Project Name		Qty	
Type	Catalog / Part Number		

Front view

Bottom view

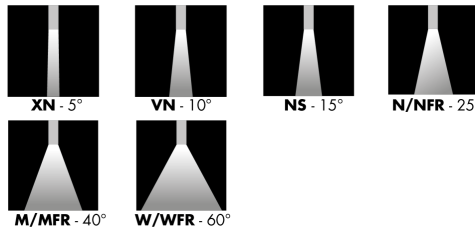Cylinder Ø6"   Aperture Ø4"

13",18", 23"
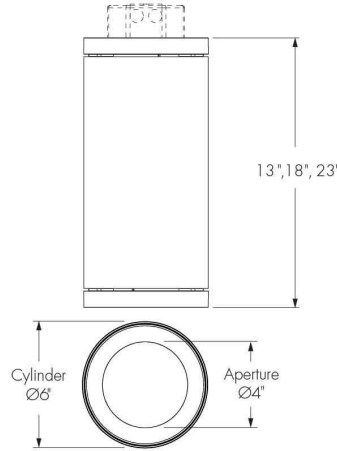
Photometric Summary

Based on Narrow Optic (nominal 25°), 4000K, CRI 80+

Nominal output [lm]	Delivered output [lm][1]	Power (120V) [W][2]	Efficacy [lm/W]	Power (277V) [W][2]	Efficacy [lm/W]
700	698	6.5	107	8	87
1000	921	8	115	10	92
1300	1,256	11	114	13	97
2000	1,953	18	109	19	103

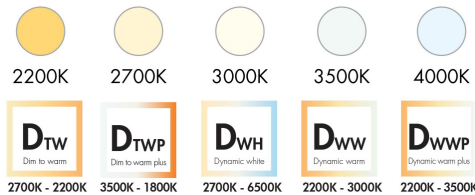[1] Preliminary, consult website for latest IES files.
[2] Add 3 watts per fixture when specifying Lumentalk™.

Optics

XN - 5°	**VN** - 10°	**NS** - 15°	**N/NFR** - 25°
M/MFR - 40°	**W/WFR** - 60°		

Colors and Color Temperatures

2200K	2700K	3000K	3500K	4000K

D_{TW} Dim to warm	D_{TWP} Dim to warm plus	D_{WH} Dynamic white	D_{WW} Dynamic warm	D_{WWP} Dynamic warm plus
2700K - 2200K	3500K - 1800K	2700K - 6500K	2200K - 3000K	2200K - 3500K

Description

The Lumencore Cylinder Medium Surface Mount is a high-performance LED luminaire that is ideal for commercial, residential or hospitality applications and delivers up to 4000 lumens from a 6 in diameter. The Lumencore Cylinder Medium Surface Mount comes in a number of finishes, or can be color-specified to fit your taste. Its accessories, beam angles, trims, and optics are easily and quickly changeable in the field.

Features

Mounting	Surface Mount
Light Direction	Direct lighting
Length	13 in, 18 in, 23 in
Direct Lighting Output (nominal lumens)	700lm, 1000lm, 1300lm, 2000lm, 3000lm, 4000lm
Direct Lighting Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Dim to Warm (2700K to 2200K), Dim to Warm Plus (3500K to 1800K), Dynamic White (2700K to 6500K), Dynamic Warm White (2200K to 3000K), Dynamic Warm White Plus (2200K to 3500K)
Direct Lighting Optics (nominal distribution)	Extra narrow spot 5°, Very narrow spot 10°, 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

Performance

Maximum Delivered Output	Up to 4,253 lm (medium faceted reflector optic 40°, 4000K, CRI 80)
Maximum Delivered Intensity	Up to 63,952 cd (extra narrow spot optic 5°, 4000K, CRI 80)

Controls

ON/OFF PH PRO PH 0 -10V PRO 0 -10V DALI PRO DALI

DALIT8 LUTRON lumentalk DMXrdm

Finishes

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-Metalized grey

IBR-Italian brick red

PWH-Parget white

CC-Custom color and finish
(Please specify RAL color)

Certifications

cULus RoHS 5 YEARS lumenpulse

Efficacy	Up to 129 lm/W (narrow spot optic 15°, 4000K, CRI 80)
Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Color Rendering	CRI 80+, CRI 90+, CRI 95+
Lumen Maintenance	L95 55,000 hrs L70 225,000 hrs
UGR	< 19

