ARRAY LED AREA LIGHT

ABOVE ALL
www.AboveAllLighting.com

100-240W
Sensor & Photocontrol
available

300W
with Sensor

300W
with Photocontrol

The robust Array LED Area Light features a die-cast aluminum heatsink and sophisticated mechanical design. First-class chip features lighting efficiency up to 155LPW. Available in popular IES distribution type include Type II, III, IV and V. Various mounting options, photocontrol, motion sensor, and high voltage of 347/480 are available. The Array LED area light is ideal for parking lots, roadways, auto dealerships, and field lighting.

TECHNICAL DATA

Wattage	100W, 150W, 200W, 240W, 300W
CRI	
Standard	70
Optional	80
CCT	3000K, 4000K, 5000K
Input Voltage	120-277V, 50/60Hz
	347V/480V, 50/60Hz
Operating Temp.	-40°F to 104°F(-40°C to 40°C)
Driver	
Standard	1 -10V dimming
Certifications	cUL listed
	RoHS compliant
	DLC premium listed
	Suitable for wet locations
Power Factor	>0.9 @120Vac
Harmonic Distortion	<20%
Projected Lifetime	L70 - 154,000 Hours
IP Rating	IP65

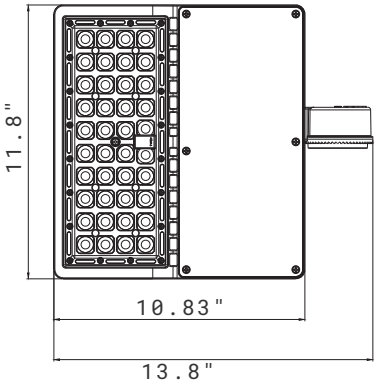
FEATURES

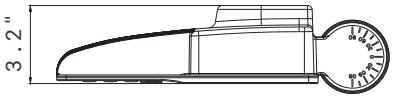
- **High Efficiency & Versatile Distribution:** Delivers up to 155 LPW with Types II, III, IV & V distribution and includes 10kA surge protection.
- **Flexible Mounting & Control:** Offers various mounting options with support for photocell, sensor, and 7-pin receptacle control.

SPECIFICATION

100W/150W

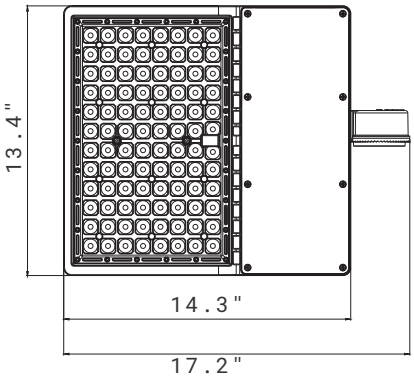
Net Weight: 9.04 lbs

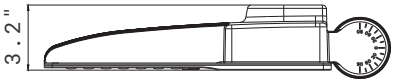




200W/240W

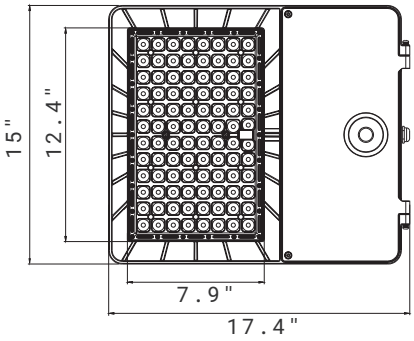
Net Weight: 12.68 lbs

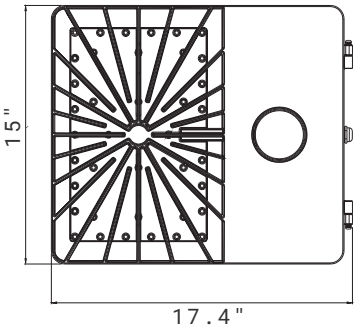


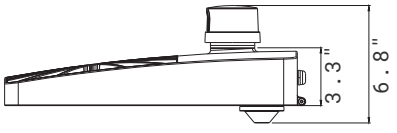


300W

Net Weight: 15.65 lbs







ORDERING INFORMATION

EXAMPLE: ARY100501-IV

ARY						
Series	**Wattage**	**CCT**	**Voltage**	**Control**	**Distribution**	**Finish**
ARY	**100** 100W **150** 150W **200** 200W **240** 240W **300** 300W	**30** 3000K **40** 4000K **50** 5000K	**1** 120-277V **6** 347/480V[1]	**BLANK** 1-10V dimming driver **PC** Photoelectric Control **7P** 7 Pin PE Receptacle **MSW** Microwave Motion Sensor[2]	**II** Type II **III** Type III **IV** Type IV **V** Type V	Standard **BLANK** Black[3] Optional **AL** Aluminum Silver **BZ** Bronze **WH** White

NOTE:

1. If choose 347/480V, please do not choose photoelectric control.
2. Motion sensor is only for 120-277V. For mounting height 40ft (12m) max. Dimming default setting is dimming to 30% and none Cut Off. Besides, daylight sensor default setting is 30lux. Other dimming levels and ON/OFF function can be set by the remote controller RC-100.
3. Standard Finish is black. Additional charge will apply for optional finish.

ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)

ARY-S/RAR-S

Square and Round pole Arm for 100/150/200/240W Array Area Light.

ARY-SF-S

Slip Fitter for 100/150/200/240W Array Area Light.

ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)

ARY-SAR-L

Square pole Arm for 300W Array Area Light.

ARY-RAR-L

Round pole Arm for 300W Array Area Light.

ARY-SF-L

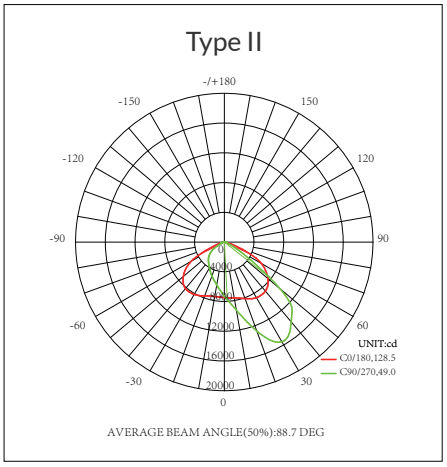
Slip Fitter for 300W Array Area Light.

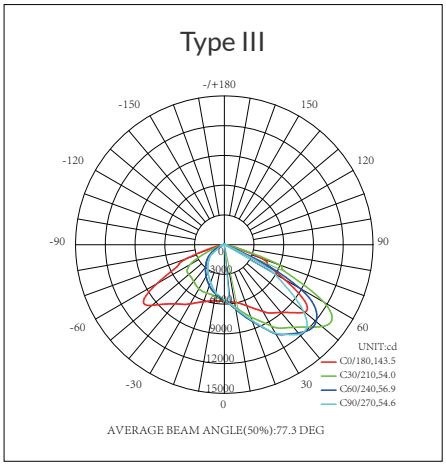
ARY-TR-L

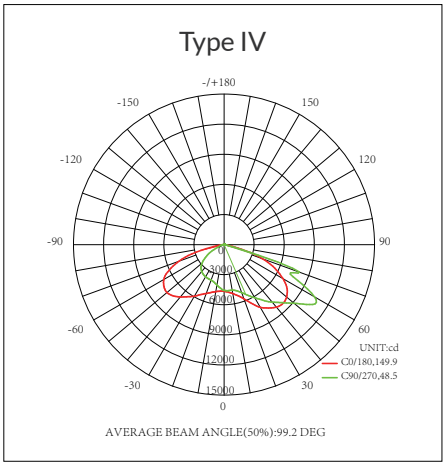
Trunnion for 300W Array Area Light.

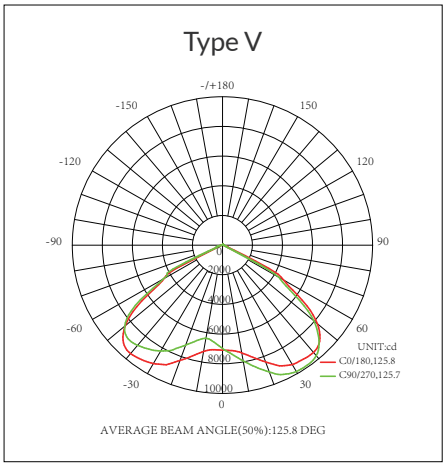
PHOTOMETRY

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%. Results may vary per actual order.









PERFORMANCE DATA

Lumen values are measured by third party certified laboratories performed in accordance with IESNA LM-79-08 as well as Lighting Facts listed.

Wattage	Measured Wattage	Lumen Output	AC Input 277V	CRI	CCT	Dist. Type	LPW
100W	100W	15,000lm	0.36A	>70	5000K	Type V	150
150W	149W	22,500lm	0.54A	>70	5000K	Type V	151
200W	200W	31,000lm	0.72A	>70	5000K	Type V	155
240W	240W	35,760lm	0.87A	>70	5000K	Type V	149
300W	299W	43,950lm	1.08A	>70	5000K	Type V	147

NOTE:

1. The test results are based on initial stage and with AC277V input.
2. For 4000K fixtures, use 0.94 multiplier; For 3000K fixtures, use 0.90 multiplier.

System Wattage	Max THD (%)	Power Factor (at 120Vac)	Power Efficiency	Replaces/Equiv.(MH/HPS)
100W	20	>0.9	93%	250W
150W	20	>0.9	93%	400W
200W	20	>0.9	93%	600W
240W	20	>0.9	93%	750W
300W	20	>0.9	93%	1000W

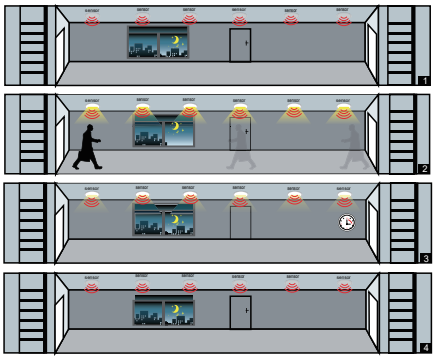
Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperature from -40°F to 104°F (-40°C to 40°C).

