Industrial Mercmaster™ LED Generation 3 Series Luminaires

For Ordinary Locations

NEC/CEC:
 cULus Listed
 Type 3R, 4, 4X
 IP66/IP67
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water) for USA only

Applications

- Powerful, efficient weatherproof lighting suitable for use in:
  — Warehouses
  — Storage facilities
  — Machine shops
  — Receiving areas
  — Manufacturing plants
  — Walkways and catwalks
  — Locations requiring IP66, Type 4X, marine and wet location
  — Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments
  — Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical harsh industrial environments include:
  — Power generation plants
  — Foundries
  — Waste and sewage treatment plants
  — Steel and other metal processing facilities
  — Pulp and paper mills
  — Processing plants
  — Other areas where dust, water, dirt and rough usage are a problem

Features

- Modular design provides thousands of combinations for maximum versatility.
- Design is suited for low mounting heights, from 7 ft., up to 30 ft.
- Seven light outputs provide up to 17,500 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
3500	70-100W	IMLGL3
5500	100-150W	IMLGL5
7500	175-250W	IMLGL7
9500	250-350W	IMLGH9
11,500	350-400W	IMLGH1
14,500	400W	IMLGH3
17,500	400-600W	IMLGH6

① *Nominal lumen value for 5000K, clear glass globe*
 Type V wide. Detailed lumen information is provided in tables.

- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Six standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III.
- Retrofit adapters for Crouse-Hinds™ hoods available. See Mercmaster™ CH Adapters.
- Retrofit adapters for Mercmaster™ II hoods available. See Mercmaster™ II Adapters.
- 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 installation.
- Rugged housing with superior thermal design translates to long luminaire life.
- Luminaire housing has wiring compartment with terminal block separate for easy wiring access.

IMLGL   **IMLGH**

- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Standard 6 kV surge protection.
- Heavy duty, high temperature silicone gaskets.
- Photometric data and electronic drawings available upon request.
- Ambient Temperature: -40 ˚C to +65 ˚C (-40 ˚F to +149 ˚F)
- Standard NPT threads with M20 option.
- LED L70 reported at 60,000 hours.
- Field replaceable globes and LED driver.

Options

- Globe and refractor guards available, purchase separately
- Safety cable available, purchase separately
- All Mercmaster™ luminaires have provision for fusing; add suffix –**F** at the end of the catalog number.
- Photocontrols are available and are configured to your operating voltage. Add suffix -**1** for 120V, -**2** for 208V, -**3** for 240V, -**4** for 277V.
- Drain is available to divert water existing in the conduit system, purchase separately.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Glass globe guard and safety cable: stainless steel wire
- Glass refractor guard: die cast aluminum

Standard Finishes

- Mounting hoods, bodies and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

Related Products

- Mercmaster™ LED Generation 3 Luminaries
- Mercmaster™ LED Low Profile Luminaires
- Mercmaster™ LED Mounting Adapters

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598; UL 50E; UL1598A; UL 8750
- CSA Standard: C22.2 No. 250.0; C22.2 No. 250.13; C22.2 No. 94.2; C22.2 No. 0; C22.2 No. 60529
- NEMA ANSI/IEC Standards: 60529
- cCSAus: 164460, Certificate Number: 70129364

Design Lights™ Consortium

- Pending.

EMERSON

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LED Flexibility and Modular Design

Type I - Long and narrow distribution pattern designed with walkways in mind.

Type III - Wall mounted distribution pattern designed where you need good forward light projection.

Type V - Symmetrical circle distribution pattern ideal when you need even coverage in all directions.

Type V Wide - Like the Type V distribution pattern with more vertical lumens designed to help spread the light quicker and more outwards.

Choose from **three color temperatures** (CCT): 3000K, 4000K, and 5000K
Four light distribution patterns: Type I, Type III, Type V and Type V wide for application flexibility.
Six mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.
Four globes; clear and diffused polycarbonate, clear glass globe, and prismatic refractor provide just the right level of diffusion.

Safety Features

Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres.

Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.
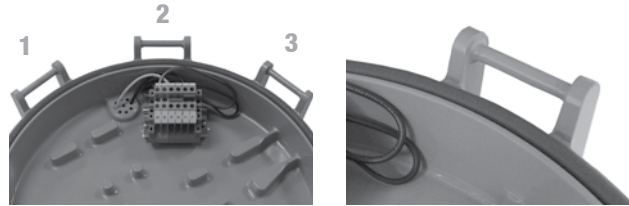
Designed for the Environment

Driver housing design incorporates separate sections for the terminal block and driver.

The efficient thermal design ensures reliable heat transfer from the LED assembly out via the heatsink and
the cast, epoxy powder coat, aluminum body.

Type I & Type III Hinge System

Type I & Type III light distribution patterns use a multiple hinged housing design which allows you to correctly line up the beam pattern in your desired direction. By using one of the three available hinges you can position the fixture for optimal light output.