Physical

Weight	Up to 10.58 lbs
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum

Electrical and Control

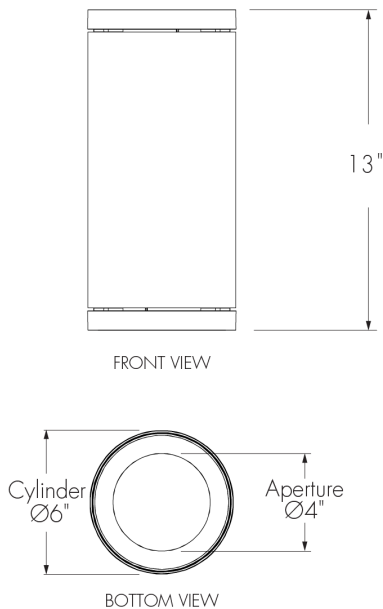|	
Voltage	120 volts, 277 volts, 347 volts
Control	On/Off Control, Phase dimming, Pro Phase 1% dimming, Pro Phase Lutron® Hi-lume 1% 2-wire LTEA 120V (temporarily unavailable), Standard 0-10V dimming to 1% linear curve, Standard 0-10V (1% linear or logarithmic), Pro 0-10V (0.1% linear or logarithmic), Standard DALI (1% linear or logarithmic), DALI (0.1% linear or logarithmic), DALI-2 dimming Type 8 (multi channel capability), Lumentalk, Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black, DMX/RDM enabled

Environmental

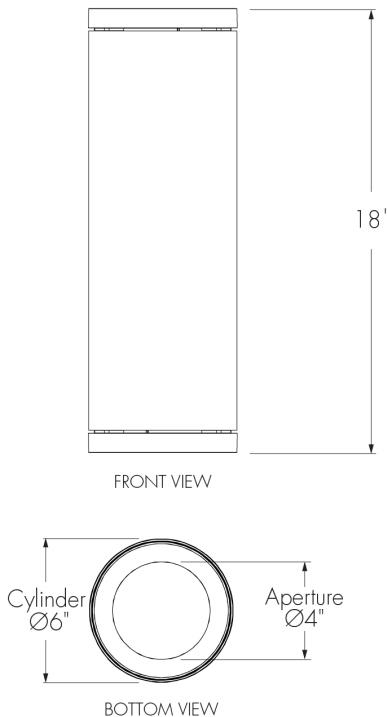|	
Environment	Damp location (interior applications only)
Operating Temperature	-4 °F to 86 °F
Ingress Protection Rating	IP20

Accessories (Order Separately)

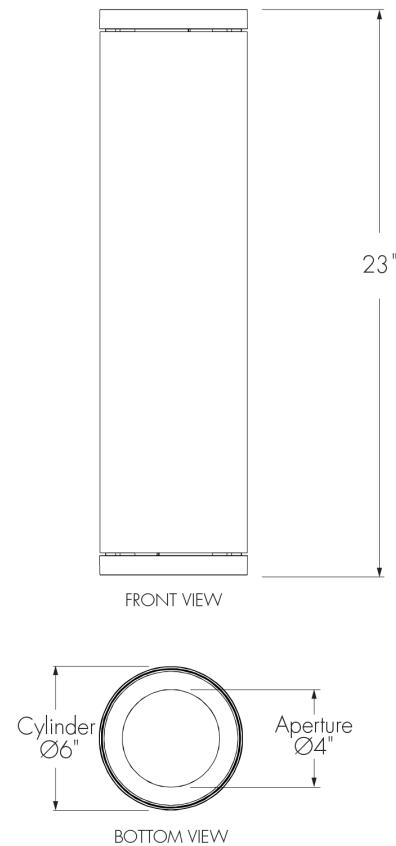|	
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2 (LTN2), Pharos® kit (PHAROS), Consult control systems section for details
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

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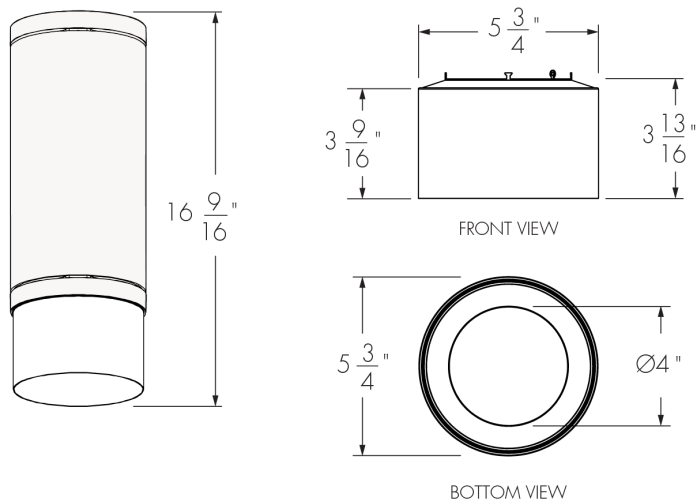1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | Toll-Free 1.877.937.3003 | info@lumenpulse.com
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EM - R13

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Fixture Dimensions

13 in

13"

