

## KEY FEATURES

- Designed for hazardous location use
- Optimized thermal management of electronics for longevity
- Field serviceable light engines, power supply, and housing elements
- Multiple optical distribution patterns for superior lighting quality
- Approved for through-wiring of several units on a single circuit
- Built-in junction area for simplified termination
- 8 mounting options for installation flexibility
- Available in 90+ CRI

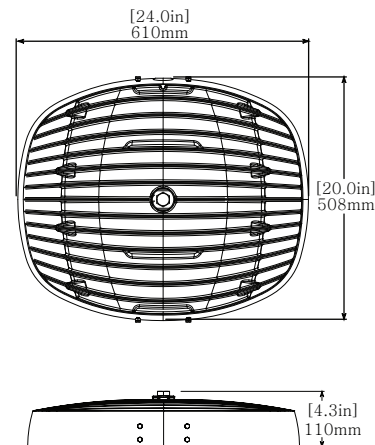


## TECHNICAL SPECIFICATIONS / MAXIMUM RATINGS

<b>HOUSING</b>	Copper free aluminum and polycarbonate lens
<b>MOUNTING</b>	See pages 4 and 5 for MOUNTING OPTIONS
<b>INPUT VOLTAGE</b>	<b>AC:</b> 120-277VAC   <b>HV:</b> 347-480VAC (50/60Hz)
<b>POWER (TYP)</b>	See CHART on page 2
<b>CURRENT (TYP)</b>	See CHART on page 2
<b>CONNECTIONS</b>	2x 3/4" NPT
<b>DIMMING</b>	0-10V Dimmable, Class 1 wiring   See CHART on page 2
<b>TEMPERATURE RANGE</b>	See CHART on page 3
<b>CERTIFICATIONS</b>	Certified to UL 844 / CSA C22.2 No. 137-M1981; UL 1598 / CSA C22.2 No. 250.0-08; UL 1598A; UL 8750; CSA C22.2 No. 250.13 Class I, Division 2, Groups ABCD; T4 Class II, Division 2, Groups FG, T4A; Class III; Class I, Zone 2, Groups IIC; Zone 22, Groups IIIB
<b>INGRESS PROTECTION</b>	IP66/67 Suitable for wet locations. Marine outside type (salt water).
<b>COLOUR TEMP RANGE</b>	<b>50:</b> 5000K   <b>Special Order:</b> 2700-6500K
<b>CRI VALUE (MIN)</b>	<b>50:</b> 70   <b>Special Order:</b> 90+
<b>TOTAL LUMENS</b>	See CHART on page 2
<b>LUMEN MAINTENANCE</b>	LM-80 > 100,000 hrs (Based on CREE long term testing)
<b>WEIGHT</b>	16.4 kg   36 lbs

\* The ambient temperature during lifetime, lumen and chromaticity determination is 25°C ± 1°C.

## DIMENSIONS



## WARRANTY

Five (5) year limited warranty to the original purchaser. The warranty covers defects in materials and workmanship under normal use and service.

For additional information see:  
<https://nemalux.com/legal>

### ELECTRICAL RATINGS

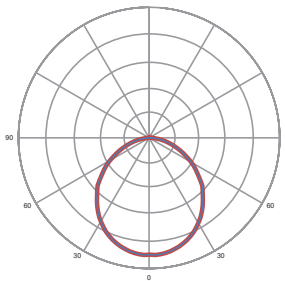
**AC MODELS (5000K CCT)**  
 120-277 VAC Input Range  
 50/60 Hz Frequency

MODEL	RATED WATTAGE [Watts]	TYPICAL POWER - FLOOD MODELS [WATTS]		TYPICAL POWER - OPTIC MODELS [WATTS]	
		@120VAC	@277VAC	@120VAC	@277VAC
AR10	107	88.8	91.8	96.9	99.2
AR15	145	119.5	121.6	130.0	131.7
AR20	190	156.3	157.0	170.0	170.6
AR25	247	209.7	208.1	224.9	222.7
AR30	312	277.7	274.4	297.0	292.9

