Project Name _____   **Qty** _____

Type _____   **Catalog / Part Number** _____

W1H2 Wall Mount Option Shown

Side views

3"

5 7/16"   6"

N02, N03, N05, N07
and N10 outputs

3"

6 7/16"   6"
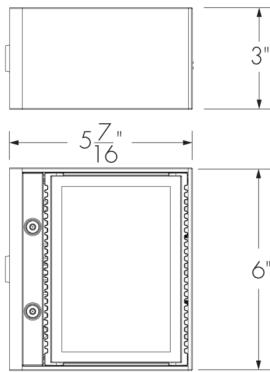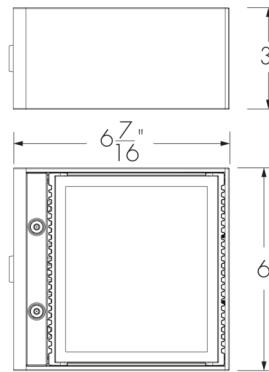
XS03, XS10, XS15, XS20
and XS25 outputs

Bottom views

Distributions

| Type II | Type III | Type IV | Type V |
| Type II Backlight Shield | Type III Backlight Shield | Type IV Backlight Shield | Type V Square |

Description

The Lumenpulse Lumenblade Nano is an outdoor LED luminaire that uses a rectilinear version of the Lumencentro light engine to create a continuous line of light. Side Mount or Wall Mount options are available. Its seen-but-not-seen, minimalist design is sustainable, blends with both contemporary and heritage architectures, provides a high level of security, and is sensitive to the natural environment with DarkSky approval, low outputs, and with a BUG rating of 0.

Color and Color Temperature

| Amber | 2200K | 2700K | 3000K | 3500K |
| 4000K | 5700K | | | |

Features

Mounting	Side Mounting, Wall Mounting
Color and Color Temperature	True Amber 585nm-595nm (Turtle-Friendly), 2200K, 2700K, 3000K, 3500K, 4000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Optical Option (factory installed)	Louver
Vibration Rating	Meets ANSI C136.31-2018 vibration rating for Bridge & Overpass applications
Option	Vibration Rated for Bridge and Overpass Corrosion-Resistant Coating for Hostile Environments
Warranty	5-year limited warranty

Control

ON/OFF   0-10V

Ratings

IP66 (optical chamber)   IK06 (lens)   IK10*(frame)
*IK10 polycarbonate lens option available, consult factory.

Certifications

c(UL)us   5 YEARS lumenpulse   VRBO

Performance

Output (Nominal Lumens)	Minimum 200lm/ Maximum 2500lm
Efficacy	Up to 127 lm/W (XS10 lumen output, 4000K, CRI 70+, Type VS)
Color Rendering	3 SDCM for CRI 70+, 2 SDCM for CRI 80+ and CRI 90+
Lumen Maintenance	TM-21 L70 > 145,000 hrs (reported, Ta 25 - 50 °C [77 - 122 °F])
DarkSky	DarkSky Approved (2200K, 2700K, 3000K and Amber color temperatures, BUG rating of U0)

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Physical

Housing Material	Extruded aluminium 6000 alloy series
Lens Material	Optical tempered clear glass (Clearsite lens), Optical tempered frosted glass (Frostsite lens), Optical tempered half-frosted glass (Half-Frostsite lens)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Weight	1.87 lbs to 4.84 lbs, refer to EPA and fixture weight tables for details

Electrical and Control

Voltage	120 Volts, 208 Volts, 240 Volts, 277 Volts
Control	On/Off Control, 0-10V Dimming

Environmental

Storage Temperature	-40°C to 50°C [-40°F to 122°F] (device must reach start-up temperature value before operating)
Operating Temperature	-40°C to 50°C [-40°F to 122°F]
Start-up Temperature	-25°C to 50°C [-13°F to 122°F]
Ingress Protection Rating	IP66 (optical chamber) Wet location rated
Impact Resistance Rating	IK06 (glass lens) IK10 (frame) *IK10 polycarbonate lens option available, consult factory
Environment	Dry/damp/wet location

