# **Noctura Series**

LED Flood Luminaires Rev. Date: V10 02/08/2023

## **Product Description**

The Noctura  $^{\circ}$  LED Flood luminaire minimizes cost of ownership with easy installation, high performance and quality backed by a Cree Lighting 5-year limited warranty. The Noctura Series has a coordinated style across area, flood and wall mount luminaires to provide a consistent daytime appearance across a building site or campus. Versatile mounting configurations offer installation flexibility and ease of application for ground, direct pole, tenon or vertical flat surface mounting.

Applications: Ideal for both retrofit and new installation: accent, sign or facade lighting applications.

### Performance Summary

Lumen Output: Up to 28,600 lumens

Efficacy: Up to 158 LPW

CRI: Minimum 70 CRI

CCT: 4000K, 5000K

Limited Warranty\*: 5 years on luminaire, mounts, visors, occupancy sensor and cables/1 year on remaining field-installed accessories

ting.com/warranty for warranty terms

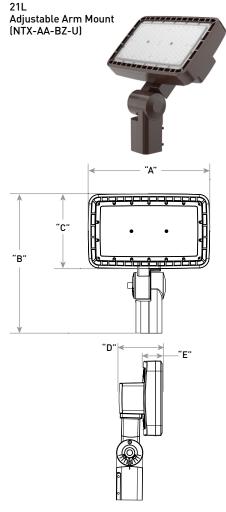
## Accessories

### Field-Installed Top Visor **Button Photocell Pole Mounted Occupancy Sensor** - Lumen multiplier from NTF-TV-10L-BZ JL-423CZ NTX-FSP221B-S-L7-W standard optic: 0.976 - For use with - UL (120-277V) Voltage only - For use with UL and UH voltages 10L only NTF-TV-1L-B7 Cable - Requires XA-SENSREM NTF-TV-14L-BZ - For use with 1L only NTX-QC-5 (120-277 Volt only) Hand-Held Remote NTF-TV-3L-BZ - For use with For use with 3L only 14L only NTF-TV-21L-BZ NTX-QC-5-U (120-480 Volt) XA-SENSREM - 5' (1.5m) cable replacement NTF-TV-6L-BZ - For successful implementation of the - For use with - For use with 6L only Shorting Cap Pole Mounted Occupancy sensor, a 21L only XA-XSLSHRT minimum of one hand-held remote is NTF-TV-28L-BZ required - For use with 28L only

### Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately: Example: Mount: NTX-AA-BZ-U + Luminaire: NTF-A-NM-N4-21L-40K-UL-BZ

### Mount (Luminaire must be ordered separately)\* Knuckle Mount (Small Adjustable Arm Mounts (Large Trunnion Mounts (Large Lumen Packages only) Lumen Packages only) Lumen Packages only) NTX-TR-BZ-U (120-480 Volt) NTF-KN-BZ NTX-AA-BZ-U (120-480 Volt) - Adjustable Arm Mount w/knockout - Trunnion Mount For use with 1L, 3L, 6L, NTX-TR-7R-BZ-U (120-480 Volt) 10L only for Field-Installed Button Photocell - Trunnion Mount w/NEMA® 7-pin Photocell Receptacle Yoke Mounts (Small Lumen (by others) NTX-TR-PK-BZ-U (120-480 Volt) NTX-AA-7R-BZ-U (120-480 Volt) Packages only) NTF-YM-1L-BZ Adjustable Arm Mount w/NEMA® Trunnion Mount w/knockout for Field-Installed 7-pin Photocell Receptacle Button Photocell (by others) - For use with 1L only NTF-YM-3L-BZ For use with 3L only NTF-YM-6L-BZ For use with 6L only NTF-YM-10L-BZ - For use with 10L only Note: NEMA® 7-pin Photocell Receptacle requires photocell or shorting cap by others