**HV MODELS (5000K CCT)**  
 347-480 VAC Input Range  
 50/60 Hz Frequency

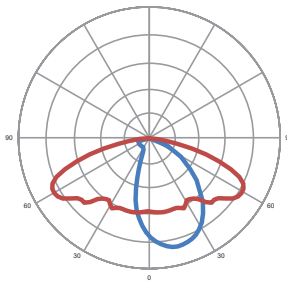
MODEL	RATED WATTAGE [Watts]	TYPICAL POWER - FLOOD MODELS [WATTS]		TYPICAL POWER - OPTIC MODELS [WATTS]	
		@ 347VAC	@ 480VAC	@ 347VAC	@ 480VAC
AR10	129	113.0	118.3	121.9	127.0
AR15	145	135.6	140.6	145.7	150.6
AR20	187	171.5	193.8	180.5	183.3
AR25	248	224.6	228.4	238.3	241.9
AR30	310	287.3	289.5	297.6	297.4

### OPTIC OPTIONS



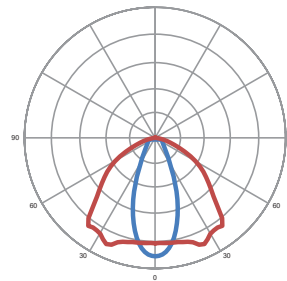
**WC - Wide Beam (No Optics)**

MODEL	LUMENS	LUMENS/WATT
AR10	12270	140
AR15	16490	140
AR20	20730	134
AR25	26610	129
AR30	33190	121



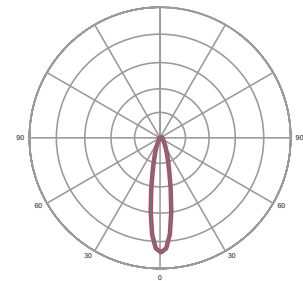
**T2 - IESNA Type 2**

MODEL	LUMENS	LUMENS/WATT
AR10	12370	132
AR15	16340	130
AR20	20560	125
AR25	26090	117
AR30	31670	109



**OC - Oval 26° x 108°**

MODEL	LUMENS	LUMENS/WATT
AR10	12260	127
AR15	16200	127
AR20	20380	124
AR25	25860	119
AR30	31400	109



**SC - Spot 18°**

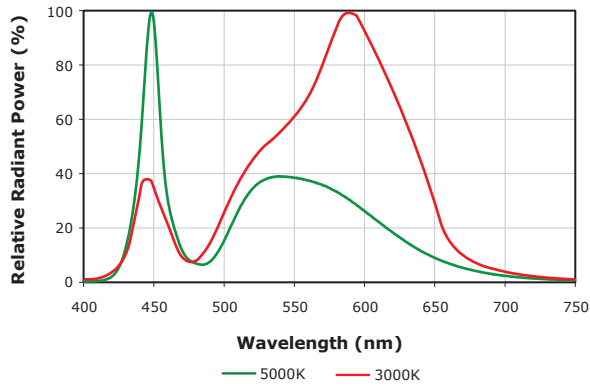
MODEL	LUMENS	LUMENS/WATT
AR10	12330	128
AR15	16290	128
AR20	20500	125
AR25	26020	119
AR30	31590	110

*Note: 13 alternate optical profiles available upon request.  
 Contact Nemalux Sales representative for further details. Minimum order quantities, additional costs and lead times may apply.*

