Nemalux™

AR-H-GN
rev. A5

KEY FEATURES

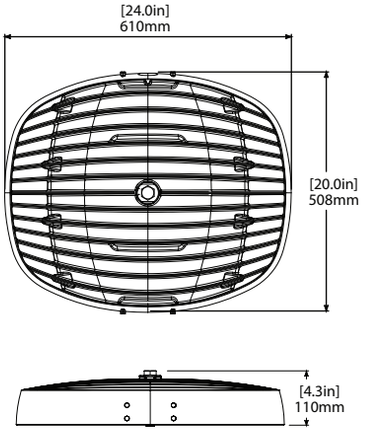
- Designed for a wide range of marine and industrial applications
- Approved for through-wiring of several units on a single circuit
- Optimized thermal management of electronics for longevity
- Built-in junction area for simplified termination
- 8 mounting options for installation flexibility
- Available in 90+ CRI

TECHNICAL SPECIFICATIONS / MAXIMUM RATINGS

HOUSING	Copper free aluminum and polycarbonate lens
MOUNTING	See pages 3 and 4 for MOUNTING OPTIONS
INPUT VOLTAGE	**AC:** 120-277 VAC | **HV:** 347-480 VAC (50/60Hz)
POWER (TYP)	See CHART on page 2
CURRENT (TYP)	See CHART on page 2
CONNECTIONS	2x 3/4" NPT
DIMMING	0-10V Dimmable, Class 1 wiring | See CHART on page 2
TEMPERATURE RANGE	**AR20H Models:** -40°C to +53°C (AC) | to +48°C (HV) **AR25H Models:** -40°C to +53°C (AC) | to +48°C (HV) **AR30H Models:** -40°C to +53°C (AC) | to +48°C (HV) **AR35H Models:** -40°C to +49°C (AC) | to +40°C (HV) **AR40H Models:** -40°C to +49°C (AC) | to +40°C (HV) **AR45H Models:** -40°C to +42°C (AC) | to +40°C (HV) **AR50H Models:** -40°C to +42°C (AC) | to +40°C (HV)
CERTIFICATIONS	Certified to UL 1598 & UL 1598A, UL 8750; CSA 22.2 No. 250.0, CSA 22.2 No. 250.13;
INGRESS PROTECTION	IP66/67 Suitable for wet locations. Marine outside type (salt water).
COLOR TEMP RANGE	**50:** 5,000K | **Special Order:** 2,700-6,500K
CRI VALUE (MIN)	**50:** 70 | **Special Order:** 90+
TOTAL LUMENS	See CHART on page 2
LUMEN MAINTENANCE	LM-80 > 100,000 hrs (Based on CREE long term testing)
WEIGHT	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

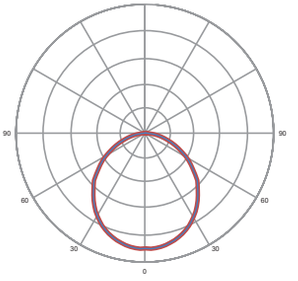
AC MODELS
(5000K CCT, minimum 70CRI)
120-277 VAC Input Range
50/60 Hz Frequency

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, minimum 70CRI)
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)

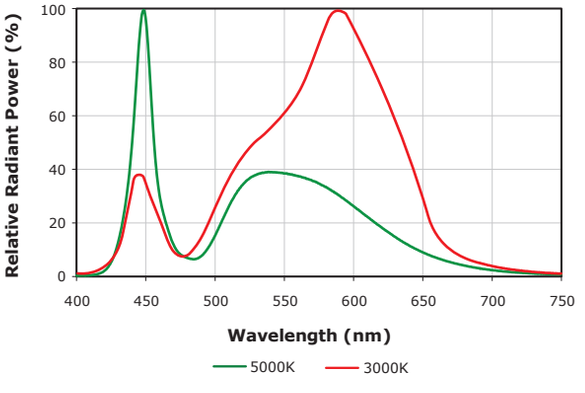
MODEL	LUMENS	LUMENS/WATT
AR20H	21,890	168
AR25H	25,393	169
AR30H	32,289	170
AR35H	35,684	170
AR40H	42,373	169
AR45H	45,490	165
AR50H	48,940	164

