

LED Cobra Head Luminaire

70-250W HID Replacement



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Common Applications:

LED cobra Head luminaire for highways, freeways, thorough-fares, local and collector roads, parking areas, rural roads and intersections.



Features and Benefits:

- Up to 90 lumen per Watt (LPW) with industry's best in the class Fitted Target Efficacy (FTE) ratings
- Saves up to 65% of energy usage
- Extremely durable; Long Life with 10 Year Warranty; Better than 85% Lumen Maintenance at >50,000 hours of operation
- Use of patented "Aimed Optics"[™] provides 20% more light on the road compared to other LED fixtures
- 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; no light trespass
- IP65 rated optical assembly
- DC/Solar options available for "off-grid" applications
- ARRA Compliant

Typical Evolucia Cobra Head Replacement for HID Street Lights

HID	System Input Watts	LED Replacement	System input Watts	Energy Savings	HID Life (Hrs)	LED Life (Hrs)
70 HPS	88	EVO-SL-40-XX-XX-XXX	40	54%	24,000	70,000
100 HPS	130	EVO-SL-60-XX-XX-XXX	60	54%	24,000	70,000
150 HPS	190	EVO-SL-80-XX-XX-XXX	80	57%	24,000	70,000
200 HPS	240	EVO-SL-100-XX-XX-XXX	100	58%	24,000	70,000
250 HPS	295	EVO-SL-100-XX-XX-XXX	100	66%	24,000	70,000

** All data subject to change without notice.*

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Project:	Approval:
Specifier:	

Technical Specifications

Housing:

- Rugged, one piece die-cast aluminum alloy provides excellent resistant to corrosion.
- Die-cast trigger latch on door frame allows easy and secure one-hand opening.

Mounting:

- Four-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:

- Aluminum metal-clad board for maximum heat transfer.

Optical System:

- EvoLucia patent-pending Aimed Optics™ which controls light intensity and direction allowing design freedom to achieve illuminance level equal to or greater than MH or HPS options at much lower wattage.
- Available in IESNA Type II and Type III Roadway distributions.
- Luminaire provides zero up light above the 90 degree angle and restrict backlight to within sidewalk width providing optimal applications coverage and optimal pole spacing.
- High impact molded, UV-stabilized, Acrylic lens
- IP65 rated optical assembly

Color Characteristics:

- CRI > 70 and available in 5000 K CCT (4000 K is optional)

Heat Sink / Platform:

- One-piece cast, low-copper (<0.4% Cu) aluminum alloy

Electrical system:

- Constant current LED driver with an active power factor correction features minimum power factor (PF) of 0.90 and <20% Total Harmonic Distortion (THD) for 120-277 VAC input voltage range. EMC meets or exceed FCC CFR Part 15.
- 10 kV surge suppression protection tested in accordance with IEEE/ ANSI C62.41.2.
- Meets UL 1310 / UL48 with built-in over-temperature protection
- Input voltage operating range 110-277 VAC and 347VAC. Input voltage of 480 VAC available with step-down transformer
- 50/60 Hz operation

Operating Temperature:

- -40°C to 40°C

Photo Control:

- Twist-lock photocell receptacle with shorting cap as standard. Photo cell is optional. Long life (>10 yrs) LED photocell also available.

Warranty:

- Manufacturer warrants products to be free from defects for a period of five 5 years. For additional information refer to complete warranty and terms and conditions document. For extended warranty consult the factory.

Performance Chart

Product Description	Power (W)	Lumen	LPW	CCT**	CRI	Photometric Distribution	BUG
EVO-SL-40-4K-T2	40	3600	90	4500	>70	Type II	B1-U0-G2
EVO-SL-40-5K-T2	40	3600	90	5000	>70	Type II	B1-U0-G2
EVO-SL-60-4K-T2	60	5600	88	4000	>70	Type II	B1-U0-G2
EVO-SL-60-5K-T2	60	5600	88	5000	>70	Type II	B1-U0-G2
EVO-SL-80-4K-T2	80	7000	93	5000	>70	Type II	B1-U0-G2
EVO-SL-80-5K-T2	80	7000	93	4000	>70	Type II	B1-U0-G2
EVO-SL-100-4K-T2	106	9400	89	5000	>70	Type II	B1-U0-G2
EVO-SL-100-5K-T2	106	9400	89	4000	>70	Type II	B1-U0-G2

* Estimated values; pending photometric testing **CCT Tolerance = +/- 10% Note: Specifications subject to change without notice

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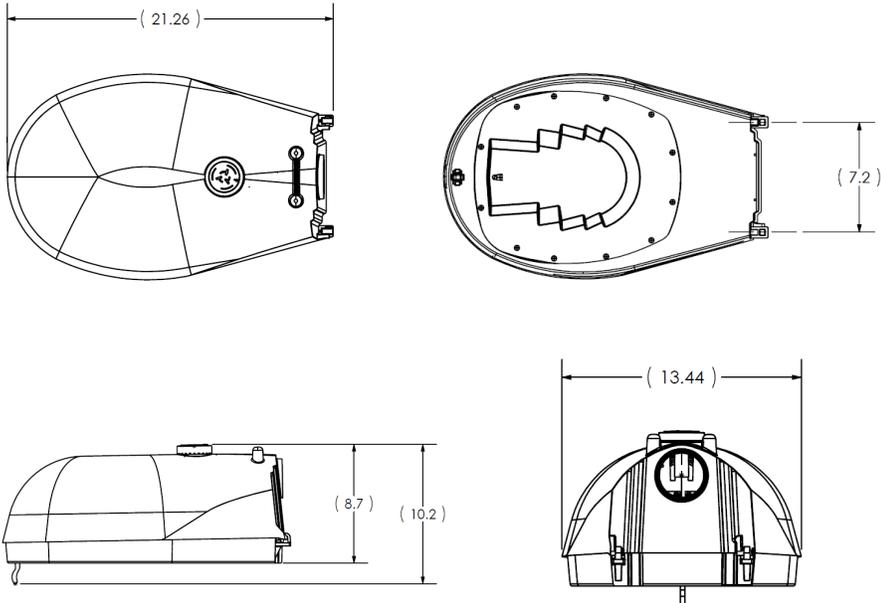
Technical Specifications

Order Code

Family	Wattage-Color Temp	Distribution Type	Input Voltage	Options
EVO-SL	40-4K = 40W, 4000K 40-5K = 40W, 5000K 60-4K = 60W, 4000K 60-5K = 60W, 5000K 80-4K = 80W, 4000K 80-5K = 80W, 5000K 100-4K = 100W, 4000K 100-5K = 100W, 5000K	T2= IESNA Type II T3= IESNA Type III**	UNV = 100-277 VAC 347 = 347 VAC 480 = 480 VAC	PC = Photocell LLPC = Long Life PC

**Available in May, 2013

Mechanical Drawings



EPA: 0.81 ft²
 Weight: 18 lbs (9.98 kg)
 Height: 7.5" (19.05 cm)
 Width: 13.4" (34.03 cm)
 Length: 20.7" (52.58 cm)

*Dimensions are in inches

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