

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Applications

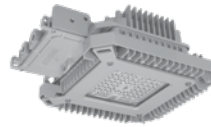
- Powerful, efficient weatherproof lighting for applications such as:
 - Steel Production Plants
 - Power Generation Facilities
 - Foundries
 - Cement, Stone and Sand Plants
 - Pulp and Paper Mills
 - Ship Building and Shipping Ports
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem.
- IP66/IP67, Type 4X, marine and wet locations.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments. -40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range. -40 °C to +55 °C (-40 °F to +131 °F) for high lumen IBHLL3 output.

Features

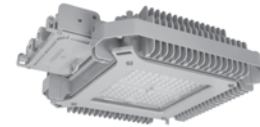
- Six lumen outputs provide up to 38,000 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
9,500	175-250W	IBLL6/ IBLLPL6
15,000	250-400W	IBLL7/ IBLLPL7
19,500	400-750W	IBLL8/ IBLLPL8
24,000	1000W	IBHLL1/ IBHLLPL1
30,000	1000-1500W	IBHLL2/ IBHLLPL2
38,000	1500W	IBHLL3/ IBHLLPL3

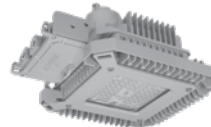
- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire (non Quick Mount version only).
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapters available. (Three close-up plugs provided when quick mount pendant system is ordered).
- Unique quick mount pendant system allows for easy prewiring without supporting the High Bay in place. Quick mount adapter hood includes one 3/4" NPT entry.
- Alternate mounting system allows for "Y" cable mount and easy wiring via a separate field wiring compartment with a screw terminal block.
- Floodlight mounting achieved by using Areamaster Generation 2 LED yoke bracket.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, or 3000K (80 CRI) warm white.
- Reported L70 is > 60,000 hours @ +65°C (+149 °F).
- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- Captive fasteners secure one-piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.
- 5 year standard warranty. 10 year limited warranty for select part number configurations.



IBLL — Clear Lens



IBHL — Frosted Lens



IBLLP — Frosted Lens



IBHLP — Clear Lens

Options

- Improved safety cable design with multiple retention points, purchase separately.
- Guard and visor available, *purchase separately*.
- Y mount cable assembly, *purchase separately*.
- Drain assembly, *purchase separately*.
- 10 kV/5 kA Surge Protection.

Standard Materials

- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided (Non Quick Mount version)
- Guard and safety cable: stainless steel

Standard Finishes

- Housing, lens cover, quick mount body and hood; baked gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standards: UL1598; UL1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0
- cCSAus 164460 Certificate Number: IBLL – 70073607, IBHL – 70073608
- cETLus 104364566CHI
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency (IBLL and IBHLL models only)

NOM: Norma Oficial Mexicana

- NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
- NOM Certificate: ULM-NOM-09900

IECEE CB Certificates and Compliances

- IEC 60598-1, IEC 60598-2-1
- IECEE CB Certificates: CB 164460-80075818
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

CE and UKCA Marking

- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

① Nominal lumen value for 5000K, Medium Beam, with clear glass. Detailed lumen information provided in tables.

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ABS Certifications

- IBLL: 18-HS1714277-PDA
- IBHL: 18-HS1714279-PDA

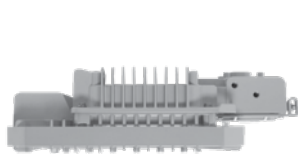
DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

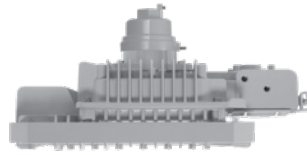
- Baymaster and High Lumen LED Luminaires

Illustrated Features



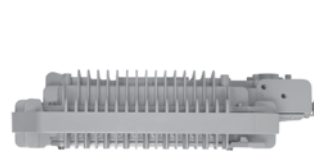
IBLL

9K, 15K, 19K Lumens with standard mounting



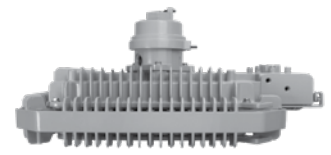
IBLLP

9K, 15K, 19K Lumens with quick mount pendant option



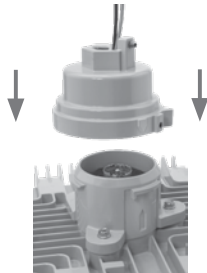
IBHL

24K, 30K, 38K Lumens with standard mounting



IBHLP

24K, 30K, 38K Lumens with quick mount pendant option



Quick Mount Pendant System

The Appleton patented quick mount pendant system allows for easy prewiring of a hood for quick, one person fixture installation. Simply align the arrows, push up, and rotate the luminaire a quarter turn until it locks into place. Specify quick mount pendant with a "P" in the fifth digit of the part number.