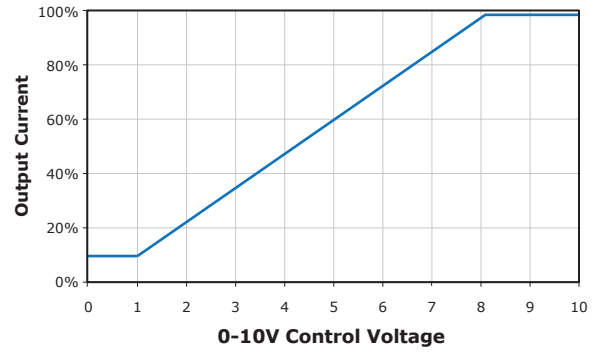
### TEMPERATURE RANGE CHART:

MODEL	INPUT VOLTAGE	OPTICAL MODELS		FLOOD MODELS		ALL MODELS
		AMBIENT TEMP [°C]	CLASS I, DIV 2 T-CODES	AMBIENT TEMP [°C]	CLASS I, DIV 2 T-CODES	CLASS II, DIV 2 T-CODES
AR10	AC	-40 to 55	T3C	-40 to 55	T4A	T5
	HV	-40 to 54	T3C	-40 to 51	T4	T5
AR15	AC	-40 to 55	T3C	-40 to 55	T4A	T5
	HV	-40 to 54	T3C	-40 to 51	T4	T5
AR20	AC	-40 to 55	T3C	-40 to 55	T4A	T5
	HV	-40 to 54	T3C	-40 to 51	T4	T5
AR25	AC	-40 to 51	T3C	-40 to 55	T4A	T5
	HV	-40 to 44	T3B	-40 to 50	T4A	T5
AR30	AC	-40 to 43	T3	-40 to 42	T4A	T5
	HV	-40 to 43	T3	-40 to 40	T3	T5

### PHOTOMETRICS



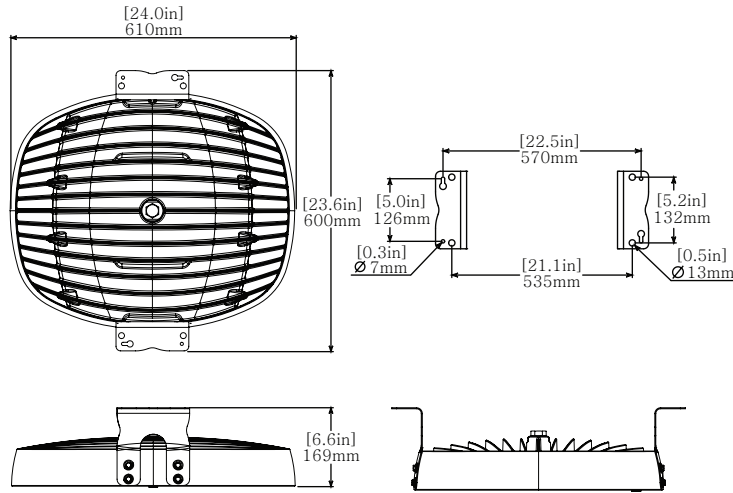
### DIMMING



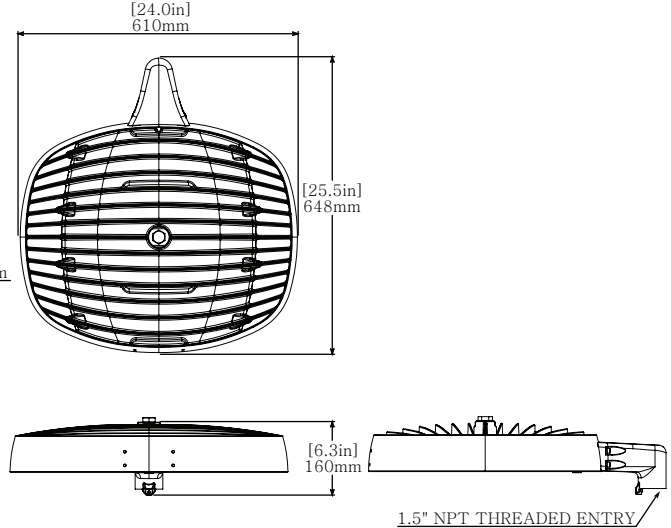
- Driver will source a maximum of 200uA for control needs
- Controller must sink current from the 0-10V control leads

