Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

9"

Front view

Aperture Ø2⅝"
Cylinder Ø4"
Canopy Ø5"

Bottom view
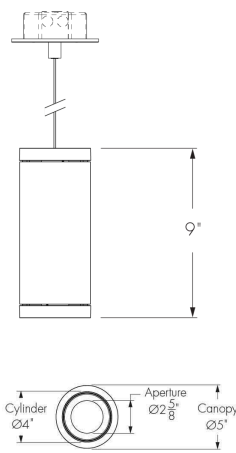
Photometric Summary

Based on Narrow Optic (nominal 25°), 4000K, CRI 90+

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] Consult website for latest IES files.
[2] Add 3 watts per fixture when specifying Lumentalk™.

Optics

XN - 5°	VN - 10°	NS - 15°	N/NR/ NFR - 25°	M/MFR - 40°
W/WFR - 60°	VW/ VWFR - 80°	WW	DAS	
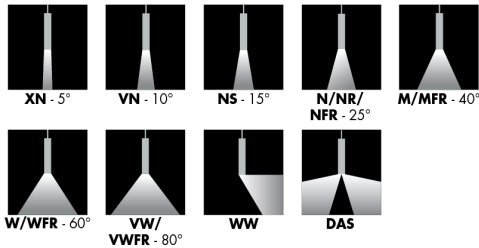
Color and Color temperature

2200K 2700K 3000K 3500K 4000K
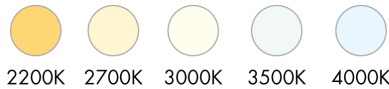
Control

ON/OFF   PH   0 -10V

Description

The Lumencore Short Cylinder Small Pendant Integral is a high-performance LED downlight that is ideal for intimate commercial, residential or hospitality applications and delivers up to 2000 lumens from a 4 in diameter. Available in 9 in, the Lumencore Short Cylinder Small Pendant Integral comes in a number of finishes, or can be color-specified to your taste. Its accessories, beam angles, trims, and optics can easily be changed in the field.

Features

Mounting Options	Electrical cable mounting (flat canopy or deep canopy), Stem mounting (flat canopy or deep canopy)
Suspension Length	Metal pipe (12 in, 24 in, 36 in or 48 in) Pendant cable (50 in, 100 in or 250 in, field adjustable, black or white)
Light Direction	Direct lighting
Length	9 in
Installation Type	Integrated driver
Direct Lighting Output (Nominal Lumens)	700lm, 1000lm, 1300lm, 2000lm
Direct Lighting Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K
Direct Lighting Optics (Nominal Distribution)	Extra Narrow Spot 5°, Very Narrow Spot 10°, Narrow Spot 15°, Narrow 25°, Narrow reflector 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°)

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

c(UL)us   RoHS   5 YEARS lumenpulse

Warranty	5-year limited warranty

Physical

Weight	3 lbs
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum

Performance

Maximum Delivered Output	Up to 2,713 lm (narrow spot optic 15°, 4000K, CRI 90)
Maximum Delivered Intensity	Up to 63,952 cd (extra narrow spot optic 5°, 4000K, CRI 80)
Efficacy	Up to 134 lm/W (narrow spot optic 15°, 4000K, CRI 90)
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 (not applicable to WW and DAS distributions)

Electrical and Control

Voltage	120 Volts, 277 Volts
Control	On/Off Control, Phase Dimming, Standard 0-10V Dimming 1% Linear Curve, 0-10V dimming (1% linear)

