

### KEY FEATURES

- Designed for a wide range of marine and industrial applications
- Optimized thermal management of electronics for longevity
- Field serviceable light engines, power supply, and housing elements
- 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

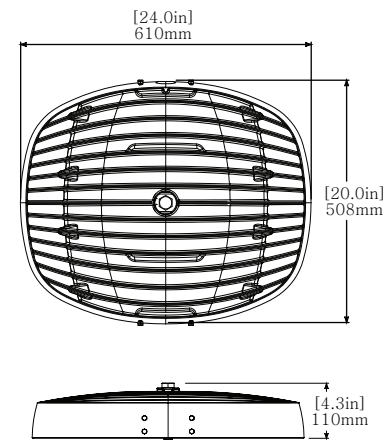


### TECHNICAL SPECIFICATIONS / MAXIMUM RATINGS

<b>HOUSING</b>	Copper free aluminum and polycarbonate lens														
<b>MOUNTING</b>	See pages 3 and 4 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>	<table border="0"> <tr> <td><b>AR20H Models:</b> -40°C to +53°C (AC)</td> <td>to +48°C (HV)</td> </tr> <tr> <td><b>AR25H Models:</b> -40°C to +53°C (AC)</td> <td>to +48°C (HV)</td> </tr> <tr> <td><b>AR30H Models:</b> -40°C to +53°C (AC)</td> <td>to +48°C (HV)</td> </tr> <tr> <td><b>AR35H Models:</b> -40°C to +49°C (AC)</td> <td>to +40°C (HV)</td> </tr> <tr> <td><b>AR40H Models:</b> -40°C to +49°C (AC)</td> <td>to +40°C (HV)</td> </tr> <tr> <td><b>AR45H Models:</b> -40°C to +42°C (AC)</td> <td>to +40°C (HV)</td> </tr> <tr> <td><b>AR50H Models:</b> -40°C to +42°C (AC)</td> <td>to +40°C (HV)</td> </tr> </table>	<b>AR20H Models:</b> -40°C to +53°C (AC)	to +48°C (HV)	<b>AR25H Models:</b> -40°C to +53°C (AC)	to +48°C (HV)	<b>AR30H Models:</b> -40°C to +53°C (AC)	to +48°C (HV)	<b>AR35H Models:</b> -40°C to +49°C (AC)	to +40°C (HV)	<b>AR40H Models:</b> -40°C to +49°C (AC)	to +40°C (HV)	<b>AR45H Models:</b> -40°C to +42°C (AC)	to +40°C (HV)	<b>AR50H Models:</b> -40°C to +42°C (AC)	to +40°C (HV)
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<b>AR50H Models:</b> -40°C to +42°C (AC)	to +40°C (HV)														
<b>CERTIFICATIONS</b>	Certified to UL 1598 & UL 1598A, UL 8750; CSA 22.2 No. 250.0, CSA 22.2 No. 250.13;														
<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

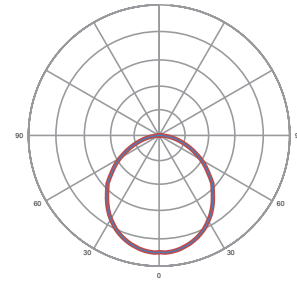
**AC MODELS (5000K CCT)**  
 120-277 VAC Input Range  
 50/60 Hz Frequency

MODEL	CURRENT [A]	WATTAGE [W]
AR20H	1.0A / 0.5A	130
AR25H	1.3A / 0.6A	150
AR30H	1.5A / 0.7A	190
AR35H	1.7A / 0.8A	210
AR40H	2.0A / 0.9A	250
AR45H	2.3A / 1.0A	275
AR50H	2.4A / 1.0A	290

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

MODEL	CURRENT [A]	WATTAGE [W]
AR20H	0.4A / 0.3A	130
AR25H	0.5A / 0.4A	150
AR30H	0.6A / 0.4A	190
AR35H	0.6A / 0.5A	210
AR40H	0.8A / 0.6A	250
AR45H	0.8A / 0.6A	275
AR50H	0.9A / 0.6A	290

