

STAR LED

Area Lighting | Roadway | COBRA Series

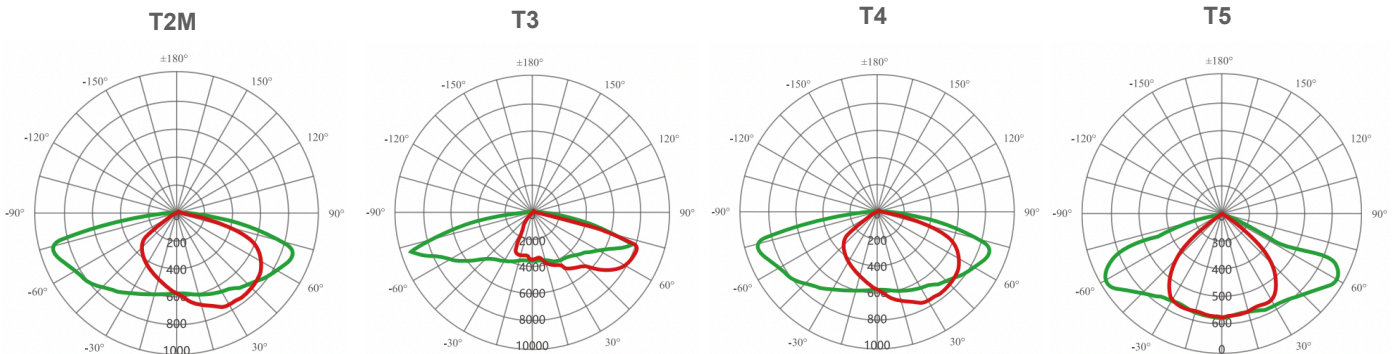


Star LED's COBRA Series Roadway luminaire is the ideal solution for new installations and retrofits of existing and outdated street lights. Versatile and sleek, the COBRA is available in 2 sizes, multiple lumen outputs and 4 standard optical distributions. Its innovative self cleaning bug shield technology, tool-less entry service door and integrated heatsink ensure extended product life with minimum maintenance and intervention. The 7 pin ANSI compliant receptacle (included as standard) allows you to customise and future proof your investment at a later date, to your specifications. All this backed by an industry leading 10 year limited warranty, now that is quality you can trust!

Model Guide		[Example Model: COBRA-60W-4K-T2M-100-277V-DIM-NR-GR]					
Series	Wattage	CCT	Distribution	Voltage	Driver Capabilities	Features	Finish
COBRA	40W 5600lm	3K 3000K	T2M (Asymmetrical)	100-277V AC 100-277V 50/60Hz (standard)	DALI DALI DIM (optional)	NR No Receptacle (optional)	GR Grey
	50W 7000lm	4K 4000K	T3 (Asymmetrical)	200-480V AC 200-480V 50/60Hz 3 phase, high voltage (optional)	DIM 0-10V DIM (standard)	7 PIN Receptacle for twist lock photocell or shorting cap, 7-pin (standard)	BL Black (optional)
	60W 8400lm	5K 5000K	T4 (Asymmetrical)			3SC 3-pin shorting cap (standard)	O Other / Custom (optional)
	75W 10500lm	5.7K 5700K	T5 (Symmetrical)			20KV 20KV Surge Protection (optional)	
	90W 12600lm	6.5K 6500K				SH Shield (optional, specified at time of order)	
	100W 14000lm					FSW Field selectable wattage interface (optional)	
	120W 16800lm						
	150W 21000lm						
	180W 25200lm						

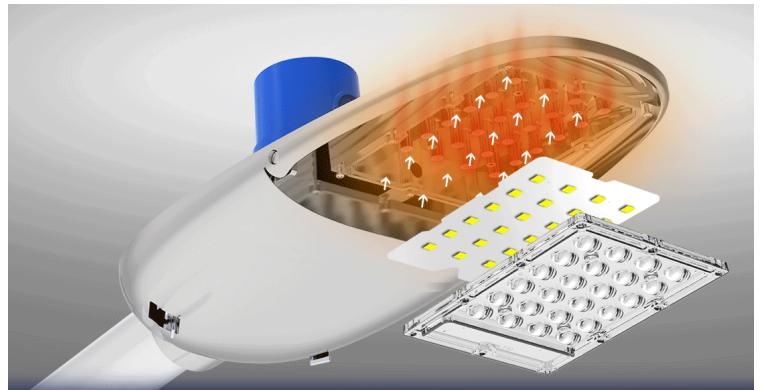
Photometric Distribution Options

The standard lumen distributions are as per diagrams below. Where required, additional options and shields available including cul-de-sac, house, front and side shields. Photometric reports tailored to your specification and project, demonstrating suitable distributions and total lumen requirements available, contact us for more information. BUG (backlight, uplight and glare) rated, particulars specified with Wattage selection.



