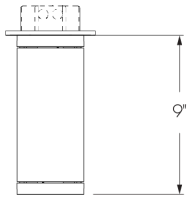
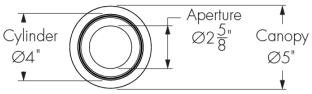
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Front view



Bottom view

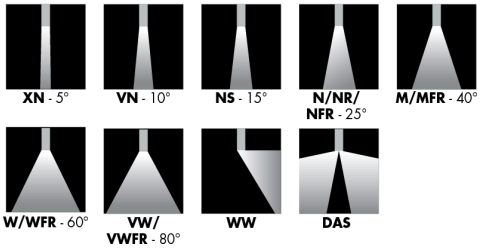
Photometric Summary

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



Color and Color temperature

2200K 2700K 3000K 3500K 4000K

Control

ON/OFF PH 0-10V

Description

The Lumencore Short Cylinder Small Surface Mount 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 Surface Mount 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	Surface Mount
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°)
Warranty	5-year limited warranty

Physical

Weight	3 lbs

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

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	Dry location (indoor applications only)
Operating Temperature	-4 °F to 86 °F
Ingress Protection Rating	IP20

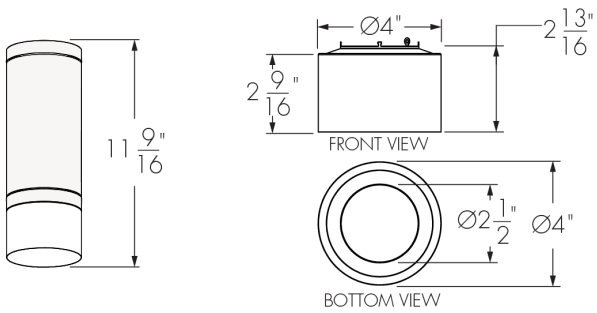
Important

Virtual Patent Marking Notice

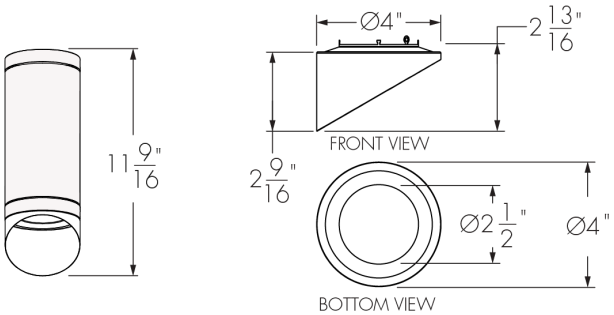
This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Optical Accessory Dimensions

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 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

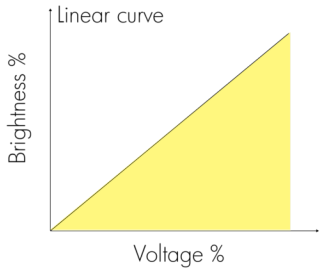
Faceted reflector
NFR/MFR/WFR/VWFR

Control

On/off control
NO - On/off control

Phase dimming
PH - Phase dimming

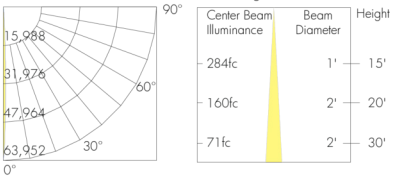
Standard 0-10V dimming down to 1%
DAMC - Standard 0-10V dimming to 1% linear curve
DA1 - Standard 0-10V dimming, 1% linear



Photometric Information - Direct Lighting Optics

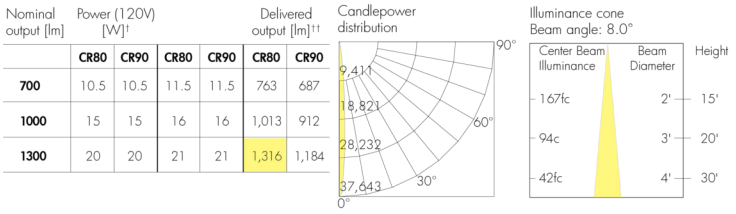
XN - Extra Narrow Spot (Nominal 5°), 4000K

