



EvoLucia™ LED Cobra Head Luminaire

- Uses up to 70% less energy
- Maintenance-free for 60,000 hours
- Environmentally friendly
- No light trespass
- No light pollution
- Uses EvoLucia Aimed Optics™ technology

EvoLucia LED Cobra Head Lighting –

Better efficiency... better illumination... better visibility

EvoLucia LED Cobra Head Luminaire is your best choice for energy-efficient, environmentally friendly lighting for roads, highways and thoroughfares. EvoLucia LED Cobra Heads use up to 70% less energy than traditional metal halide fixtures and maintain virtually all their luminosity for the 10+ year life of the light, significantly reducing replacement and maintenance costs. And EvoLucia's proprietary photometric design techniques minimize glare and improve nighttime visibility to deliver superior illumination and roadway safety. EvoLucia Cobra Heads meet all LEED requirements for light pollution reduction credits by minimizing light trespass, reducing sky-glow, and reducing the impact on nocturnal environments.





For highly efficient, cost-effective, low-maintenance quality illumination, nothing can match EvoLucia LED Cobra Head luminaires

EvoLucia, the LED lighting division of Sunovia Energy Technologies, design and manufactures environmentally friendly light-emitting diode (LED) lighting products for multiple applications. According to the Department of Energy, over the next 20 years rapid adoption of LED lighting can reduce electricity demands by 62 percent, eliminate 258 million metric tons of carbon emission, avoid building 133 new power plants, and generate financial savings of \$280 billion.

EvoLucia™ LED Lighting is Clean: EvoLucia LED lights are energy-efficient and environmentally friendly, as they use up to 75% less energy than traditional light sources, require zero maintenance and drastically reduce carbon emissions. They use no toxic chemicals like the mercury that is found in compact fluorescent bulbs.

EvoLucia™ LED Lighting is Cool: Proper thermal management of LED lights is crucial to maximizing lumen output and product life. EvoLucia products utilize cutting-edge “heat sink” technology to draw heat away from the LEDs, keeping the lights at their optimum performance temperature.

EvoLucia™ LED Lighting is Controlled: EvoLucia products employ Sunovia’s proprietary, patent pending Aimed Optics™ technology, which provides the highest quality and most efficient illumination possible. Expertly designed optics and reflectors strategically direct the LED light exactly where it is needed, virtually eliminating glare, spill and light pollution.

Features and Benefits:

- 40W, 55W, 80W, 100W and 120W
- Full cutoff
- Low glare
- Dark Sky-compliant
- Die-cast housing
- Maximum flexibility
- - IESNA type II Light distribution pattern
- - Polycarbonate or acrylic lens

Project Information:

Features:

Applications:	highways, freeways, thoroughfares, local and collector roads, parking areas, rural roads and intersections
Light Distribution:	types II and III
Input Wattage:	40W, 55W, 80W, 100W, 120W
Comparable to:	up to 250W HPS
L70 Life Expectancy:	60,000 hours
Efficacy:	up to 90 Lumens per Watts
CRI:	70 or above
Listings/ Ratings:	IP66 CE, UL, CUL

Specifications:

Housing:

Rugged, die-cast aluminum is thermally set polyester powder-coated for durability with 3 mils nominal paint thickness and corrosion resistant rated 500 hours salt spray endurance. Die-cast trigger latch on door frame allows easy and secure one-hand opening for re-lamping and maintenance. Tested and passed for 3G vibration.

Mounting:

Two-bolt Mast arm Mount provides easy, secure installation and adjustability for arms from 3,18 cm to 5,08 cm (4,14 cm to 6,05 cm O.D.) diameter. ± 6° of leveling.

LED Modules:

The LED module utilize an aluminum metal-clad board for maximum heat transfer, leading to longer life. Product employs EvoLucia patent-pending Aimed Optics™, which allows the direction and intensity of the light to be tightly controlled. This control of the CREE LEDs allow EvoLucia fixtures to maintain light levels equal to or greater than that of MH and HPS fixtures at a much lower energy consumption levels.

LED Driver:

The LED driver is a constant current device with a high-power factor correction to maximize power utilization. The driver meets UL 1310 / UL48 Class 2 with a built-in over-temperature protection. Input voltage from 100 – 277 VAC. Input voltage of 480 VAC available with step down transformer. Passes FCC part 15, class B for both conducted and radiated emissions.

Surge Protection:

The SCH incorporates EvoLucia's lighting surge protection in each unit, which is effective at suppressing most surges on the AC line. This integrated device provides greater than 320j of protection to the unit. In areas with higher surge levels or occurrences, an optional surge protector can be fitted in addition to the standard unit, providing enhanced protection, rated at greater than 640j.

Finish / Color:

Thermally set polyester powder-coated for durability with 3 mils nominal paint thickness and corrosion resistant rated 500 hours salt spray endurance.

EPA:	24,69 cm ²	Height:	19,05 cm
Weight:	9,96 kg	Width:	34,04 cm
		Length:	52,58 cm



Full Cutoff:

Meets IES standards for full cutoff luminaires.

Heat Sink / Platform:

One-piece cast, low copper (<0,4% Cu) aluminum alloy. Effectively spreads heat to ensure long component life of LEDs and electronic components and provides precise alignment of LEDs and lenses.

Photo Control:

Twist-lock photocell with shorting cap as standard. Photocell is optional.

Lens:

High impact molded, UV-stabilized, acrylic lens, profiled for maximum efficiency of light transmission.



*FTE – (Fitted Target Efficacy):

This rating was established by the US department of energy (DOE) for ENERGY STAR™. It calculates not only the efficiency, but also efficacy of a luminaire. This is accomplished by not only considering the light reaching the roadway, but the effectiveness of that light in terms of uniformity. In order to develop this metric, the DOE evaluated hundreds of HPS luminaires and determined that if a minimum FTE metrics of 37 was achieved, then the luminaire would be up to 20% more efficient than most HPS fixtures that are available in the market today. Cobra Head has an FTE score of 56.

This independent DOE criteria demonstrates that Sunovia LED lamps are 55% to 70% more energy efficient than leading HPS fixtures in the market today and, as much as 20% to 30% more efficient than the best in class LED roadway luminaires available today.

A calculator for this metric is available on the ENERGY STAR™ website as an independent way to evaluate standard IES photometric files of luminaires www.energystar.gov