

Project:	
Type:	
Catalog #:	

FME Lighting | 877 - 234 - 8460 | info@fmelighting.com

IP66  
IK09

ARL-1, ARL-2 series

ARL-3 series

## SPECIFICATIONS

INPUT VOLTAGE AC120-277V/120-347V/277-480V

INPUT FREQUENCY 50/60Hz

POWER FACTOR 0.95

CCT 2700K-6500K/RGB/RGBW

CRI Ra70(Standard), Ra80(Optional)

THD &lt;15%

POWER SUPPLY Inventronics/Sosen

SURGE PROTECTION 10kV (Standard) / 20kV (Optional)

AMBIENT OPERATING TEMPERATURE -40°C to 50°C (-40°F to 122°F)

HOUSING MATERIAL Cold Forging Aluminum (AL1050)

LENS MATERIAL Anti-UV PC Optical Material

LIFESPAN 50,000 hours L70B50@35°C

PROTECTION IP66/IK09

MOUNTING Bracket Mounting/Pole Mounting

DIMMING 0-10V Dimming

INTELLIGENT CONTROL DMX512/RDM/DALI

WARRANTY 5-Year Standard Warranty

## KEY FEATURES

- High Efficiency:** Over 93% total efficiency with up to 80% energy savings compared to traditional lighting.
- Durability:** Crafted from cold forging aluminum (AL1050) for a rugged and weather-tight structure.
- Resilience:** Designed to withstand extreme conditions, suitable for high vibration and outdoor environments.
- Customization:** Offers RGB/RGBW lighting options with external or built-in power supplies.
- Advanced Control:** Features DALI, DMX512, RDM wireless control, and 0-10V dimming capabilities.
- Heat and Corrosion Resistant:** The aluminum housing with polyester powder coating ensures excellent heat dissipation and corrosion resistance.
- Precision Aiming:** Optional laser aiming device for precise control of light angling and positioning.
- Modular Design:** Special circuitry allows each module to operate independently.
- Optical Quality:** High-quality materials and varied light distribution angles for optimal illumination and visual comfort.
- Versatile Applications:** Ideal for a wide range of areas including sports facilities, stadiums, industrial sites, and public spaces.

## LUMENS & OPTICS

\*See Pages 6 &amp; 7 for Charts

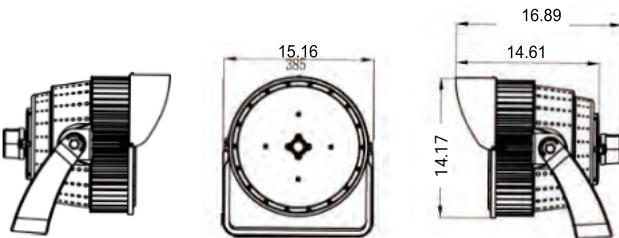
	ARL-1	ARL-2	ARL-3
Lumen Output	45,900lm-93,000lm	106,560lm-162,000lm	148,000lm-243,000lm
Lumens Per Watt @Ra70	300W: 170lm/W 400W: 165lm/W 500W: 155lm/W	720W: 165lm/W 800W: 160lm/W 1000W: 155lm/W 1200W: 135lm/W	1000W: 165lm/W 1200W: 155lm/W 1600W: 140lm/W 1800W: 135lm/W
Lumens Per Watt @Ra80	300W: 153lm/W 400W: 148lm/W 500W: 140lm/W	720W: 148lm/W 800W: 144lm/W 1000W: 135lm/W 1200W: 120lm/W	1000W: 148lm/W 1200W: 140lm/W 1600W: 126lm/W 1800W: 121lm/W

## DIMENSIONS

\*See Pages 3 through 5 for All Diagrams.

