Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Applications

- Enclosed and gasketed fixtures suitable for use in marine and wet locations, and in a wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III. The method of protection for the Zone 2 Mercmaster is AEx nA nR – Restricted Breathing/ Nonsparking.
- For use in areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Suited for use in non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust or corrosive atmospheres are present.
- Typical applications include oil refineries, pulp and paper mills, chemical plants, food-processing areas, inspection facilities, foundries, power plants, storage areas, waste and sewage treatment, parking garages, and other areas where dust, water, dirt and rough usage are a problem.

Features

- Energy-efficient, compact fluorescent light sources possess superior lamp efficiency.
- Fluorescent provides long lamp life, thereby reducing relamping costs.
- "Instant on" nature of this electronically ballasted fluorescent eliminates the possibility of an extended blackout due to a momentary power dip.
- High efficacies (up to 75 lumens per Watt) offer a desirable low-glare/instant-on alternative to low wattage HID sources.
- High output under widely varying conditions: Greater than 90% of rated lumens in ambient temperatures from -5 °C to +54 °C (+23 °F to +130 °F).
- Excellent color rendering (82 CRI) makes it the best choice for food processing and inspection facilities.
- A wide variety of lamp wattages:
  26 W, 32 W, 42 W, 52 W, 64 W, 84 W.
- Electronic ballast permits low operating costs with power factor greater than 99%. Also allows flicker-free starting.
- Cold weather starting to a minimum temperature of -18 °C (0 °F).
- Fixtures are available for operation from an external 125 Vdc source.
- Compact, light-weight low profile design creates ease of installation and maintenance.
- Modular design, with multiple mounting hoods, optics and reflectors, permits a wide array of fixtures to meet installation and lighting needs.
- Body gaskets and optic gaskets are high temperature silicone O-Rings that provide superior sealing.
- Mounting hoods have a high hinge for added safety during installation and servicing.
- Choice of heat-resistant prismatic glass refractor (NEMA I, III or V), heat-resistant clear globes, color globes or polymeric refractors (NEMA II, III, IV or V). (Polymeric refractors are not listed for Zone 2.)

Pendant Mount Fixture with Glass Globe

Ceiling Mount Fixture with Prismatic Glass Refractor

Standard Materials

- Standard dome or 30° angle reflectors: highly reflective fiberglass reinforced white polyester to provide strength, corrosion resistance and excellent photometrics
- Fixture housing, mounting hoods, and guards: die-cast, copperfree (4/10 of 1% max.) aluminum with epoxy finish for corrosion resistance
- Exposed hardware: stainless steel. Latch assemblies have stainless steel bolt and captive nut; reflectors and guards attach with stainless steel screws threading into stainless steel inserts
- Globes and glass refractors: heat-resistant prismatic glass
- Polymeric refractor: spun aluminum reflector and a lens made of an engineered thermoplastic

Standard Finishes

- Epoxy powder coat finish electrostatically applied for complete, uniform surface protection

Options

- Fuse can be field installed. Kits include fuse block, wire connectors and screws for attachment to mounting hood.
  — Fixtures with fuses do not comply with UL 1598A for marine listing
  — Canadian Electrical Code does NOT allow fusing in hazardous locations
- Guards with gray epoxy painted to match fixtures, supplied with stainless steel screws. Add suffix -**G**.
- Reflectors are available as standard dome and 30° angle polyester. Order separately.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844, UL 60079-0, UL 60079-15
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137, CAN E60079-0, CAN E60079-15
- CSA Certified: 025428

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Illustrated Features

Globe Chamber
Completely sealed from the ballast housing and outside vapors/air (nA nR).

Epoxy Finish
Ballast housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

Photocell
Installs through knock-out in mounting hoods except cone and ceiling mount. Provides continuous on-off dusk-to-dawn control. Not for use in hazardous (classified) areas. Hazardous location rated photocells also available. See Accessories page.

Stainless Steel Latch Assembly
Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.

Vented Reflectors
Reflectors are thick, tough fiberglass-reinforced white polyester, vented for cooler operation. Quickly attach with furnished stainless steel screws.