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



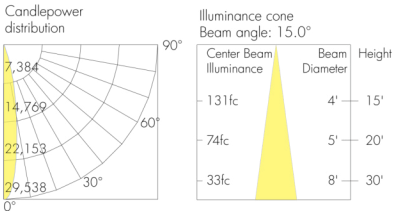
VN - Very Narrow Spot (Nominal 10°), 4000K

Nominal output [lm]	Power (120V) [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



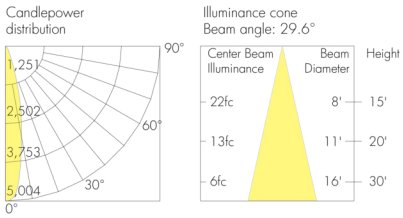
NS - Narrow Spot (Nominal 15°), 4000K

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



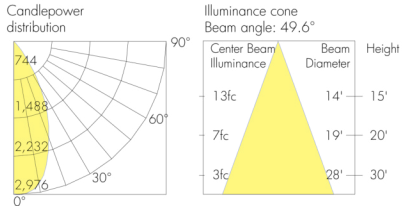
N - Narrow (Nominal 25°), 4000K

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



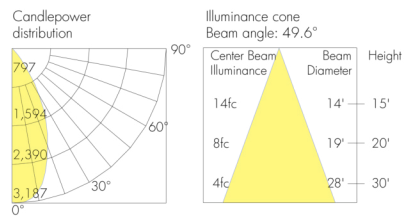
M - Medium (Nominal 40°), 4000K

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



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

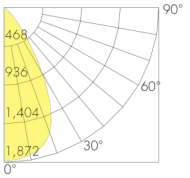


† Delivered wattage: +/- 10% tolerance.
†† Consult website for latest IES files. Delivered output: +/- 10% tolerance.
Photometric performance is measured in compliance with IESNA LM-79-24.

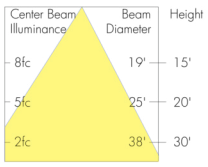
W - Wide (Nominal 60°), 4000K

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



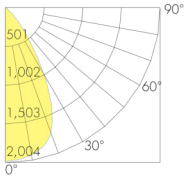
Illuminance cone
Beam angle: 64.0°



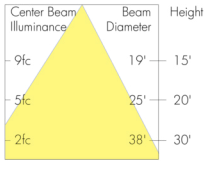
WFR - Wide Faceted Reflector (Nominal 60°), 4000K

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



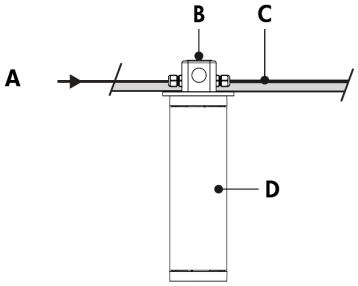
Illuminance cone
Beam angle: 64.0°



† 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.

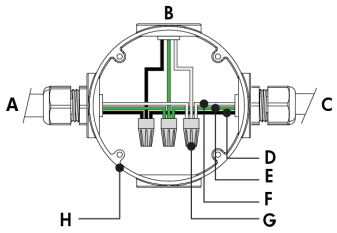
Typical Wiring Diagrams (Refer to Installation Instructions for Additional Wiring Details)

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 Surface Mount Integral

On/Off Control (NO) - Wiring Detail



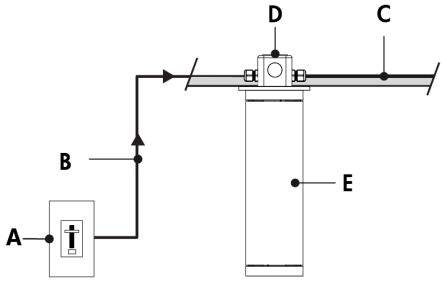
A - Power input or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

Wiring Color Code

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

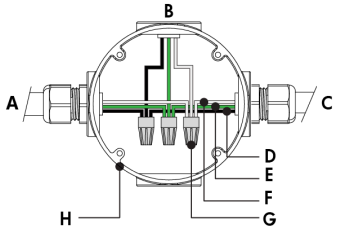
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Consult Photometric Information pages for wattage information.