With Built-in Power Supply:

ARL-1: 300-600W



## ORDERING INFORMATION

### ORDERING GUIDE



Series	Type	Wattage	Voltage	CCT	Dimmable	Beam Angle	Sensor	Remote Driver Box	
ARL	1	3 = 300W 4 = 400W	5 = 500W 6 = 600W	LV1 = 120-277 VAC LV2 = 277-480 VAC	A = 2200K B = 3000K C = 3500K D = 4000K	G = 5500K H = 6000K I = 6500K J = 7000K	D = Dimming ND = None Dimming	S = 15° T = 20° U = 25° V = 30°	
	2	7 = 720W 8 = 800W	10 = 1000W 12 = 1200W	HV1 = 200-480 VAC HV2 = 120-347 VAC	K = 5000K L = 5500K M = 6000K N = 6500K O = 7000K	P = 4500K Q = 5000K R = 5500K S = 6000K T = 6500K U = 7000K	W = 40° X = 45° Y = 60° Z = 80°	Y = With Sensor N = Without Sensor	Y = With Remote Driver Box N = Without Remote Driver Box
	3	10 = 1000W 12 = 1200W 15 = 1500W	16 = 1600W 18 = 1800W	HV3 = 220-400 VAC	E = 4500K F = 5000K	RGB RGBW			

\*Please double check if desired Beam Angle is compatible with your fixture type choice, using the chart on Page 2.

## ARL-1 ARL-2 series



## ARL-3 series



## Technical Parameter

Specification	ARL-1	ARL-2	ARL-3
Rated Power	300/400/500/600W	720/800/1000/1200W	1000/1200/1500/1600/1800W
Input Voltage	AC120-277V/120-347V/277-480V		
Input Frequency	50/60Hz		
Power Factor	0.95		
THD	<15%		
Power Supply	Inventronics/Sosen		
Surge Protection	10kV (Standard) / 20kV (Optional)		
Lumen Output	45,900lm-93,000lm	106,560lm-162,000lm	148,000lm-243,000lm
Lumens Per Watt @Ra70	300W: 170lm/W, 400W: 165lm/W 500W: 160lm/W, 600W: 155lm/W	720W: 165lm/W, 800W: 160lm/W 1000W: 150lm/W, 1200W: 135lm/W	1000W: 165lm/W, 1200W: 155lm/W 1500W: 145lm/W, 1600W: 140lm/W 1800W: 135lm/W
Lumens Per Watt @Ra80	300W: 153lm/W, 400W: 148lm/W 500W: 144lm/W, 600W: 140lm/W	720W: 148lm/W, 800W: 144lm/W 1000W: 135lm/W, 1200W: 120lm/W	1000W: 148lm/W, 1200W: 140lm/W 1500W: 130lm/W, 1600W: 126lm/W 1800W: 121lm/W
Beam Angle	15°/20°/30°/45°/60°	15°/20°/25°/40°/60°/80°	15°/30°/45°
LED Type	5050 (3737 for 15° beam angle*)	5050 (3737 for 15° beam angle*)	3030 (3737 for 15° beam angle*)
CCT	2700K-6500K/RGB/RGBW		
CRI	Ra70(Standard), Ra80(Optional)		
Dimming	0-10V Dimming		
Intelligent Control	DMX512/RDM/DALI		

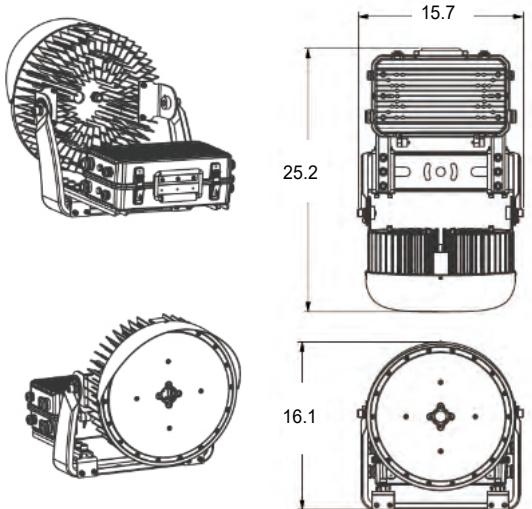
\*Ra90 chip is customizable.

