

Discontinued
Contact Fulham for availability. Not for use in new designs.



CH02 Induction Cobrahead Series



The **CH02 Induction Cobrahead Series** can be used in a variety of applications roadway Lighting. Optimized for heights of 10ft to 18ft. Low profile CH02 Series aluminum housing is ideal for typical roadway lighting. The Induction system operates well in cold temperatures with an instant ON/re-strike capability. The long life and superior lumen maintenance of Induction significantly reduces maintenance costs and provides a significant reduction in the total cost of ownership.

PROFILE INDUCTION GENERATOR

CIRCULAR INDUCTION
40W – 100W

MOUNTING HEIGHT
10' TO 18'

DIMMING WATTAGES
CIRCULAR 40W-100W



APPLICATION -

- Freeways
- Highways
- Parking Lots
- Intended use for Replacements of HID for Roadway Lighting

- Public Entrances
- Off-Street Area
- Roadway Lighting

CONSTRUCTION -

- Compact Structure
- Corrosion Resistant
- Standard Powder Coated Finish: Gray
- Die Cast Aluminum Alloy Housing
- Stainless Steel Screw and Clamp
- Preinstalled Photocell Receptacle

- Flat Tempered Glass Lens
- Gas-tight Silicon Rubber Seal
- Pole Mounted: Diameter 1.50" – 2.36"
- Photocell NOT Included
- Aluminum Reflector

ELECTRICAL -

- Universal Voltage (120V – 277V)
- High Power Factor (>.95)
- Ambient Temperature Rating: -20°C to 40°C
- Input Frequency: 50/60 Hz
- Operating Frequency: 250 kHz
- Generator Type: Class P Type 1 outdoor
- CE: 208V-240V

- Instant On
- No Noise Compare to HID Systems
- No Variation Over a Wide Range of Temperatures and Voltage Fluctuation
- Constant Wattage Output With Less Than 3% Variance
- Pre-Wired Output Connector (Plug and Play)
- THD %: < 10%

LAMP TYPE/WATTAGES -

- Circular Induction Lamps Available: 40W, 70W, 80W, 100W,
- Standard Kelvin Temperature is 5000K: Provides a Cooler Color Temperature
- CRI >80
- Vibration and Shock Resistant: No Filament

- Pre-Wired Input Connector
- Low Lumen Depreciation, >70% Lumen Maintenance at 60,000 Hours
- Wide Range of Color Temperature Options 2700K – 6500K Available

COMPLIANCE -

- UL listed – UL 1598 (E363375)
- cUL listed – UL 1598 (E363375)
- CE listed: 40W, 70W, 80W, 100W

- IP65: Suitable for Wet Location
- Surge Immunity – IEC 61000-4-5: Class 4
- FCC Part 18-A

DIMMING INDUCTION GENERATOR SPECIFICATIONS -

- Dimming interface is electrically isolated for safety and reliability
- Dimmable Induction generator can work as a regular generator to drive the lamp at full range when the 0-10V interface is not connected.
- The output wattage is about 50% at 0-3VDC.
- The output wattage is dimmed from 100% to 50% at the 9-3VDC.
- Dimming wires: Violet (+), Gray (-)
- The output wattage is 100% at 9-10VDC.

- The output wattage is at the 100% range when the system is power ON. If the system is set on a dim level then it will dim within 30 seconds.
- Shorting the two dimming wires (Violet and Gray) sets the system to the lowest dim level of 50%, acting as a bi-level dimming system.

OPTICS -

- Clear Flat Tempered Glass Lens
- High Reflectivity Vacuum Coated Inner Surface Finish

- Symmetric Hydroformed Aluminum Reflector
- Type V Distribution

WARRANTY -

- Five-year Limited Warranty
- Vacuum Coated Aluminum Reflector

NOTE:
1. Consult with your sales representative for availability.
2. Consult with your sales representative for lead time
3. Dimming Generator, No Sensor included

Actual performance may differ as a result of end-user environment and application.
Note: Specifications subject to change without notice.