Phase Dimming (PH)



A - Third party Phase dimmer
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 Surface Mount Integral

Phase Dimming (PH) - Wiring Detail

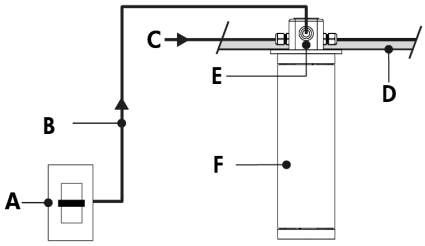


A - Power input or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Neutral
G - Wire-nuts (by others)
H - 4 in octagonal/round junction box (by others)

Wiring Color Code

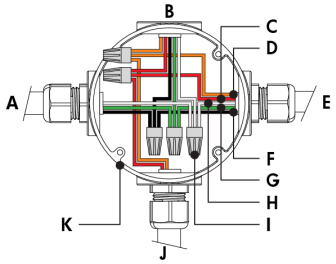
Color	USE
Green	Ground
Black	Line
White	Neutral
Red or purple	0-10V / Data +
Orange or grey	0-10V / Data -

0-10V Dimming (DAMC, DA1)



A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-277V)
D - Power and data wiring (by others)
E - 4 in octagonal/round junction box (by others)
F - Lumencore Short Cylinder Small Surface Mount 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	0-10V / Data -

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

Optical Accessories

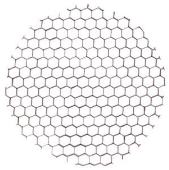
SN - Snoot

LACYS - SN

HSN - Half Snoot

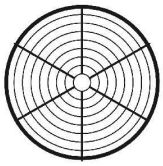
LACYS - HSN

HL - Honeycomb Louver



LACYS - HL

XLVR - Concentric Ring Louver



LACYS - XLVR

CL - Clear Glass Lens

LACYS - CL

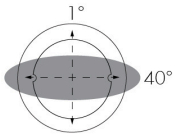
SL - Softening Glass Lens

LACYS - SL

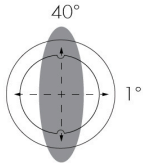
PD – Prismatic Diffuser

LACYS - PD

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



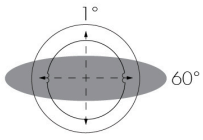
Horizontal Beam Distribution



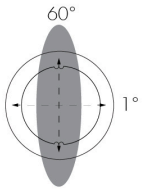
Vertical Beam Distribution

LACYS - LSN

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



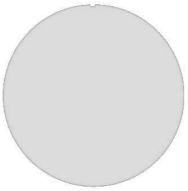
Horizontal Beam Distribution



Vertical Beam Distribution

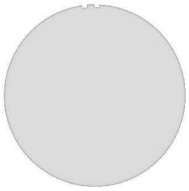
LACYS - LSW

BW1 - Beam Widening Lens (+10°)



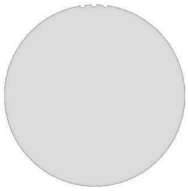
LACYS - BW1

BW2 - Beam Widening Lens (+20°)



LACYS - BW2

BW3 - Beam widening lens (+30°)



LACYS - BW3

How to Order

Housing [1]	Certification	Mounting	Light Direction	Voltage	Length	Installation Type	Direct Lighting Output (Nominal Lumens)	Direct Lighting Color Temperature	Direct Lighting Color Rendering	Direct Lighting Optics (Nominal Distribution)
LACYS Lumencore Short Cylinder Small - Ø4 in	**A** UL/cUL	**SM** Surface Mount	**D** Direct lighting	**120** 120 Volts **277** 277 Volts	**9** 9 in	**ITG** Integrated driver	**dL07** 700lm **dL10** 1000lm **dL13** 1300lm **dL20** 2000lm	**22K** 2200K [2] [3] **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**CR80** CRI 80+ **CR90** CRI 90+ **CR95** CRI 95+	**XN** Extra Narrow Spot 5° [4] **VN** Very Narrow Spot 10° [5] **NS** Narrow Spot 15° [6] **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 [6] [7] **DAS** Double asymmetric [8] [9]