The Lumen efficiency of 3737 chip is 10% lower than that of other chips in average.

## Product Dimensions in Inches

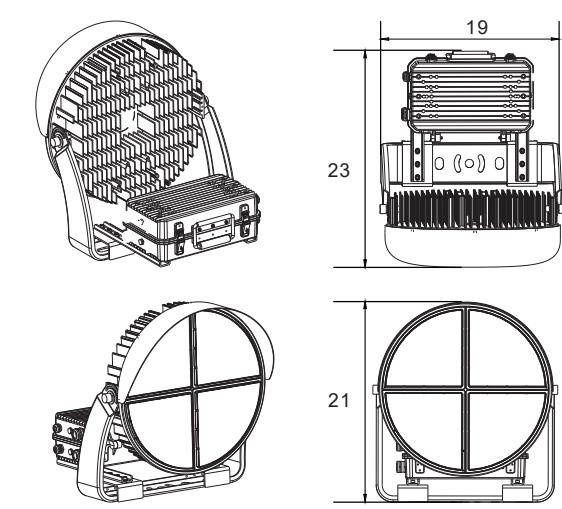
With External Power Supply:

ARL-1: 300-600W



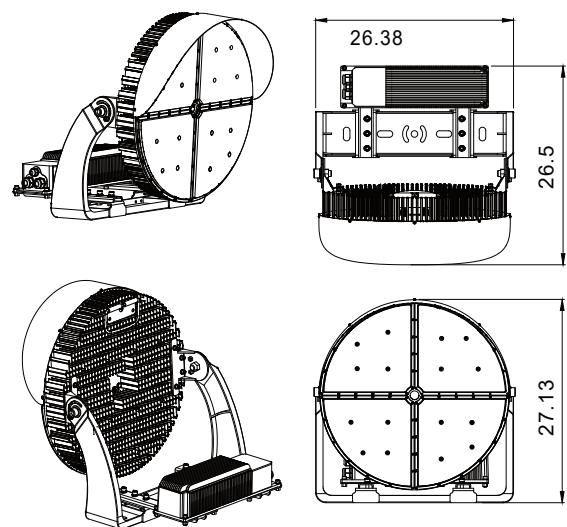
With External Power Supply:

ARL-2: 720-1000W



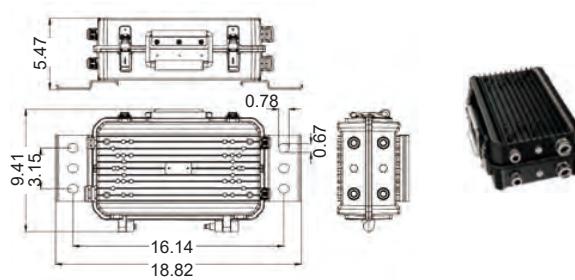
With External Power Supply:

ARL-3: 1000-1800W

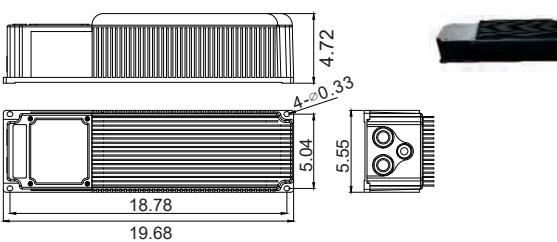


External Power Supply

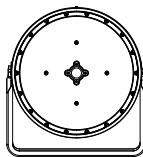
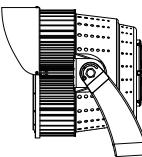
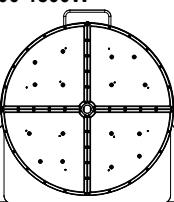
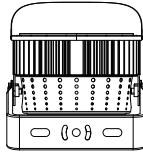
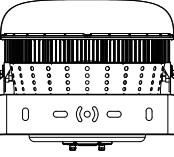
for 300/400/500/600/720/800/900/1000:



for 1000-1800W:

