Enclosed and Gasketed Fixtures

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ##† IECEE CB: IK08 Markings: CE | UKCA

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of harsh industrial environments
 - Marine and wet locations
 - Wall mounted luminaire suitable for areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Typical applications include:
 - Walkways/catwalks/stairwells
 - Grain elevators
 - Tunnels
 - Pipe racks
 - Processing areas
 - Hvdrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Compact light weight design
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white, 3000K warm white, or 1800K high pressure sodium (70 CRI min), vellow amber.
- Customize to the application requirements with two different globe options: diffused polycarbonate, clear glass.
- Two light output levels for retrofit of HID fixtures up to 250W:

Nominal Lumens ①	HID Equivalent	Model
4200	70-100W	IMLTCL3
6800	175-250W	IMLTCL7

- ① Nominal Lumen value. Detailed lumen information is provided in tables.
- · Hinge has high lip for added safety during installation and servicing.
- Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Rugged housing with superior thermal design translates to long luminaire life.
- Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment.
- Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression.
- Standard 6 kV surge protection.
- Voltages:
 - DŬ: 100-277 Vac or 125-300 Vdc
- D2: 24-48 Vdc
- · Ambient Temperature:
 - Standard: -40 °C to +65 °C (-40 °F to +149 °F)
 - Cold temperature option: -50 °C to +65 °C (-58 °F to +149 °F)
- Heavy duty, high temperature silicone rubber gaskets.
- Reported L70:

+25 °C (+77 °F)	Reported	> 60000		
	Calculated	> 200000		
. CE °C (. 140 °F)	Reported	> 60000		
+65 °C (+149 °F)	Calculated	> 200000		

- Spring-loaded screw-type terminal block can accept 0.14 6 mm² (26 - 10 AWG) wire.
- Field replaceable lens, LED driver.
- Photometric data and electronic drawings available upon request.
- † May be subject to revision.
- ₩ Use of fuse voids Marine Outside Type (Salt Water) rating.
- For warranty details go to www.appleton.emerson.com.



Warranty [©]

5 year standard warranty.

Controls

- · Dimming:
 - Industrial HB LED Multilens Bulkhead offers a two-wire, 0-10V variable dimming input port for controlling the light output:
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output.
- · Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster™ Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Industrial Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- Globe guard available, purchase separately.
- · Safety cable available, purchase separately.
- M20 reducer available, purchase separately.

Standard Materials

- Mounting hoods and driver housing: cast copperfree (4/10 of 1% max.) aluminum
- · Globe: polycarbonate or glass
- · Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- · Globe guard: stainless steel wire

Standard Finishes

 Mounting hoods and driver housing: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598; UL 8750
- CSA Standard: C22.2 No. 250.0-08; C22.2 No. 250.13-17
- NEMA ANSI/IEC Standard: 60529
- cCSAus: 164460. Certificate Number: 70129363



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IECEE CB Certificates and Compliances

- IEC 60598-1, IEC 60598-2-1
- IECEE CB Certificates: 64460-80075816
- Photobiological Safety, IEC 62778 and IEC 62471

CE and UKCA Marking

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

Related Products

- HB LED Multilens Bulkhead Luminaires
- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires

Illustrated Features





Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster Connect LED integrated dimming controller by daisy chaining the dimming leads from the group of lights.



Latch Assembly and Hinge:

Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swingaway design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.





Field Replaceable Parts:

Replacement glass and polycarbonate globes and drivers available — allowing for easy maintenance.



Safety Cable (optional):

Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

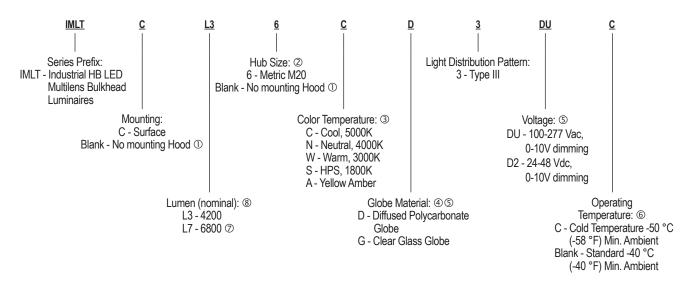
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Order Using Catalog Numbering Guide — Industrial HB LED Multilens Bulkhead Luminaires



- ① Select this option if ordering mounting hood KPCM20MLT separately.
- The luminaire includes (5) 3/4"NPT hub and (1) M20 reducer. It ships with the driver housing and the bulkhead mount hood individually packaged.
- Other CCT options available upon request. Contact your local sales representative for more information.
- Guards for the globes are ordered separately. See the Accessories for more information.
- © Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for DU voltage models at standard temperature and 0% to 100% dimming curve for D2 voltage or cold temperature models.
- © Cold temperature option is available for use with 120-277 Vac.
- ® For lumen output information, see Lumen Output (Efficacy) Table.
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Lumen Output (Efficacy) ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	ССТ	CRI	Lumen Output	Efficacy (Im/W)	ССТ	CRI	Lumen Output	Efficacy (lm/W)
Diffused	Polycarbonat	e Globe												
IMLTCL3	70-100W	Type III	3000K	80	3300	106	4000K	80	3500	113	5000K	70	3900	126
IMLTCL7	175-250W	Type III	3000K	80	5600	110	4000K	80	5800	114	5000K	70	6300	124
IMLTCL3	70-100W	Type III	1800K	70	2800	82	Amber	N/A	2500	74				
IMLTCL7	175-250W	Type III	1800K	70	4900	98	Amber	N/A	4300	86				
Clear Gla	ss Globe													
IMLTCL3	70-100W	Type III	3000K	80	3500	113	4000K	80	3700	119	5000K	70	4200	135
IMLTCL7	175-250W	Type III	3000K	80	6000	118	4000K	80	6200	122	5000K	70	6800	133
IMLTCL3	70-100W	Type III	1800K	70	3000	88	Amber	N/A	2600	76				
IMLTCL7	175-250W	Type III	1800K	70	5300	106	Amber	N/A	4700	94				