FRONT VIEW

Cylinder Ø6"   Aperture Ø4"

BOTTOM VIEW

18 in

18"

FRONT VIEW

Cylinder Ø6"   Aperture Ø4"

BOTTOM VIEW

23 in

23"

FRONT VIEW

Cylinder Ø6"   Aperture Ø4"

BOTTOM VIEW

Optical Accessory Dimensions (13 in Fixture Shown)

Snoot

$16 \frac{9}{16}$"

$5 \frac{3}{4}$"

$3 \frac{9}{16}$" $3 \frac{13}{16}$"

FRONT VIEW

$5 \frac{3}{4}$"   Ø4"

BOTTOM VIEW

Half Snoot

$16 \frac{9}{16}$"

$5 \frac{3}{4}$"

$3 \frac{9}{16}$" $3 \frac{13}{16}$"

FRONT VIEW

$5 \frac{3}{4}$"   Ø4"

BOTTOM VIEW

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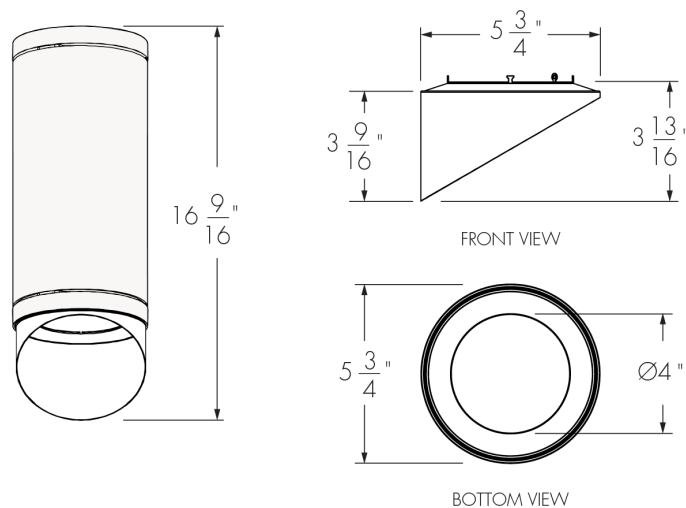
Photometric Information - Color Rendering Options Comparison, 3000K

Color sample	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
CRI 80+	84	82	90	97	83	82	88	86	63	15	77	83	68	84	98	75
CRI 90+	92	93	97	98	92	93	97	90	79	55	93	93	85	94	100	88
CRI 95+	97	96	97	99	96	96	95	96	97	97	96	95	86	96	98	97
Radiant CRI 80+	84	83	91	96	81	82	89	83	62	15	79	80	69	85	98	76
Radiant CRI 95+	95	95	94	95	98	94	90	94	96	96	89	95	80	94	98	96

Optics

TIR Optic
XN/VN/NS/N

Semi-Specular reflector
M/W

Faceted reflector
NFR/MFR/WFR

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Color and Color Temperature

Color Temperature Ranges
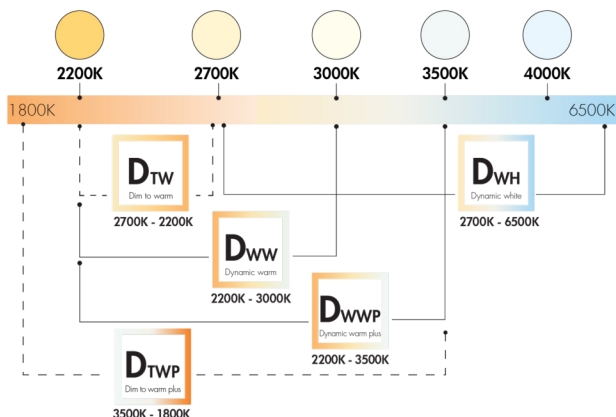
- - - **1 channel (DTW, DTWP)** Compatible with: DA1 SDALI DMX**rdm** lumen**talk**
—— **2 channels (DWH, DWW, DWWP)** Compatible with: DALIT8 DMX**rdm** lumen**talk**
—— **3 channels* (DWH, DWW, DWWP)** Compatible with: DALIT8 DMX**rdm** lumen**talk**

*Can be field changeable via RDM & LT for individual CCT control.
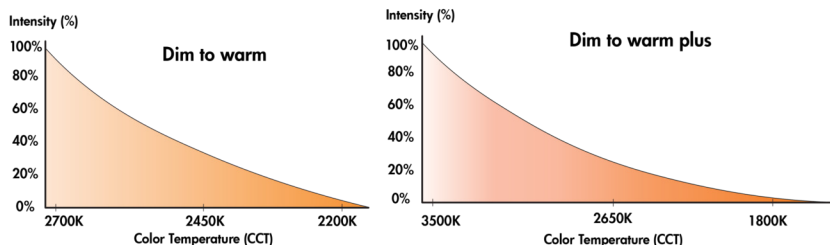
Control

