

CH08 Induction Cobrahead Series



The **CH08 Induction Cobrahead Series** can be used in a variety of roadway lighting applications. Optimized for heights of 12ft to 40ft. CH08 has a stylish slim structure uniquely design for high wind resistance and a wide distribution. Generator is efficiently mounted directly to the housing for great reliability and easy maintenance. 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.

APPLICATION -

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

- Public Entrances
- Off-Street Area
- Roadway Lighting

CONSTRUCTION -

- Slim Structure
- Corrosion Resistant
- Standard Powder Coated Finish: Gray
- Die Cast Aluminum Alloy Housing
- Streamline Contour for High Wind Resistance
- Sealed Die Cast Generator
- Hydro-Formed Aluminum Reflector

- Gas-tight Silicon Rubber Seal
- Generator Directly Mounted to Housing for Great Reliability and Easy Maintenance
- Pole Mounted: Diameter 1.50" – 2.36"
- Preinstalled Photocell Receptacle
- Photocell NOT Included
- Curved Polycarbonate Lens

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
- CSA: 208V-347V
- CE: 208V-240V

- Instant On
- No Noise Compared 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 -

- Tubular Induction Lamps Available: 120W, 150W, 200W, 250W
- 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% at Lumen Maintenance 60,000 Hours
- Wide Range of Color Temperature Options 2700K – 6500K¹ Available

COMPLIANCE -

- UL listed – UL 1598 (E363375)
- cUL listed – UL 1598 (E363375)
- CSA listed¹: 150W, 200W, 250W
- CE listed¹: 200W, 250W

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

OPTICS -

- Clear Curved Polycarbonate Lens
- High Purity Hydro-Form Aluminum Reflector with Vacuum Coated Inner Surface

- Symmetric Hydroformed Aluminum Reflector
- High Reflectivity Vacuum Coated Inner Surface Finish
- Type II Distribution

WARRANTY -

- Five-year Limited Warranty

SEALED DIE CAST INDUCTION GENERATOR



TUBULAR INDUCTION
120W – 250W

MOUNTING HEIGHT
12' TO 40'

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

NOTE:
1 Consult with your sales representative for availability.
2 Consult with your sales representative for lead time

ORDERING OPTIONS

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

TYPE	SERIES	LAMP	WATTAGE	LENS	ORDERING OPTIONS
CH = COBRAHEAD	08 = 08 SERIES	T = TUBULAR	120 = 120W 150 = 150W 200 = 200W 250 = 250W	P = POLYCARBONATE	BLANK = 5000K 27 = 2700K 30 = 3000K 40 = 4000K 60 = 6000K 65 = 6500K J = CSA ¹ Z = CE ¹

Example: CH-08-T250-P (Cobrahead 08 Series Tubular 250W lamp with Polycarbonate lens)

ACCESSORIES

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

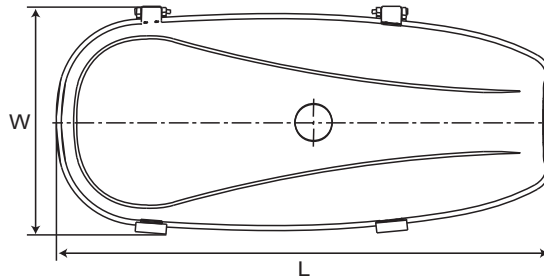
Discontinued
Contact Fulham for availability. Not for use in new designs.

CH08 Induction Cobrahead Series

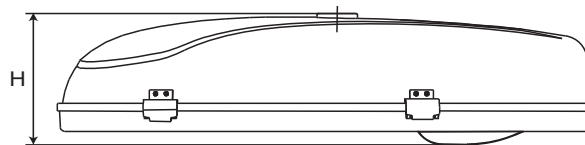
ELECTRICAL CHARACTERISTICS

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)
CH08-T120-P	120	126	1.05 - 0.45	9600	75 - 80	70%-75%	> 80	5000
CH08-T150-P	150	158	1.32 - 0.57	12750	80 - 85			
CH08-T200-P	200	210	1.75 - 0.76	17000	80 - 85			
CH08-T250-P	250	263	2.19 - 0.95	22500	85 - 90			

Mechanical Data



TOP VIEW



FRONT VIEW

MODEL	L	W	H
120W - 150W	10.59(269)	14.49(368)	10.59(269)
200W - 250W	41.50(1054)	16.50(419)	12.09(307)

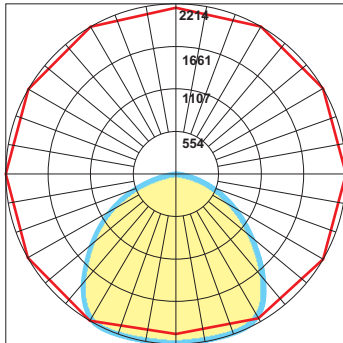
All dimensions are shown in inches (millimeters) unless otherwise noted.