NOMINAL POWER CURRENT TABLE

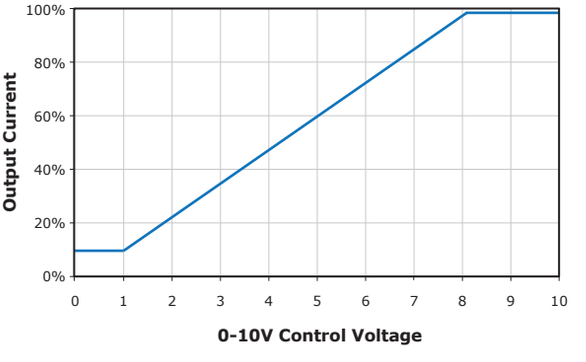
General Location High Intensity model
(ARXXH-XXX-XX-XX-GN-XX)

LUMINANCE	INPUT VOLTAGE	RATED WATTAGE [Watts]	RATED VOLTAGE [Volts]	FREQUENCY [Hz]	CURRENT [A]
AR20H	AC	130	120-277	50/60	1.0A/0.5A
	HV	130	347-480	50/60	0.4A/0.3A
AR25H	AC	150	120-277	50/60	1.3A/0.6A
	HV	150	347-480	50/60	0.5A/0.4A
AR30H	AC	190	120-277	50/60	1.5A/0.7A
	HV	190	347-480	50/60	0.6A/0.4A
AR35H	AC	210	120-277	50/60	1.7A/0.8A
	HV	210	347-480	50/60	0.6A/0.5A
AR40H	AC	250	120-277	50/60	2.0A/0.9A
	HV	250	347-480	50/60	0.8A/0.6A
AR45H	AC	275	120-277	50/60	2.3A/1.0A
	HV	275	347-480	50/60	0.8A/0.6A
AR50H	AC	290	120-277	50/60	2.4A/1.0A
	HV	290	347-480	50/60	0.9A/0.6A