Ambient		
Celsius	Fahrenheit	Multiplier
0	32	1.02
10	50	1.01
20	68	1.00
25	77	1.00
30	86	1.00
40	104	0.99

PIR DIMMING SENSOR FUNCTION

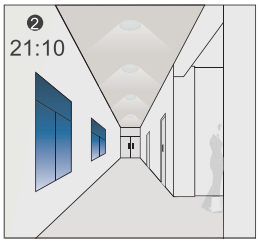
The sensor is an innovative motion sensor, switch on the light on detection of movement, and switch off after a hold time when there is no motion detected.



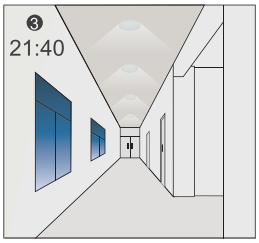
1. No motion detected, all lamps switch off.
2. Any movement is detected from any direction, all lampssynchronously switch on.
3. No motion is detected in detection area, all lamps synchronously dim to a low light level after hold time.
4. After stand-by period, the lamps switch off if no movement is detected in the detection zone.
5. If you choose STAND-BY DIM is 0, the stand-by period is 0, it is ON/OFF function.

PHOTOCELL FUNCTION

The light switches on at 100% when there is movement detected.



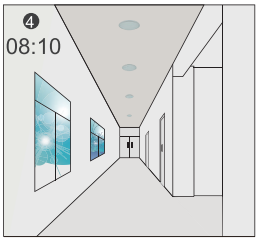
The light dims to stand-by level after the hold-time.



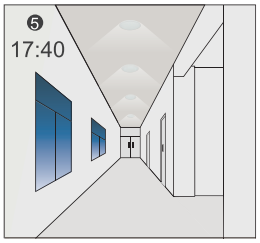
The light remains in dimming level at night.

❶ ⇄ ❸ goes in cycle at night…

100% on when movement detected, and dims to 10% in long absence.



When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.



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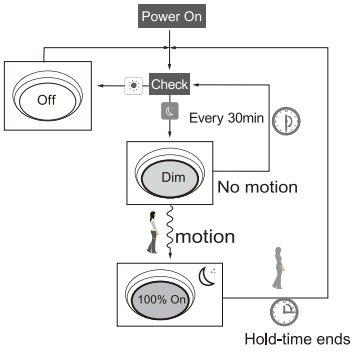

PIR DIMMING SENSOR SETTING DBI823-B-D (120-277V)

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application. The sensor setting also can be done by a remote control (RC-100) which need to be bought separately.

	1	2	
I	↓	↓	20%
II	↓	↑	50%
III	↑	↓	75%
IV	↑	↑	100%

Sensitivity

Sensitivity can be adjusted by selecting the appropriate DIP switch combination to precisely match each application.

Default Setting: 100%

	3	4	
I	↓	↓	10s
II	↓	↑	1min
III	↑	↓	5min
IV	↑	↑	15min

Hold Time

Defines the duration the lamp maintains 100% illumination after motion is no longer detected.

Default Setting: 1min

	5	6	
I	↓	↓	☼
II	↓	↑	10 lux
III	↑	↓	30 lux
IV	↑	↑	50 lux

Daylight Sensor

The sensor can be configured to only activate the lamp when detected ambient light levels fall below a preset brightness threshold.

Default Setting: 30 Lux

	7	8	
I	↓	↓	0%
II	↓	↑	10%
III	↑	↓	30%
IV	↑	↑	50%

Stand-by Dimming Level

The minimum light level maintained after the hold time period when no occupancy is detected.

Default Setting: 30%

	9	10	
I	↓	↓	+∞
II	↓	↑	1min
III	↑	↓	30min
IV	↑	↑	60min

Stand-by Time

The duration the lamp maintains reduced illumination before complete shutoff during prolonged absence of occupancy. When set to '+∞' mode, the lamp will maintain dimmed lighting indefinitely until motion is detected.

Default Setting: +∞

BUG RATING TABLE

Performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory.

Model	BUG Rating
ARY100401-II	B3-U0-G2
ARY100401-III	B3-U0-G2
ARY100401-IV	B3-U0-G2
ARY100401-V	B3-U0-G1
ARY150401-IV	B3-U0-G3
ARY200401-IV	B4-U0-G3
ARY240401-IV	B4-U0-G3
ARY300501-II	B4-U0-G3
ARY300501-III	B4-U0-G3
ARY300501-IV	B4-U0-G4
ARY300501-V	B5-U0-G1

WARRANTY

5 years limited warranty.
Specifications subject to change without notice.