

|               |
|---------------|
| Project Name: |
| Part Number:  |
| Fixture Type  |
| Notes:        |

## ICH2 Series Cobra Street Light

### DESCRIPTION

**ICH2** 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. ICH2 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 1/4" 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.



ICH2 70W / 105W



ICH2 150W

### ORDERING INFORMATION



EXAMPLE: ICH2 T3 70 4K UNV

| Series | Optics        | Wattage              | CCT      | Finish     | Voltage                      | Options                                                                                                                                                                                                                      |
|--------|---------------|----------------------|----------|------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICH2   | T2 = Type II  | 70 70W               | 4K 4000K | GR<br>Grey | UNV                          | Blank = No Accessories<br>TLR-3P = 3 pin receptacle<br>PCT01 = photocell (120/277V)<br>PCT480 = photocell (480V)<br>SPD-10KA = 10KA surge protective device (120-277V)<br>SPD-20KA = 20KA surge protective device (120-277V) |
|        | T3 = Type III | 105 105W<br>150 150W | 5K 5000K |            | 120-277V<br>*HVU<br>347-480V |                                                                                                                                                                                                                              |

\*347-480V only for 105W & 150W

### Accessories & Options



TLR-3P



PCT01



PCT480



SPD-10KA



SPD-20KA

## SPECIFICATIONS

### HOUSING

The ICH2 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 ICH2 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 ICH2 mounts directly to roadway mast arms and tenons with an outside diameter ranging from 1 1/4" 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.

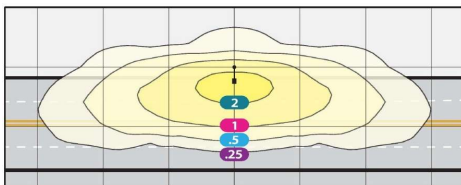
### AMBINET TEMPERATURE

Suitable for use in -40°F to 131°F (-40°C to 55°C)

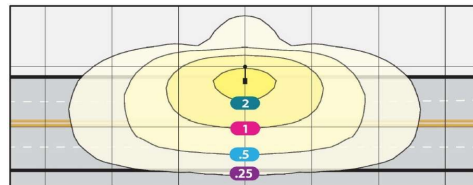
### WARRANTY

10 year limited warranty. Comprehensive warranty terms can be located on [www.orelighting.com](http://www.orelighting.com)

Type II



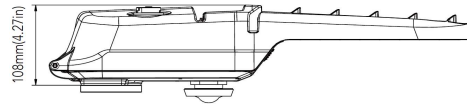
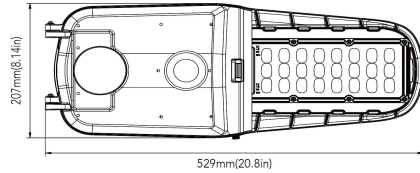
Type III



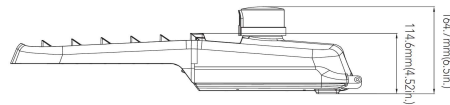
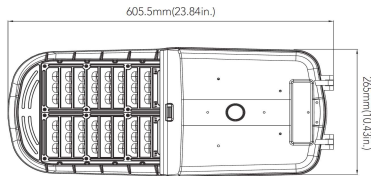
# ORE LIGHTING

## DIMENSIONS

### 70W / 105W



### 150W



| Weight    |          | EPA   |
|-----------|----------|-------|
| ICH2 70W  | 7.35 lbs | 0.456 |
| ICH2 105W | 7.66 lbs | 0.456 |
| ICH2 150W | 9.46 lbs | 0.471 |

## PERFORMANCE DATA

| WATTS | OPTIC | CRI | VOLTAGE       | 4000K    |                |         | 5000K    |                |         |
|-------|-------|-----|---------------|----------|----------------|---------|----------|----------------|---------|
|       |       |     |               | LUMENS   | Efficacy (LPS) | BUG     | LUMENS   | Efficacy (LPS) | BUG     |
| 70W   | T2    | 70  | 120-277V/480V | 9900 lm  | 141            | 1, 3, 2 | 9900 lm  | 141            | 1, 3, 2 |
| 70W   | T3    | 70  | 120-277V/480V | 9500 lm  | 133            | 1, 3, 2 | 9500 lm  | 134            | 1, 3, 2 |
| 105W  | T2    | 70  | 120-277V/480V | 14600 lm | 139            | 2, 3, 2 | 14600 lm | 139            | 2, 3, 2 |
| 105W  | T3    | 70  | 120-277V/480V | 14200 lm | 135            | 2, 3, 2 | 14600 lm | 135            | 2, 3, 2 |
| 150W  | T2    | 70  | 120-277V/480V | 19800 lm | 132            | 2, 3, 2 | 20000 lm | 133            | 2, 3, 2 |
| 150W  | T3    | 70  | 120-277V/480V | 19800 lm | 132            | 2, 3, 2 | 20000 lm | 133            | 2, 3, 2 |

## ELECTRICAL LOAD

| WATTAGE | Current (A) |      |      |      |      |      |
|---------|-------------|------|------|------|------|------|
|         | 120V        | 208V | 240V | 277V | 347V | 480V |
| 70W     | 0.58        | 0.34 | 0.29 | 0.25 | 0.2  | 0.15 |
| 105W    | 0.88        | 0.5  | 0.44 | 0.38 | 0.3  | 0.22 |
| 150W    | 1.25        | 0.72 | 0.63 | 0.54 | 0.43 | 0.31 |

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

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