Environmental

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

Important

Virtual Patent Marking Notice

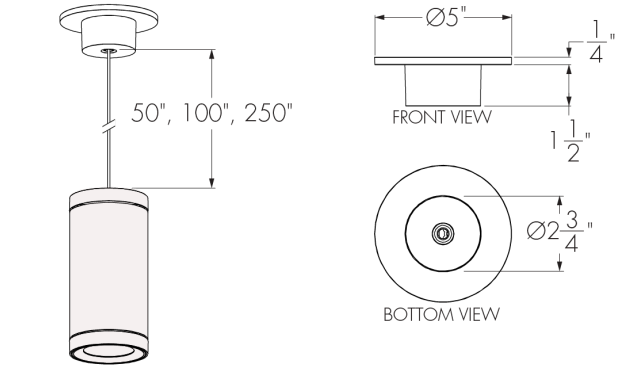This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.
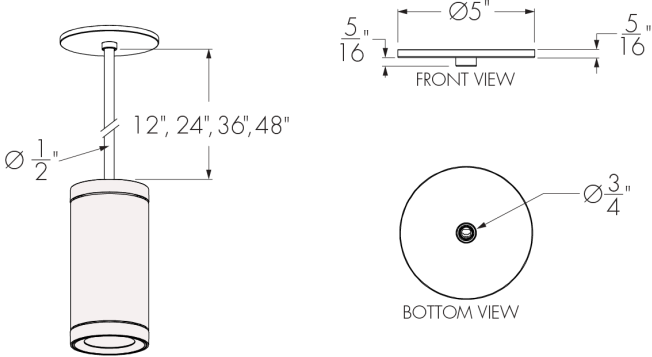
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Mounting Option Dimensions

Flat Canopy & Cable Option
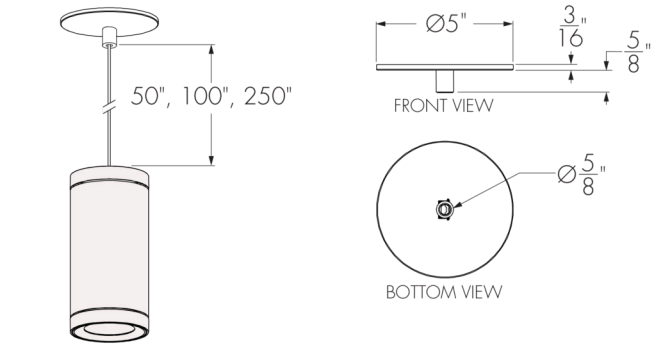
Ø5"
3/16"
5/8"
FRONT VIEW

50", 100", 250"

Ø5/8"
BOTTOM VIEW

Deep Canopy & Cable Option

Ø5"
1/4"
FRONT VIEW
1 1/2"

50", 100", 250"

Ø2 3/4"
BOTTOM VIEW

Flat Canopy & Stem Option

5/16"
Ø5"
5/16"
FRONT VIEW

Ø1/2"
12", 24", 36", 48"

Ø3/4"
BOTTOM VIEW

Deep Canopy & Stem Option

Ø5"
1/4"
FRONT VIEW
2 1/4"

Ø1/2"
12", 24", 36", 48"

Ø2 13/16"
BOTTOM VIEW

MAXIMUM CEILING ANGLE FOR DEEP
CANOPY: 35°
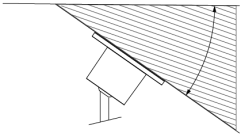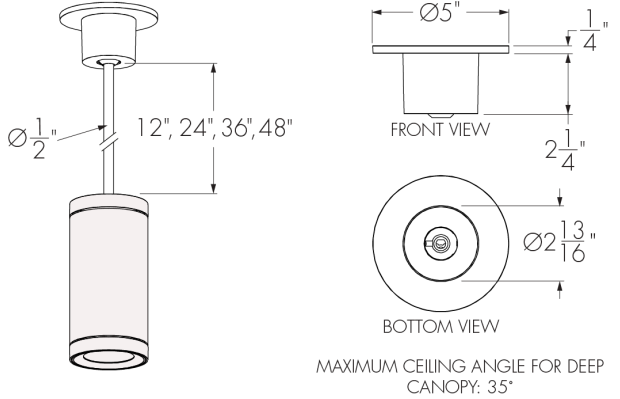
Optical Accessory Dimensions

Snoot

11 9/16"

Ø4"
2 13/16"
2 9/16"
FRONT VIEW

Ø2 1/2"
Ø4"
BOTTOM VIEW

Half Snoot

11 9/16"

Ø4"
2 13/16"
FRONT VIEW
2 9/16"