### MOUNTING OPTIONS (Ordered Separately)

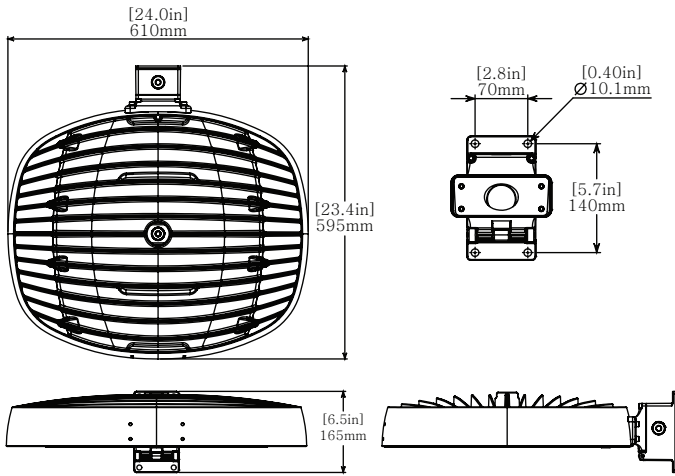
**SURFACE/SUSPENDED MOUNT (AR-SM): 16.8 kg | 37 lbs**



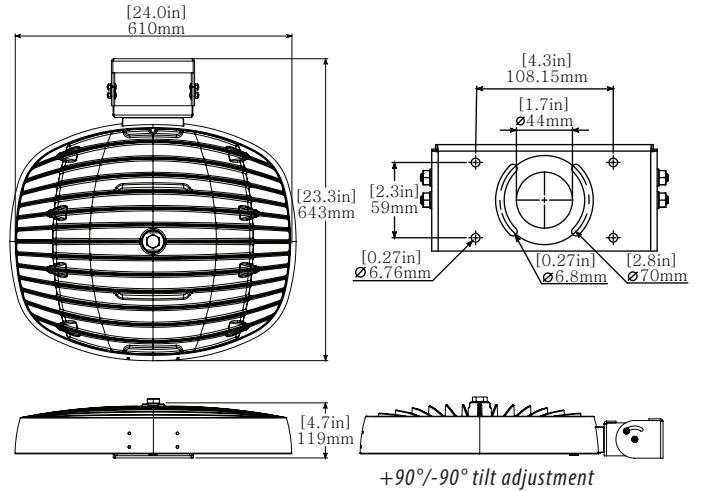
**POLE MOUNT (AR-PM): 17.3 kg | 38 lbs | EPA: 0.07 m<sup>2</sup> / 0.72 ft<sup>2</sup>**



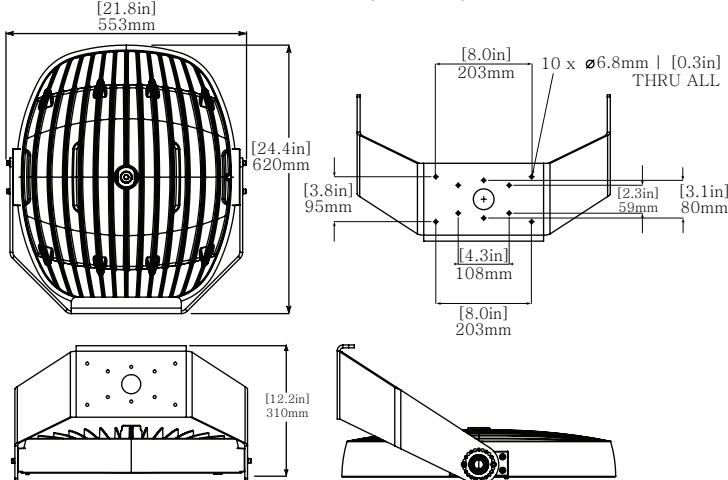
**WALL MOUNT 2 (AR-WM2): 17.6 kg | 38.5 lbs**