Terminal Blocks (Zone 2)
A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

Stainless Steel Inserts
Ballast bodies have stainless steel threaded inserts to receive stainless steel screws for reflectors and guard. Prevents "freezing", allowing guards and reflectors to be easily removed and replaced at any time, without damage to the housing.

Prismatic Glass Globes and Refractors
Heat-resistant globes and glass refractors and polymeric refractors thread directly into ballast housing and seal against a high temperature silicone rubber gasket. (Polymeric refractors are not listed for Zone 2 areas.)

Ballast Assembly
Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Hood/Ballast Gasket
Silicone rubber gasket seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.

Electrical Protection
Ground wire provided to bond mounting hood to ballast housing.

Cooler Operating Cone Hood
Larger sloped surface sheds dusts, dirt and combustible fibers providing better heat dissipation.

Fuses
Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.

"Safety" High Hinge
Extra-high hinge provides additional protection against accidental ballast housing disengagement during installation or maintenance.

EMERSON

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Mercmaster III Low Profile Compact Fluorescent Family Tree

Pendant Mount ①

KPA

Pendant Cone Mount

KPCH

Ceiling Mount

KPC

Wall Mount ①②

KPWB

25° Stanchion Mount ①

KPS

90° Stanchion Mount ①②

KPST

Ballast Housing
(26, 32, 42, 52, 57, 64, 84, 114 W Compact Fluorescent)


MLBG (for Glass Globe and Polymeric Refractor)


MLBR (for Glass Refractor)

Globes

VPGL–2HR (Heat–Resistant Glass) ③

Polymeric Refractors

LPRF (Closed Prismatic) ④

Prismatic Glass Refractors

LPG–R ⑤

Exit Sign


CJEXRN (Three Sided)
AEXR–15R (Single Sided)

Globe Guards (Optional Accessory)

KGU2

White Polyester Reflector (Optional Accessory)

KR2–ST (Standard)
KR2–DD (Deep Dome)


KR2–AN (30° Angle)

Globe Guards (Optional Accessory)

KRG2

White Polyester Reflector (Optional Accessory)

CMR–4ST (Standard)
CMR–4DD (Deep Dome)


CMR–4AN (30° Angle)

① *Mounting hood with a 120 V or 208-277 V factory installed photocell is available.*
② *Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods..*
③ *Available in clear, amber, blue, green and red.*
④ *Available in NEMA Type II, III, IV and V. Polymeric Refractor suitable for Class II, Groups F and G, NEMA 4X and Marine Type Electric Fixtures Outside Type (Salt Water) only (100 W PSMH Max.).*
⑤ *Available in NEMA Type I, III and V.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide For Zone 2 Mercmaster III Compact Fluorescent Luminaires

ML — Series:
ML - Mercmaster III Low Profile

A — Mounting Hood:
A - Pendant (Rigid or Flexible)
C - Ceiling
D - Pendant Cone
R - 90° Stanchion
S - 25° Stanchion
W - Wall

F — Lamp Type:
F - Fluorescent

84 — Wattage:
26 - One 26 Watt PL-T
32 - One 32 Watt PL-T
42 - One 42 Watt PL-T
52 - Two 26 Watt PL-T
57 - One 57 Watt PL-T ④
64 - Two 32 Watt PL-T
84 - Two 42 Watt PL-T
114 - Two 57 Watt PL-T ④

2 — Hub Size:
2 - 3/4" NPT
3 - 1" NPT
4 - 1-1/4" NPT Stanchion
5 - 1-1/2" NPT Stanchion

G2 — Optical Assembly: ①
G2 - VPGL2HR Globe (not for 57, 114 Watt)
G4 - VPGL4HR Globe (57, 114 Watt only) ④
J1 - NEMA I Glass Refractor
J3 - NEMA III Glass Refractor
J5 - NEMA V Glass Refractor
P2 - NEMA II Polymeric Refractor
P3 - NEMA III Polymeric Refractor
P4 - NEMA IV Polymeric Refractor
P5 - NEMA V Polymeric Refractor