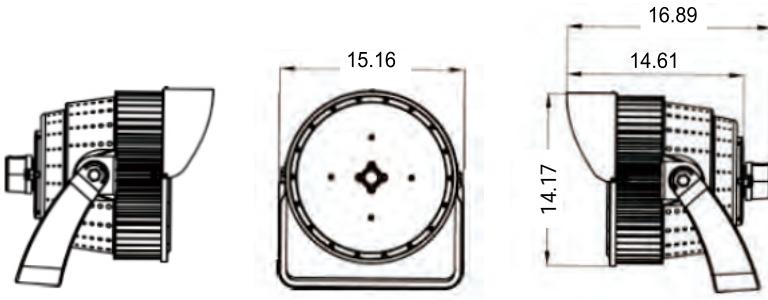


## EPA

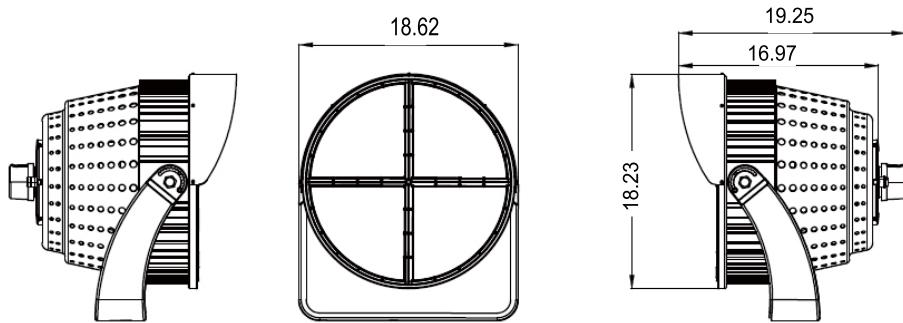
ARL-1: 300-600W	ARL-2: 720-1200W	ARL-3: 1000-1800W
 EPA: 1.25	 EPA: 1.16	 EPA: 4.03
 EPA: 1.57	 EPA: 1.97	 EPA: 3.59

## Product Dimensions in Inches

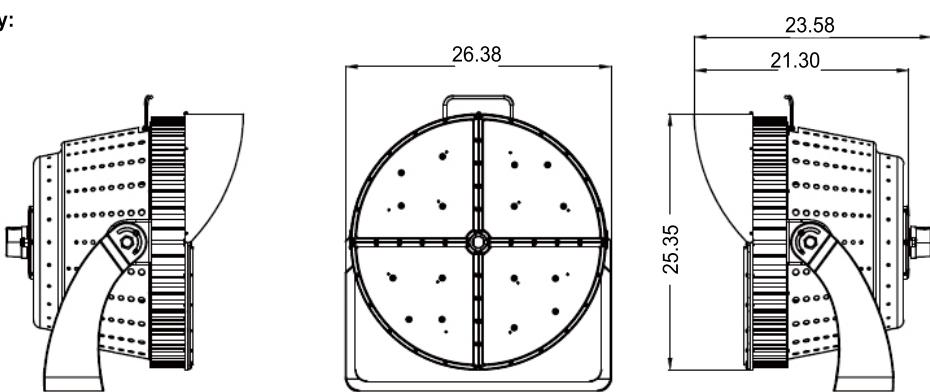
With Built-in Power Supply:  
ARL-1: 300-600W



