

LED Cobra Head Luminaire

100-250W Replacement

- Saves up to 60% of energy usage
- Extremely durable; long life of up to 100,000 hour life with no bulb replacement
- Use of patented "Aimed Optics"™ provides more light for less energy
- Cutting-edge "heat sink" technology keeps the LEDs at their optimum performance temperature and extends product life
- Light uniformity increases visibility in parking lots and on roadways
- Full cutoff/Dark Sky-compliant; helps minimize light trespass
- UL wet-listed
- Made in America and ARRA-Compliant
- DC/Solar options available for "off-grid" applications



Features

- | | |
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| <ul style="list-style-type: none"> • Applications: LED cobra head luminaire for highways, freeways, thoroughfares, local and collector roads, parking areas, rural roads and intersections. • Light Distribution: Types II and III • Input Wattage: Available in 55, 80 and 100 Watts • L70 Life Expectancy: Up to 100,000 hours • Durability: Heavy duty aluminum housing; durable, marine-grade powder coat finish. | <ul style="list-style-type: none"> • Efficacy: Up to 90 lumens per watt • CRI: 70 or above • Listings/Ratings:    • Warranty: Manufacturer warrants products to be free from defects for a period of five (5) years. Please refer to complete warranty and terms and conditions document. |
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*Retrofit Kit is UL approved.

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 1 1/4" to 2" (1 5/8" to 2 3/8" O.D.) diameter. +/- 6 degree of leveling.

LED Modules:

The LED modules 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 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 stepdown transformer. Passes FCC part 15, class B for both conducted and radiated emissions.

Surge Protection:

The SCH incorporates EvoLucia's lightning 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.

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.



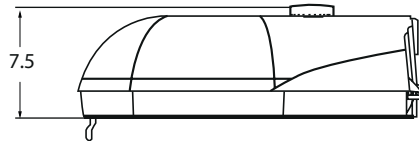
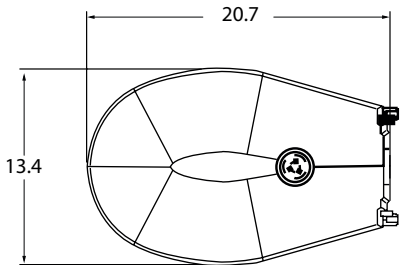
* All data subject to change without notice.

Reference www.EvoLuciaLighting.com or contact sales@sunoviaenergy.com for additional information. REV 01-2011
 106 cattlemen road • sarasota fl 34232 • (941) 751-6800 • 1-866-806-7868 • www.evoluminalighting.com

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Project:	Approval:
Specifier:	

Technical Specifications



EPA: 0.81 ft² **Width:** 13.4" (34.29 cm)
Weight: 22 lbs (9.98 kg) **Length:** 20.7" (52.58 cm)
Height: 7.5" (19.05 cm)

Third-Party Testing and Certifications

The SCH has undergone extensive third-party testing, including:

- LM79 (LTL Laboratory)
- LM80 (LTL Laboratory)
- UL Testing and Certification

BUG Rating Available (LTL Laboratory)

Obtain up-to-date test results and certification documentation at www.evocalighting.com/technicallibrary

Order Code

SCH X5 /	<input type="text"/>	/	<input type="text"/>	/	<input type="text"/>	/	<input type="text"/>	/	<input type="text"/>
Family	Wattage-Color Temp	Lens Type	Distribution Type	Input Voltage	Finish	Options			
	55-45 = 55W, 4500K 80-45 = 80W, 4500K 100-45 = 100W, 4500K 55-60 = 55W, 6000K 80-60 = 80W, 6000K 100-60 = 100W, 6000K	PAL = Profile Acrylic Lens	T2= IESNA Type II T3= IESNA Type III	UNV = 100-277 VAC 347 = 347 VAC (Consult Factory) 480 = 480 VAC	LG = Grey (standard) CC = Custom Color (Consult Factory)	LSP = Lightning Surge Protector PC = Photocell			



DC/Solar options available for "off-grid" applications. Consult factory for more information.

Crossover Chart

HID Source	LED Replacement	Energy Savings	mA Drive Current*	HID Source	LED Replacement	Energy Savings	mA Drive Current*
100W HPS	55W	45%	300 mA	150W MH	80W	47%	410 mA
100W MH	55W	45%	300 mA	200W MH	100W	50%	525 mA
150W HPS	80W	47%	410 mA	250W HPS	100W	60%	525 mA

* Represents typical drive current for the given configuration.

To view photometric test reports and download IES files, visit evocalighting.com/technical-library

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