Lumen	Weight*	Dim	Dim	Dim	Dim	Dim
Package		"A"	"B"	"C"	"D"	"E"
14L*	10.8 lbs	13.4"	15.8"	7.5"	5.1"	2.3"
	(4.9kg)	(340mm)	(401mm)	(191mm)	(130mm)	(58mm)
21L*	13.5 lbs	14.4"	15.2"	8.9"	5.1"	2.3"
	(6.1kg)	(366mm)	(386mm)	(226mm)	(130mm)	(58mm)
28L*	17.2 lbs	13.4"	22.8"	14.7"	5.0"	2.1"
	(7.8kg)	(340mm)	(582mm)	(373mm)	(127mm)	(53mm)

### Ordering Information\*\*

Example: NTF-A-NM-N4-1L-40K-UL-BZ

NTF	Α	NM						BZ
Product	Version	Mounting	Optic	Lumen Package*		ССТ	Voltage	Color Options
NTF	A	NM No Mount	N4 NEMA 4x4 N6 NEMA 6x6	Small   1L   1,600 lumens   Not available in 347-480V   3L   3,000 lumens   Not available in 347-480V   6L   6,500 lumens   10L   10,000 lumens   10L   10L	Large 14L 14,000 lumens 21L 21,500 lumens 28L 28,600 lumens	40K 4000K 50K 5000K	UL Universal 120-277V UH Universal 347-480V	<b>BZ</b> Bronze

<sup>\*</sup> See mount descriptions for applicable mounts. Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to initial Delivered Lumen tables for

specific lumen values

\*\* Consult factory for availability





Reference EPA and pole configuration suitability data beginning on page 7

See pages 3-5 for additional line drawings
\* Includes housing & mount (for housing weight only refer to page 2)

### **Product Specifications**

### **CONSTRUCTION & MATERIALS**

- Luminaire housing is rugged die cast aluminum with integral LED driver compartment which is specifically designed for LED applications with advanced LED thermal management
- Housing and mounting accessories finished in polyester powder coat paint, 2.5 mil nominal thickness
- Small flood housings include knockout provision for field-installed button type photocell (by others)
- Field-installed button photocells should not exceed the following size limitations: 2.14" (54.5mm) L x 1.14" (29mm) W x 1.73" (44mm) H. Nipple should be centered in the housing to ensure proper fit
- Mounting options (for 1L, 3L, 6L, 10L) include:
  - · Yoke Mount is heavy gauge steel construction and mounts to flat
  - Yoke mount includes 18" (340mm) prewired SOW cord exiting the housing
  - · Mounting for the knuckle adaptor is rugged die cast aluminum and mounts to 1/2" (12.7mm) NPT, junction box cover (supplied by others)
  - Knuckle mount includes tooth lock aiming that can be adjusted 180° in 5° increments
- . Mounting options for (14L, 21L and 28L) include:
  - · Adjustable arm w/knockout provision for field-installed button type photocell (by others), adjustable arm w/NEMA® 7-pin photocell receptacle, trunnion mount, trunnion mount w/NEMA® 7-pin photocell receptacle, and trunnion mount w/knockout provision for field-installed button type photocell (by others)
  - · Photocell or shorting cap by others. Intended for downlight applications with maximum 45° tilt
  - Adjustable arm mount is constructed of rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenons. It includes tooth lock aiming that can be adjusted from 0° (horizontal) to 180° in 5° increments
  - Trunnion mount features rugged steel construction, mounts to vertical flat surfaces, and can be adjusted from 0° (horizontal) to 180° in 15° increments
- Housing Weight: 1L-2.6 lbs. (1.2kg), 3L-2.9 lbs. (1.3kg), 6L-3.2 lbs. (1.4kg), 10L-6.3 lbs. (2.9kg), 14L-7.0 lbs. (3.2kg), 21L-9.7 lbs. (4.4kg), 28L-13.4 lbs. (6.1kg)