On/off control
NO - On/off control

Phase dimming
PH - Phase dimming
PPH - Pro Phase 1% dimming
PPH2 - Pro Phase Lutron® Hi-lume 1% 2-wire LTEA 120V*

Standard 0-10V dimming down to 1%
DAMC - Standard 0-10V dimming to 1% linear curve
DA1 - Standard 0-10V dimming, 1% linear
DA2 - Standard 0-10V dimming, 1% logarithmic
DA3 - Standard 0-10V dimming, 1% linear (347V)

Professional 0-10V dimming down to 0.1%
PDA1 - Pro 0-10V dimming, 0.1% linear
PDA2 - Pro 0-10V dimming, 0.1% logarithmic

Standard DALI dimming down to 1%
SDALI1 - Standard DALI dimming, 1% linear
SDALI2 - Standard DALI dimming, 1% logarithmic

Professional DALI dimming down to 0.1%
DALI1 - Pro DALI dimming, 0.1% linear
DALI2 - Pro DALI dimming, 0.1% logarithmic

DALI dimming Type 8
DALIT8 - DALI-2 dimming Type 8 (multi channel capability)

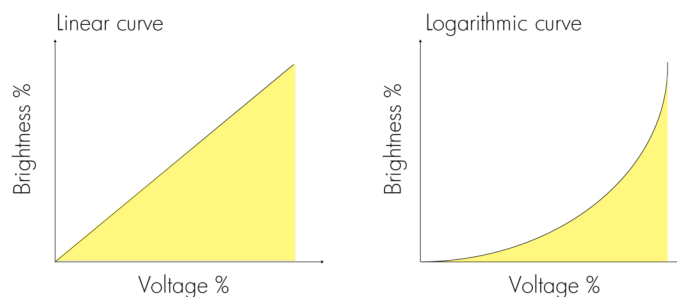### lumen**talk** dimming
LT - Lumentalk dimming, 1% minimum dimming value

Lutron® EcoSystem®
ES - Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black
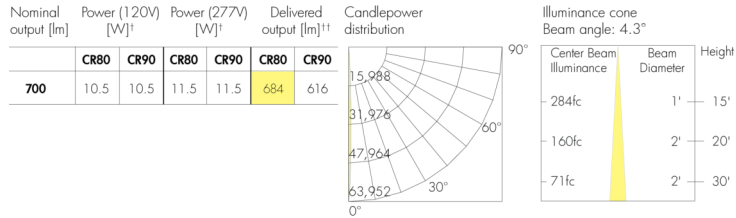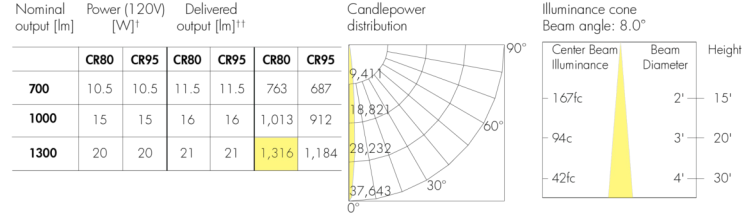1% minimum dimming value

DMX**rdm**
DMX/RDM - DMX/RDM enabled

*Consult factory for Pro Phase dimming option

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Photometric Information - Direct Lighting Optics

XN - Extra Narrow Spot (Nominal 5°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]	
	CR80	CR90	CR80	CR90	CR80	CR90
700	10.5	10.5	11.5	11.5	684	616

Candlepower distribution
15,988
31,976
47,964
63,952

Illuminance cone
Beam angle: 4.3°

Center Beam Illuminance	Beam Diameter	Height
284fc	1'	15'
160fc	2'	20'
71fc	2'	30'

VN - Very Narrow Spot (Nominal 10°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	10.5	10.5	11.5	11.5	763	687
1000	15	15	16	16	1,013	912
1300	20	20	21	21	1,316	1,184

Candlepower distribution
9,411
18,821
28,232
37,643

Illuminance cone
Beam angle: 8.0°

Center Beam Illuminance	Beam Diameter	Height
167fc	2'	15'
94c	3'	20'
42fc	4'	30'

NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	7.5	8.5	9	10.5	969	872
1000	11	13	13	15	1,279	1,151
1300	13	18	15	20	1,744	1,570
2000	21	N/A	22	N/A	2,713	N/A

Candlepower distribution
7,398
14,797
22,195
29,594

Illuminance cone
Beam angle: 15.0°

Center Beam Illuminance	Beam Diameter	Height
132fc	4'	15'
74fc	5'	20'
33fc	8'	30'