Cable Mount Option

The Baymaster High Bay can also be mounted with two Y style aircraft cables with spring clips, secured to eye bolts on the luminaire housing. Non quick mount models can be cable mounted and are wired through the 3/4" NPT entries in the wire box.



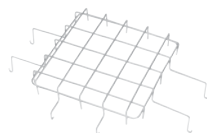
Driver Assembly

Replaceable drivers are waterproof (IP67) and offer standard 6 kV surge protection and over temperature protection.



Optional Wire Guard

Stainless steel wire guard can be used for additional protection.



Optional Drain Assembly

Includes 228.6 mm (9" long), 1/2" trade size conduit nipple, elbow and drain.



Optional Fusing *

Luminaire can be ordered with optional fusing. Fusing is not field installable.

Replaceable Cover Assembly

The replaceable cover assembly is available with clear or frosted glass.

* Use of fuse voids marine rating.

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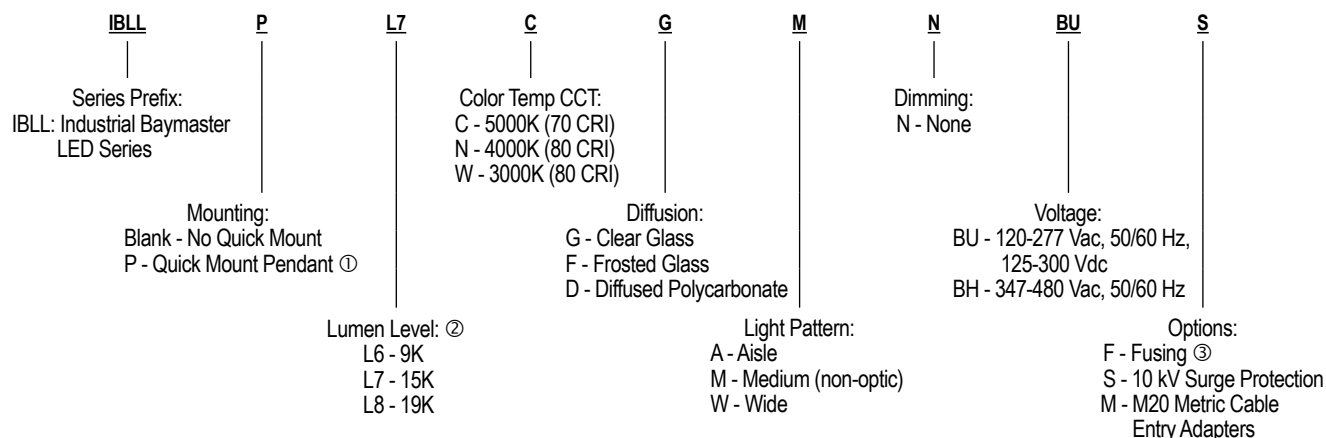
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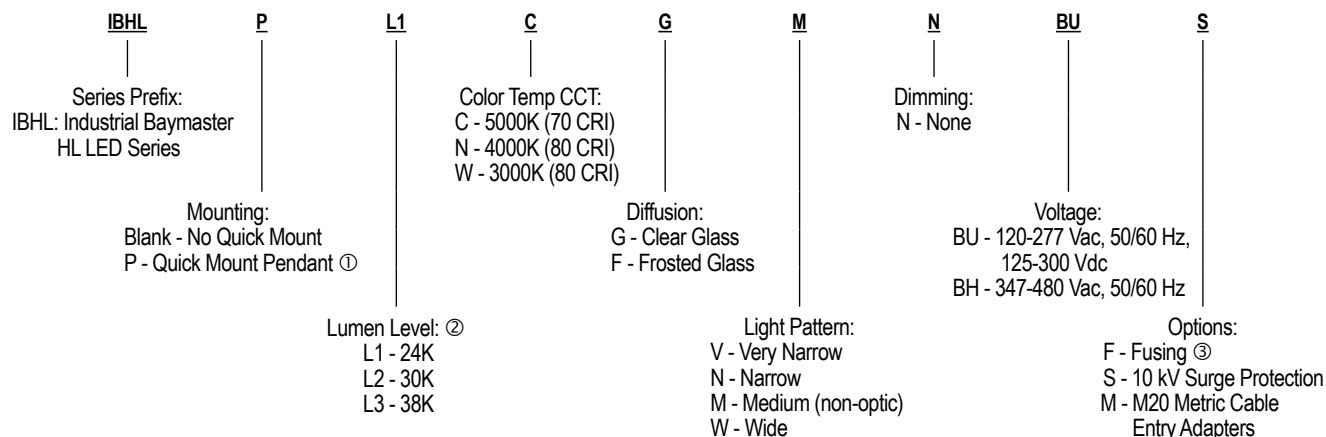
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Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Order Using Catalog Numbering Guide — Industrial Baymaster™ LED Series Luminaires — Low Lumen Model