Balancing Power & Efficiency

Boasting an efficacy range of 140-145 Lm/W, COBRA is both powerful and efficient. Not only will the sleek design modernise your roadway, its powerful componentry minimizes the wattage required to achieve a projects desired lumen output, resulting in reduced energy consumption and running costs.



Installation & Tool-Free Access

COBRA was designed with intention to make serviceability and installation a breeze. Features include tool free release service door, lightweight composition, internal zinc plated mounting system and integrated 360° multi directional bubble level.

Innovative Design

COBRA's sleek form modernizes outdated HID luminaires while maintaining a traditional roadway silhouette for new and existing applications. Thoughtfully developed to withstand a multitude of environments and associated weather conditions including snow, dry heat, humidity and salt fog, the IP66 enclosure safeguards its components and maintains the luminaires integrity over time.

Bug shield technology and self cleaning powder coat allow the fixture surface to organically rinse during rainfall. Unique contours prevent bird nesting and debris buildup, encouraging natural elements such as snow to slide off. Reduced buildup also facilitates a healthier lifespan of the luminaire, aiding effective dissipation for the integrated heat sync technology, relieving pressure on internal electrical assembly.



Durability

COBRA's combination of light weight and strength are a result of its die-cast aluminium and protective powder-coat composition. Equally robust and stylish, certified with an IK08 rating and EPA of .6ft². Within the parameters of this rating, the lamp will continue to safely and effectively illuminate the environment, without shedding broken fragments and causing further hazard to roadways, cars and pedestrians.

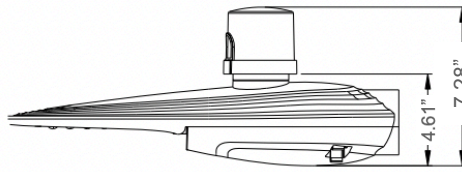
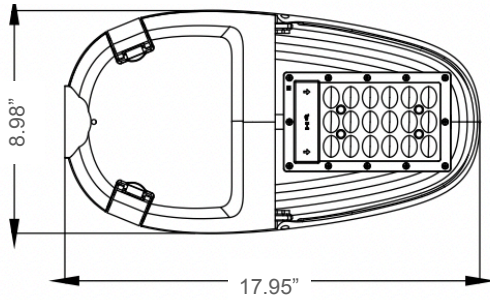
Light Source & Driver

Powered by a MEAN WELL driver and illuminated by Philips LUMILEDS, COBRA internalises the best possible parts to achieve the desired light levels for your project backed by decades of research and development.

Dimensions & Technical Drawings

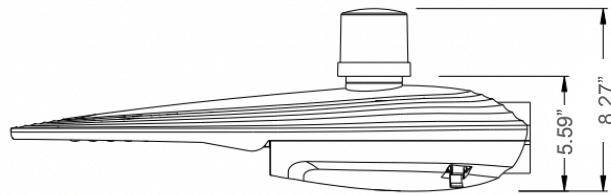
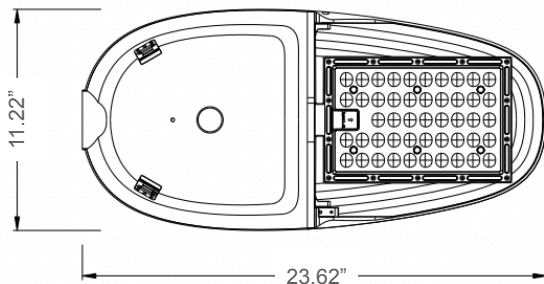
40-90W COBRA

Weight: 7.28 lbs



100-180W COBRA

Weight: 11.46 lbs



Specifications

Assembly

Outer body composed of low copper die cast aluminium alloy (A360), 2.5mm thickness. Tool free release, under-mounted, hinged service door provides ingress to; 2 internal, zinc plated clamp fittings, tightened with 4 x zinc plated hexagonal bolts for ease of install and adjustment, fits standard roadway tenons (60mm) 2/38" (tenon adaptors and mounting options can be specified to suit your project upon request), contact us; Integrated 360°, circular bubble level, allowing for accurate dual axis levelling with ease of read through black radius marks; LED driver and quick connect terminal block for secure wiring; Certification labels suitable to meet UL standards; QR accessible service tag. No external bolts to prevent corrosion and exposure to elements and maintain sleek design. Meets ANSI 3G vibration standards; bridge, roadway and overpass applications.

