

# IHC LED SERIES LUMAIRES

## HIGH LUMEN OUTPUT HIGH BAY AND FLOODLIGHT — ORDINARY LOCATION

### FEATURES

- Four lumen outputs provide up to 90,000 lumens
- Choice of four optics (Very Narrow, Narrow, Medium and Very Wide) for optimal light distribution in a variety of applications.
- Luminaire can be ordered with Cable or Bracket mounting accessories
- Separate field wiring compartment with screw terminal block for easy and secure connection (can accept 0.14 - 6 mm<sup>2</sup> (26 - 10 AWG) wire)
- Four 3/4 in. NPT side entries provided with three close-up plugs. Optional M20 metric adapters available
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white, or 3000K warm white
- Reported L70 is >60,000 hours at +65°C (+149 °F)
- Rugged housing with superior thermal design translates to long luminaire life
- Heavy duty, high temperature silicone rubber gaskets
- Thermal shock and impact resistant clear polycarbonate lens
- Standard 8 kV/4 kA surge protection
- Captive fasteners secure driver compartment cover
- 0-10 Vdc Dimming standard. See catalog page for dimming and Group Lighting Controls details.
- Field replaceable LED drivers
- Photometric data and electronic drawings available upon request

### WARRANTY

- 10 year standard warranty

### TYPICAL APPLICATIONS

- Powerful, efficient weatherproof lighting for applications such as:
  - Steel Production Plants
  - Power Generation Facilities
  - Foundries
  - Cement, Stone and Sand Plants
  - Pulp and Paper Mills
  - Ship Building and Shipping Ports
  - Hydrogen and Biofuels plants
  - LNG (Liquid Natural Gas) plants
  - Other areas where corrosive, wet, dirty and tough environments are a problem

- High ceilings of 15 meters (50 feet) to greater than 30 meters (100 feet)
- IP66, Type 4X, marine and wet locations
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments
- -40 °C to +75 °C (-40 °F to +167 °F) ambient temperature range
- Globally rated luminaires with all applicable certification labels for NEC, CEC, NOM, IEC, CE and UKCA environments. See catalog pages for details

### LUMINAIRE MATERIALS

- Housing, LED heatsink, and driver compartment cover: copperfree (4/10 of 1% max.) aluminum
- Bracket: zinc plated steel
- Gaskets: silicone rubber
- Exterior hardware: stainless steel
- Close up plugs: aluminum
- Cable mount components: stainless steel
- Safety cable: stainless steel
- Housing, LED heatsink, driver compartment cover and bracket: electrostatically applied gray epoxy powder coat finish

### ACCESSORIES (PURCHASE SEPARATELY)

- Cable Mounting Assembly: IHCCABLE
- Bracket Mounting Kit: IHCBRKTL
- Safety Cable — 1.22 m (4 ft): LEDSC
- Safety Cable — 2.44 m (8 ft): LEDSC8
- Safety Support Hooks: FHLM-75

### NEC/CEC/NOM LISTINGS

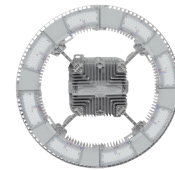
- Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

### IECEE CB LISTINGS

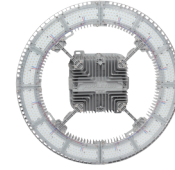
- IK09 | IP66

### NOTABLE LISTINGS

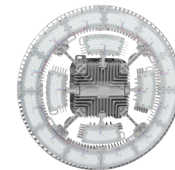
- CE
- UKCA
- ABS Certified
- DLC Listed
- Vibration Rating: 3G, 2 hours, 3 axis at first mode resonant frequency



IHC\*5



IHC\*6 to IHC\*7



IHC\*9

① Refer to catalog pages for detailed certification information.  
 ✪ For warranty details go to [www.appleton.emerson.com](http://www.appleton.emerson.com).

### PRODUCT SPECIFICATIONS

Series * Lumen Output	IHC*5	IHC*6	IHC*7	IHC*9
Nominal Wattage (W, @120 V)	360	420	550	640
Nominal Lumens ①	50,000	60,000	75,000	90,000
Efficacy (up to, lm/W)	140	146	139	144
Color Temperature (CCT) (K)	5000/4000/3000			
Color Rendering index (CRI)	≥ 70 CRI (5000K)   ≥ 80 CRI (4000K / 3000K)			
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc   277-480 Vac, 50/60 Hz			
Dimming	0-10 Vdc standard for all configurations			
Surge Protection	Standard: 8 kV/4 kA   Optional: 10 kV/5 kA and 20 kV/10 kA			
L70 Lifetime (hrs)	+25 °C (+77 °F) Ambient Temperature: Reported > 60,000 hours   Calculated > 173,000 hours +65 °C (+149 °F) Ambient Temperature: Reported > 60,000 hours   Calculated > 163,000 hours			
Ambient Temperature ②	-40 °C to +75 °C (-40 °F to +167 °F)	-40 °C to +70 °C (-40 °F to +158 °F)	-40 °C to +70 °C (-40 °F to +158 °F)	-40 °C to +65 °C (-40 °F to +149 °F)
Fixture Weight - kg (lbs)	26.0 (57.4)	26.9 (59.3)	28.2 (62.2)	32.7 (72.0)
Replaceable Parts	Drivers			

① Nominal lumens based on Type V - Medium optics, 5000K CCT with clear polycarbonate lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for the maximum ambient temperature rating per driver type and voltage range.

