighting Optics

NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	558	285	467	114	551	576
1000	788	304	526	114	779	813

Candlepower distribution

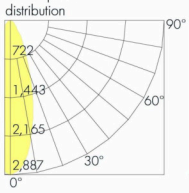


Illuminance cone
Beam angle: 16.2°

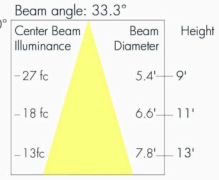
N - Narrow (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	490	307	573	146	484	506
1000	791	431	782	206	781	816
1300	1089	482	941	247	1076	1124

Candlepower distribution



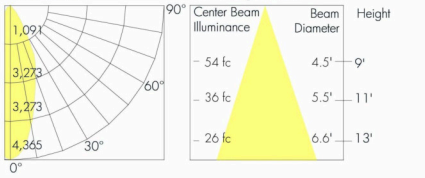
Illuminance cone
Beam angle: 33.3°



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

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	442	277	516	131	437	456
1000	713	388	705	186	704	736
1300	982	435	848	223	970	1013
2000	1296	434	1030	223	1280	1337

Candlepower distribution

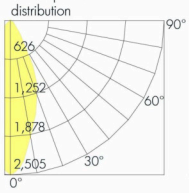


Illuminance cone
Beam angle: 28.3°

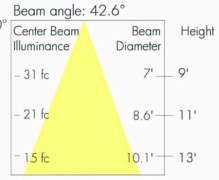
M - Medium (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†					
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	455	285	532	135	449	469
1000	734	400	726	192	725	757
1300	1011	448	873	229	999	1043
2000	1334	447	1061	229	1318	1377

Candlepower distribution



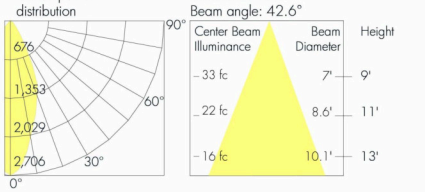
Illuminance cone
Beam angle: 42.6°



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	491	308	574	146	485	507
1000	793	432	784	207	783	818
1300	1092	484	943	248	1079	1127
2000	1441	483	1146	248	1424	1488

Candlepower distribution



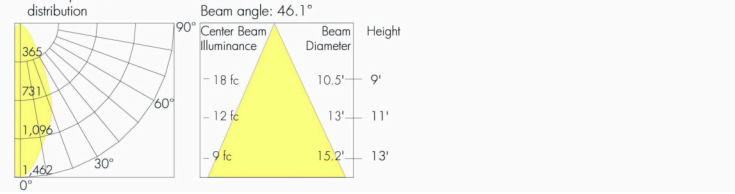
Illuminance cone
Beam angle: 42.6°

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

W - Wide (Nominal 60°), 4000K

Nominal output [lm] — Delivered output [lm]†

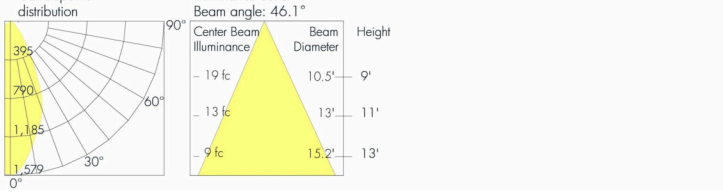
	Full On	Red	Green	Blue	White 30K CRI 96+	White 40K CRI 95+
700	454	284	530	135	448	468
1000	732	399	724	191	723	755
1300	1008	447	871	229	996	1040
2000	1331	446	1058	229	1315	1373



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	485	304	567	144	480	501
1000	783	427	774	204	774	808
1300	1079	478	932	245	1066	1113
2000	1424	477	1132	245	1407	1469

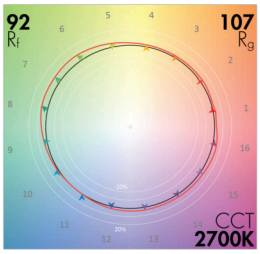


† Consult website for latest IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.