**YOKE MOUNT (AR-YM): 18.0 kg | 39.6 lbs | EPA: 0.28 m<sup>2</sup> / 3.06 ft<sup>2</sup>**

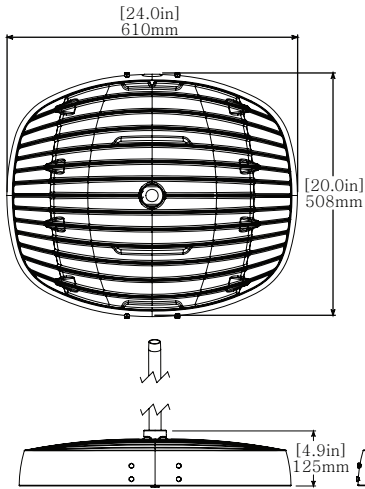


**HIGH VIBRATION YOKE (AR-YK): 23.8 kg | 52.5 lbs | EPA: 0.37 m<sup>2</sup> / 3.97 ft<sup>2</sup>**

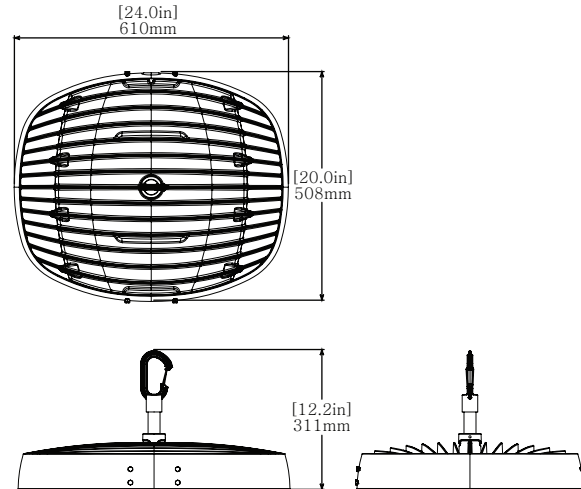


### MOUNTING OPTIONS (Ordered Separately)

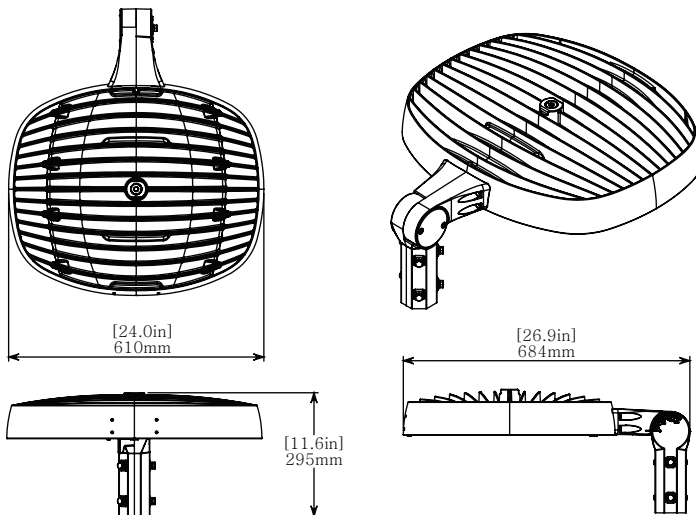
**CONDUIT MOUNT (AR-CM):** 16.4 kg | 36 lbs



