

## INDUSTRIAL MERCMASTER™ LED LOW PROFILE LUMINAIRES

### SUITABLE LOCATIONS AND APPLICATIONS

- Suitable for use in:
  - A wide range of industrial, marine and wet location applications
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - General-purpose task lighting
  - Tunnels
  - Platforms
  - Loading areas
  - Conveyors

### FEATURES

- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ LED and Mercmaster™ Generation 3.
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Retrofit adapters for Crouse Hinds™+ hood available. See Mercmaster™ Retrofit Adapters.
- Retrofit adapters for Mercmaster™ II hoods available. See Mercmaster™ Retrofit Adapters.
- Retrofit Adapters for Killark™◇ hood available. See Mercmaster™ Retrofit Adapters.
- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70–100W	IMLLED2CG5BU
4400	100–150W	IMLLED3CG5BU
5500	150–175W	IMLLED4CG5BU

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

② Factory installed. (For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire).

③ Available for 120-277 Vac models only. NEC, Class I, Division 2 photocells for classified use are available, see PCD2 Series.

◇ Killark is a registered trademark of Hubbell Incorporated

+ Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.

- 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.
- Standard 6 kV surge protection.
- Ambient Temperature: BU: -40 °C to +65 °C (-40 °F to +149 °F) BH: -40 °C up to +65 °C (-40 °F up to +149 °F).
- Standard screw-type terminal block can accept UL/CSA 26–10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- Standard NPT threads.
- LED L70 rated at 109,000 hours and a calculated fixture life of over 200,000 hours at 25 °C (77 °F).
- Field replaceable globes and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.

### OPTIONS

- Glass globe and glass refractor guard available, purchase separately.
- All Mercmasters have provision for fusing; add suffix -F at the end of the catalog number.
- Photocontrols are available with all except ceiling and pendant cone mounting hoods ②. Add suffix -1 for 120V, -2 for 208V, -3 for 240V, -4 for 277V. ③

### STANDARD MATERIALS

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

### STANDARD FINISHES

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

### RELATED PRODUCTS

- Mercmaster™ Retrofit Adapters
- Mercmaster™ III Products
- Mercmaster™ Generation 3 Products

### DESIGN LIGHTS™ CONSORTIUM

- Pending

### ACCESSORIES

- Safety Cable - LEDSC
- Refractor Guard - KRG2
- Globe Guard - MGU1
- Angled Reflector - CMR4AN
- Visor - MMVISOR

APPLETON™

  
EMERSON™

CONSIDER IT SOLVED™

**NEC/CEC RATINGS**

- cCSAus Listed
- Suitable for use in Wet Locations
- Marine Outside Type (Salt Water) For USA ONLY
- Type 3R, 4 and 4X
- IP66/IP67

**NEC/CEC CERTIFICATIONS AND COMPLIANCES**

- UL Standards: UL1598, UL8750
- CSA Standards: C22.2 No. 250.0 – 08; C22.2 No. 250.13 – 14
- NEMA, ANSI/IEC Standard: 60529
- cCSAus Listed: Master Contract 164460, Certificate Number 70129363
- American Bureau of Shipping (ABS) Certified
- International Dark Sky (IDA) Approved ⑦