TM-30

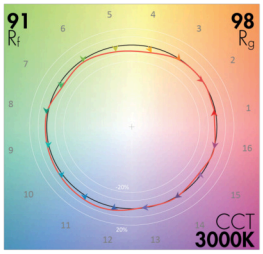
2700K - CRI 90+

CRI 90+				
CCT	**CIE**		**TM-30**	
2700K	R_a	90	92	R_f
	R_9	76	107	R_g



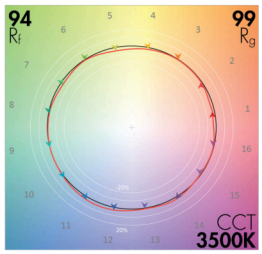
3000K - CRI 90+

CRI 90+				
CCT	**CIE**		**TM-30**	
3000K	R_a	96	91	R_f
	R_9	94	98	R_g



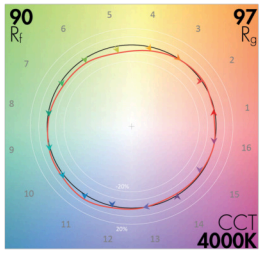
3500K - CRI 90+

CRI 90+				
CCT	**CIE**		**TM-30**	
3500K	R_a	97	94	R_f
	R_9	83	99	R_g



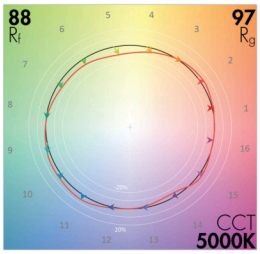
4000K - CRI 90+

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

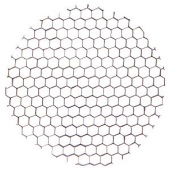
SN - Snoot

LACYM - SN

HSN - Half Snoot

LACYM - HSN

HL - Honeycomb Louver



LACYM - HL

CL - Clear Glass Lens

LACYM - CL

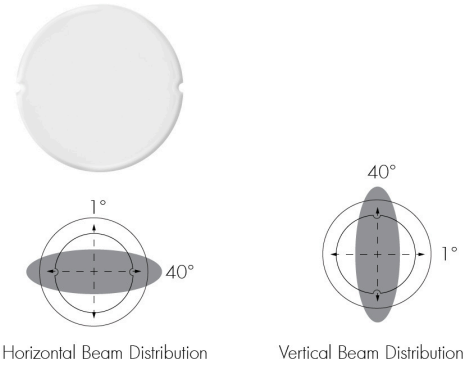
SL - Softening Glass Lens

LACYM - SL

PD – Prismatic Diffuser

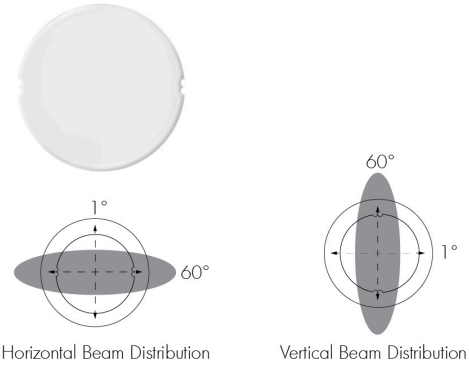
LACYM - PD

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



LACYM - LSN

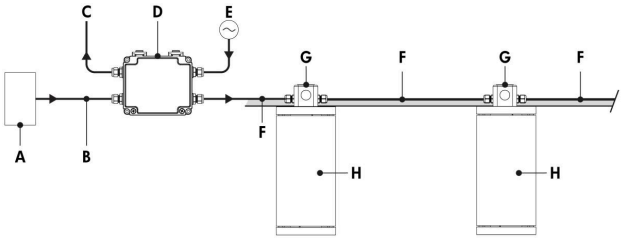
LSW - Linear Spread Lens Wide (1° x 60°)



LACYM - LSW

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

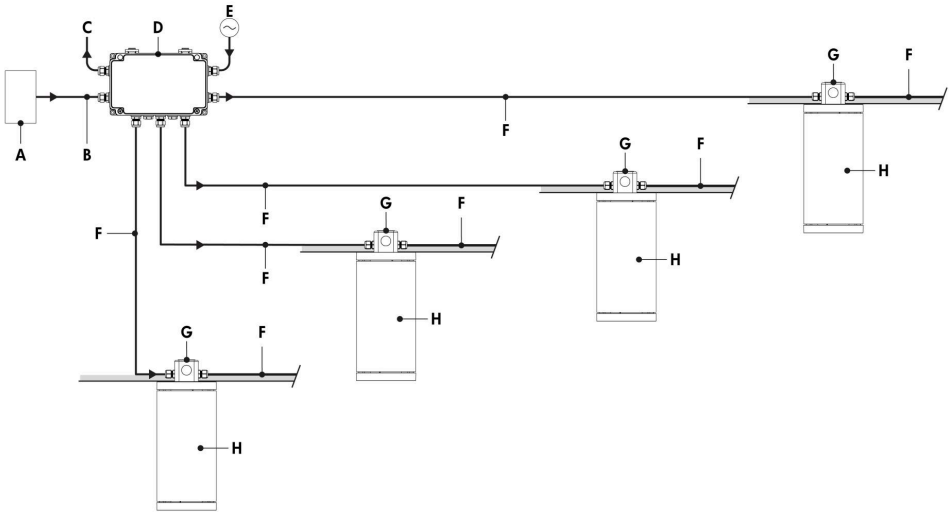
Daisy Chain Layout (DMX/RDM)