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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Photometric Information

Type II, 4000K, CRI 70+, Clearsite Lens
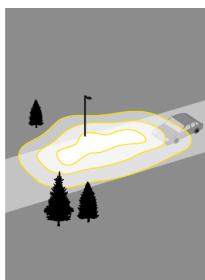
Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G			Typical maximum power 120/277V (W)
N03	233	78	0	0	0	3
N05	476	79	0	0	0	6
N07	748	83	0	0	0	9
N10	971	88	0	0	0	11
XS10	1,113	111	0	0	0	10
XS15	1,594	94	1	0	1	17
XS20	1,999	80	1	0	1	25
XS25	2,531	84	1	0	1	30

Type III, 4000K, CRI 70+, Clearsite Lens

| Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G			Typical maximum power 120/277V (W)
N03	255	85	0	0	0	3
N05	520	87	0	0	0	6
N07	818	91	0	0	0	9
N10	1,062	97	0	0	0	11
XS10	1,174	117	0	0	0	10
XS15	1,681	99	1	0	1	17
XS20	2,107	84	1	0	1	25
XS25	2,668	89	1	0	1	30

Type IV, 4000K, CRI 70+, Clearsite Lens
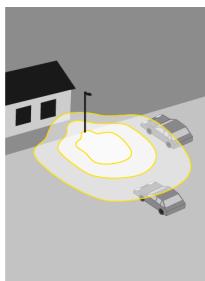
| Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G			Typical maximum power 120/277V (W)
N03	214	71	0	0	0	3
N05	437	73	0	0	0	6
N07	687	76	0	0	0	9
N10	892	81	0	0	0	11
XS10	1,004	100	0	0	0	10
XS15	1,438	85	1	0	1	17
XS20	1,803	72	1	0	1	25
XS25	2,282	76	1	0	1	30

Type V Square, 4000K, CRI 70+, Clearsite Lens
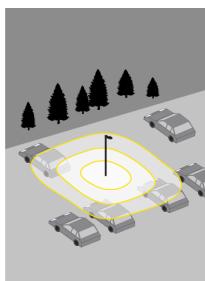
Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B U G			Typical maximum power 120/277V (W)
N03	258	86	0	0	0	3
N05	526	88	0	0	0	6
N07	827	92	0	0	0	9
N10	1,074	98	0	0	0	11
XS10	1,267	127	0	0	0	10
XS15	1,813	107	1	0	1	17
XS20	2,274	91	1	0	1	25
XS25	2,879	96	1	0	1	30

*Photometric performance is measured in compliance with IESNA LM-79-19. Due to rapid and continous advances in LED technology, photometric information is subject to change without notice.

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Dimensions

N02, N03, N05, N07 And N10 Output (Board With 4 LEDs)

W1H2, SPA6N, SPA8N and SPA8TN

Side view — 3"

$5\frac{7}{16}$"

6"
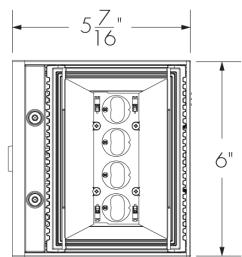
Bottom view

SPA6TN

Side view — 3"

$5\frac{15}{16}$"

6"
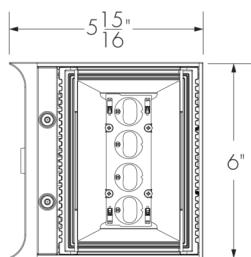
Bottom view

RPA6N And RPA6TN

Side view — 3"

$7\frac{9}{16}$"

6"
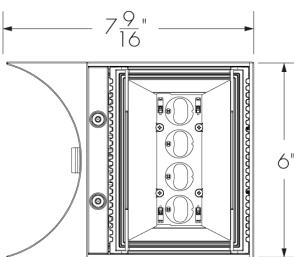
Bottom view

RPA8N And RPA8TN

Side view — 3"

$6\frac{9}{16}$"