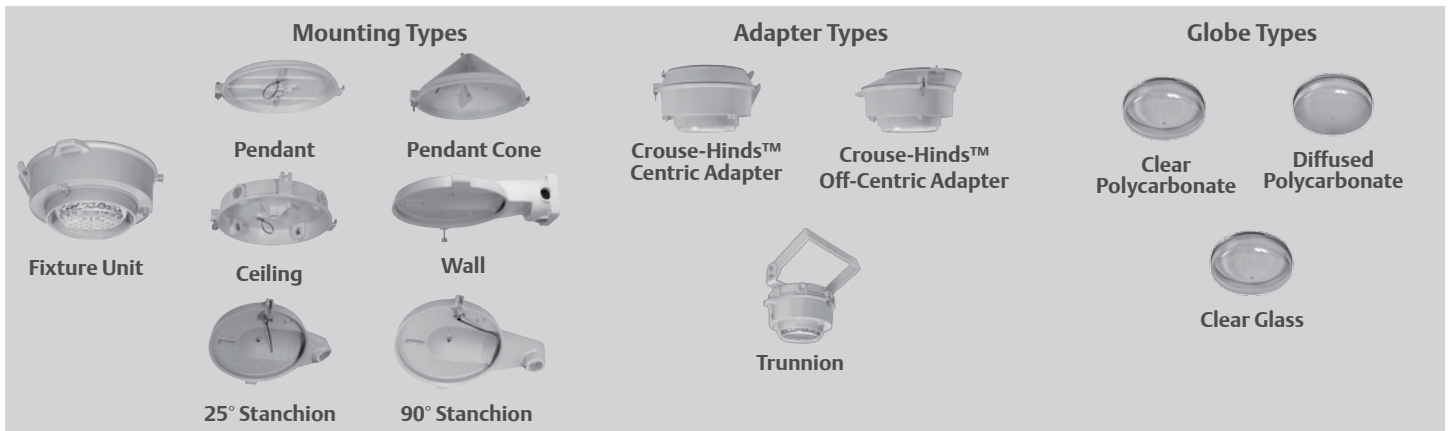
<p><b>IMLLED</b></p> <p>Series: IMLLED: Industrial Mercmaster™ LED Low Profile Series</p>	<p><b>A</b></p> <p>Mounting:</p> <p>A - Pendant B - Watertight Pendant hood C - Ceiling ① D - Pendant Cone Hood ① R - 90° Stanchion S - 25° Stanchion T - Trunnion W - Wall K - Killark™ Adapter Universal X - Crouse-Hinds Adapter, Centered Y - Crouse-Hinds Adapter, Off-set U - Mercmaster™ II Adapter, Ceiling or Pendant V - Mercmaster™ II Adapter, Stanchion or Wall Blank - Ballast housing only (no mounting hood)</p>	<p><b>4</b></p> <p>Lumen Output ②:</p> <p>2 - 3K Lumens 3 - 4K Lumens 4 - 5K Lumens</p>	<p><b>2</b></p> <p>Hub Size:</p> <p>2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion Blank - No Hub Required - Adapters, or No Mounting Hood</p>	<p><b>C</b></p> <p>Color Temperature:</p> <p>C - Cool, 5000K CCT N - Neutral, 4000K CCT W - Warm, 3000K CCT</p>	<p><b>J5</b></p> <p>Globe Type:</p> <p>P5 - NEMA Type V Clear Polycarbonate Globe D5 - NEMA Type V Diffused Polycarbonate Globe G5 - NEMA Type V Glass Globe ③ J5 - NEMA Type V Glass Refractor ④</p>	<p><b>BU</b></p> <p>Voltage:</p> <p>BU - 125-300 Vac, 50/60Hz or 125-300 Vdc BH - 347-480 Vac, 50/60Hz</p>	<p><b>F</b></p> <p>Fusing:</p> <p>F - Fusing ④ Blank - No fusing</p>	<p><b>1</b></p> <p>Photocontrol:</p> <p>1 - Photocontrol 120V ⑤ 2 - Photocontrol 208V ⑤ 3 - Photocontrol 240V ⑤ 4 - Photocontrol 277V ⑤ Blank - No photocontrol</p>
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**Example part number: IMLLEDA42CJ5BU1**

This is an Industrial Mercmaster™ LED Low Profile Series luminaire with a pendant mount, 5000 lumen output, 3/4" NPT hub size, 5000K CCT color temperature, with a NEMA Type V Glass Refractor globe. The voltage is 125–300 Vdc, 50/60Hz. It has a 120V photocontrol.