Ø2 1/2"
Ø4"
BOTTOM VIEW
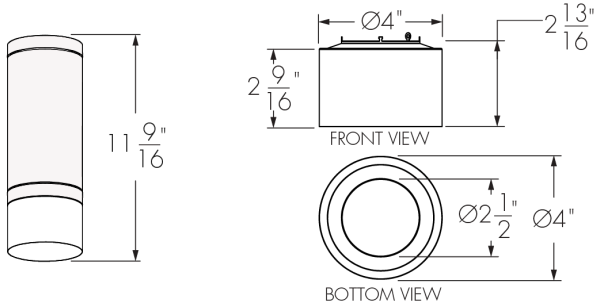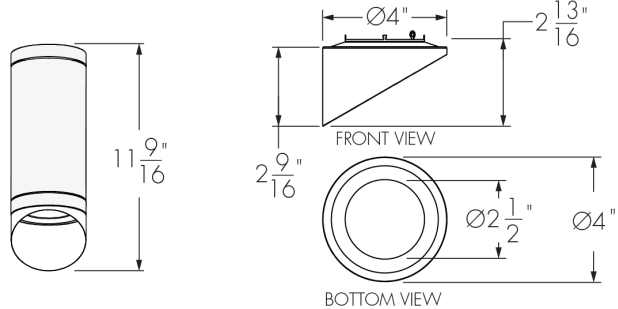
Photometric Information - Color Rendering Options Comparison, 3000K

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+	94	95	98	99	95	94	97	91	80	55	93	97	83	96	99	89
CRI 95+	97	96	97	99	96	96	95	96	97	97	96	95	86	96	98	97

Optics

TIR Optic
XN/VN/NS/N

Semi-Specular reflector
NR/M/W/VW

Faceted reflector
NFR/MFR/WFR/VWFR

Control

On/off control
NO - On/off control

Phase dimming
PH - Phase dimming

Standard 0-10V dimming down to 1%
DAMC - Standard 0-10V dimming to 1% linear curve
DA1 - Standard 0-10V dimming, 1% linear

Linear curve

Brightness %

Voltage %

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JC - R10

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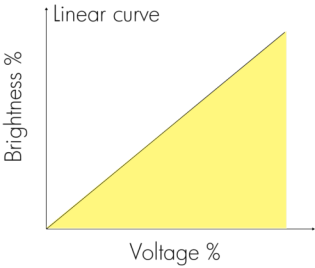
Photometric Information - Direct Lighting Optics

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

90° / 60° / 30° / 0°

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	CR90	CR80	CR90	CR80	CR90
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

90° / 60° / 30° / 0°

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	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
700	7.5	7.5	8.5	9	9	10.5	969	969	872
1000	11	11	13	13	13	15	1,279	1,279	1,151
1300	13	13	18	15	15	20	1,744	1,744	1,570
2000	21	21	N/A	22	22	N/A	2,713	2,713	N/A

Candlepower distribution

7,384
14,769
22,153
29,538

90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 15.0°

Center Beam Illuminance	Beam Diameter	Height
131fc	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	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
700	6.5	6.5	7	8	8	9	698	698	628
1000	8	8	11	10	10	13	921	921	829
1300	11	11	13	13	13	15	1,256	1,256	1,130
2000	18	18	21	19	19	22	1,953	1,953	1,758

Candlepower distribution

1,251
2,502
3,753
5,004

90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 29.6°

Center Beam Illuminance	Beam Diameter	Height
22fc	8'	15'
13fc	11'	20'
6fc	16'	30'

M - Medium (Nominal 40°), 4000K

Nominal output [lm]	Power (120V) [W]†			Power (277V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
1000	8	8	11	10	10	13	943	943	849
1300	11	11	13	13	13	15	1,286	1,286	1,157
2000	18	18	21	19	19	22	2,000	2,000	1,800

Candlepower distribution

744
1,488
2,232
2,976

90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 49.6°

| Center Beam Illuminance	Beam Diameter	Height
13fc	14'	15'
7fc	19'	20'
3fc	28'	30'

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

Nominal output [lm]	Power (120V) [W]†			Power (277V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
1000	8	8	11	10	10	13	1,009	1,009	908
1300	11	11	13	13	13	15	1,376	1,376	1,238
2000	18	18	21	19	19	22	2,140	2,140	1,926

Candlepower distribution

797
1,594
2,390
3,187

90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 49.6°

Center Beam Illuminance	Beam Diameter	Height
14fc	14'	15'
8fc	19'	20'
4fc	28'	30'

† Delivered wattage: +/- 10% tolerance.