With Built-in Power Supply:  
ARL-2: 720-1200W



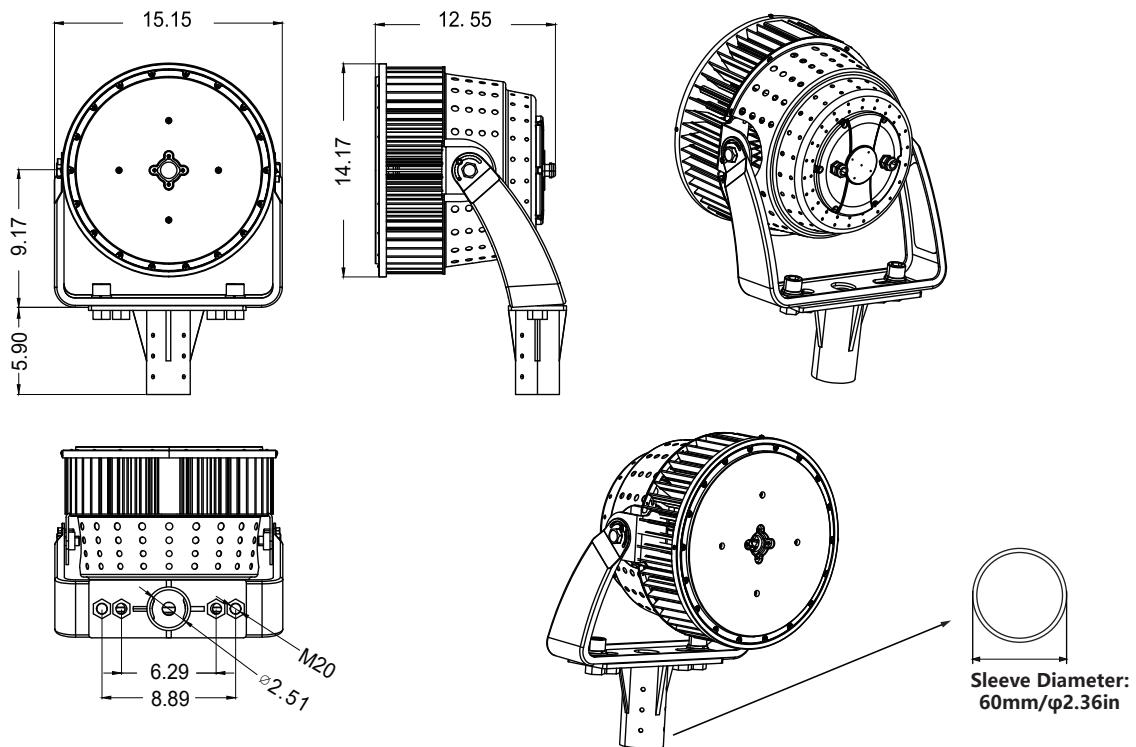
With Built-in Power Supply:  
ARL-3: 1000-1800W



