

LED AREA LIGHT

ATHENA Series



ATHENA series light is perfect for outdoor area lighting, providing significant energy and maintenance savings while improving illumination performance.



FEATURES & BENEFITS

- High efficiency with low operating costs.
- Multiple light distributions to replace discharge lamps from 75W to 2000W.
- Hi energy savings compared to systems with traditional HID luminaires.
- Dimmable for even more energy savings.
- Modular design for easy hassle-free maintenance and component hardware replacement.
- Long life-span thanks to robust design and separated thermal management system of Light engine and power supply.
- IP67 and suitable for wet location/

TECHNICAL PARAMETERS

Power	40- 720W
Voltage	UL 90-305V/ UH 249-528V*
PF	>0.95
THD	<20%
L85	>150,000H/>50,000H
Operating Temperature	-40F- 122F
Efficacy	143-155lm/W
ANSI CCT	2700K/3000K/3500K/4000K/5000K/5700K/6500K
Min CRI	70* or 80 or 90
IP Rating	IP67
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

* Standard

ORDERING INFORMATION

Example : ARA40-UL-S-T1S-27K-GR-10-GS

MODEL (Nominal Power)	VOLTAGE	MOUNTING	OPTIC LENS	CCT (ANSI)	OPTIONAL COLOR	LIGHTING CONTROL	ACCESSORY INFO
ARA40	UL	S	T1S	27K	★GR-Grey	10	GS
ARA60	90-305V	Knuckle Slip	T1M	30K	BK-Black	1-10V Dimming	Glare Shield/House side shield
ARA85	UH	Fitter	T2M	35K	BZ-Dark Bronze	DA	
ARA100	249-528V*		T2L	★40K	WH-White	DALI	
ARA120			T3M	★50K	CU-Customized	BL	7P
ARA160			T3L	57K		Blank	NEMA 7-Pin Receptacle
ARA200			T4S	65K			PC Photocell
ARA230			T4M				MS Motion Sensor
ARA300			10D				BS Bird Spike
ARA380			15D				SC Safety Cable
ARA450			25D				
ARA540			40D				
ARA630			60D				
ARA720			90D				
			120				
			150				

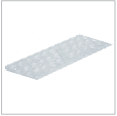
* Regularly stocked item

AURORA-N SERIES

FEATURES & BENEFITS

Housing and Finish

ATHENA-S housing use premium die-cast ADC12 aluminum structure resists high shock and 3G vibration per ANSI C136.31-2010. Polyester powder coat finish provide corrosion resistant polyester powder coat finish that meets ASTM B117/ISO 9227:2012. Standard colors are Gray, Black, Dark Bronze and White.



Optic Lens

Universal modular optic lens flexible to family products and free of glass cover protection. High transmittance and UV stabilized polycarbonate with precision-designed for multiple distributions to optimal efficiency and yellow color aging.

High-Performance LED

High quality international top brand LED chips distribution and high lumen efficiency. Lumileds/ CREE/ OSRAM to optimize precise light

Lifetime of the LEDs @ Tq 25°C

- >50,000h - L90
- >150,000h - L70



LED Bar

LED engine with modular design allows power from 40W to 720W easily with unit increasing. Quick IP67 connectors to easy hassle-free maintenance and replacement. A design gap between LED bars optimizes thermal management and minimizes wind load.



GI6re Shield / House Side Shield

The optional light shield mounts towards the front or rear of the LED bar to provide glare or house side shielding functionality, respectively. The shield consists of 1.5mm thickness steel, UV stabilized polyester powder coated to match the color of the housing and reduce corrosion. Illustration here depicts the shield in a house side shield orientation.



Thermal Management

Chimney cooling concept to light engine with positive thermal management.

Using high thermal conductivity PCB and extrusion 6063 aluminum heat sink with wavy stripes inside and outside enlarging the contacting area of air to optimize heat dissipation for LED engine. Including driver compartment(s) separating driver(s) from light engine(s) to lower the thermal radiation and reaching the best thermal management.



Power Supply

High quality INVENTRONICS, MEANWELL or SOSEN driver with FCC compliant that are rated over 50,000hrs of life with 1-10V or DALI dimming function. High power factor over 0.95 and low total harmonic distortion less than 10% of driver to optimize largest energy saving. Its IP67 rating thanks to driver design and IP67 quick connector.

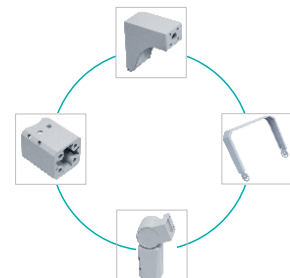


Driver Compartment

High-strength die-cast aluminum gear box separating driver(s) and light engine(s) to lower thermal radiation. Fixing driver(s) on a holder with high thermal conductivity close to gear box to lower its temperature and extending its life-span. Remoted Assembly Gear is available for easy replacement and maintenance (installation at a distance of up to 20m from the area lights).