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

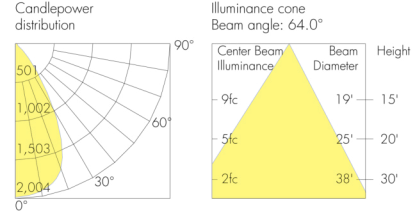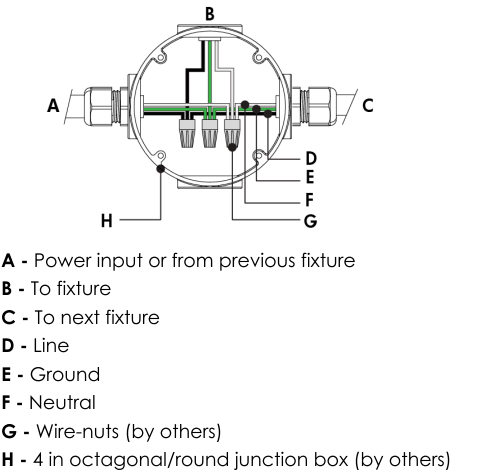Photometric performance is measured in compliance with IESNA LM-79-24.

W - Wide (Nominal 60°), 4000K

Nominal output [lm]	Power (120V) [W]†			Power (277V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
1000	8	8	11	10	10	13	900	900	810
1300	11	11	13	13	13	15	1,227	1,227	1,105
2000	18	18	21	19	19	22	1,909	1,909	1,718

Candlepower distribution

Illuminance cone
Beam angle: 64.0°
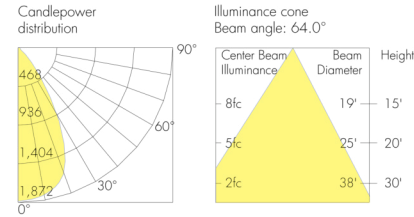
WFR - Wide Faceted Reflector (Nominal 60°), 4000K

Nominal output [lm]	Power (120V) [W]†			Power (277V) [W]†			Delivered output [lm]††		
	CR80	CR90	CR95	CR80	CR90	CR95	CR80	CR90	CR95
1000	8	8	11	10	10	13	963	963	867
1300	11	11	13	13	13	15	1,313	1,313	1,182
2000	18	18	21	19	19	22	2,043	2,043	1,838

Candlepower distribution

Illuminance cone
Beam angle: 64.0°

† Delivered wattage: +/- 10% tolerance.

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

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

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

On/Off Control (NO)
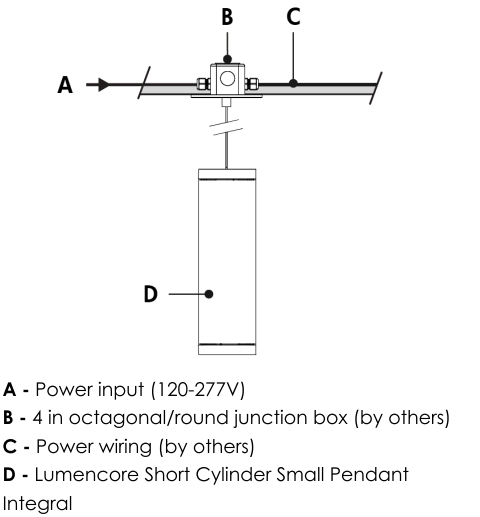
A - Power input (120-277V)
B - 4 in octagonal/round junction box (by others)
C - Power wiring (by others)
D - Lumencore Short Cylinder Small Pendant Integral

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 or pink	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)

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 Short Cylinder Small Pendant Integral

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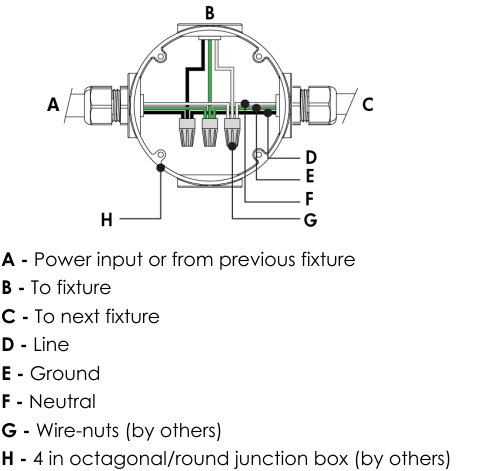
A - Power input or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