6"
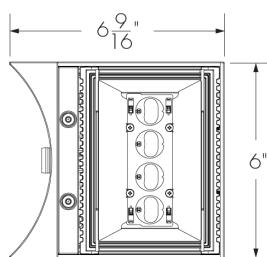
Bottom view

W1H4

Side view — $4\frac{1}{2}$", 3"

$5\frac{7}{16}$"

6"
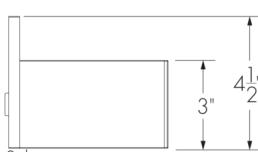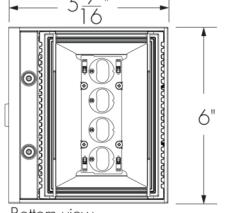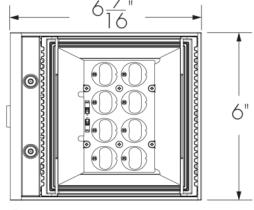
Bottom view

W1HSJB

Side view — 6", 3"

$7\frac{3}{8}$"

6"

Bottom view

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XS03, XS10, XS15, XS20 And XS25 Output (Board With 8 LEDs)

W1H2, SPA6N, SPA8N and SPA8TN

3"

Side view

$6\frac{7}{16}$"

6"

Bottom view

SPA6TN

3"

Side view

$6\frac{15}{16}$"

6"

Bottom view

RPA6N And RPA6TN

3"

Side view

$8\frac{9}{16}$"

6"

Bottom view

RPA8N And RPA8TN

3"

Side view

$7\frac{9}{16}$"

6"

Bottom view

W1H4

$4\frac{1}{2}$"

3"

Side view

$6\frac{7}{16}$"

6"

Bottom view

W1HSJB

6"

3"

Side view

$8\frac{3}{8}$"

6"

Bottom view

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Mounting Details

BLDN-WM-W1H2 Mounting Plate Details
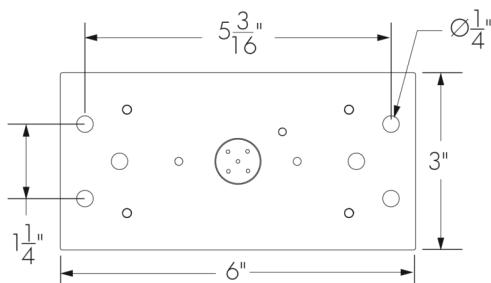
BLDN-WM-W1H4 Mounting Plate Details
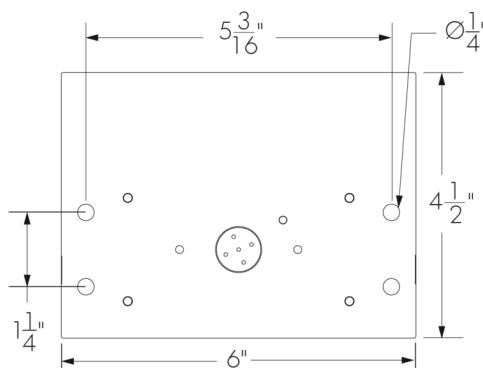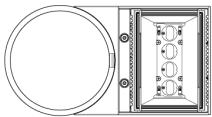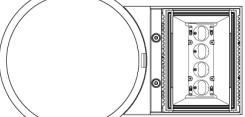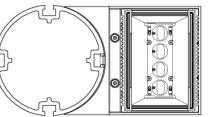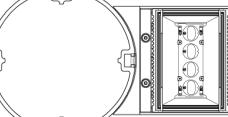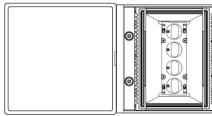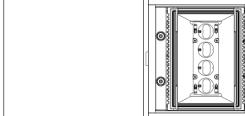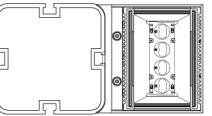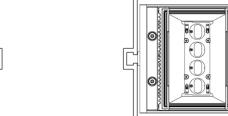