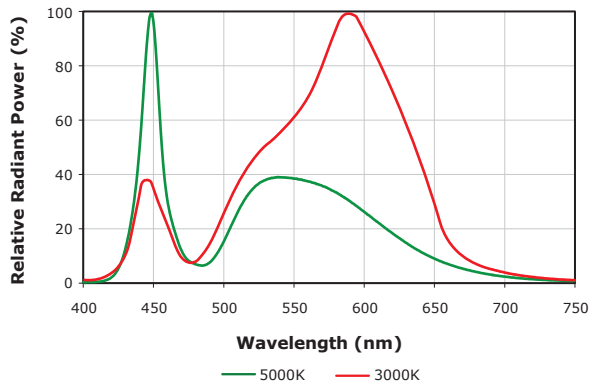
### OPTIC OPTIONS



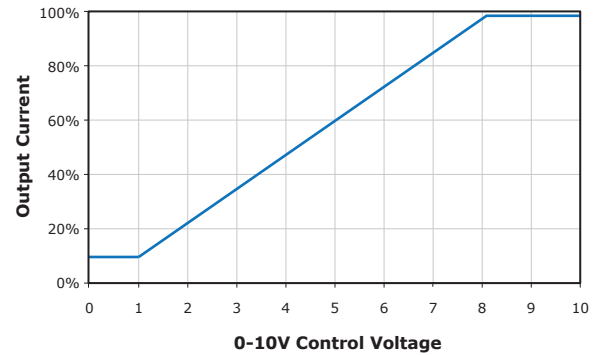
WC - Wide Beam (No Optics)

MODEL	LUMENS	LUMENS/WATT
AR20H	21890	168
AR25H	25393	169
AR30H	32289	170
AR35H	35684	170
AR40H	42373	169
AR45H	45490	165
AR50H	48940	164

### PHOTOMETRICS



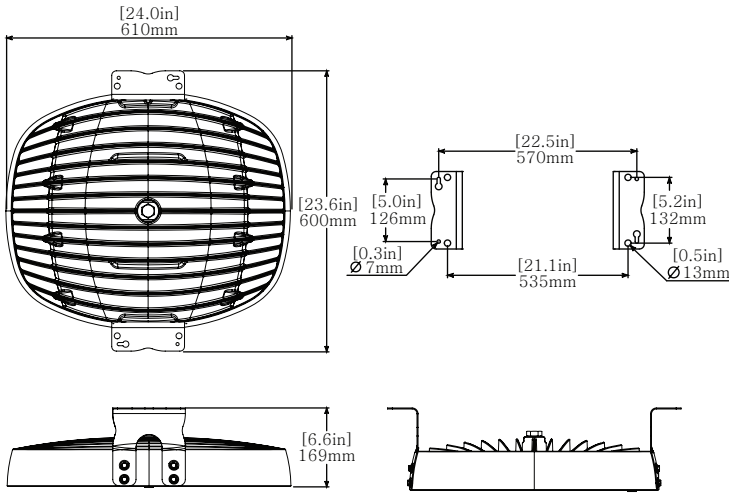
### DIMMING



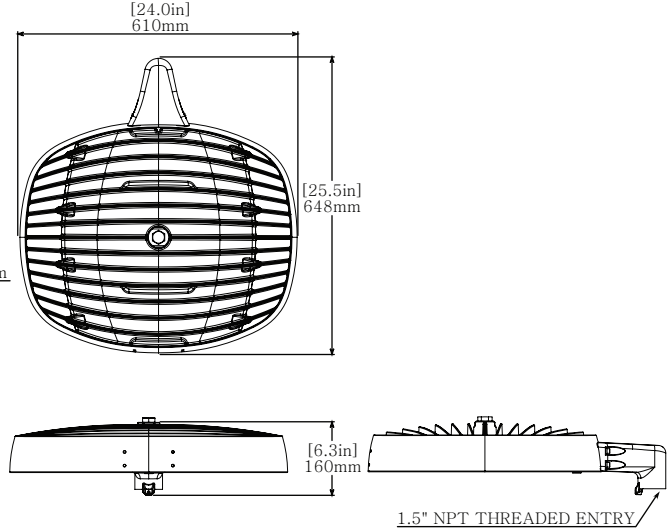
- Driver will source a maximum of 200uA for control needs
- Controller must sink current from the 0-10V control leads

## MOUNTING OPTIONS (Ordered Separately)

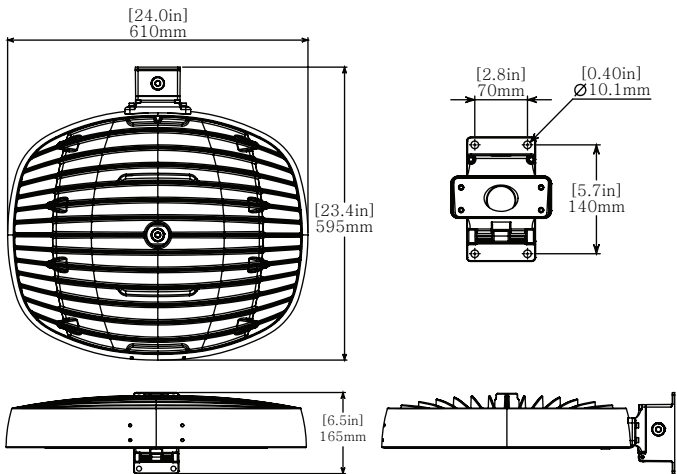
**SURFACE/SUSPENDED MOUNT (AR-SM): 16.8 kg | 37 lbs**