N - Narrow (Nominal 25°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	6.5	7	8	9	698	628
1000	8	11	10	13	921	829
1300	11	13	13	15	1,256	1,130
2000	18	21	19	22	1,953	1,758

Candlepower distribution
1,171
2,342
3,512
4,683

Illuminance cone
Beam angle: 29.6°

Center Beam Illuminance	Beam Diameter	Height
21fc	8'	15'
12fc	11'	20'
5fc	16'	30'

M - Medium (Nominal 40°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	6.5	7	8	9	723	650
1000	8	11	10	13	954	859
1300	11	13	13	15	1,301	1,171
2000	18	21	19	22	2,024	1,821
3000	28	41	29	41	3,035	2,732
4000	41	N/A	41	N/A	3,975	N/A

Candlepower distribution
1,663
3,326
4,988
6,651

Illuminance cone
Beam angle: 44.1°

Center Beam Illuminance	Beam Diameter	Height
30fc	12'	15'
17fc	16'	20'
7fc	24'	30'
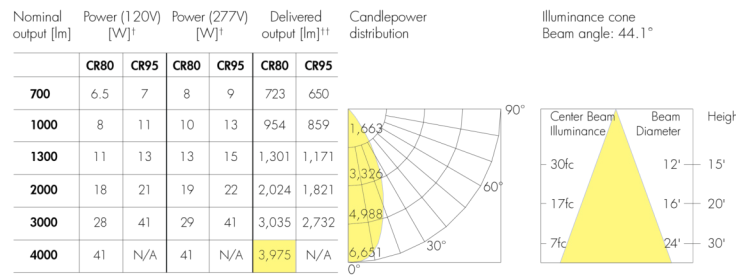
MFR - Medium Faceted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	6.5	7	8	9	774	696
1000	8	11	10	13	1,021	919
1300	11	13	13	15	1,392	1,253
2000	18	21	19	22	2,166	1,949
3000	28	41	29	41	3,248	2,923
4000	41	N/A	41	N/A	4,253	N/A

Candlepower distribution
1,779
3,559
5,337
7,117

Illuminance cone
Beam angle: 44.1°

Center Beam Illuminance	Beam Diameter	Height
32fc	13'	15'
18fc	17'	20'
7fc	26'	30'

W - Wide (Nominal 60°), 4000K

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	6.5	7	8	9	677	609
1000	8	11	10	13	893	804
1300	11	13	13	15	1,218	1,096
2000	18	21	19	22	1,894	1,705
3000	28	41	29	41	2,841	2,557
4000	41	N/A	41	N/A	3,721	N/A

Candlepower distribution
1,031
2,062
3,093
4,124

Illuminance cone
Beam angle: 60.8°

Center Beam Illuminance	Beam Diameter	Height
18fc	18'	15'
10fc	24'	20'
5fc	35'	30'

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

Nominal output [lm]	Power (120V) [W]†		Power (277V) [W]†		Delivered output [lm]††	
	CR80	CR95	CR80	CR95	CR80	CR95
700	6.5	7	8	9	724	652
1000	8	11	10	13	956	860
1300	11	13	13	15	1,303	1,173
2000	18	21	19	22	2,027	1,824
3000	28	41	29	41	3,040	2,736
4000	41	N/A	41	N/A	3,982	N/A

Candlepower distribution
1,103
2,206
3,310
4,413

Illuminance cone
Beam angle: 60.8°

| Center Beam Illuminance	Beam Diameter	Height
19fc	19'	15'
11fc	26'	20'
5fc	37'	30'

† Delivered wattage: +/- 10% tolerance. Add 3 watts per fixture when specifying Lumentalk™.

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

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EM - R13

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

On/Off Control (NO)
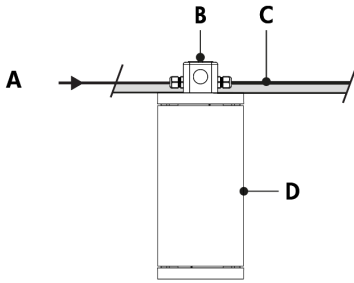
A - Power input (120-347V)
B - 4 in octagonal/round junction box (by others)
C - Power wiring (by others)
D - Lumencore Cylinder Medium Surface Mount
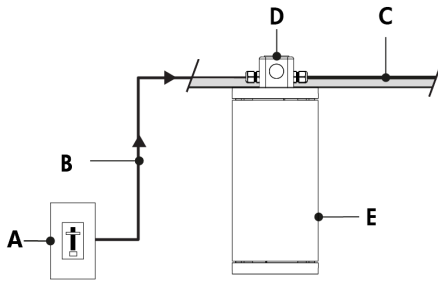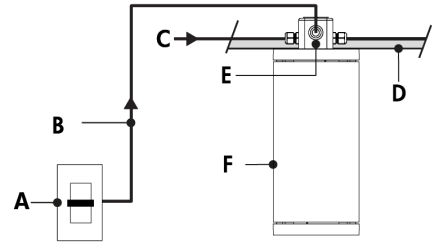
On/Off Control (NO) - Wiring Detail
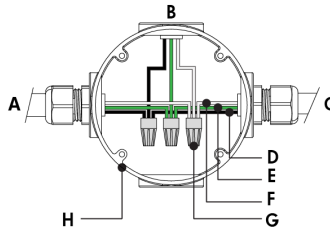
A - Power input or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