	IMLLED2			IMLLED3			IMLLED4		
	BU			BU			BU		
<b>Voltage Range</b>	BU: 120–277 Vac, 125–300 Vdc, 50/60Hz			BH: 347–480 Vac, 50/60Hz					
<b>Input Power (@ 120V)</b>	28W			38W			48W		
<b>Color Temperature (CCT)</b>	5000K	4000K	3000K	5000K	4000K	3000K	5000K	4000K	3000K
– P5 Lumens	3200	3000	3000	4200	4000	3900	5300	5000	4900
– D5 Lumens	3100	2900	2900	4100	3900	3800	5150	4900	4800
– G5 Lumens	3300	3100	3100	4400	4200	4100	5500	5200	5100
– J5 Lumens	3000	2800	2800	4000	3800	3700	4900	4650	4600
<b>Line Current</b>	0.28 @ 120V 0.13 @ 277V	0.1 @ 347V 0.06 @ 480V		0.38 @ 120V 0.16 @ 277V	0.13 @ 347V 0.08 @ 480V		0.48 @ 120V 0.20 @ 277V	0.16 @ 347V 0.10 @ 480V	
<b>Ambient Temperature</b>	-40 °C to +65 °C (-40 °F to +149 °F)								
<b>CCT/CRI</b>	5000K, 4000K, 3000K/70 CRI								
<b>Fixture Weight</b>	10.1 lb. (without hood)								
<b>Warranty</b>	60,000+ hours; 5 years								

① Ceiling and pendant cone hood mounted luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.  
 ② For specific lumen output information, see Lamp Comparison Chart in Mercmaster™ Low Profile LED catalog pages.  
 ③ Guards for the glass refractors and globes are ordered separately. See Mercmaster™ Low Profile LED Catalog pages.  
 ④ Factory installed.  
 ⑤ Luminaires with photocontrol are not rated IP66, Marine Outside Type (Salt Water), or Photocontrol available for 120-277 Vac only.  
 ⑥ 3/4" NPT, 1" NPT and Metric M20 hub entries not offered in this mounting option.  
 ⑦ IDA Dark Sky Approved when ordering [I]MLLED[A/B/C/D/R/W]xxW[P/D/G]5Bxxx with MMVISOR accessory



**APPLETON™ INDUSTRIAL MERCMASTER™ LED LOW PROFILE EMERGENCY BATTERY BACKUP LUMINAIRES**

**SUITABLE LOCATIONS AND APPLICATIONS**

- Enclosed and gasketed fixtures suitable for use in:
  - A wide range of industrial, chemical processing and other areas where flammable gases, vapors, and dusts are present
  - Marine and wet locations
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - Tunnels
  - Pipe racks
  - Vessel lighting
  - Processing areas

**FEATURES**

- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70–100W	IMLLED2
4400	100–150W	IMLLED3
5500	150–175W	IMLLED4

- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.

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

- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ Premium LED and Mercmaster™ LED Generation 3.
- Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate and clear glass.
- Provides up to 1400 lumens illumination for 90 minutes of emergency lighting with clear lens or 800 lumens illumination for 180 minutes of emergency lighting.

- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lamps indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance.
- Compact light weight low profile design is suited for low mounting heights.
- 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.
- Standard 6 kV surge protection.
- Ambient Temperature: BU: -20 °C to +55 °C (-4 °F to +131 °F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- LED L70 rated at 109,000 Hours @ +25 °C (+77 °C).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.

**OPTIONS**

- Glass globe guard available, purchase separately.

**STANDARD MATERIALS**

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Glass globe guard: stainless steel wire
- Reflector: fiberglass reinforced white polyester