ORDERING OPTIONS

Lead times will vary depending on options selected. Consult with your sales representative.

TYPE	SERIES	LAMP	WATTAGE	LENS	ORDERING OPTIONS
CH = COBRAHEAD	02 = 02 SERIES	C = CIRCULAR	040 = 40W 070 = 70W 080 = 80W 100 = 100W	G = GLASS	M = 0-10V Dimming ³ BLANK = 5000K 27 = 2700K 30 = 3000K 40 = 4000K 60 = 6000K 65 = 6500K Z = CE ¹

Example: CH-02-C100-G (Cobrahead 02 Series Circular 100W Lamp with Glass Lens 5000K)

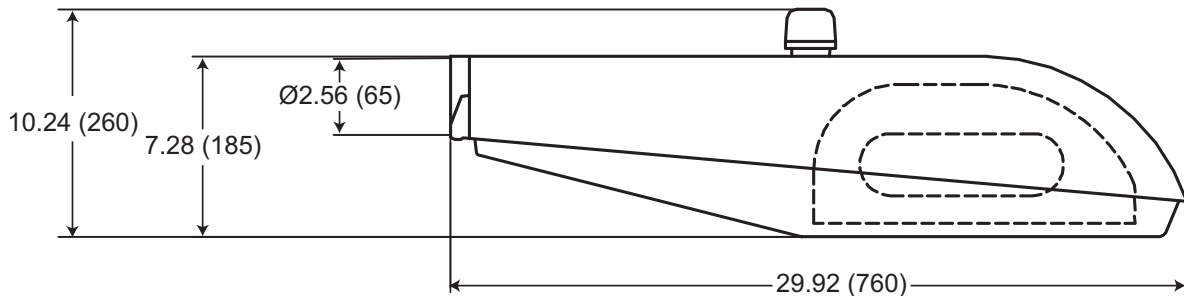
ACCESSORIES

DESCRIPTION:	PART NUMBER:
PHOTOCELL (BLUE)	ILAPHCU
PHOTOCELL-10	ILAPHCU10

ELECTRICAL CHARACTERISTICS

MODEL NO.	RATED WATTAGE (W)	INPUT POWER (W)	INPUT CURRENT 120V - 277V (AMP)	LAMP RATED INITIAL LUMINANCE (LM)	EFFICACY (LM/W)	LUMEN MAINTENANCE	COLOR RENDERING INDEX	CCT (KELVIN)
CH02-C040-G/M	40	42	0.35 - 0.15	3000	70 - 75	70%-75%	> 80	5000
CH02-C070-G/M	70	74	0.62 - 0.27	5250	70 - 75			
CH02-C080-G/M	80	84	0.70 - 0.30	6000	70 - 75			
CH02-C100-G/M	100	105	0.88 - 0.38	8000	75 - 80			

Mechanical Data



SIDE VIEW

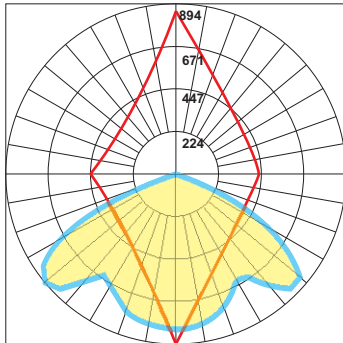
All dimensions are shown in inches (millimeters) unless otherwise noted.

CH02 Induction Cobrahead Series

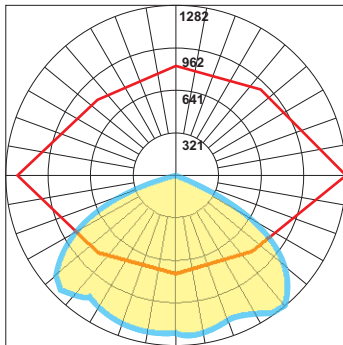
Photometric Data

IES files available upon request.

