



Project Name:
Part Number:
Fixture Type
Notes:

ICH3 Series Cobra Street Light

APPLICATIONS

ICH3 series improves on the classic "Cobrahead" luminaire design by introducing the next generation of LED green technology with energy savings of up to fifty percent over traditional light sources, and LED lamp life well beyond 10 years of operations. ICH3 housing and door are die cast aluminum with integral heat sink, making the entire housing part of the thermal management solution for long life of the LEDs and driver. The fixture is easily and securely mounted with bolts mounting to 1 5/8" to 2 3/8" diameter mast arms and supplied with a terminal block for easy power connection and a universal bubble level for ease of leveling. with stainless steel pinch latches; accessing a removable power tray door holding the LED driver.

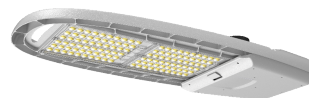
Performance is comparable to 250-400W HPS roadway Lights
Correlated color temperature 4000K, 70CRI minimum or optional 5000K, 70 CRI minimum. Unique IP65 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth providing optimal application coverage and optimal pole spacing.



100W



200W



300W

ORDERING INFORMATION



EXAMPLE: ICH3 T3 100 4K UNV

Series	Optics	Wattage	CCT	Finish	Voltage	Options
ICH3	T2 = Type II T3 = Type III	40W - 7400 lm 60W - 10200 lm 80W - 12800 lm 100W - 15500 lm	4K 4000K 5K 5000K	BLANK Grey	UNV 120-277V	Blank No Accessories PCT Twist lock 3 pin photocell WA8 Shorting cap
		80W - 14700 lm 120W - 20500 lm 160W - 25600 lm 200W - 31000 lm				
		120W - 21800 lm 180W - 30400 lm 240W - 37800 lm 300W - 46200 lm				

Accessories & Options



PCT
twist lock photocell
(Default)



WA8
Shorting cap
(Sold separately)

Houston, Texas

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www.orelighting.com

Note: Information contained herein is subject to change without notice.

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SPECIFICATIONS

HOUSING

The ICH3 housing is constructed from durable, corrosion resistant, die cast aluminum. The integral heat sink is cast as part of the fixture housing.

The electrical compartment is separated from the LED array/heat sink structure, and sealed allowing for IP 65 rating of the complete fixture. A molded silicone grommet seals the incoming power leads. Supplied with a bubble level for ease of mounting alignment, and a terminal block for easy power connection.

OPTICAL SYSTEM

The highest lumen output field-changeable LEDs are utilized in the ICH3 series. The Type 3 injection molded Roadway optic is designed specifically for roadway applications. Micro-lens optical systems produce IESNA Type 2 or Type 3 distributions and are fully sealed to maintain an IP65 rating. The optical system qualifies at IES full cutoff to restrict light trespass, glare and light pollution for neighborhood friendly lighting. CRI values are 70+.

LEDs

Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 4000K (Neutral), or 5000K (Cool) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Mounting

The ICH3 mounts directly to roadway mast arms and tenons with an outside diameter ranging from 1 5/8" to 2 3/8". An internal four-bolt clampbracket attaches the fixture securely to the mounting arm with four stainless steel bolts.

ELECTRICAL

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 0-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC Terminal block accommodates 6 to 14 gauge wire and is aligned for strait wire entry. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA.

FINISH

Housing receives a fade and abrasion resistant polyester powder coat finish. Finish tested to withstand 3000 hours in salt spray exposure per ASTM B117. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

AMBINET TEMPERATURE

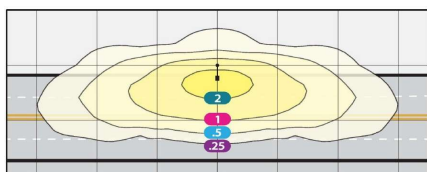
Suitable for use in -40°F to 104°F (-40°C to 40°C)

WARRANTY

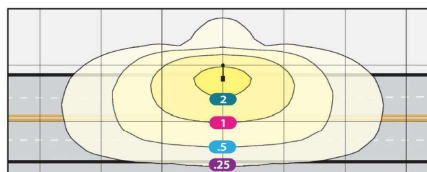
5 year limited warranty. Comprehensive warranty terms can be located on www.orelighting.com



Type II



Type III



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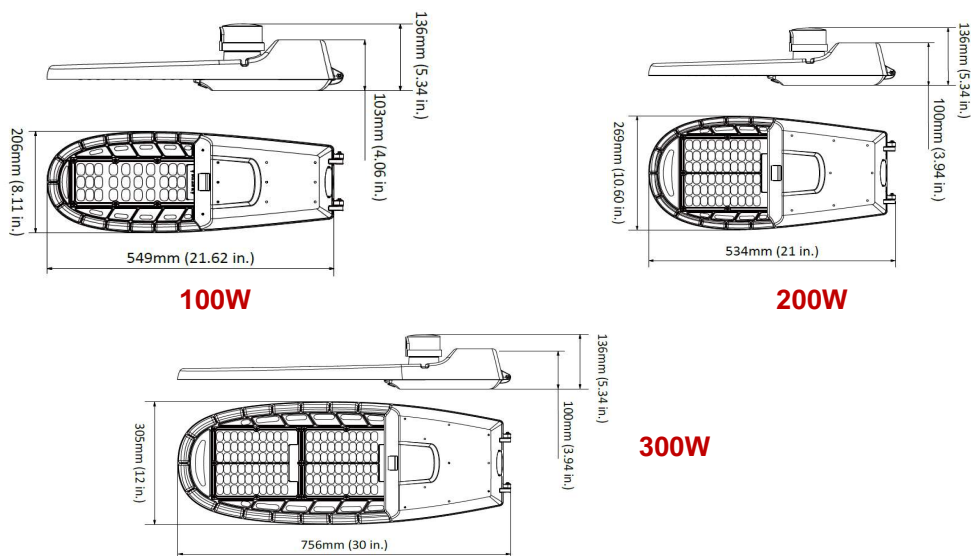
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DIMENSIONS

unit: mm / inch



Weight		EPA
ICH3 100W	7.35 lbs	0.426
ICH3 200W	7.66 lbs	0.548
ICH3 300W	9.46 lbs	0.784

PERFORMANCE DATA

WATTS	OPTIC	CRI	VOLTAGE	4000K			5000K		
				LUMENS	Efficacy (LPS)	BUG	LUMENS	Efficacy (LPS)	BUG
100W	T2	70+	120-277V	15000 lm	148	2, 0, 2	15000 lm	148	2, 0, 2
	T3			15500 lm	152	2, 0, 2	15500 lm	152	2, 0, 2
200W	T2			29800 lm	148	3, 0, 3	29800 lm	148	3, 0, 3
	T3			31000 lm	154	3, 0, 3	31000 lm	154	3, 0, 3
300W	T2			44500 lm	148	4, 0, 4	44500 lm	148	4, 0, 4
	T3			46200 lm	153	4, 0, 4	46200 lm	153	4, 0, 4

ELECTRICAL LOAD

WATTAGE	Current (A)			
	120V	208V	240V	277V
100W	0.83	0.48	0.42	0.36
200W	1.66	0.96	0.83	0.36
300W	2.50	1.44	1.25	1.08