Finish

Rated for compliance with AAMA 2603 standard for color, polyester powder coat paint (4mm, ± 1mm tolerance). All external and internal components with resins and PC lenses are UV stabilized and resistant to discoloration and yellowing in line with ASTM D2244. Luster retention in line with ASTM D2247 & D523 humidity proof standard. ASTM B117 standard achieved, 5000hrs salt spray/fog test on housing and internal components.

Light Source

All electrical components are certified ROHS compliant, IP66 sealed from ingress including Philips LUMILEDS 3030 module (high performance white LEDs). Color temperatures in compliance with ANSI/NEMA bin 3000 Kelvin nominal, 4000 Kelvin nominal, 5000 Kelvin nominal, 5700 Kelvin nominal, 6500 Kelvin nominal, CRI 70 Min, 75 typical. Higher CRI's available, contact us for details. Lens composed of UV stabilized, IK08 rated PC refractor lenses suited to selected photometric distributions minimising light pollution and achieving uniformity. Performance tested per LM-80 standards and TM-15 (IESNA) for photometric performance. BUG rated, particular rating dependant on Wattage and CCT selection.

Heat Sink

Aluminium housing with integrated heatsink ensures maximum heat transfer to maintain the integrity of LED components. Organic heat dissipation is encouraged by innovative design of the sink, promoting airflow and preventing

irrecoverable damage to light source, efficiency and lifespan of the luminaire. The heatsink has no mechanical or moving parts and operates passively. Rated for operation in ambient temperatures of -40°C - +50°C (-40°F - +122°F).

Driver & Capabilities

All variations and Wattages of model integrate 1 MEAN WELL driver with high power factor of 90% min with a range of 50/60Hz. Available in 2, dual-voltage options; AC 100-277V (standard) and AC200-480V (3 phase, high voltage). THD 20% Max. Compatible with 0-10V dimming including automatic reduction to current of power to LEDs in the event of internal overheating to prevent damage. Inbuilt surge protection rated 10KV (standard) or 20KV for added protection (optional) (tested in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires, App D, Electrical Immunity High Test Levels).

Receptacle

The 7 pin receptacle (PCR7, ANSI C136.41 Compliant) featuring connectors for tool-less, field changeable conversions, compatible with 3, 5 and 7 pin photocell or shorting cap (standard). Unless ordered with no receptacle (optional 'NR'), the luminaire requires a photocell or shorting cap to complete the circuit and function.

Servicing & 10yr Limited Warranty

Luminaires come with QR identifiable service label fixed to the inner side of the tool free service door, allowing access to installation guides, product information and warranty contact. Warranty claims can be made by using the link on the service tag or, by contacting Star LED on +1 423 460 4050, or by emailing info@StarLED.green. For complete 10yr Limited Warranty document, contact us or refer to your original purchase document.

Certifications & Compliance

COBRA is certified cULus listed for Canada and Unites States of America (USA). All electrical components are ROHS and certified by DLC (DesignLights Consortium) for high level energy efficiency. Dark Sky rated with 0% uplight. Factory installed NEMA label ANSI C136.15 compliant

approved and meets or exceeds the following ANSI C136 standards:
.2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Features

NR No Receptacle - election to produce the luminaire without a standard 7 pin receptacle (optional)

7 PIN Receptacle - suitable for 3/5/7 pin twist lock photocell or shorting cap (standard)

3SC 3 PIN shorting cap (standard)

20KV Surge protection for additional insurance against shortages that may cause damage to the luminaire (optional)

SH Shield to redirect and avert light pollution from effecting surrounding environments. Multiple shields available, recommendations will be made after careful examination of the applications and lighting goals of the project for best practices, contact us for details (optional).

FSW Field selectable wattage module to allow for nominated user to set output value, suitable to conditions and requirements via WEB interface on mobile or computer application.

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T&Cs

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