G — Guard Options:
G - Cast Guard (Glass Refractor and Globe only)
N - No Guard

BU — Voltage:
BU - 120 to 277 V, 50/60 Hz and 125 Vdc
A5 - 347 V, 60 Hz ④

L — Lamp Options:
L - Lamp(s) included
Blank - Lamp(s) excluded

Z2 — Suffix:
DP - Safety Cable
SC - Safety Chain
Z2 - Zone 2 Suffix (Required for AEx nA nR rating)
C - Safety Cable ④
F - Fused Mtg. Hood ③④ (Non-Haz. Loc. only)
P - Non-Haz. Photocell (Specify Voltage) ④
Q - Division 2 Haz. Photocell (Specify Voltage) ④
T - Terminal Blocks ④
V - Vibration Protection ④
X - Appledapter ② Mounting Hood Adapter ④
Z - Zone 2 suffix (required for Ex nR) ④

① *Polymeric refractors suitable for Class II, Groups F and G; NEMA 4X; and Marine Type Electric Fixture Outside Type (Salt Water) only. Reflectors ordered separately (for use with globe fixtures only): Standard Dome: KR2-ST 30-degree Angle: KR2-AN*
② *Appledapter is available for use with the pendant, ceiling and angled stanchion mounting only.*
③ *Canadian Electrical Code (CEC) does NOT allow fusing in hazardous locations.*
④ *Certified to meet the Canadian Electrical Code (CEC) only.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Class I, Division 2; Class II, Division 1; Simultaneous Exposure to Hazardous Conditions

Temperature identification numbers of Mercmaster III Low Profile Fluorescent Fixtures

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Thermal Performance

Lamp Watts	Ambient Temp °C (°F) ①	Class I, Division 2				Class II, Division 1 Groups E, F and G ②				Simultaneous Exposure (Class I, Div 2 and Class II, Division 1)			
		Globe	Globe and Reflector	Glass Refractor	Polymeric Refractor	Globe	Globe and Reflector	Glass Refractor	Polymeric Refractor	Globe	Globe and Reflector	Glass Refractor	Polymeric Refractor
26	40 °C (104 °F)	**T3**	**T3**	**T3**	—	**T5**	**T5**	**T5**	**T6**	**T3**	**T3**	**T3**	—
32	40 °C (104 °F)	**T3**	**T3**	**T3**	—	**T5**	**T5**	**T5**	**T6**	**T3**	**T3**	**T3**	—
42	40 °C (104 °F)	**T3**	**T3**	**T3**	—	**T5**	**T5**	**T5**	**T6**	**T3**	**T3**	**T3**	—
52	40 °C (104 °F)	**T2D**	**T2D**	**T3**	—	**T4A**	**T4A**	**T4A**	**T6**	**T2C**	**T2C**	**T2C**	—
	55 °C (151 °F)	**T2C**	**T2C**	**T2C**	—	**T4**	**T4**	**T4**	—	**T2C**	**T2C**	**T2C**	—
57 ③	40 °C (104 °F)	**T2D**	**T2D**	**T3**	—	**T4A**	**T4A**	**T4A**	**T6**	—	—	—	—
64	40 °C (104 °F)	**T2D**	**T2D**	**T3**	—	**T4A**	**T4A**	**T4A**	**T6**	**T2C**	**T2C**	**T2C**	—
	55 °C (151 °F)	**T2C**	**T2C**	**T2C**	—	**T4**	**T4**	**T4**	—	—	—	—	—
84	40 °C (104 °F)	**T2C**	**T2C**	**T2D**	—	**T3C**	**T3C**	**T3C**	**T6**	**T2B**	**T2B**	**T2B**	—
114 ③	40 °C (104 °F)	**T2C**	**T2C**	**T2D**	—	**T3C**	**T3C**	**T3C**	**T6**	—	—	—	—

"T" Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

"T" Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

Lamp Watts	Supply Wire Temp. °C (°F)	Ambient Temp. °C (°F)	Class I, Zone 2, AEx nA nR — Ex nR		
			Globe	Globe and Reflector	Refractor
26	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
32	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
42	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
52	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
	75 °C (167 °F)	55 °C (131 °F)	**T4**	**T4**	**T4**
57 ③	75 °C (167 °F)	40 °C (104 °F)	**T6**	**T6**	**T6**
64	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
	75 °C (167 °F)	55 °C (131 °F)	**T4**	**T4**	**T4**
84	75 °C (167 °F)	40 °C (104 °F)	**T5**	**T5**	**T6**
114 ③	75 °C (167 °F)	40 °C (104 °F)	**T6**	**T6**	**T6**