Wiring Color Code

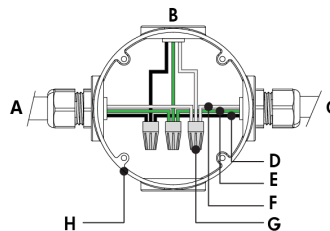| Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey	0-10V / Data -

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Consult Photometric Information pages for wattage information.

Phase Dimming (PH, PPH, PPH2)

A - Phase dimmer (by others)
B - Phase dimmed power circuit (120V)
C - Power wiring (by others)
D - 4 in octagonal/round junction box (by others)
E - Lumencore Cylinder Medium Surface Mount

Phase Dimming (PH, PPH, PPH2) - Wiring Detail

A - Power input or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

Wiring Color Code

Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey	0-10V / Data -

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Consult Photometric Information pages for wattage information.

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0-10V Dimming (DAMC, DA1, DA2, DA3, PDA1, PDA2)

A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-347V)
D - Power and data wiring (by others)
E - 4 in octagonal/round junction box (by others)
F - Lumencore Cylinder Medium Surface Mount

0-10V Dimming (DAMC, DA1, DA2, DA3, PDA1, PDA2) - Wiring Detail
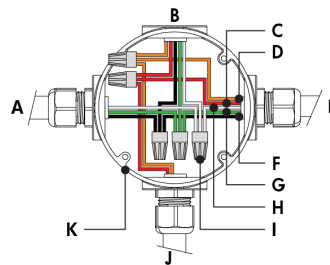
A - Power input or from previous fixture
B - To fixture
C - 0-10V +
D - 0-10V -
E - To next fixture
F - Line
G - Ground
H - Neutral
I - Wire-nuts (by others)
J - From dimmer (by others)
K - 4 in octagonal/round junction box (by others)

Wiring Color Code

Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey	0-10V / Data -

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Consult Photometric Information pages for wattage information.

Lumentalk (LT)
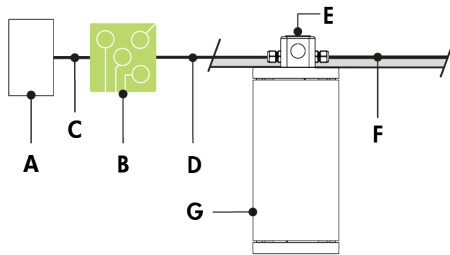
A - Dimmer/controller (by others)
B - Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -DALI)
C - Data wiring (by others)
D - Power line (120-277V AC)
E - 4 in octagonal/round junction box (by others)
F - Power wiring (by others)
G - Lumencore Cylinder Medium Surface Mount

Lumentalk (LT) - Wiring Detail

A - Power input (control over power line via Lumentalk system) or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

Wiring Color Code

Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey	0-10V / Data -

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator 2 or Lumenlink) per system. No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for DALI Lumentalk applications.Consult factory for applications that require additional capabilities.
- Consult Photometric Information pages for wattage information.
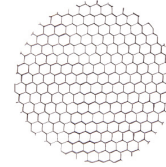
Optical Accessories

SN - Snoot

LACYM - SN

HSN - Half Snoot

LACYM - HSN

HL - Honeycomb Louver

LACYM - HL

CL - Clear Glass Lens
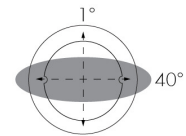
LACYM - CL

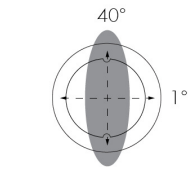**SL - Softening Glass Lens**

LACYM - SL

PD – Prismatic Diffuser
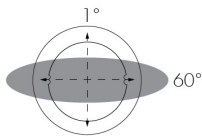
LACYM - PD

LSN - Linear Spread Lens Narrow (1° x 40°)
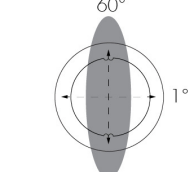
Horizontal Beam Distribution   Vertical Beam Distribution

LACYM - LSN

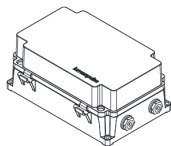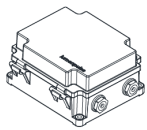**LSW - Linear Spread Lens Wide (1° x 60°)**