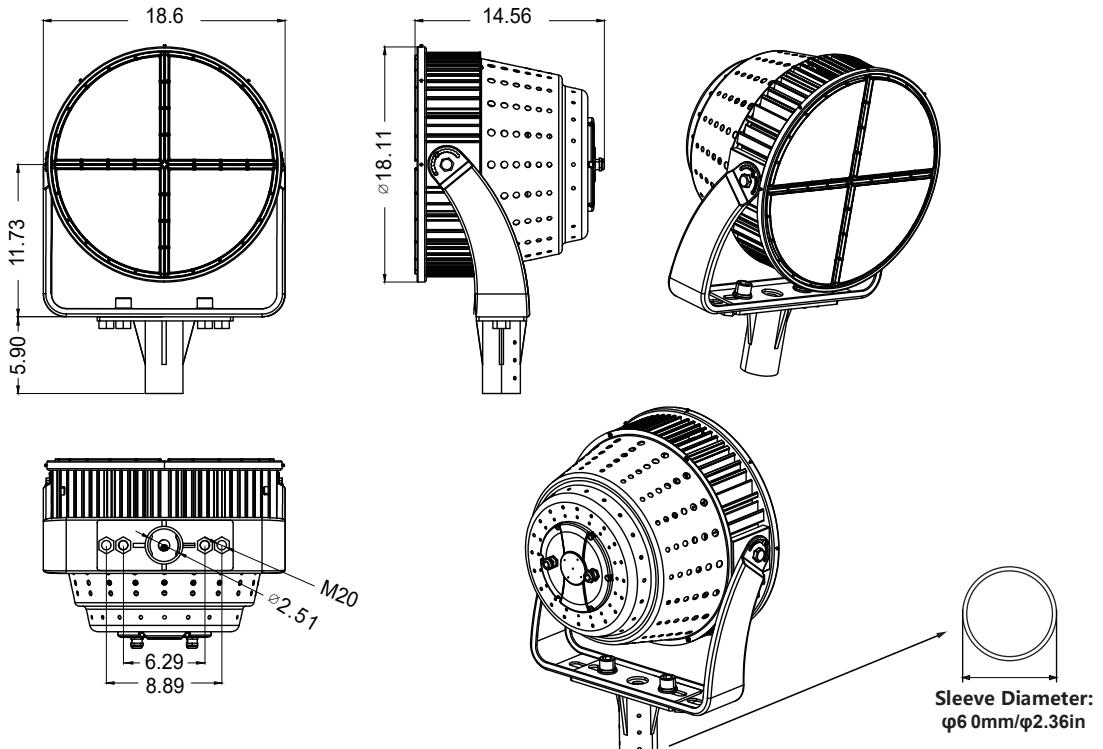
Model	Net Weight (Product)	Quantity/Carton	Gross Weight	Package Dimensions (LxWxH)
ARL-1 (with built-in driver)	16.36kg (36.07lbs)	1 pc	18.16kg (40.03lbs)	20.27x16.34x15.75inch (515x415x400mm)
ARL-2 (with built-in driver)	25.79kg (56.86lbs)	1 pc	28.88kg (63.67lbs)	25.00x21.06x18.31inch (635x535x465mm)
ARL-3 (with built-in driver)	51.96kg (114.55lbs)	1 pc	57.47kg (126.70lbs)	32.28x29.53x20.67inch (820x750x525mm)
ARL-1 (with external driver)	10.96kg (24.16lbs)	1 pc	12.98kg (28.61lbs)	21.06x16.34x12.99inch (535x415x330mm)
ARL-2 (with external driver)	14.78kg (32.58lbs)	1 pc	18.58kg (40.96lbs)	25.00x21.06x13.38inch (635x535x340mm)
ARL-3 (with external driver)	33.16kg (73.10lbs)	1 pc	39.62kg (87.35lbs)	32.28x29.53x15.75inch (820x750x400mm)
External Power Supply (for 300W/400W/500W/600W/720W/8000W/900W/1000W/1100W/1200W)	6.6kg (14.55lbs)	1 pc	7.8kg (17.19lbs)	21.06x12.79x8.27inch (535x325x210mm)
External Power Supply (for 1300-1800W)	6.1kg (13.45lbs)	1 pc	7.0kg (15.43lbs)	21.65x7.48x6.69inch (550x190x170mm)