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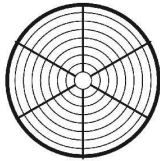
Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey or pink	0-10V / Data -

0-10V Dimming (DAMC, DA1)
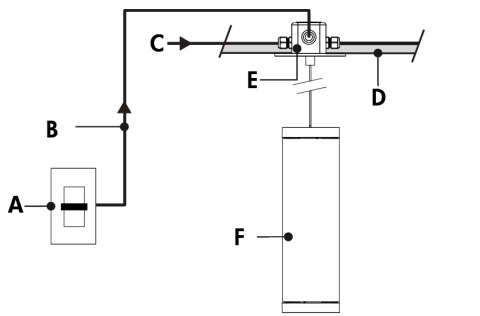
A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-347V)
D - Power and data wiring (by others)
E - 4 in octagonal/round junction box (by others)
F - Lumencore Short Cylinder Small Pendant Integral

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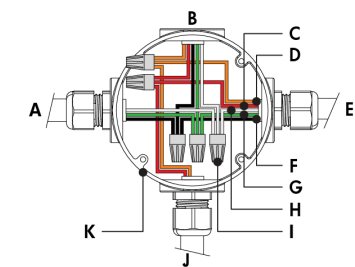
A - Power input or from previous fixture
B - To fixture
C - 0-10V +
D - 0-10V -
E - To next fixture
F - Line
G - Ground
H - Neutral
I - Wire-nuts (by others)
J - From dimmer (by others)
K - 4 in octagonal/round junction box (by others)

Wiring Color Code

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

1°

40°

Horizontal Beam Distribution

40°

1°
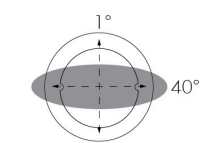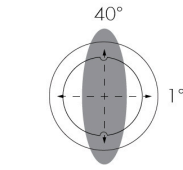
Vertical Beam Distribution

LACYS - LSN

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

1°

60°

Horizontal Beam Distribution

60°

1°

Vertical Beam Distribution

LACYS - LSW

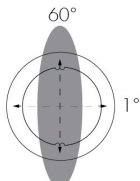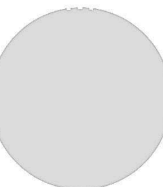### BW1 - Beam Widening Lens (+10°)

LACYS - BW1

BW2 - Beam Widening Lens (+20°)

LACYS - BW2

BW3 - Beam widening lens (+30°)

LACYS - BW3

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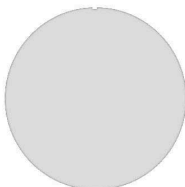
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How to Order

Housing [1]	EZ Ship	Certification	Mounting	Mounting Option Finish	Mounting Length	Light Direction	Voltage	Length
LACYS Lumencore Short Cylinder Small - Ø4 in	**EZ** EZ Ship [2] [3]	**A** UL/cUL	**PMF** Pendant Mount Flat Canopy **PMD** Pendant Mount Deep Canopy **PSF** Pendant Stem Mount Flat Canopy [4] **PSD** Pendant Stem Mount Deep Canopy [4]	**MWH** Matte White **MBK** Matte Black **MSI** Matte Silver **CC** Custom Color [5] [6]	**M1** Metal Pipe (12 in) [7] **M2** Metal Pipe (24 in) [7] **M3** Metal Pipe (36 in) [7] **M4** Metal Pipe (48 in) [7] **CA50BK** Electrical Cable Pendant Black (50 in, Field Adjustable) [8] [9] **CA100BK** Electrical Cable Pendant Black (100 in, Field Adjustable) [8] [9] **CA250BK** Electrical Cable Pendant Black (250 in, Field Adjustable) [8] [9] **CA50WH** Electrical Cable Pendant White (50 in, Field Adjustable) [8] [9] **CA100WH** Electrical Cable Pendant White (100 in, Field Adjustable) [8] [9] **CA250WH** Electrical Cable Pendant White (250 in, Field Adjustable) [8] [9]	**D** Direct lighting	**120** 120 Volts **277** 277 Volts	**9** 9 in

Notes:

1. Refer to website product configurator for all exceptions.
2. Refer to website for EZ Ship configurations.
3. To qualify for EZ Ship, the fixture finish and bezel finish must match.
4. Stem finish matches fixture housing color.
5. Refer to Finish section for additional color codes (ex. MGR).