### **OPTICS**

Mid-power LED array Floodlight optics are available in: medium flood (NEMA 4x4) and wide flood (NEMA 6x6) for 4000K and 5000K CCTs with a minimum of 70 CRI. Efficacies up to 158 LPW for minimal energy consumption. Top cutoff visors are available for light trespass and glare

### **ELECTRICAL SYSTEM**

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Integral 10kV/5kA surge suppression protection standard
- Designed with 0-10V dimming capabilities. Controls by others. Dimming only available on 14L, 21L and 28L
- 10V Source Current: 0.20 mA
- Operating Temperature Range: -30°C +40°C (-22°F +104°F)

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Enclosure meets IP66 requirements per IEC 60529
- ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- · RoHS compliant. Consult factory for additional details

- Adjustable arm and knuckle mounts are certified to ANSI C136.31-2018, 3G vibration standards. Yoke and trunnion mounts are certified to ANSI C136.31-2001, 1.5G vibration standards
- CA RESIDENTS WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

Electrical	Electrical Data*								
			Total Cu	rrent (A)					
Lumen Package	System Watts 120-277V	System Watts 347-480V	120V	208V	240V	277V	347V	480V	
1L	12	N/A	0.12	0.07	0.06	0.05	N/A	N/A	
3L	21	N/A	0.21	0.12	0.11	0.09	N/A	N/A	
6L	40	N/A	0.4	0.23	0.20	0.17	N/A	N/A	
10L	64	N/A	0.64	0.37	0.32	0.28	N/A	N/A	
14L	93	93	0.93	0.54	0.47	0.40	0.32	0.23	
21L	140	140	1.40	0.8	0.7	0.61	0.48	0.35	
28L	186	186	1.86	1.07	0.93	0.81	0.64	0.47	

<sup>\*</sup> Electrical data at  $25^{\circ}$ C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V

Noctura Ser	Noctura Series Ambient Adjusted Lumen Maintenance¹							
Ambient	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Estimated <sup>3</sup> LMF	100K hr Estimated <sup>3</sup> LMF			
5°C (41°F)	1.04	0.98	0.92	0.87	0.82			
10°C (50°F)	1.03	0.97	0.91	0.86	0.81			
15°C (59°F)	1.02	0.96	0.91	0.85	0.80			
20°C (68°F)	1.01	0.95	0.90	0.84	0.79			
25°C (77°F)	1.00	0.94	0.89	0.83	0.79			
30°C (86°F)	0.99	0.93	0.88	0.83	0.78			
35°C (95°F)	0.98	0.93	0.87	0.82	0.77			
40°C (104°F)	0.97	0.91	0.85	0.80	0.74			

<sup>1</sup>Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) in-90 report data of unite LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the <u>Temperature Zone Reference Document</u> for outdoor average nighttime ambient

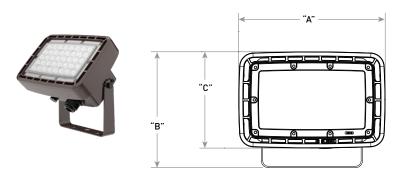
<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.
<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

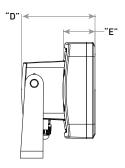
Noctura Series Flood Distributions							
Optic	Field Angle Range*	Beam Angle*					
N4	46-70 30D						
N6	N6 100-130 70D						

<sup>\*</sup> The field angle is the included angle between points of 10% of maximum intensity, and the beam angle is the included angle between points of 50% of maximum intensity