PHOTOMETRICS



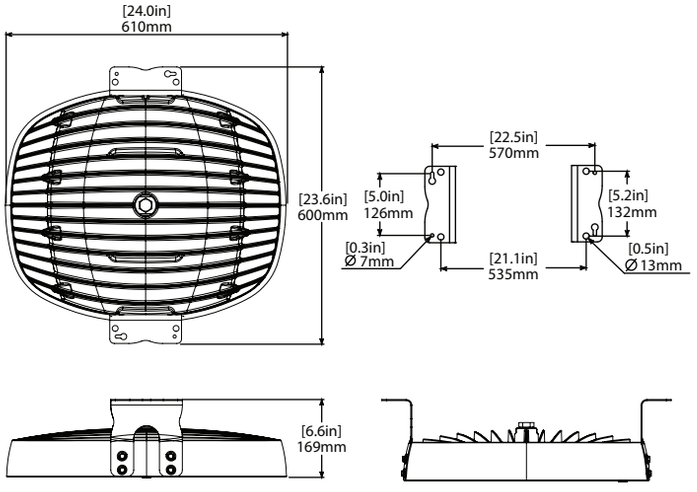
DIMMING



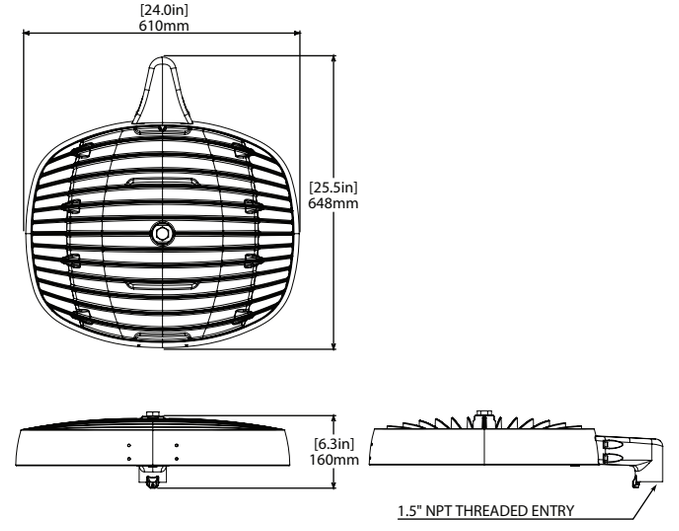
- *Driver will source a maximum of 200uA for control needs*
- *Controller must sink current from the 0-10V control leads*

MOUNTING OPTIONS (Ordered Separately)

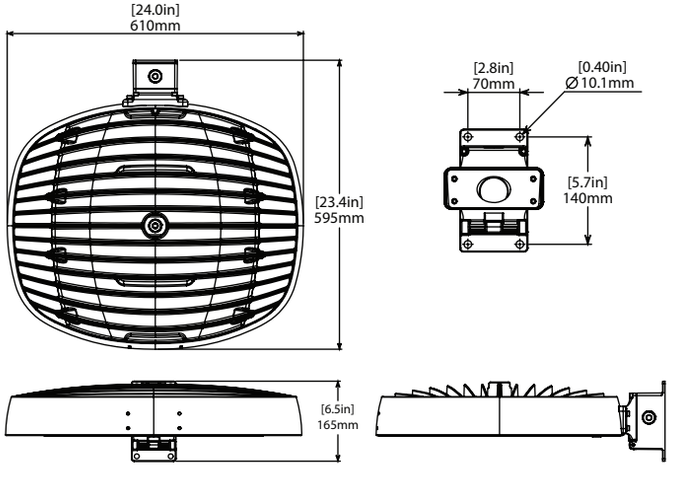
SURFACE/SUSPENDED MOUNT (UM-SM): 16.8 kg | 37 lbs



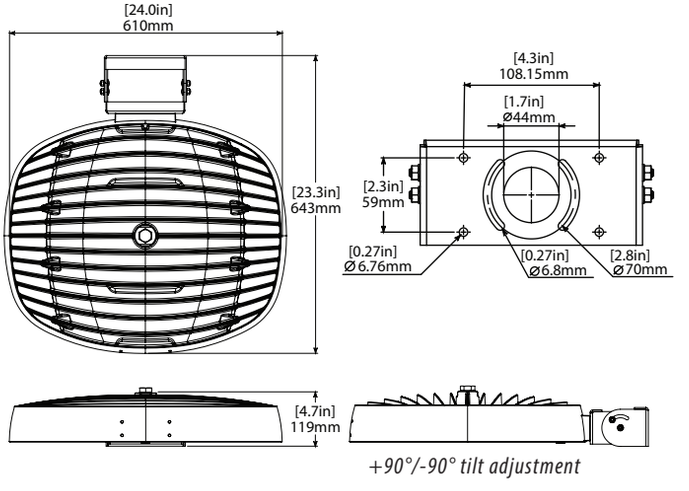
POLE MOUNT (UM-PM): 17.3 kg | 38 lbs | EPA: 0.07 m^2 / 0.72 ft^2