**HOOK PENDANT (AR-HK):** 16.8 kg | 36.9 lbs

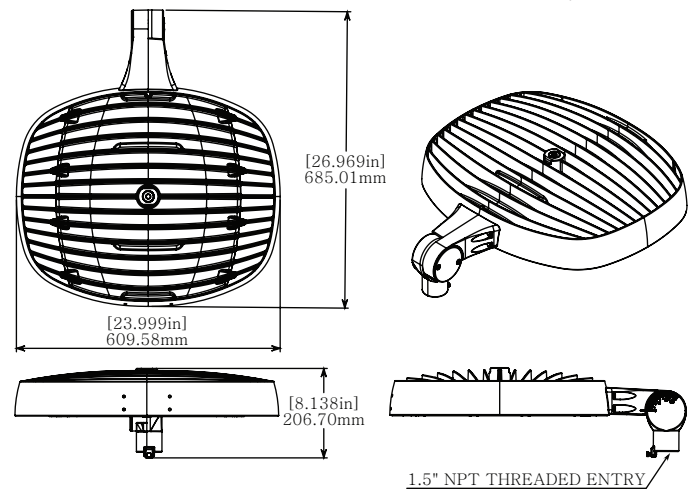


**SLIP FITTER YOKE MOUNT (AR-SFY):** 18.35 kg | 40.3 lbs | EPA: 0.3 m<sup>2</sup> / 3.24 ft<sup>2</sup>



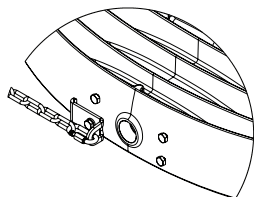
Stepped to accept either 1.5" Trade size (1-13/16" [46mm] to 2" [50mm] OD) & 2" Trade size (2-1/8" [53mm] to 2-7/16" [63mm])

**THREADED ADJUSTABLE POLE MOUNT (AR-SFY-1.5):** 17.4 kg | 39.5 lbs  
EPA: 0.3 m<sup>2</sup> / 3.24 ft<sup>2</sup>



1.5" NPT THREADED ENTRY

### SECONDARY SAFETY KIT (AR-SK-##)



##represents the safety chain length in feet (i.e. 05=5', 10=10'). Secondary Safety Kit contains bracket, stainless steel chain (1/8 trade size), and two stainless steel oval threaded connecting links.

### ORDERING INFORMATION

PROJECT NAME		TYPE
PROJECT LOCATION		
COMMENT		DATE
PREPARED BY		

### MODEL SELECTOR

Sample Number: AR30-50-WC-GY-HZ-AC

MODEL	COLOUR	OPTIC	FINISH	LOCATION	POWER
AR10 <sup>6</sup> AR15 <sup>6</sup> AR20 <sup>6</sup> AR25 <sup>6</sup> AR30 <sup>6</sup>	50 - 5000K Special Order: 27 - 2700K <sup>1,3</sup> 27H - 2700K High CRI <sup>1,3</sup> 30 - 3000K <sup>1,3</sup> 30H - 3000K High CRI <sup>1,3</sup> 35 - 3500K <sup>1</sup> 35H - 3500K High CRI <sup>1</sup> 40 - 4000K <sup>1</sup> 40H - 4000K High CRI <sup>1</sup> 50H - 5000K High CRI <sup>1</sup> 57 - 5700K <sup>1</sup> 57H - 5700K High CRI <sup>1</sup> 65 - 6500K <sup>1</sup> 65H - 6500K High CRI <sup>1</sup>	WC - Wide Beam (No optics) Special Order: T1 - IESNA Type 1 <sup>1</sup> T2 - IESNA Type 2 <sup>1</sup> T3 - IESNA Type 3 <sup>1</sup> T4 - IESNA Type 4 <sup>1</sup> T5 - IESNA Type 5 <sup>1</sup> SC - Spot 18° <sup>1</sup> TC - Tight 32° <sup>1</sup> MC - Medium 50° <sup>1</sup> OC - Oval 26° x 108° <sup>1</sup> PX - Asymmetric 20° x 80° w/ 45° forward kick <sup>1</sup> FN - Asymmetric 90° x 22° w/ 45° forward kick <sup>1</sup> 2W - Asymmetric 135° x 55° w/ 25° forward kick <sup>1</sup> 3W - Asymmetric 155° x 55° w/ 30° forward kick <sup>1</sup> W1 - Asymmetric 150° x 52° w/ 30° forward kick <sup>1</sup> DN - Asymmetric 105° x 55° w/ 25° forward kick <sup>1</sup> XW - Asymmetric 135° x 170° w/ 75° forward kick <sup>1</sup>	GY - Grey  Custom finishes are available. Please contact for details. <sup>1</sup>	HZ - Hazardous Locations	AC - 120-277VAC HV - 347-480VAC