**BLDN-WM-W1HSJB Mounting Plate Details**
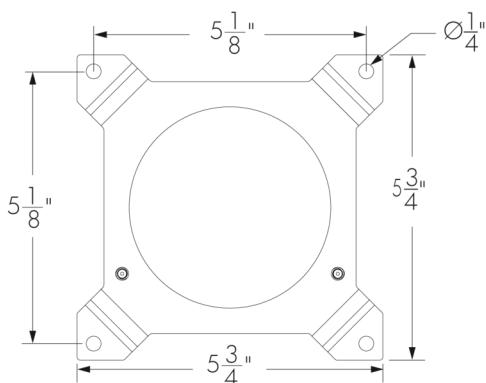
The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep) that accommodates up to 3/4" NPT trade size conduit. For all other types of junction boxes, consult the factory.

BLDN-SD Pole Mounting Option

	Straight and muffler poles		Lumentech pole	
	6in	8in	6in	8in
Round shape	RPA6N	RPA8N	RPA6TN	RPA8TN
Square shape	SPA6N	SPA8N	SPA6TN	SPA8TN

BLDN-SD with 4 LEDs shown.
Available configurations:

S1E ●——○ Single pole-top

S2E ○——●——○ Double pole-top

S1X >——○ Variable Height Mounting Arm

*Consult factory for other configurations.

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BLDN-SD Poles Drilling Patterns

SPA6N, SPA6TN, SPA8N and SPA8TN
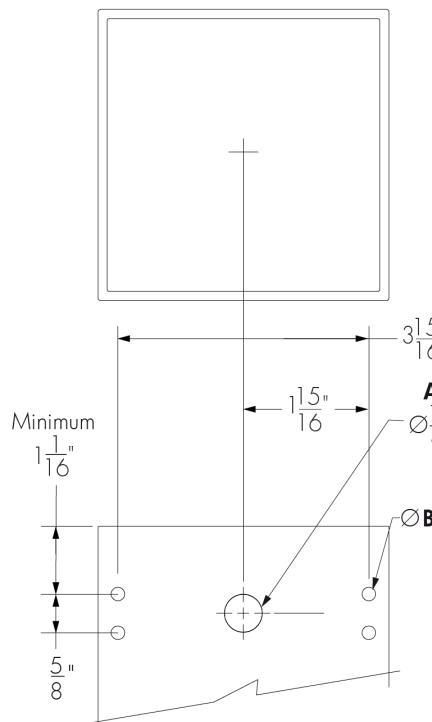
6 in or 8 in Square pole mount.

BLDN-RPA6N Round Pole Adapter for Ø6 in Pole
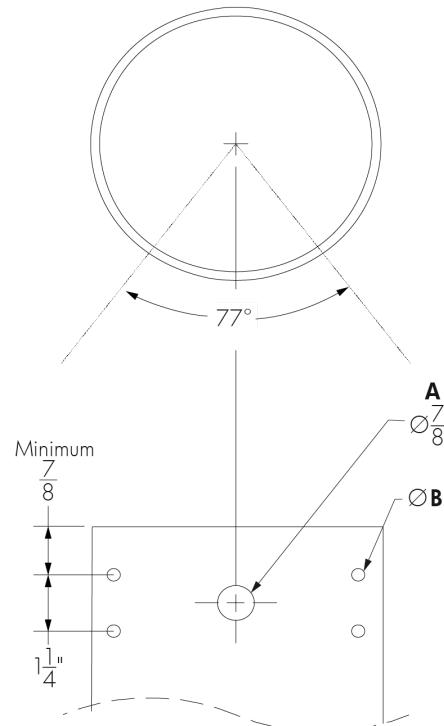
6 in Ø round pole mounting.