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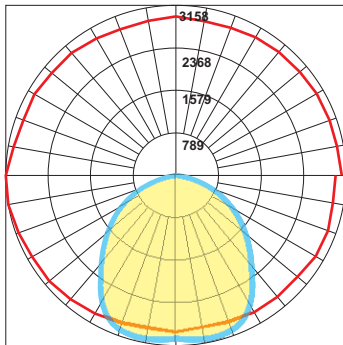
Photometric Data

IES files available upon request.

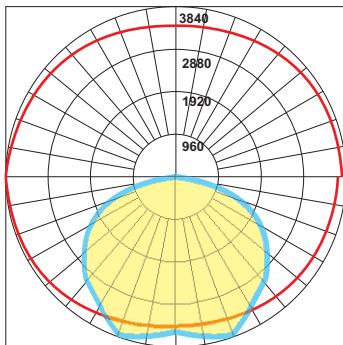
POLAR GRAPH



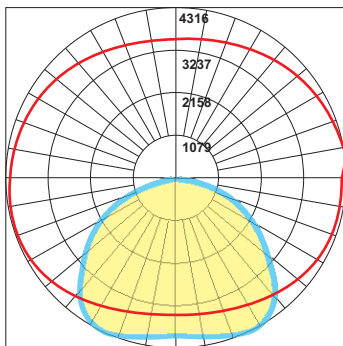
CH08-T120-P



CH08-T150-P



CH08-T200-P



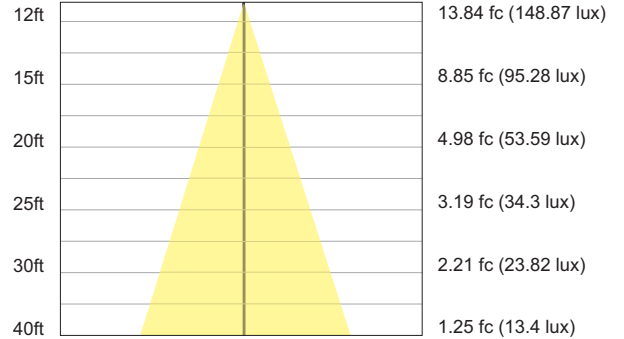
CH08-T250-P

Located At Horizontal Angle = 5, Vertical Angle = 27.5

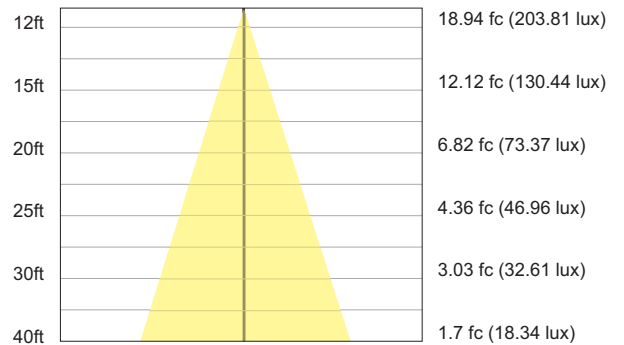
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

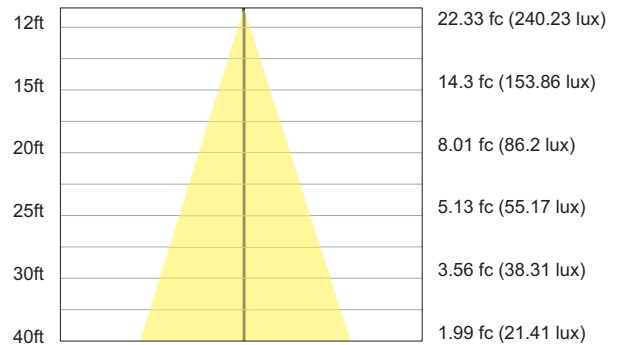
ILLUMINANCE AT DISTANCE



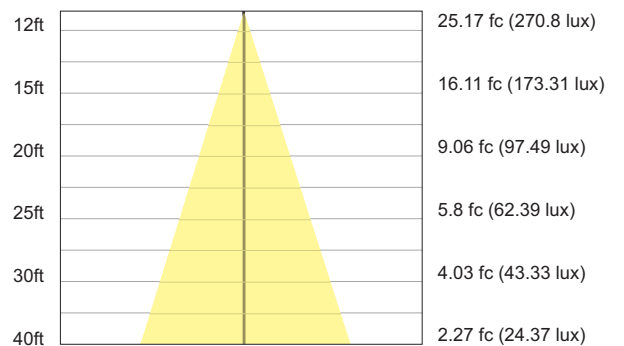
CH08-T120-P



CH08-T150-P



CH08-T200-P



CH08-T250-P