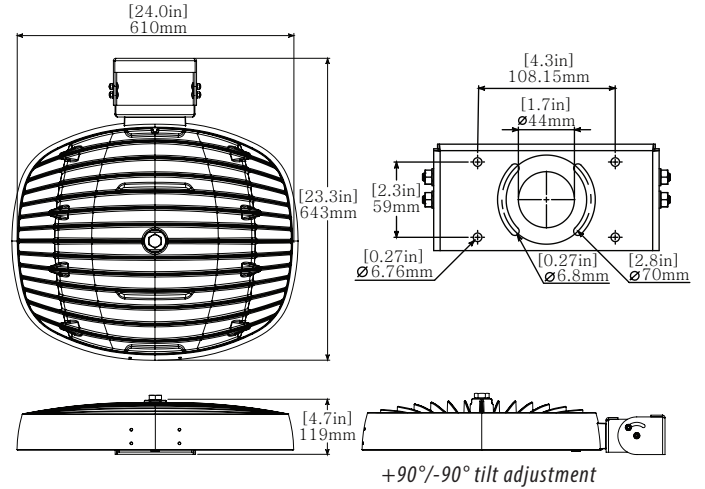
**POLE MOUNT (AR-PM): 17.3 kg | 38 lbs | EPA: 0.07 m<sup>2</sup> / 0.72 ft<sup>2</sup>**



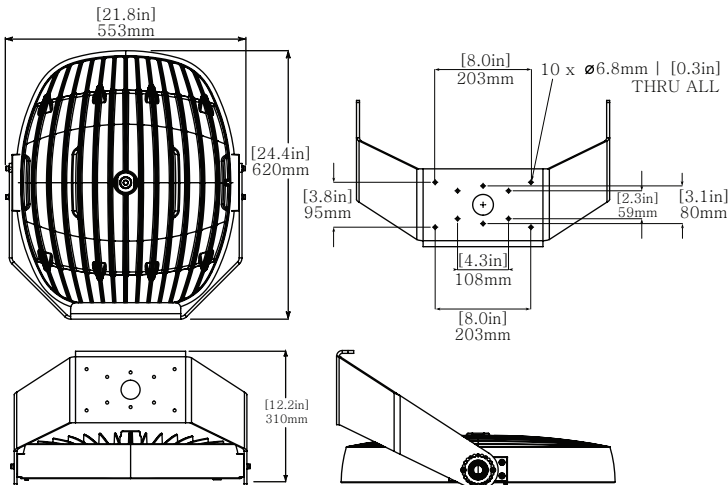
**WALL MOUNT 2 (AR-WM2): 17.6 kg | 38.5 lbs**