### ACCESSORIES (Order Separately)

Sample Number: AR-WM2-GY

ACCESSORY	FINISH	HAZLOC
	GY - Grey	HZ - Hazardous Location <sup>5</sup>
AR-SM - Surface Mount <sup>2</sup> AR-WM2 - Wall Mount 2 <sup>3</sup> AR-HK - Hook Pendant Mount AR-PM - Pole Mount <sup>3</sup> AR-YM - Yoke Mount <sup>2</sup> AR-YK - High Vibration Yoke Mount <sup>2</sup> AR-SFY - Slip Fitter Yoke Mount <sup>5</sup> AR-SFY-1.5 - Threaded Adjustable Pole Mount AR-SK-## - Secondary Safety Kit <sup>2,4</sup> AR-SP-AC - Surge Suppressor <sup>7</sup> AR-SP-HV - Surge Suppressor <sup>7</sup>	Custom finishes are available. Please contact for details. <sup>1</sup>	

#### NOTES:

1. Minimum order quantities, additional costs and lead times may apply.
2. Only available in stainless steel finish.
3. IDA Fixture Seal of Approval only applies to fixtures with a CCT of 3000K or less, and have fixed mounts aiming the fixture perpendicular to the ground.
4. ## represents the safety chain length in feet (i.e. 05=5', 10=10').  
Secondary safety kit contains bracket, stainless steel chain (1/8 trade size), and two stainless steel oval threaded connecting links.
5. HZ only applicable to slip fitter yoke mount (AR-SFY-GY-HZ).
6. See DLC listed models chart.
7. See surge suppressor options.

#### DLC listed models chart:

DesignLights Consortium (DLC) v5.1 Qualified LED Luminaire Listings			
Model No.	Category	General Application	Classification
AR10-50-WC-xx-xx-AC	Outdoor Luminaires	High Output	DLC Premium
	Indoor Luminaires	High-Bay	DLC Standard
AR15-50-WC-xx-xx-[AC,HV]	Outdoor Luminaires	High Output	DLC Premium
	Indoor Luminaires	High-Bay	DLC Standard
AR20-50-WC-xx-xx-[AC,HV]	Outdoor Luminaires	High Output	DLC Premium
	Indoor Luminaires	High-Bay	DLC Standard
AR25-50-WC-xx-xx-[AC,HV]	Outdoor Luminaires	High Output	DLC Premium
	Indoor Luminaires	High-Bay	DLC Standard
AR30-50-WC-xx-xx-[AC,HV]	Outdoor Luminaires	Very High Output	DLC Premium
	Indoor Luminaires	High-Bay	DLC Standard

#### Surge suppressor options:

##### AR-SP-AC – 277V FOR USE WITH -AC AR MODELS

-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µs & 10KA, 8/20µs) standard Combo waves and (6KV, 100KHz) Ring wave

-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µs & 10KA, 8/20µs) standard Combo waves and (6KV, 100KHz) Ring wave

##### AR-SP-HV – 480V FOR USE WITH -HV AR MODELS

-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µs & 10KA, 8/20µs) standard Combo waves and (6KV, 100KHz) Ring wave

-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µs & 10KA, 8/20µs) standard Combo waves and (6KV, 100KHz) Ring wave