3L Yoke Mount (NTF-YM-\*L-BZ) \* Specify 1L, 3L, 6L or 10L Lumen Package

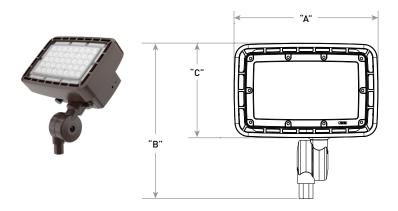


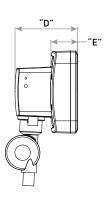


Lumen Package	Weight*	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
1L	2.9 lbs (1.3kg)	7.7" (196mm)	5.8" (147mm)	4.5" (114mm)	3.7" (94mm)	1.7" (43mm)
3L	3.3 lbs. (1.5kg)	8.3" (211mm)	6.5" (165mm)	5.4" (137mm)	4.1" (104mm)	1.8" (46mm)
6L	3.6 lbs.(1.6kg)	9.5" (241mm)	6.7" (170mm)	5.7" (145mm)	4.1" (104mm)	1.8" (46mm)
10L	6.7 lbs (3.1kg)	10.6" (269mm)	7.2" (180mm)	5.9" (150mm)	4.4" (112mm)	2.3" (58mm)

<sup>\*</sup> Includes housing & mount (for housing weight only refer to page 2)

3L Knuckle Mount (NTF-KN-BZ)



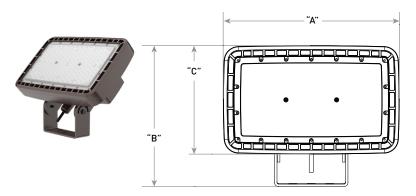


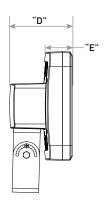
Lumen Package	Weight*	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
1L	3.0 lbs. (1.3kg)	7.7" (196mm)	8.0" (203mm)	4.5" (114mm)	3.7" (94mm)	1.7" (43mm)
3L	3.3 lbs. (1.5kg)	8.3" (211mm)	8.9" (226mm)	5.4" (137mm)	4.1" (104mm)	1.8" (46mm)
6L	3.6 lbs. (1.6kg)	9.5" (241mm)	6.7" (170mm)	5.7" (145mm)	4.1" (104mm)	1.8" (46mm)
10L	6.7 lbs. (3.0kg)	10.6" (269mm)	9.3" (236mm)	5.9" (150mm)	4.4" (112mm)	2.3" (58mm)

<sup>\*</sup> Includes housing & mount (for housing weight only refer to page 2)

**CREE \( \Dightarrow\)** LIGHTING<sup>®</sup>

21L Trunnion Mount (NTX-TR-BZ-U)

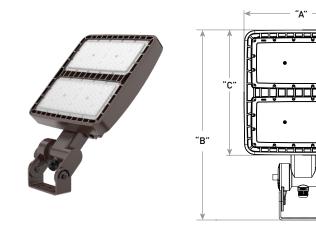


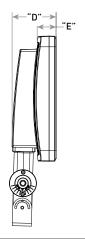


Lumen Package	Weight*	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
14L	10.1 lbs. (4.6kg)	13.4" (340mm)	10.8" (274mm)	7.5" (191mm)	5.1" (130mm)	2.3" (58mm)
21L	12.8 lbs. (5.8kg)	14.4" (366mm)	11.4" (290mm)	8.9" (226mm)	5.1" (130mm)	2.3" (58mm)
28L	16.5 lbs. (7.5kg)	13.4" (340mm)	17.8" (452mm)	14.2" (361mm)	5.0" (127mm)	2.1" (53mm)

<sup>\*</sup> Includes housing & mount (for housing weight only refer to page 2)

28L
Trunnion Mount w/Knockout for Field-Installed Button Photocell (by others)
(NTX-TR-PK-BZ-U)

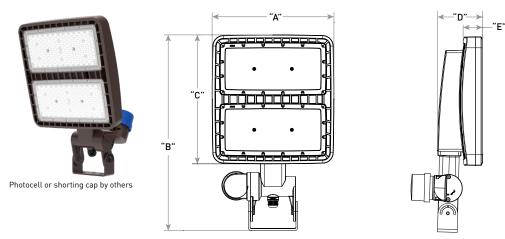




Lumen Package	Weight*	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
14L	11.2 lbs. (5.1kg)	13.4" (340mm)	14.5" (368mm)	7.5" (191mm)	5.1" (130mm)	2.3" (58mm)
21L	13.9 lbs. (1.8kg)	14.4" (366mm)	15.2" (386mm)	8.9" (1226mm)	5.1" (130mm)	2.3" (58mm)
28L	17.6 lbs. (8.0kg)	13.4" (340mm)	21.5" (546mm)	14.7" (373mm)	5.0" (127mm)	2.1" (53mm)