Horizontal Beam Distribution   Vertical Beam Distribution

LACYM - LSW

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)
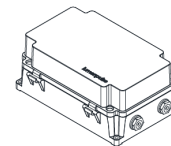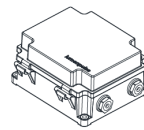
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.
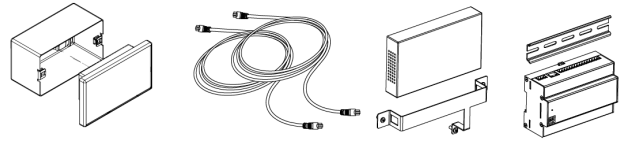
Control Systems (Order Separately)

LTN2 - Lumentone™ 2

Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® Kit

The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID

LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

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Specification Sheet

How to Order

Housing (1)	Certification	Mounting	Light Direction	Voltage	Length	Direct Lighting Output (nominal lumens)	Direct Lighting Color Temperature	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** 120 volts	**13** 13 in	**dL07** 700lm	**22K** 2200K (3) (7)	**CR80** CRI 80+ (11)	**XN** Extra narrow spot 5° (14)
				277 277 volts	**18** 18 in	**dL10** 1000lm (4)	**27K** 2700K	**CR90** CRI 90+ (12)	**VN** Very narrow spot 10° (15)
				347 347 volts (2) (3)	**23** 23 in	**dL13** 1300lm (4)	**30K** 3000K	**CR95** CRI 95+	**NS** Narrow spot 15° (16)
						dL20 2000lm (5)	**35K** 3500K	**RCR80** Radiant CRI 80+ (3) (13)	**N** Narrow 25° (16)
						dL30 3000lm (6)	**40K** 4000K	**RCR95** Radiant CRI 95+ (3) (13)	**NFR** Narrow faceted reflector 25°
						dL40 4000lm (6)	**DTW** Dim to Warm (2700K to 2200K) (8) (9)		**M** Medium 40°
							DTWP Dim to Warm Plus (3500K to 1800K) (8) (9)		**MFR** Medium faceted reflector 40°
							DWH Dynamic White (2700K to 6500K) (9) (10)		**W** Wide 60°
							DWW Dynamic Warm White (2200K to 3000K) (9) (10)		**WFR** Wide faceted reflector 60°
							DWWP Dynamic Warm White Plus (2200K to 3500K) (9) (10)		

Notes:

1. Refer to website product configurator for all exceptions.
2. Not available for 700 lumens.
3. Not available for XN and VN optics.
4. Available for VN, NS, N, NFR, M, MFR, W and WFR optics only.
5. Available for NS, N, NFR, M, MFR, W and WFR optics only.
6. Available for NFR, M, MFR, W and WFR optics only.
7. Available for CR80 only.
8. Available for 1000, 1300 and 2000 lumens when combined with NFR, M, MFR, W and WFR optics only.
9. NFR, MFR and WFR faceted reflector optics are recommended for optimal performance.

10. Available for 1300 lumens when combined with CR80 and NFR, M, MFR, W or WFR optics only.
11. Available for 2200K, 2700K, 3000K, 3500K, 4000K and DWH, DWW or DWWP color options only.
12. Available for 2700K, 3000K, 3500K and 4000K color options when combined with XN or VN optics only. Available for DTW and DTWP color options when combined with NFR, M, MFR, W or WFR optics only.
13. Radiant CRI options available for 3000K only.
14. Available for 700 lumens when combined with CR80 or CR90 color rendering options only.
15. Available for 700, 1000 and 1300 lumens when combined with CR80 or CR90 color rendering options only.
16. Available up to 2000 lumens.