Electrical Specifications ①

Model	Operating Temperature	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)	
		100 Vac	32	0.32	- >0.9	< 20%	
		277 Vac	32	0.12	- >0.9	< 20%	
	-40 °C to +65 °C	125 Vdc	32	0.25	- N/A	N/A	
	(-40 °F to +149 °F)	300 Vdc	32	0.10	IN/A	N/A	
IMLTCL3		24 Vdc	27	1.20	- N/A	N/A	
IIVILIOLO		48 Vdc	27	0.60	IN/A	IVA	
		24 Vdc	27	1.20	- N/A	N/A	
	-50 °C to +65 °C (-58 °F to +149 °F)	48 Vdc	27	0.60	IN/A	IN/A	
		120 Vac	32	0.32	- >0.9	< 20%	
		277 Vac	32	0.12	~0.9 		
	-40 °C to +60 °C	100 Vac	53	0.52	- >0.9	< 20%	
		277 Vac	53	0.19	~0.9		
	(-40 °F to +140 °F)	125 Vdc	53	0.41	- N/A	N/A	
		300 Vdc	53	0.17	IN/A	IN/A	
IMLTCL7	-40 °C to +65 °C	24 Vdc	46	1.87	- N/A	N/A	
IIVILI OLI	(-40 °F to +149 °F)	48 Vdc	46	0.92	IN/A	IN/A	
	-50 °C to +60 °C	24 Vdc	46	1.87	- N/A	N/A	
	(-58 °F to +140 °F)	48 Vdc	46	0.92	IN/A	IWA	
	-50 °C to +65 °C	120 Vac	53	0.52	- >0.9	< 20%	
	(-58 °F to +149 °F)	277 Vac	53	0.19	70.3	~ 20 /0	



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

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Effective Projected Area Calculations for Outdoor Luminaires

Luminaire		Effective Projected Area (EPA) = FPA*DC ft²
IMLTC	Wind Direction	0.91

Accessories and Replacement Parts

710000001100 4114 110	Accessories and replacement raits						
	Description	Weight in kg (lbs)	Catalog Number				
Surface — Five Hubs, Four Close-Up Plugs							
	M20	1.4 (3.0)	KPC-M20-MLT				
Globes							
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF				
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS				
Adapter							
	3/4" NPT to M20 Reducer	0.09 (0.2)	737DT2M25				
Guard							
	Globe Guard — Stainless Steel	0.2 (0.4)	MGU1				
Safety Cable							
0	Safety Cable — Stainless Steel	0.2 (0.4)	LEDSC				

Replacement Drivers

	Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
		-40 °C to +65 °C	DU	50 Watt	ALL	500mA	APMS050C135UD50
	IMLTCL3	(-40 °F to +149 °F)	D2	30 vvali	ALL	JOUINA	APMZ050C130DC50
	IIVILTOLO	-50 °C to +65 °C (-58 °F to +149 °F)	DU	50 Watt	ALL	500mA	APMZ050L135UD50
			D2 So wall	ALL	JOOITIA	APMZ050C130DC50	
	IMLTCL7	-40 °C to +60 °C (-40 °F to +140 °F)	DU	50 Watt	ALL	825mA	APMS050C135UD82
		-40 °C to +65 °C (-40 °F to +149 °F)	D2	50 Watt	ALL	825mA	APMZ050C130DC82
		-50 °C to +60 °C (-58 °F to +140 °F)	DU	50 Watt	ALL	825mA	APMZ050L135UD82
		-50 °C to +65 °C (-58 °F to +149 °F)	D2	50 Watt	ALL	825mA	APMZ050C130DC82

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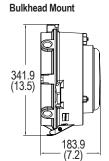


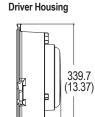
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Dimensions in Millimeters (Inches)





154.4 (6.08)

Luminaire Weights

Description	Weight in kg (lbs)
Driver Housing	4.6 (10.10)
Bulkhead	6.0 (13.23)

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Photometric Data — DATA SHOWN IS ABSOLUTE

Type III, Clear Glass, 5000K CCT, 3500 Lumens

REPORT NUMBER: IMLTL3CG3DU

Luminaire Lumens 4431

Type III, Diffused Polycarbonate, 5000K CCT, 3500 Lumens

REPORT NUMBER: IMLTL3CD3DU

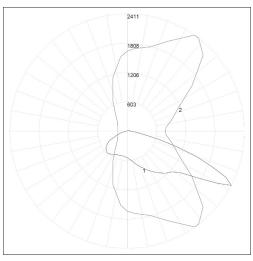
Luminaire Lumens 4078

POLAR CANDELA DISTRIBUTION



Maximum Candela = 3116.4 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5 #1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.) #2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

POLAR CANDELA DISTRIBUTION



Maximum Candela = 2411.15 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5 # 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

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