RPA8N And RPA8TN
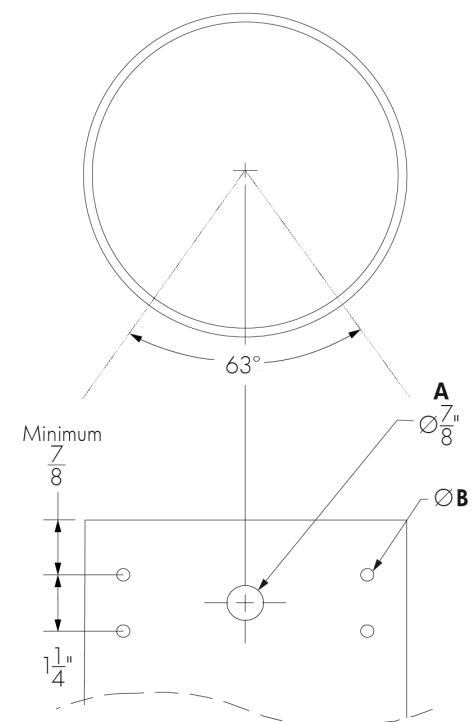
8 in Ø round pole mounting.

A - Wire feeding location

B - **S1E and S2E pole configuration**

    9/32 in drilling holes. Nylon nuts (x4) and screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

    S1X pole configuration

    1/4-20 threaded holes. Screws (4x) 1/4-20 x 1.25 in provided by lumenpulse.

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Typical Wiring Diagrams

Wiring Color Code

Color	Black	White	Green	Purple	Gray
Use	Line	Line/Neutral	Ground	0 -10V+	0 -10V -

On/Off Control (NO)
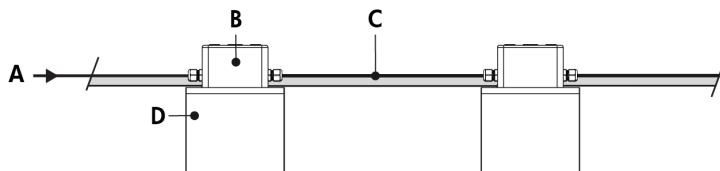
A - Power input (120-277V)
B - Junction box (by others)
C - Power wiring (by others)
D - Lumenblade Nano Wall Mount

On/Off Control (NO) - Wiring Detail
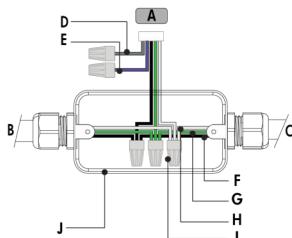
A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - Not required
E - Not required
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)
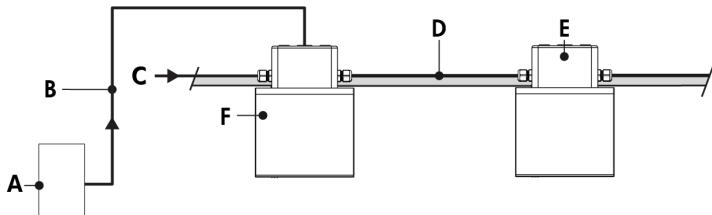
A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-277V, wiring by others)
D - Conduit (by others)
E - Junction box (by others)
F - Lumenblade Nano Wall mount

0-10V Dimming (DIM) - Wiring Detail
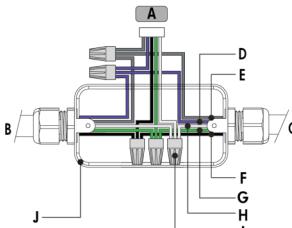
A - To fixture
B - Power input or from previous fixture
C - To next fixture
D - 0-10V +
E - 0-10V -
F - Line
G - Ground
H - Neutral
I - Wire-nuts
J - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