## Product Dimensions with Sleeve Bracket (without Visor) in Inches

ARL-1: 300-600W

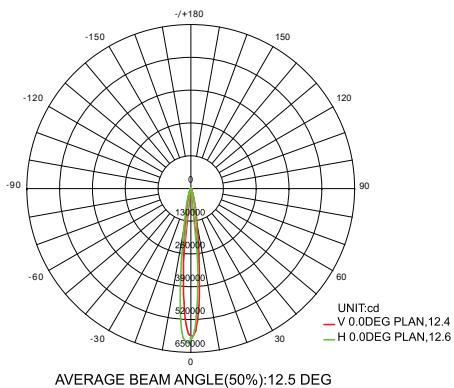


ARL-2: 720-1200W

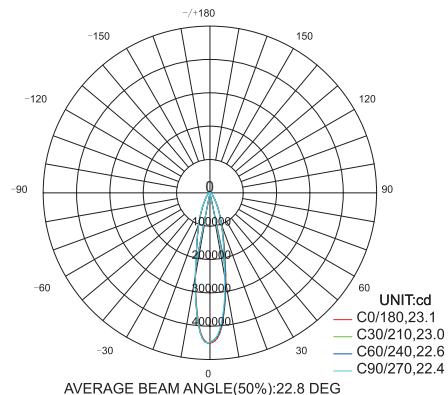


## Photometric

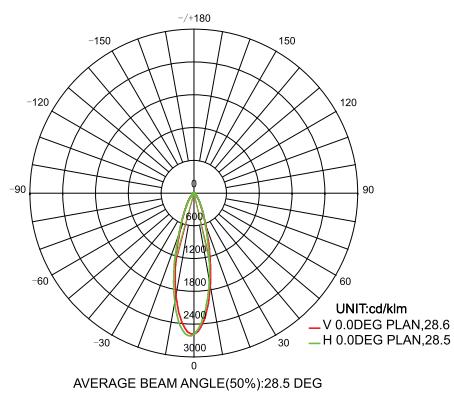
ARL-1 15 degrees



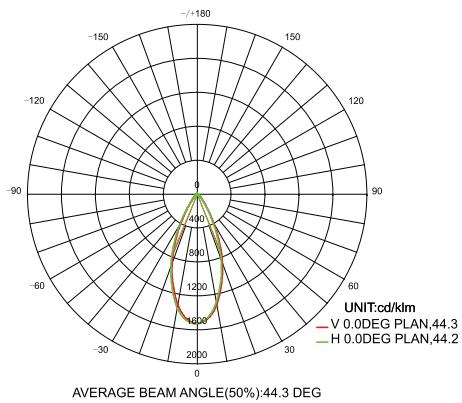
ARL-1 20 degrees



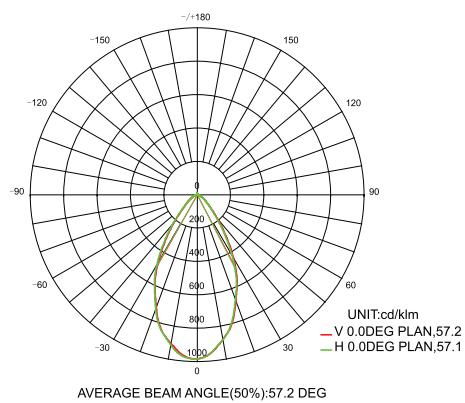
ARL-1 30 degrees



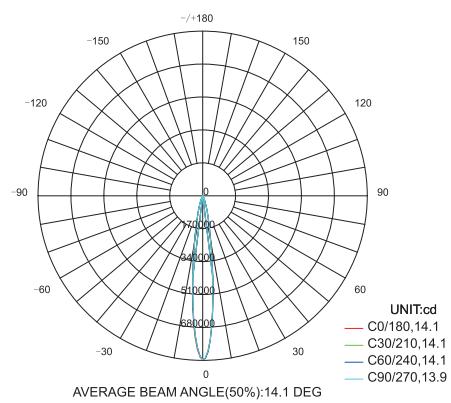
ARL-1 45 degrees



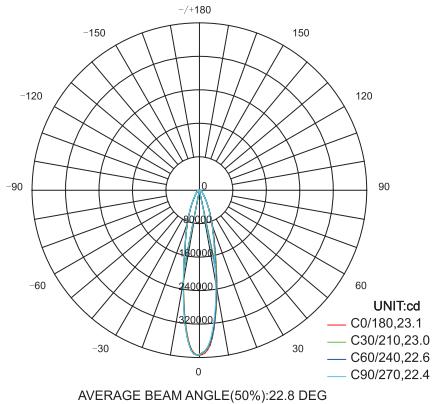