6. Longer lead times can be expected for custom RAL color finishes.
7. Metal pipe available for PSF and PSD mounting options only.
8. Electrical cable pendant available for PMF and PMD mounting options only.
9. Strain relief matches color of electrical cable.

How to Order

Installation Type	Direct Lighting Output (Nominal Lumens)	Direct Lighting Color Temperature	Direct Lighting Color Rendering	Direct Lighting Optics (Nominal Distribution)	Direct Lighting Control	Direct Lighting Accessories [25] [26]	Finish	Bezel	Bezel Finish
ITG Integrated driver	**dL07** 700lm **dL10** 1000lm **dL13** 1300lm **dL20** 2000lm	**22K** 2200K [10] [11] **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**CR80** CRI 80+ **CR90** CRI 90+ **CR95** CRI 95+	**XN** Extra Narrow Spot 5° [12] **VN** Very Narrow Spot 10° [13] **NS** Narrow Spot 15° [14] **N** Narrow 25° **NR** Narrow reflector 25° **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 [14] [15] **DAS** Double asymmetric [16] [17]	**NO** On/Off Control [18] **PH** Phase Dimming [19] [20] **DAMC** Standard 0-10V Dimming 1% Linear Curve [21] [22] [23] **DA1** Standard 0-10V Dimming 1% Linear Curve [24]	**NA** No Accessory **SN** Snoot [27] **HSN** Half Snoot [27] **HL** Honeycomb Louver [28] **XLVR** Concentric Ring Louver [29] **CL** Clear Glass Lens **SL** Softening Glass Lens **PD** Prismatic Diffuser **LSN** Linear Spread Lens Narrow (1° x 40°) [30] **LSW** Linear Spread Lens Wide (1° x 60°) [31] **BW1** Beam Widening Lens (+10°) [32] **BW2** Beam Widening Lens (+20°) [32] **BW3** Beam Widening Lens (+30°) [32]	**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 & Finish [6]	**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** Metalized Grey **IBR** Italian Brick Red **PWH** Parget White **CC** Custom Color & Finish [6]

Notes:

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

10. Available for CR80 only.

11. Not available for XN and VN optics.

12. Available for 700 lumens when combined with CR80 or CR90 color rendering options only.

13. Available for 700, 1000 and 1300 lumens when combined with CR80 or CR90 color rendering options only.

14. Available up to 1300 lumens (CR80/CR90/CR95) and 2000 lumens (CR80).

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

16. Available up to 1300 lumens (CR80/CR90/CR95).

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

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

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

20. Available for 120V voltage option only.

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

22. Not available for XN and VN optics.

23. Available up to 2000 lumens when combined with CR80 color rendering option. Available up to 1300 lumens when combined with CR90 or CR95 color rendering options.

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

25. 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.

26. Maximum of two lenses can be installed per fixture. The Snoot (SN) or Half Snoot (HSN) can be combined with any accessory. The Linear Spread Lenses (LSN or LSW) are compatible with the Snoot and Half Snoot accessories only. The Clear Glass Lens (GL), Beam Widening Lens (BW1, BW2 or BW3) and Softening Glass Lens (SL) cannot be combined together. Optical accessories are not available for WW or DAS optics.

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

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

29. Available for XN, VN and NS optics only.

30. Available for XN, VN, NS, N, NR and NFR optics only. Nominal 10° x 40° distribution when used with the NS optic.

31. Available for XN, VN, NS, N, NR and NFR optics only. Nominal 10° x 60° distribution when used with the NS optic.

32. Available for XN, VN, NS, N, NR and NFR optics only.