WALL MOUNT 2 (UM-WM2-GY): 17.6 kg | 38.5 lbs

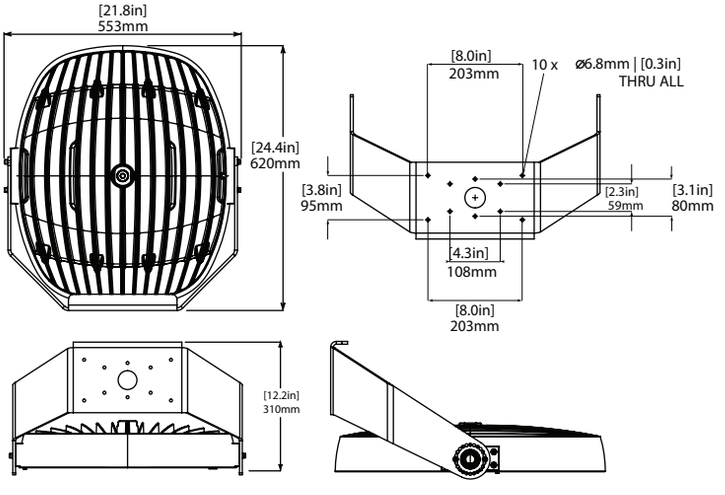


YOKE MOUNT (UM-YM): 18.0 kg | 39.6 lbs | EPA: 0.28 m^2 / 3.06 ft^2



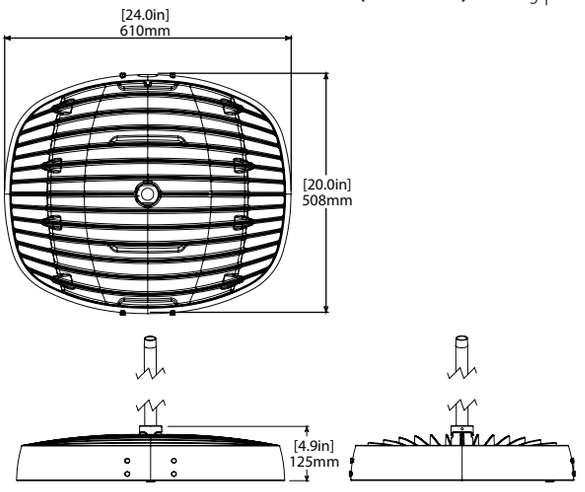
+90°/-90° tilt adjustment

HIGH VIBRATION YOKE MOUNT (AR-YK): 23.8 kg | 52.5 lbs | EPA: 0.37 m^2 / 3.97 ft^2

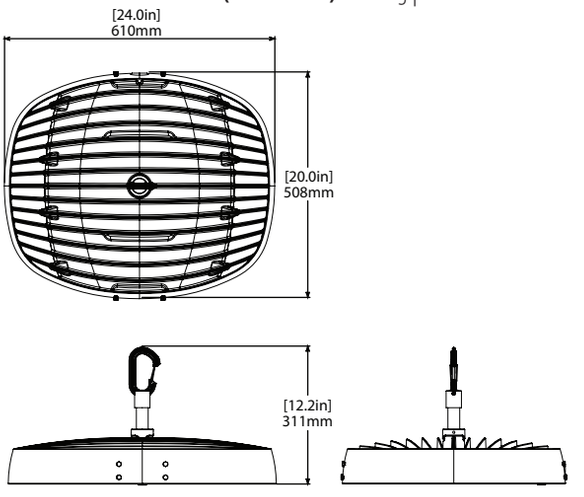


MOUNTING OPTIONS (Ordered Separately)

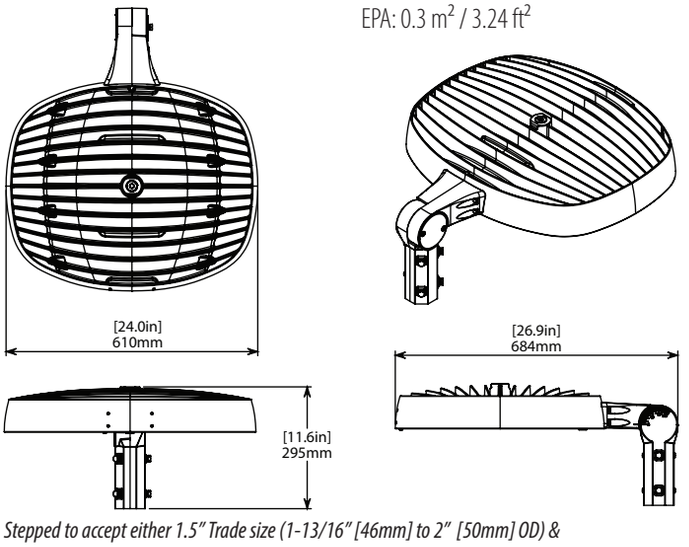
COUNDUIT MOUNT ROTATIONAL LOCK (UM-CC-GY): 16.4 kg | 36 lbs