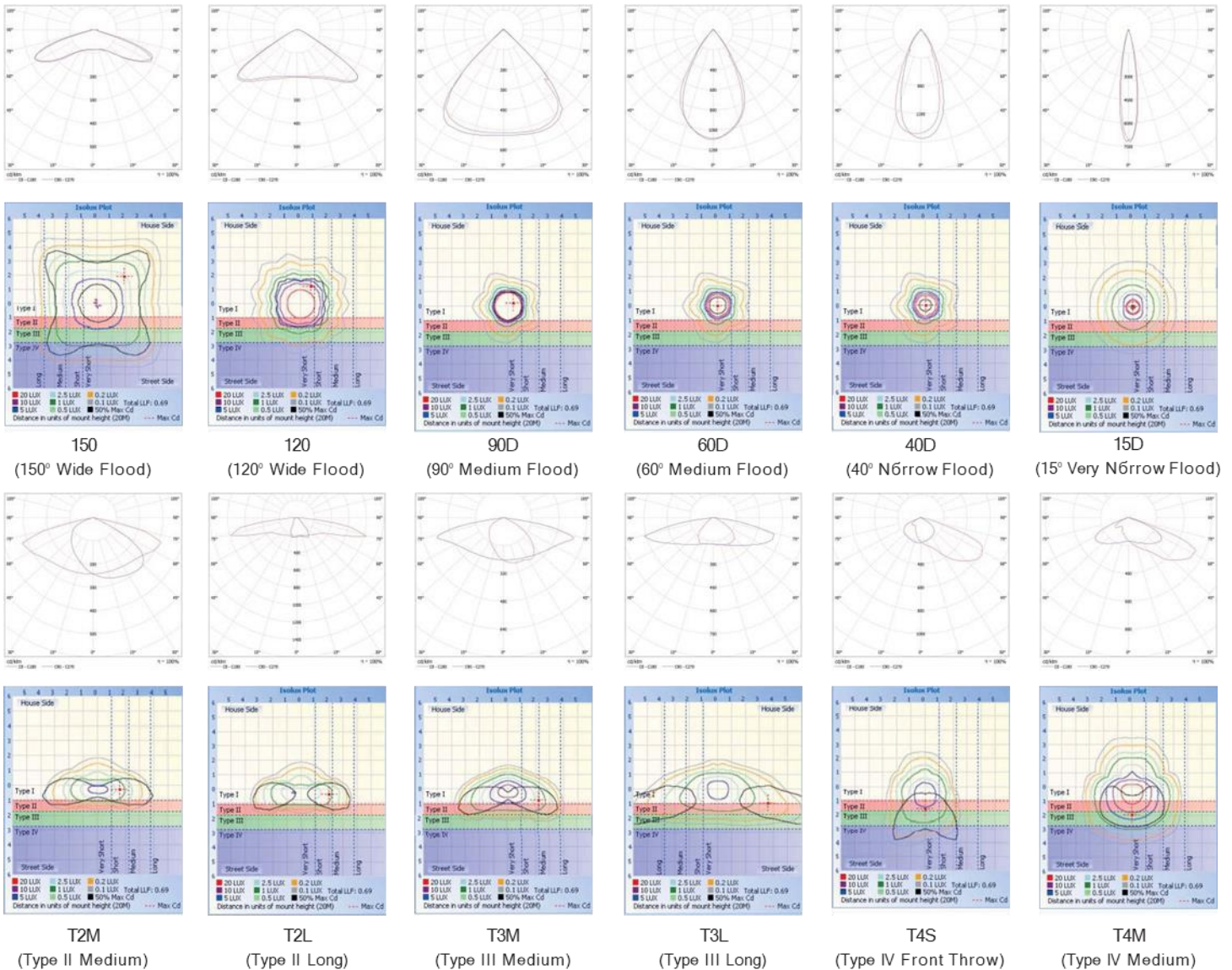
Mounting

High-strength die-cast slip fitter with UV stabilized polyester powder coat finish for whole family product against vibration fracture. Adjustable for 1 5/8-2 3/8"(42mm-60mm) O.D. tenon mount. Precise +/- 90 degrees level adjusting on-site offers exacting illumination performance. Multiple brackets changeable easily for various installation.



ACCESSORIES OPTICS

- Patented modular optic lens with high transmittance and UV stabilized polycarbonate providing highest efficacy to LED engine.
- Light distribution design with spill light control technology to avoid light pollution and wasting.
- Wide-range of optic lenses and flux options can send light exactly in the right direction and illuminates only the area of interest with highest light efficacy.
- IESNA light distributions of symmetrical and asymmetrical of TYPE I (Short and Medium), TYPE II (Short, Medium and Long), TYPE III (Medium and Long), TYPE IV (Short and Medium) and TYPE V ($10^{\circ}/15^{\circ}/25^{\circ}/40^{\circ}/60^{\circ}/90^{\circ}/120^{\circ}/150^{\circ}$) available.
- Variety of NEMA distributions: N (3x3), M (4x4), M (5x5), W (6x6), W (7x6) and W (6x7).
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance.
- A luminaire available to multiple optic lens to delivering exactly high-efficacy lighting and glare control to different lighting standards thanks to the flexible and universal modular optic lens of different distributions.





Modular LED engine with multiple light distribution optic lens for all field application and easy for maintenance.



Wide range of power level solutions from 40W to 720W offer the best solution for all retrofit new construction applications.

Durable high-strength body with slim & low profile body minimizes wind load.



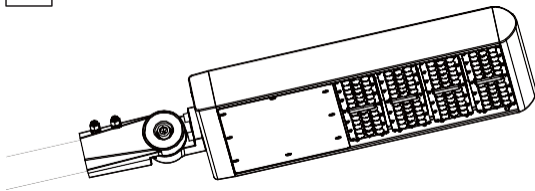
High-strength slip fitter with +/-90 degrees of level adjusting and complies 3G vibration per ANSI C136.31-2010.

Type of Application

CAR PARKING/STREET / ROADWAY
SPORTS FIELD / AIRPORT / PORT
ARCHITECTURE / FLOOD LIGHTING

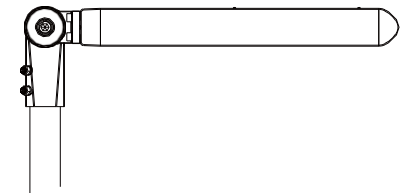
INSTALLATION INSTRUCTION

1



Horizontal Tenon Mounting

2



Post-top Mounting