ARL-1 60 degrees



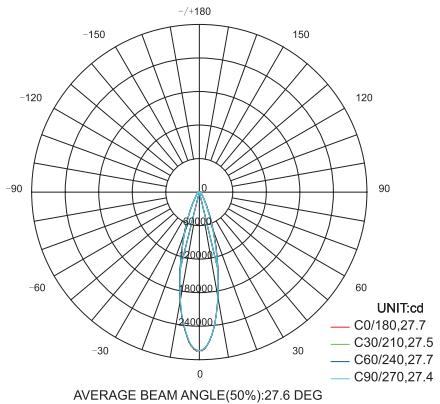
ARL-2 15 degrees



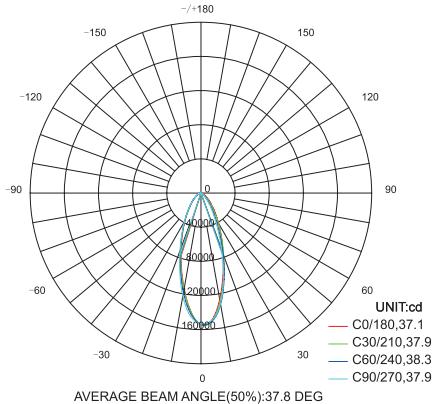
ARL-2 20 degrees



ARL-2 25 degrees

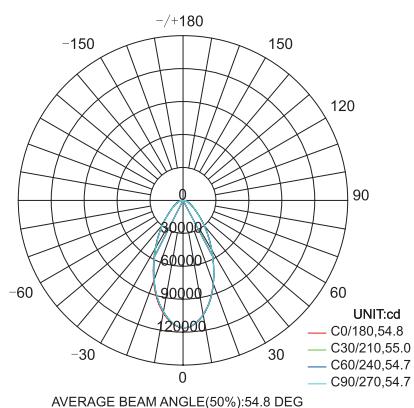


ARL-2 40 degrees

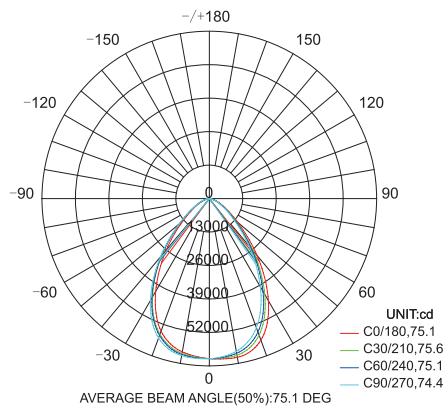


## Photometric

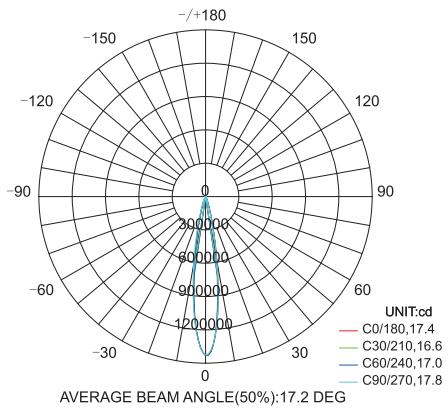
ARL-2 60 degrees



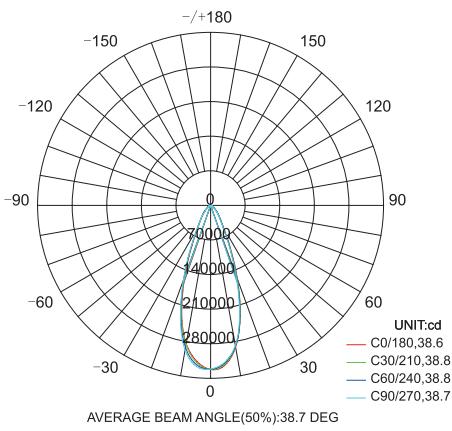
ARL-2 80 degrees



ARL-3 15 degrees



ARL-3 30 degrees



ARL-3 45 degrees