HOOK PENDANT MOUNT (UM-HK-GY): 16.8 kg | 36.9 lbs

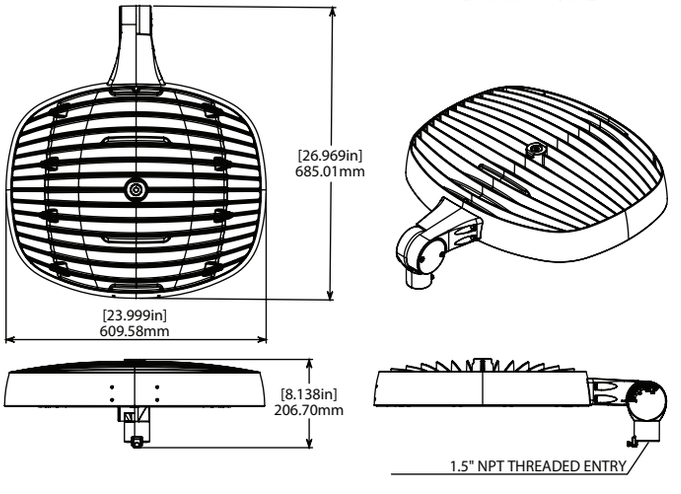


SLIP FITTER YOKE MOUNT (UM-SFY-GY): 18.35 kg | 40.3 lbs
EPA: 0.3 m^2 / 3.24 ft^2

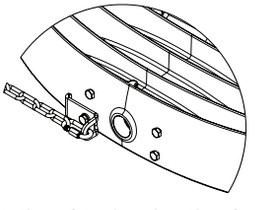


Stepped to accept either 1.5" Trade size (1-13/16" [46mm] to 2" [50mm] OD) & 2" Trade size (2-1/8" [53mm] to 2-7/16" [63mm])

1.5" THREADED ADJUSTABLE POLE MOUNT (AR-SFY-1.5): 17.4 kg | 39.5 lbs
EPA: 0.3 m^2 / 3.24 ft^2



SECONDARY SAFETY KIT (UM-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	CCT	OPTIC	FINISH	LOCATION	POWER
-	-	WC -	GY -	GN -	
AR20H **AR25H** **AR30H** **AR35H** **AR40H** **AR45H** **AR50H**	**30** - 3,000K **40** - 4,000K **50** - 5,000K Custom CCT options are available. Please contact for details.[1]	**WC** - Wide Beam (Typ. Type 5)	**GY** - Grey Custom finish options are available. Please contact for details.[1]	**GN** - General Location	**AC** - 120-277 VAC **HV** - 347-480 VAC

ACCESSORIES (Order Separately)

Sample Number: UM-WM2-GY

ACCESSORY	
UM-SM	- Surface Mount[2]
UM-PM-GY	- Pole Mount; Grey Finish
UM-WM2-GY	- Wall Mount 2; Grey Finish
UM-YM	- Yoke Mount[2]
AR-YK	- AR Series; High Vibration Yoke Mount[2]
UM-CC-GY	- Conduit Mount Rotational Lock; Grey Finish
UM-HK-GY	- Hook Pendant Mount; Grey Finish
UM-SFY-GY	- Slip Fitter Yoke Mount; Grey Finish
UM-SFY-1.5-GY	- 1.5" Threaded Adjustable Pole Mount; Grey Finish
UM-SK-##	- Secondary Safety Kit; Length in Feet[2,4]
AR-SP-AC	- AR Series; Surge Suppressor[5]
AR-SP-HV	- AR Series; Surge Suppressor[5]

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.*

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