How to Order

Direct Lighting Control [17]	Direct Lighting Accessories [42] [43]	Finish	Bezel	Bezel Finish
NO On/off control [18] [19] [20]	**NA** No accessory	**MWH** Matte White	**b** Bezel	**MWH** Matte White
PH Phase dimming [20] [21] [22] [23]	**SN** Snoot [44]	**MBK** Matte Black		**MBK** Matte Black
PPH Pro Phase 1% dimming [3] [20] [23] [24] [25]	**HSN** Half snoot [44]	**MBR** Matte Brown		**MBR** Matte Brown
PPH2 Pro Phase Lutron® Hi-lume 1% 2-wire LTEA 120V (temporarily unavailable) [3] [20] [23] [26] [27] [28]	**HL** Honeycomb louver [45]	**MOR** Matte Orange		**MOR** Matte Orange
DAMC Standard 0-10V dimming to 1% linear curve [20] [24] [29] [30] [31]	**CL** Clear glass lens	**MGR** Matte Green		**MGR** Matte Green
DA1 Standard 0-10V dimming 1% linear [19] [32] [33]	**SL** Softening glass lens	**MBL** Matte Blue		**MBL** Matte Blue
DA2 Standard 0-10V dimming 1% logarithmic [19] [32] [33]	**PD** Prismatic Diffuser [46]	**MSI** Matte Silver		**MSI** Matte Silver
DA3 Standard 0-10V dimming 1% linear (347V) [19] [33]	**LSN** Linear spread lens narrow (1° x 40°) [47] [48]	**GWH** Glossy White		**GWH** Glossy White
PDA1 Pro 0-10V dimming 0.1% linear [19] [20] [32]	**LSW** Linear spread lens wide (1° x 60°) [48] [49]	**GBK** Glossy Black		**GBK** Glossy Black
PDA2 Pro 0-10V dimming 0.1% logarithmic [19] [20] [32]		**GYL** Glossy Yellow		**GYL** Glossy Yellow
SDALI1 Standard DALI dimming 1% linear [31] [34]		**GLR** Glossy Red		**GLR** Glossy Red
SDALI2 Standard DALI dimming 1% logarithmic [31] [34]		**GVI** Glossy Violet		**GVI** Glossy Violet
DALI1 Pro DALI dimming 0.1% linear [19] [20] [35]		**GGR** Glossy Green		**GGR** Glossy Green
DALI2 Pro DALI dimming 0.1% logarithmic [19] [20] [35]		**GIY** Glossy Ivory		**GIY** Glossy Ivory
DALIT8 DALI-2 dimming Type 8 (multi channel capability) [36] [37]		**CGY** Concrete Grey		**CGY** Concrete Grey
ES Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black [3] [20] [38]		**MLG** Metalized Grey		**MLG** Metalized Grey
LT Lumentalk dimming [39] [40]		**IBR** Italian Brick Red		**IBR** Italian Brick Red
DMX/RDM DMX/RDM enabled [39] [41]		**PWH** Parget White		**PWH** Parget White
		CC Custom Color & Finish [50]		**CC** Custom Color & Finish [50]

Notes:

3. Not available for XN and VN optics.

17. Control options vary according to color temperature, color rendering and optics combination. Refer to website product configurator for details.

18. Manufacturer's choice driver. Order code may change to NO1.

19. Available up to 1300 lumens (CR80, RCR80, CR95 or RCR95) and 2000 lumens (CR80 or RCR80) for NS optic. Available up to 2000 lumens (CR80, RCR80, CR95 or RCR95) for N optic and up to 4000 lumens (CR80 or RCR80) for NFR, M, MFR, W and WFR optics.

20. Not available for DTW, DTWP, DWH, DWW or DWWP color options.

21. Manufacturer's choice driver. Order code may change to PH1 or PH2.

22. Available up to 1300 lumens (CR80, RCR80, CR95 or RCR95) and 2000 lumens (CR80 or RCR80) for NS optic. Available up to 3000 lumens (CR80, RCR80, CR95 or RCR95) for N, NFR, M, MFR, W and WFR optics.

23. Available for 120V voltage option only.

24. Available up to 3000 lumens when combined with CR80 color rendering option. Available up to 2000 lumens when combined with CR90 or CR95 color rendering options.

25. Manufacturer's choice driver. Order code is subject to change.

26. Consult factory for PPH2 control option.

27. Available for 1300, 2000, 3000 and 4000 lumens only.

28. Not available for CR90.

29. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.

30. Not available for XN and VN optics.

31. Not available with 347V.

32. Driver cuts off power to the fixture when the control signal drops below 0.5V.

33. Not available for DWH, DWW and DWWP color options.

34. Available for DTW and DTWP color options only, when combined with 1000, 1300 or 2000 lumens.

35. Consult factory for other DALI control options for static color temperatures.

36. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.

37. Consult factory for DALIT8 control option.

38. One EcoSystem® address per fixture. 1% minimum dimming value. Lutron® EcoSystem® Enabled dimming not available for 700 lumens or 1000 lumens.

39. Available up to 1300 lumens (CR80, RCR80, CR95 or RCR95) and 2000 lumens (CR80 or RCR80) for NS optic. Available up to 2000 lumens (CR80, RCR80, CR95 or RCR95) for N, NFR, M, MFR, W and WFR optics.

40. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

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

42. 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.

43. 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 (GL) 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.

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

45. When combined with another accessory, the HL will be factory-installed in second position (furthest from the LED source).

46. Can be combined with HL accessory for 2200K, 2700K, 3000K, 3500K and 4000K color options only.

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

48. Available for XN, VN, NS, N and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color options only. Available for NFR optic only when combined with DTW, DTWP, DWH, DWW or DWWP color options only.

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

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