**STANDARD FINISHES**

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

**RELATED PRODUCTS**

- Mercmaster LED Mounting Adapters
- Mercmaster LED Low Profile Luminaires

**ACCESSORIES**

- Safety Cable - LEDSC
- Globe Gaurd - MGU1
- Angled Reflector - CMR4AN

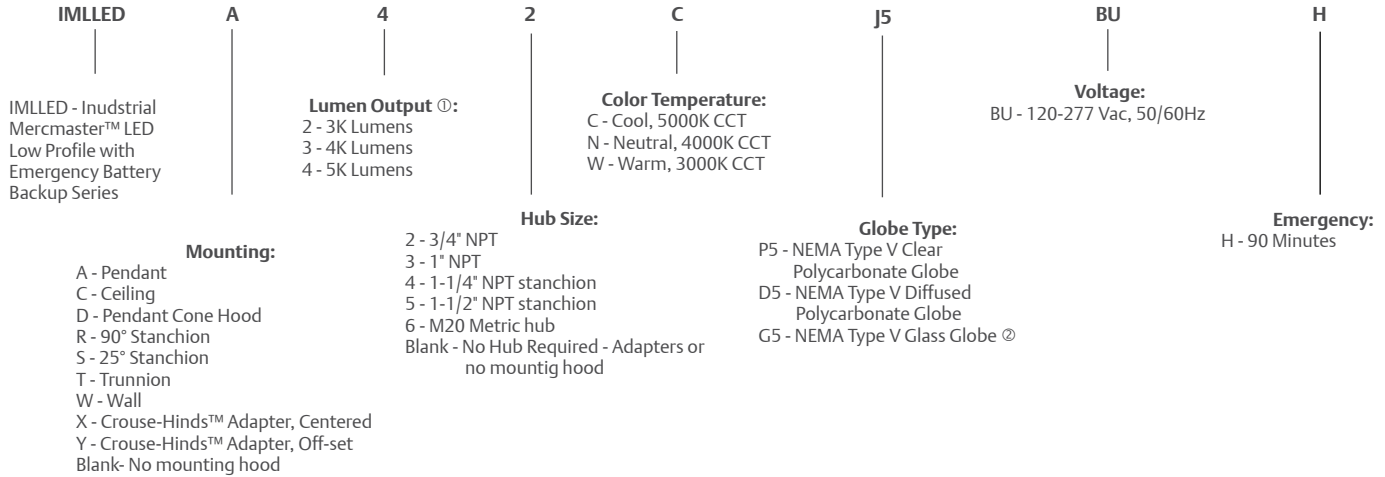
# APPLETON™ INDUSTRIAL MERCMASTER™ LED LOW PROFILE EMERGENCY BATTERY BACKUP LUMINAIRES

## NEC/CEC RATINGS

- cCSAus Listed
- Type 3R, 4, 4X
- IP66/67
- Simultaneous Exposure
- Suitable for Use in Wet Locations
- American Bureau of Shipping (ABS) Certified

## NEC/CEC CERTIFICATIONS AND COMPLIANCES

- UL Standard: UL 1598, Third Edition; UL 8750, Second Edition; UL 924, Tenth Edition
- CSA Standard: C22.2 No. 250.0-00; C22.2 No. 250.13-2017; C22.2 No. 141-15
- cCSAus Listed: Master contract 164460
- Ambient Temperature: 120-277 Volts: -20 °C up to +55 °C (-4 °F up to +131 °F)



### Example part number: IMLLEDA42CD5BUH

This is a Mercmaster™ LED Low Profile Series luminaire with a pendant mount, 5000 lumen output, 3/4" NPT hub size, 5000K CCT color temperature, with a NEMA Type V Diffused Polycarbonate globe. The voltage is 120-277 Vac or 50/60Hz. It comes with a 90 minute Emergency Battery Backup.

	IMLLED2			IMLLED3			IMLLED4		
	BU			BU			BU		
<b>Voltage Range</b>	BU: 120-277 Vac, 50/60Hz								
<b>Input Power (@ 120V)</b>	28W			38W			48W		
<b>Color Temperature (CCT)</b>	5000K	4000K	3000K	5000K	4000K	3000K	5000K	4000K	3000K
- P5 Lumens	3200	3000	3000	4200	4000	3900	5300	5000	4900
- D5 Lumens	3100	2900	2900	4100	3900	3800	5150	4900	4800
- G5 Lumens	3300	3100	3100	4400	4200	4100	5500	5200	5100
- P5 Lumens	1400	1270	1150	1400	1270	1150	1400	1270	1150
- D5 Lumens	1350	1200	1100	1350	1200	1100	1350	1200	1100
- G5 Lumens	1450	1330	1200	1450	1330	1200	1450	1330	1200
<b>Line Current</b>	0.27 @ 120V 0.13 @ 277V			0.33 @ 120V 0.16 @ 277V			0.42 @ 120V 0.20 @ 277V		
<b>Ambient Temperature</b>	-20 °C to +55 °C (-4 °F to +131 °F)								
<b>CCT/CRI</b>	5000K, 4000K, 3000K/70 CRI								
<b>Fixture Weight</b>	5.8 kg (13.8 lb) (without hood)								
<b>Warranty</b>	60,000+ hours; 5 years								

① For specific lumen output information, see Lamp Comparison Chart in Mercmaster™ Low Profile LED catalog pages.

② Guards for the glass globes are ordered separately. See Mercmaster™ Low Profile LED Catalog pages.