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

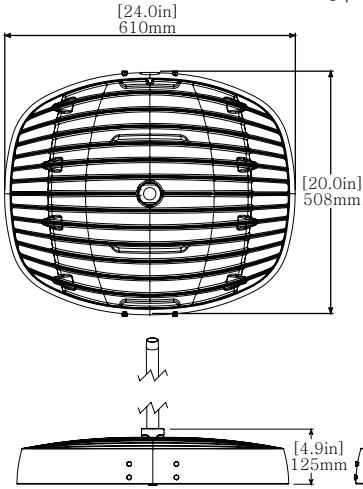


**HIGH VIBRATION YOKE (AR-YK): 23.8 kg | 52.5 lbs | EPA: 0.37 m<sup>2</sup> / 3.97 ft<sup>2</sup>**

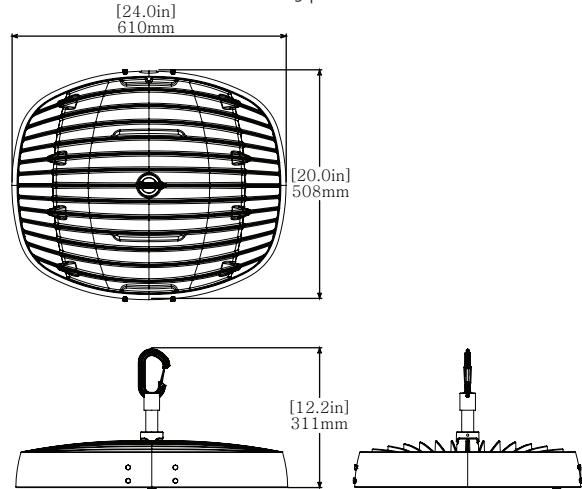


### MOUNTING OPTIONS (Ordered Separately)

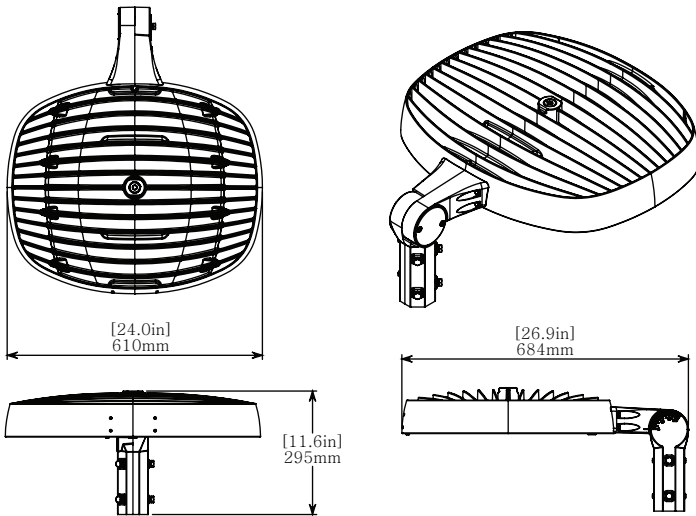
**CONDUIT MOUNT (AR-CM):** 16.4 kg | 36 lbs



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

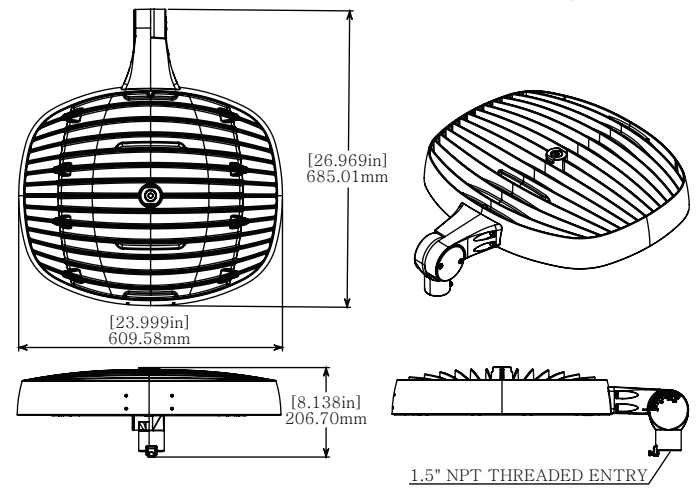


**SLIP FITTER YOKE MOUNT (AR-SFY):** 18.35 kg | 40.3 lbs | EPA: 0.3 m<sup>2</sup> / 3.24 ft<sup>2</sup>

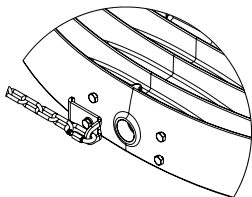


Stepped to accept either 1.5" Trade size (1-13/16" [46mm] to 2" [50mm] OD) & 2" Trade size (2-1/8" [53mm] to 2-7/16" [63mm])

**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>



### 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: AR40H-50-WC-GY-GN-AC

MODEL	COLOUR	OPTIC	FINISH	LOCATION	POWER
-	-	WC	GY	GN	-
AR20H <sup>5</sup> AR25H <sup>5</sup> AR30H <sup>5</sup> AR35H <sup>5</sup> AR40H <sup>5</sup> AR45H <sup>5</sup> AR50H <sup>5</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)	GY - Grey  Custom finishes are available. Please contact for details. <sup>1</sup>	GN - General Location	AC - 120-277VAC HV - 347-480VAC

### ACCESSORIES (Order Separately)

Sample Number: AR-WM2-GY

ACCESSORY	FINISH
-	GY
AR-SM - Surface Mount <sup>2</sup> AR-WM2 - Wall Mount <sup>2,3</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-CM - Conduit Mount <sup>3</sup> AR-SFY - Slip Fitter Yoke Mount AR-SFY-1.5 - Threaded Adjustable Pole Mount AR-SK-## - Secondary Safety Kit <sup>2,4</sup> AR-SP-AC - Surge Suppressor <sup>5</sup> AR-SP-HV - Surge Suppressor <sup>5</sup>	GY - Grey  Custom finishes are available. Please contact for details. <sup>1</sup>

Surge suppressor options:

<p><b>AR-SP-AC – 277V FOR USE WITH -AC AR MODELS</b></p> <p>-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µS &amp; 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave</p> <p>-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µS &amp; 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave</p>
<p><b>AR-SP-HV – 480V FOR USE WITH -HV AR MODELS</b></p> <p>-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µS &amp; 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave</p> <p>-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µS &amp; 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave</p>

#### 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. See surge suppressor options.