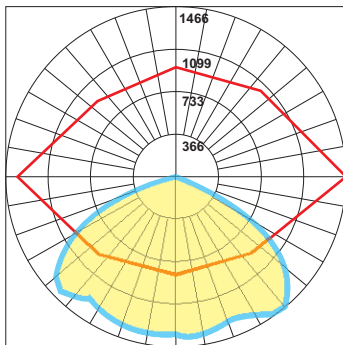
POLAR GRAPH



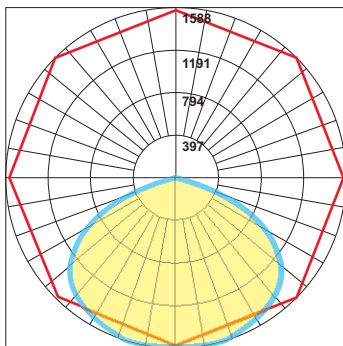
CH02-C040-G/M



CH02-C070-G/M

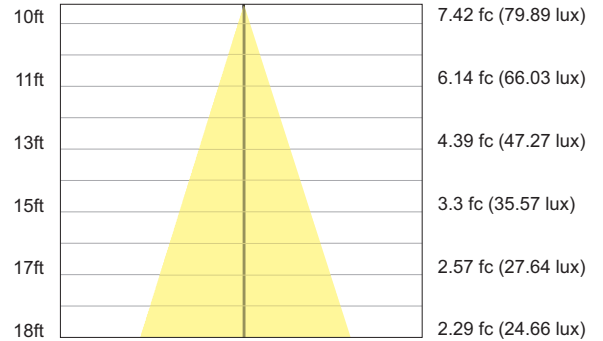


CH02-C080-G/M

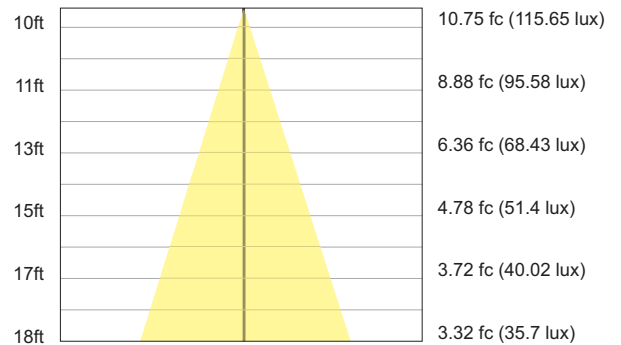


CH02-C100-G/M

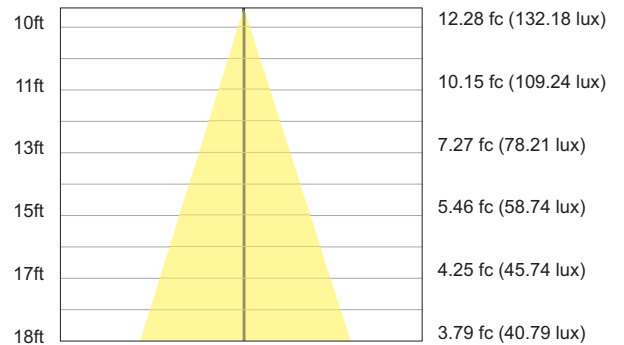
ILLUMINANCE AT DISTANCE



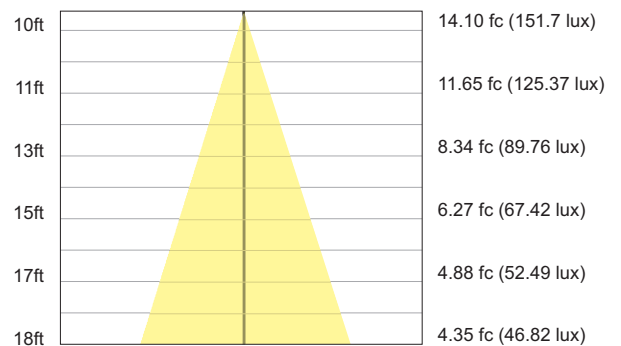
CH02-C040-G/M



CH02-C070-G/M



CH02-C080-G/M



CH02-C100-G/M

Located At Horizontal Angle = 135, Vertical Angle = 5
 # 1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)