Order Using Catalog Numbering Guide — Industrial Baymaster™ LED Series Luminaires — High Lumen Model



① Quick mount pendant includes pre-wired, factory installed, quick mount pendant body and hood. Models without the quick pendant mount are wired through the 3/4" NPT entries and a provided screw terminal block in the wiring compartment.

② All lumen values are typical (tolerance +/- 10%).

③ Use of fuse voids Marine rating.

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Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
IBLL6 IBLLPL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
IBLL7 IBLLPL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
IBLL8 IBLLPL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
IBHLL1 IBHLPL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
IBHLL2 IBHLPL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
IBHLL3 IBHLPL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

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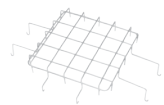
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Accessories and Replacement Parts

	Description	Weight in kg (lb)	Catalog Number
Quick-Connect Pendant Hood Replacement			
	Baymaster Quick-Connect Pendant Hood Replacement	0.4 (0.9)	BMQCPH
Guard			
	Stainless steel	0.2 (0.4)	LGGUARD LHGUARD
Safety Cable			
	Stainless steel	0.2 (0.4)	LEDSC
Drain			
	228.6 mm (9" long), 1/2" trade size drain assembly for use with quick mount pendant hood	0.5 (1.2)	LEDDR9
Y Mounting Cable			
	1.5 m (5 ft.) cable mount — stainless steel Includes two (5 ft.) Y cables with spring clips and four eye bolts	0.5 (1.2)	LEDC5
Safety Support Hooks			
	3/4 inch Male Hanger Loop 5/8 inch diameter wireway 75.4 kg (166 lbs.) weight rating	0.2 (0.5)	FHLM-75
Replacement Covers/Lenses			
	Clear Glass — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	2.2 (4.8)	BLLCLEAR
	Frosted Glass — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	2.0 (4.5)	BLLFROST
	Diffused Polycarbonate — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	1.6 (3.5)	BLLDIFFP
	Clear Glass — IBHL1/IBHLPL1, IBHL2/IBHLPL2, IBHL3/IBHLPL3	2.4 (5.3)	BHLCLEAR
	Frosted Glass — IBHL1/IBHLPL1, IBHL2/IBHLPL2, IBHL3/IBHLPL3	2.4 (5.3)	BHLFROST

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Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number
	Low Lumen Model				
	IBLL6C/ IBLLPL6C, IBLL6N/ IBLLPL6N, IBLL6W/ IBLLPL6W	BU BH	100 Watt	410mA	APMS100C105UD41 APMS100C105HD41
	IBLL7W/ IBLLPL7W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65
	IBLL7C/ IBLLPL7C, IBLL7N/ IBLLPL7N	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68
	IBLL8W/ IBLLPL8W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89
	IBLL8C/ IBLLPL8C, IBLL8N/ IBLLPL8N	BU BH	150 Watt	930mA	APMS150C105UD93 APMS150C105HD93
	High Lumen Model				
	IBHLL1C/ IBHLLPL1C, IBHLL1N/ IBHLLPL1N, IBHLL1W/ IBHLLPL1W	BU BH	100 Watt	530mA	APMS100C105UD53 APMS100C105HD53
	IBHLL2W/ IBHLLPL2W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65
	IBHLL2C/ IBHLLPL2C, IBHLL2N/ IBHLLPL2N	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68
	IBHLL3W/ IBHLLPL3W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89
	IBHLL3C/ IBHLLPL3C, IBHLL3N/ IBHLLPL3N	BU BH	150 Watt	915mA	APMS150C105UD91 APMS150C105HD91