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 Medium 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)

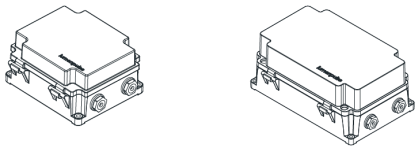


A - DMX/RDM controller (to be ordered separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, non-isolated/non-boosted)
D - CBX-ST
E - Power line (120-277V AC, wiring by others)
F - Power and data output to fixture (wiring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

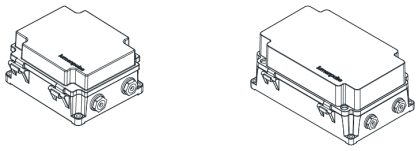
Control Boxes (Order Separately)

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.

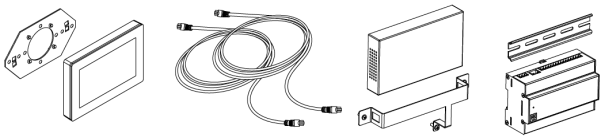
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

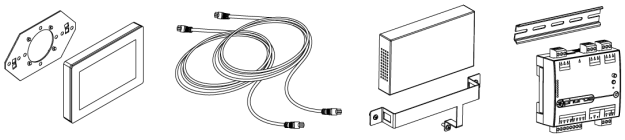
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



The Pharos Designer Lighting Contol 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 [4]	Direct Lighting Color Rendering	Direct Lighting Optics (Nominal Distribution)
LACYM Lumencore Cylinder Medium - Ø6 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] **dL20** 2000lm [3]	**MRGBWP** Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 22K to 65K [5] [6] **MRGRBWP** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 22K to 65K [6] [7]	**CR90** CRI 90+ (White Light Only)	**NS** Narrow Spot 15° [8] **N** Narrow 25° [9] **NFR** Narrow Faceted Reflector 25° **M** Medium 40° **MFR** Medium Faceted Reflector 40° **W** Wide 60° **WFR** Wide Faceted Reflector 60°

Notes:

1. Refer to website product configurator for all exceptions.
2. Available for N, NFR, M, MFR, W and WFR optics only.
3. Available for NFR, M, MFR, W and WFR optics only.
4. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
5. CRI 90 applies only to white light color temperatures from 2700K to 5000K.
6. 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.
7. CRI 90 applies only to white light color temperatures from 2700K to 6500K.
8. Available up to 1000 lumens.
9. Available up to 1300 lumens.

How to Order

Direct Lighting Control	Direct Lighting Accessories [12] [13]	Finish	Bezel	Bezel Finish
DMX/RDM DMX/RDM Enabled Dimming 0.1% [10] [11] **DALIT8** DALI-2 T8 Enabled Dimming 1%	**NA** No Accessory **SN** Snoot [14] **HSN** Half Snoot [14] **HL** Honeycomb Louver [15] **CL** Clear Glass Lens **SL** Softening Glass Lens **PD** Prismatic Diffuser [16] **LSN** Linear Spread Lens Narrow (1° x 40°) [17] [18] **LSW** Linear Spread Lens Wide (1° x 60°) [18] [19]	**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 [20]	**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 [20]

Notes:

10. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.
11. Configurable to 3, 4, or 5 channel control via RDM in the field.
12. 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.
13. 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.
14. Matte black interior surface, exterior finish matches housing color.
15. When combined with another accessory, the HL will be factory-installed in second position (furthest from the LED source).
16. Recommended to be combined with HL accessory only.
17. Nominal 10° x 40° distribution when used with the NS optic.
18. For optimal performance, it is not recommended to mix with other accessories.
19. Nominal 10° x 60° distribution when used with the NS optic.
20. Longer lead times can be expected for custom RAL color finishes.