# IHC LED SERIES LUMINAIRES

## HIGH LUMEN OUTPUT HIGH BAY AND FLOODLIGHT — ORDINARY LOCATION

Project Information	Specifications
Part Number: _____ Date: _____	_____
Project: _____	_____
Fixture Type: _____	_____

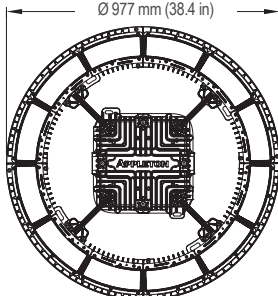
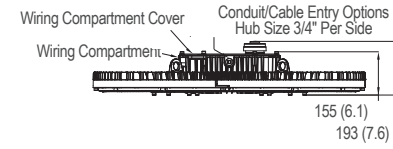
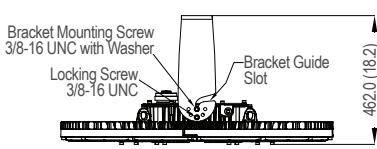
### CATALOG NUMBERING GUIDE

Series Prefix	Mounting	Lumen (nominal)	Hub Size	Color Temperature	Lens Material	Light Distribution Pattern	Voltage	Color	Surge Protection Options	Pre-Wired Options	Control Options
IHC					P			G			

<b>SERIES PREFIX:</b> IHC IHC LED Series	<b>COLOR TEMPERATURE (CCT): ±</b> C Cool, 5000K N Neutral, 4000K W Warm, 3000K	<b>VOLTAGE:</b> BU 120-277 Vac, 50/60 Hz; 125-300 Vdc BH 277-480 Vac, 50/60 Hz ①	<b>PRE-WIRED OPTIONS: ③</b> Blank No Pre-Wired Options P Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D Pre-wired ④ (10 Foot Cord; 5 Conductors; Power and Dimming)
<b>MOUNTING:</b> N No Mount C Cable B Bracket	<b>LENS MATERIAL:</b> P Clear Polycarbonate	<b>COLOR:</b> G Appleton Gray (Standard)	<b>CONTROL OPTIONS:</b> Blank No Controls 5 5 Pin NEMA Socket for Photocontrol (Dimming Capable) Receptacle (120-480V) with Shorting Cap
<b>LUMEN (NOMINAL):</b> 5 50,000 6 60,000 7 75,000 9 90,000	<b>LIGHT DISTRIBUTION PATTERN:</b> V Very Narrow N Narrow M Medium W Very Wide (Non-optic)	<b>SURGE PROTECTION OPTIONS: ②</b> Blank 8 kV Standard 1 10 kV 2 20 kV	
<b>HUB SIZE:</b> 2 3/4" NPT Threaded Entry 0 M20 Metric Adapter			

- ① Select BH for 277 Vac installations in facilities with power quality concerns. BH option designed with high ground fault protection and protects against dropped neutral occurrences.
- ② Additional Surge Protection Certifications:  
10kV BU: NEC, CEC, CE/UKCA  
10kV BH: NEC, CEC  
20kV BU: NEC, CEC, CE/UKCA  
20kV BH: NEC, CEC
- ③ Pre-Wired Options only available per cULus Certification. Options not available per IECEE Certification.
- ④ Pre-Wired Option "D" cannot be selected with Control Option "5".

### DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

<p><b>IHC*5 to IHC*9</b></p> <p>Front</p>  <p style="text-align: center;">Ø 977 mm (38.4 in)</p>	<p>Side — No Mount</p>  <p style="text-align: center;">Wiring Compartment Cover Wiring Compartment Conduit/Cable Entry Options Hub Size 3/4" Per Side</p> <p style="text-align: right;">155 (6.1) 193 (7.6)</p>	<p>Side — With Mount</p>  <p style="text-align: center;">Bracket Mounting Screw 3/8-16 UNC with Washer Locking Screw 3/8-16 UNC Bracket Guide Slot</p> <p style="text-align: right;">462.0 (18.2)</p>
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① Refer to catalog pages or the Product Drawing configurator page for additional dimensional information; available on [www.masteringled.com](http://www.masteringled.com).