Luminaire Weights

Description	Weight in kg (lbs)
Low Lumen Model — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8 Luminaires	9.8 (21.6)
High Lumen Model — IBHLL1/IBHLLPL1, IBHLL2/IBHLLPL2, IBHLL3/IBHLLPL3 Luminaires	16.1 (35.4)

LED Luminaires | High Bay | Ordinary Location | NEC / CEC

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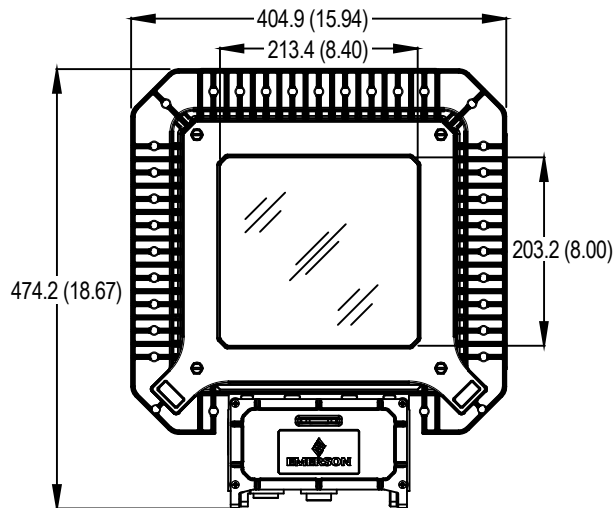
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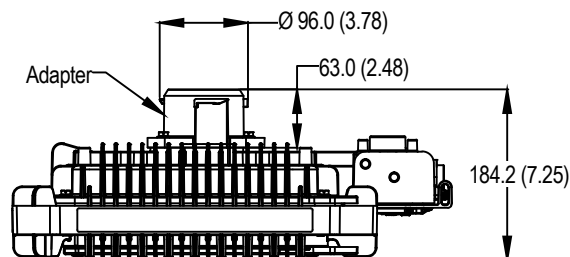
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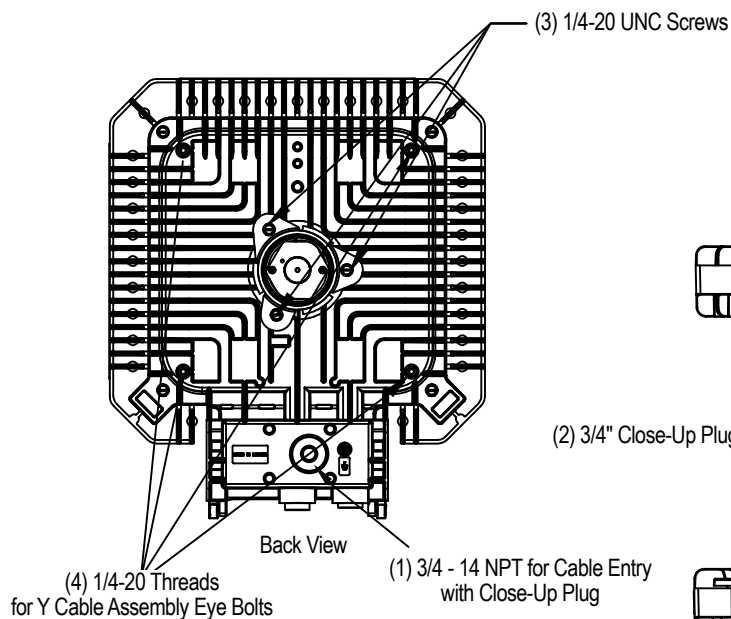
IBHLP Dimensions in Millimeters (Inches) — High Bay — With Quick Mount Pendant System — High Lumen Model



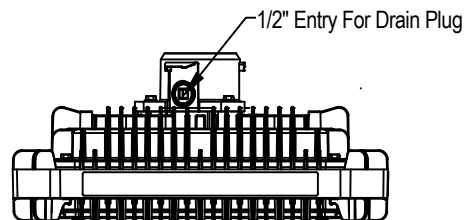
Front View



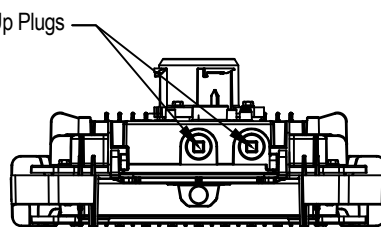
Side View



Back View



Top View



Bottom View

(1) 3/4 - 14 NPT
FOR CABLE ENTRY WITH
CLOSE-UP PLUG