<sup>\*</sup> Includes housing & mount (for housing weight only refer to page 2)

28L Trunnion Mount w/NEMA® 7-pin Photocell Receptacle (NTX-TR-7R-BZ-U)



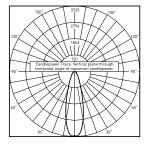
Lumen Package	Weight*	Dim "A"	Dim "B"	Dim "C"	Dim "D"	Dim "E"
14L	11.2 lbs. (5.1kg)	13.4" (340mm)	14.5" (368mm)	7.5" (191mm)	5.1" (130mm)	2.3" (58mm)
21L	13.9 lbs. (6.3kg)	14.4" (366mm)	15.2" (386mm)	8.9" (226mm)	5.1" (130mm)	2.3" (58mm)
28L	17.6 lbs. (8.0kg)	13.4" (340mm)	21.5" (546mm)	14.7" (373mm)	5.0" (127mm)	2.1" (53mm)

<sup>\*</sup> Includes housing & mount (for housing weight only refer to page 2)

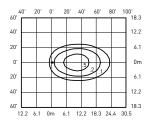
### **Photometry**

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <a href="http://creelighting.com/products/outdoor/flood/noctura-flood">http://creelighting.com/products/outdoor/flood/noctura-flood</a>

### N



Ningbo TengLi Testing Co. Test Report #: STD 190155NB-TB NTF-A-\*\*-N4-1L-30K-UL-\*\* Initial Delivered Lumens:1,673



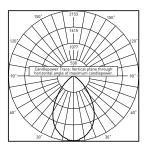
NTF-A-\*\*-N4-1L-40K-UL-BZ Mounting Height: 25' [7.6m] A.F.G., 60° Tilt Initial Delivered Lumens: 1,750 Initial FC at grade

NEMA® 4 Flood Distribution					
	4000K/5000K				
Lumen Package	Initial Delivered Lumens*	Efficacy (LPW)			
1L	1,750	146			
3L	3,010	143			
6L	6,300	158			
10L	9,900	155			
14L	14,150	152			
21L	21,700	155			
28L	28,600	154			

<sup>\*</sup> Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

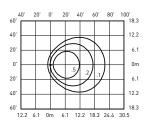
### **Photometry**

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: http://creelighting.com/products/outdoor/flood/noctura-flood



Ningbo TengLi Testing Co. Test Report #: STD190155NB-TH NTF-A-\*\*-N6-3L-30K-UL-\*\* Initial Delivered Lumens: 2,929

US: <u>creelighting.com</u> (800) 236-6800



NTF-A-\*\*-N6-3L-40K-UL-BZ Mounting Height: 25' [7.6m] A.F.G., 60° Tilt Initial Delivered Lumens: 1,750 Initial FC at grade

NEMA® 6 Flood Distribution					
	4000K/5000K				
Lumen Package	Initial Delivered Lumens*	Efficacy (LPW)			
1L	1,750	146			
3L	3,010	143			
6L	6,300	158			
10L	9,900	155			
14L	14,150	152			
21L	21,700	155			
28L	28,600	154			

<sup>\*</sup> Initial delivered lumens at  $25^{\circ}$ C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