Safety Cable

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.
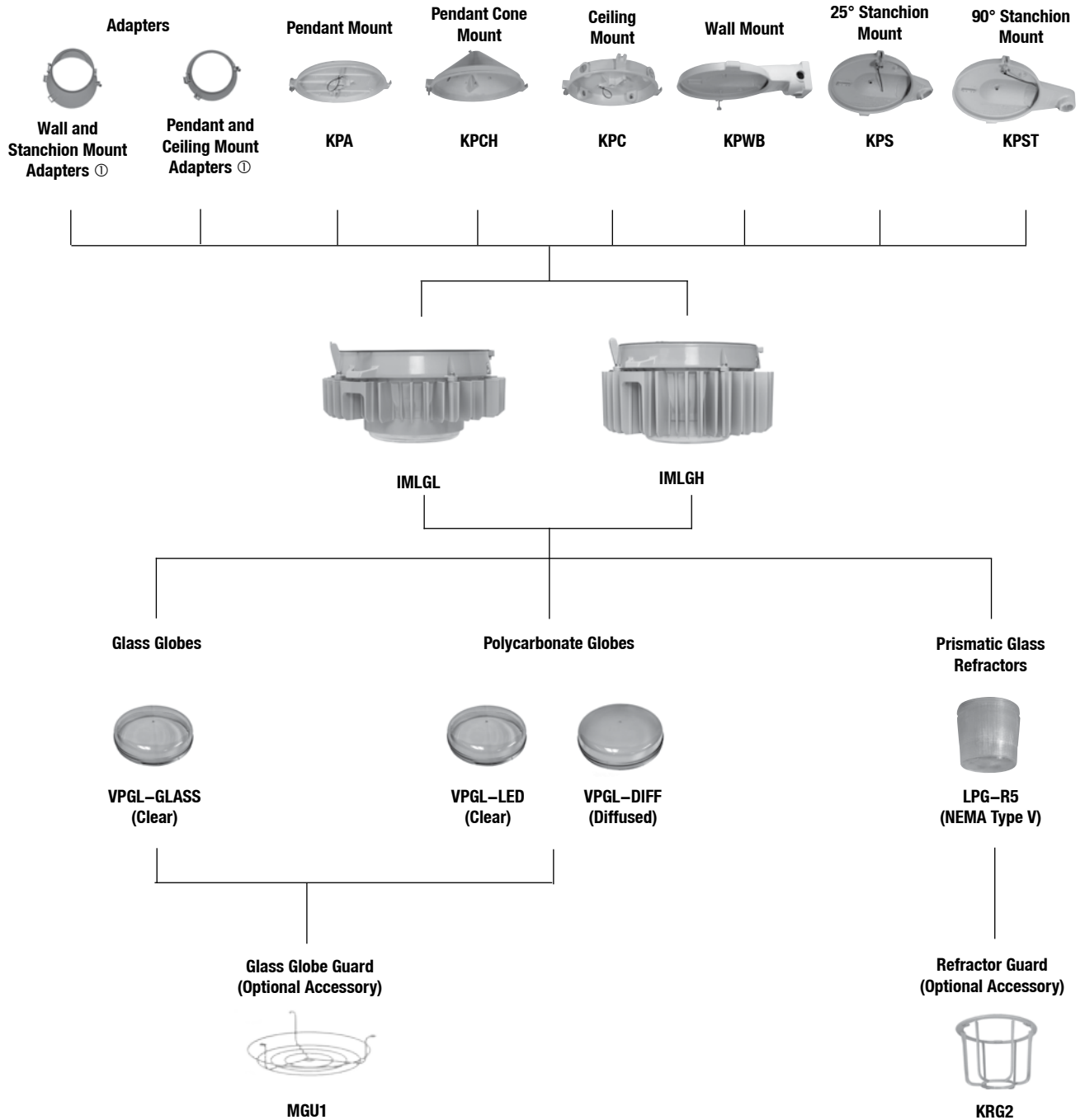
NEC/CEC ENCLOSED AND GASKETED – AREA

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Mercmaster™ LED Family Tree

Adapters		Pendant Mount	Pendant Cone Mount	Ceiling Mount	Wall Mount	25° Stanchion Mount	90° Stanchion Mount
Wall and Stanchion Mount Adapters ①	Pendant and Ceiling Mount Adapters ①	KPA	KPCH	KPC	KPWB	KPS	KPST

IMLGL   IMLGH

Glass Globes	Polycarbonate Globes		Prismatic Glass Refractors
VPGL–GLASS (Clear)	VPGL–LED (Clear)	VPGL–DIFF (Diffused)	LPG–R5 (NEMA Type V)

Glass Globe Guard (Optional Accessory)

MGU1

Refractor Guard (Optional Accessory)

KRG2

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① *See mounting hood section for part numbers.*

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