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How to Order

Housing	Mounting	Voltage	Lens [5]	Output (Nominal Lumens) [9]	Color and Color Temperature	Color Rendering	Distributions	Optical Option	Finish	Control	Option	Mounting Adapter
BLDN Lumenblade Nano	**SD** Side Mounting [1] **WM** Wall Mounting [2] [3] [4]	**120** 120 Volts **208** 208 Volts **240** 240 Volts **277** 277 Volts	**CSL** Clearsite Lens [6] **FSL** Frostsite Lens [7] **HFSL** Half-Frosted Site Lens [4] [8]	**N02** 200lm (4 LEDs) [6] [10] [11] **N03** 300lm (4 LEDs) **N05** 500lm (4 LEDs) **N07** 700lm (4 LEDs) **N10** 1000lm (4 LEDs) **XS03** 300lm (8 LEDs) [6] [10] [11] **XS10** 1000lm (8 LEDs) **XS15** 1500lm (8 LEDs) **XS20** 2000lm (8 LEDs) **XS25** 2500lm (8 LEDs)	**AMB** Amber [6] [11] [12] [13] **22K** 2200K [14] **27K** 2700K [15] **30K** 3000K **35K** 3500K [16] **40K** 4000K [16] **57K** 5700K [16] [17]	**CRI 70** CRI 70+ [18] **CRI 80** CRI 80+ [19] **CRI 90** CRI 90+ [20]	**2** Type II **2BLS** Type II Backlight Shield **3** Type III **3BLS** Type III Backlight Shield **4** Type IV **4BLS** Type IV Backlight Shield **5** Type V **5S** Type V Square	**LV** Louver [6] [21] [22]	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish [23] [24] [25]	**DIM** 0-10V Dimming [26]	**VRBO** Vibration Rated for Bridge and Overpass [27] [28] [29] **CRC** Corrosion-Resistant Coating [30] [31]	**RPA6N** Round Pole Adapter for Ø6 in Pole **SPA6N** Square Pole Adapter for Ø6 in Pole **RPA8N** Round Pole Adapter for Ø8 in Pole **SPA8N** Square Pole Adapter for Ø8 in Pole **RPA6TN** Round Pole Adapter for Lumentech Ø6 in Pole **SPA6TN** Square Pole Adapter for Lumentech Ø6 in Pole **RPA8TN** Round Pole Adapter for Lumentech Ø8 in Pole **SPA8TN** Square Pole Adapter for Lumentech Ø8 in Pole **W1H2** Horizontal Wall Mount Adapter for 2 in x 4 in Recessed Junction Box **W1H4** Horizontal Wall Mounting Adapter for 4 in x 4 in Recessed Junction Box **W1HSJB** Horizontal Wall Mounting Adapter for Ø4 in Round Exterior Surface Junction Box [32] [33]

Notes:

1. Available with all pole mounting options.
2. Available with W1H2, W1H4 and W1HSJB adaptors only.
3. When combined with CSL lens, only AMB color temperature is available.
4. Available with Type 2, 3 and 4 distributions only.
5. Standard IK06 rating for glass lens. IK10 rated polycarbonate lens available, please consult factory.
6. Not available with type 5 distribution.
7. Available with type 3 and 5 distributions only.
8. Available for N03, N05, N07 and N10 outputs only.
9. Lumen output will vary according to the lens and distribution specified for the fixture. Please consult the photometric information section of the specification sheet for more details.
10. Available with AMB color temperature only.
11. Not available for FSL and HFSL lens.
12. Available with N02 and XS03 outputs only.
13. Backlight shield distributions not available if combined with WM option.
14. Available for CRI 80 only.
15. Available for CRI 80 and CRI 90 only.
16. Not DarkSky Approved.
17. Available for CRI 70 and CRI 80 only.
18. Binning within a 3-step McAdam ellipse, with the exception of 5700K.

19. Binning within a 2-step MacAdam ellipse, with the exception of 2200K and 5700K.
20. Binning within a 2-step MacAdam ellipse.
21. Available with CSL and HFSL lenses only.
22. Factory installed.
23. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
24. Longer lead times can be expected for custom RAL color finishes.
25. Setup charges apply for RAL colors. Consult factory for details.
26. DIM control can be used as NO (On/Off control) if no data is required.
27. Vibration tested in accordance with ANSI 136.31 2018 for bridge and overpass applications at 5Gv.
28. Specify only if a bridge or overpass application is required.
29. Not available for W1HSJB mounting adaptor.
30. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
31. Setup charges apply. Consult factory for details.
32. The WM-W1HSJB mounting is designed for installation on a round exterior (weatherproof) surface junction box (Ø4 in diameter and 1 5/8 in deep). For all other types of junction box, consult the factory.
33. Not available with VRBO option.