Notes:

1. Refer to website product configurator for all exceptions.
2. Available for CR80 only.
3. Not available for XN and VN optics.
4. Available for 700 lumens when combined with CR80 or CR90 color rendering options only.
5. Available for 700, 1000 and 1300 lumens when combined with CR80 or CR90 color rendering options only.
6. Available up to 1300 lumens (CR80/CR90/CR95) and 2000 lumens (CR80).
7. The color of the true asymmetric wallwash baffle matches the fixture bezel.
8. Available up to 1300 lumens (CR80/CR90/CR95).
9. The color of the double asymmetric baffle is metallic gray.

How to Order

Direct Lighting Control	Direct Lighting Accessories [17] [18]	Finish	Bezel	Bezel Finish
NO On/Off Control [10]	**NA** No Accessory	**MWH** Matte White	**b** Bezel	**MWH** Matte White
PH Phase Dimming [11] [12]	**SN** Snoot [19]	**MBK** Matte Black		**MBK** Matte Black
DAMC Standard 0-10V Dimming 1% Linear Curve [13] [14] [15]	**HSN** Half Snoot [19]	**MBR** Matte Brown		**MBR** Matte Brown
DA1 Standard 0-10V Dimming 1% Linear Curve [16]	**HL** Honeycomb Louver [20]	**MOR** Matte Orange		**MOR** Matte Orange
	XLVR Concentric Ring Louver [21]	**MGR** Matte Green		**MGR** Matte Green
	CL Clear Glass Lens	**MBL** Matte Blue		**MBL** Matte Blue
	SL Softening Glass Lens	**MSI** Matte Silver		**MSI** Matte Silver
	PD Prismatic Diffuser	**GWH** Glossy White		**GWH** Glossy White
	LSN Linear Spread Lens Narrow (1° x 40°) [22]	**GBK** Glossy Black		**GBK** Glossy Black
	LSW Linear Spread Lens Wide (1° x 60°) [23]	**GYL** Glossy Yellow		**GYL** Glossy Yellow
	BW1 Beam Widening Lens (+10°) [24]	**GLR** Glossy Red		**GLR** Glossy Red
	BW2 Beam Widening Lens (+20°) [24]	**GVI** Glossy Violet		**GVI** Glossy Violet
	BW3 Beam Widening Lens (+30°) [24]	**GGR** Glossy Green		**GGR** Glossy Green
		GIY Glossy Ivory		**GIY** Glossy Ivory
		CGY Concrete Grey		**CGY** Concrete Grey
		MLG Metalized Grey		**MLG** Metalized Grey
		IBR Italian Brick Red		**IBR** Italian Brick Red
		PWH Parget White		**PWH** Parget White
		CC Custom Color & Finish [25]		**CC** Custom Color & Finish [25]

Notes:

10. Manufacturer's choice driver. Order code may change to NO1.
11. Manufacturer's choice driver. Order code may change to PH1 or PH2.
12. Available for 120V voltage option only.
13. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.
14. Not available for XN and VN optics.
15. 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.
16. Driver cuts off power to the fixture when the control signal drops below 0.5V.
17. 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.
18. 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.
19. Matte black interior surface, exterior finish matches housing color.
20. When combined with another accessory, the HL will be factory-installed in second position (furthest from the LED source).
21. Available for XN, VN and NS optics only.
22. Available for XN, VN, NS, N, NR and NFR optics only. Nominal 10° x 40° distribution when used with the NS optic.
23. Available for XN, VN, NS, N, NR and NFR optics only. Nominal 10° x 60° distribution when used with the NS optic.
24. Available for XN, VN, NS, N, NR and NFR optics only.
25. Longer lead times can be expected for custom RAL color finishes.