### **Luminaire EPA**

	.e Arm Mount - NTX 7R-BZ-U mount	-AA-BZ-U w/hous	ing Weight: 14L: 10.	8 lbs. (4.9kg); 21L: 1	3.5 lbs. (6.1kg); 28L:	17.2 lbs. (7.8kg); Add	1.1lbs. (0.5kg) for	
Lumen Package	Single	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 90°	4 @ 180°
Tenon Co	nfiguration (0°-45°	Tilt): If used with 0	Cree Lighting tenons	, please add tenon E	PA with Luminaire E	PA		
	PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(90); PT-2(90)*	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-3A*; PB-3R2.375; PD-3A4[90]; PT-3[90]	PB-3A*; PB-3R2.375; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)	PB-4A*(180); PB-4R2.375
0° Tilt								
14L	0.54	1.08	1.08	1.62	1.62	1.62	2.16	2.16
21L	0.54	1.08	1.08	1.62	1.62	1.62	2.16	2.16
28L	0.73	1.46	1.46	1.99	1.99	1.99	2.52	2.52
10° Tilt								
14L	0.64	1.28	1.28	1.92	1.92	1.92	2.56	2.56
21L	0.67	1.34	1.34	2.01	2.01	2.01	2.68	2.68
28L	0.74	1.48	1.48	2.22	2.36	2.22	2.96	2.96
20° Tilt					·			
14L	0.72	1.44	1.44	2.16	2.16	2.16	2.88	2.88
21L	0.78	1.56	1.56	2.34	2.34	2.34	3.12	3.12
28L	0.91	1.82	1.82	2.73	2.74	2.73	3.64	3.64
30° Tilt								
14L	0.75	1.50	1.50	2.25	2.25	2.25	3.00	3.00
21L	0.83	1.66	1.66	2.49	2.49	2.49	3.32	3.32
28L	1.02	2.04	2.04	3.06	3.06	3.06	4.08	4.08
45° Tilt								
14L	0.77	1.54	1.54	2.31	2.31	2.31	3.08	3.08
21L	0.87	1.74	1.74	2.61	2.61	2.61	3.48	3.48
28L	1.13	2.26	2.26	3.39	3.39	3.39	4.52	4.52

<sup>\*</sup> Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
\*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



### Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-7R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25

<sup>\*</sup> Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"], or 6 [6"] for quad luminaire orientation \*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 ( $\overset{\checkmark}{4}$ "), 5 (5"), or 6 (6")

## Tenons and Brackets‡ (must specify color) Square Internal Mount Vertical Tenons (Steel)

- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A\* – Single PB-2A\* – 180° Twin PB-3A\* – 180° Triple PB-4A\*(90) - 90° Quad PB-4A\*(180) - 180° Quad

### Square Internal Mount Horizontal Tenons (Aluminum)

- Mounts to 4" (102mm) square aluminum or steel poles PD-2A4(90) - 90° Twin PD-3A4(90) - 90° Triple PD-2A4(180) - 180° Twin PD-4A4(90) - 90° Quad

### Wall Mount Brackets

- Mounts to wall or roof

WM-2 - Horizontal for NTX-AA mounts WM-4 - L-Shape for NTX-AA mounts

- Hub with a threaded entry for 1/2" knuckle mount -Slips over a 2.375" (60mm) O.D. pipe or tenon MNH-2 - for NTF-KN mounts

### Round External Mount Vertical Tenons (Steel)

- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 - Twin PB-4R2.375 - Quad PB-7R2.375 - Triple

### Round External Mount Horizontal Tenons (Aluminum)

- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

- Mounts to square pole with PB-1A\* tenon PT-3(90) - 90° Triple PT-3(120) - 120° Triple PT-1 - Single (Vertical) PT-2(90) – 90° Twin PT-2(180) – 180° Twin PT-4(90) - 90° Quad

### Mid-Pole Bracket

- Mounts to square pole PW-1A3\*\* - Single PW-2A3\*\* - Double

### **Ground Mount Post**

- For ground-mounted flood luminaires PGM-1 - for NTX-AA mounts

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<sup>‡</sup> Refer to the <u>Bracket and Tenons spec sheet</u> for more details