"T" Numbers Represent the Maximum Surface Temperature for Luminaires with AEx nA nR Rating

"T" Number	T1	T2	T3	T4	T5	T6
Temperature Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temperature Range (°F)	574-842	394-572	277-392	214-275	187-212	185

① *Use +75 °C (+167 °F) rated supply wire.*
② *Fixtures with Polymeric Refractor are listed for Groups F and G only.*
③ *Certified to meet the Canadian Electrical Code (CEC) only.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Shown with Glass Globe

Shown with 8" Glass Refractor

Lamp Watts	Hub Size (Inches)	Catalog Numbers ②③ With Globe ①④	With Type V 8" Glass Refractor ①④⑤	With Type V Polymeric Refractor ⑥
Pendant — One Hub (Rigid or Flexible Mounting)				
1 x 26 W	3/4	**MLAF262G2N**	**MLAF262J5N**	**MLAF262P5N**
	1	**MLAF263G2N**	**MLAF263J5N**	**MLAF263P5N**
1 x 32 W	3/4	**MLAF322G2N**	**MLAF322J5N**	**MLAF322P5N**
	1	**MLAF323G2N**	**MLAF323J5N**	**MLAF323P5N**
1 x 42 W	3/4	**MLAF422G2N**	**MLAF422J5N**	**MLAF422P5N**
	1	**MLAF423G2N**	**MLAF423J5N**	**MLAF423P5N**
2 x 26 W	3/4	**MLAF522G2N**	**MLAF522J5N**	**MLAF522P5N**
	1	**MLAF523G2N**	**MLAF523J5N**	**MLAF523P5N**
1 x 57 W	3/4	**MLAF572G4N** ⑦	**MLAF572J5N** ⑦	**MLAF572P5N** ⑦
	1	**MLAF573G4N** ⑦	**MLAF572J5N** ⑦	**MLAF572P5N** ⑦
2 x 32 W	3/4	**MLAF642G2N**	**MLAF642J5N**	**MLAF642P5N**
	1	**MLAF643G2N**	**MLAF643J5N**	**MLAF643P5N**
2 x 42 W	3/4	**MLAF842G2N**	**MLAF842J5N**	**MLAF842P5N**
	1	**MLAF843G2N**	**MLAF843J5N**	**MLAF843P5N**
2 x 57 W	3/4	**MLAF1142G4N** ⑦	**MLAF1142J5N** ⑦	**MLAF1142P5N** ⑦
	1	**MLAF1143G4N** ⑦	**MLAF1143J5N** ⑦	**MLAF1143P5N** ⑦
Pendant Cone — One Hub (Rigid or Flexible Mounting)				
1 x 26 W	3/4	**MLDF262G2N**	**MLDF262J5N**	**MLDF262P5N**
	1	**MLDF263G2N**	**MLDF263J5N**	**MLDF263P5N**
1 x 32 W	3/4	**MLDF322G2N**	**MLDF322J5N**	**MLDF322P5N**
	1	**MLDF323G2N**	**MLDF323J5N**	**MLDF323P5N**
1 x 42 W	3/4	**MLDF422G2N**	**MLDF422J5N**	**MLDF422P5N**
	1	**MLDF423G2N**	**MLDF423J5N**	**MLDF423P5N**
2 x 26 W	3/4	**MLDF522G2N**	**MLDF522J5N**	**MLDF522P5N**
	1	**MLDF523G2N**	**MLDF523J5N**	**MLDF523P5N**
1 x 57 W	3/4	**MLDF572G4N** ⑦	**MLDF572J5N** ⑦	**MLDF572P5N** ⑦
	1	**MLDF573G4N** ⑦	**MLDF573J5N** ⑦	**MLDF573P5N** ⑦
2 x 32 W	3/4	**MLDF642G2N**	**MLDF642J5N**	**MLDF642P5N**
	1	**MLDF643G2N**	**MLDF643J5N**	**MLDF643P5N**
2 x 42 W	3/4	**MLDF842G2N**	**MLDF842J5N**	**MLDF842P5N**
	1	**MLDF843G2N**	**MLDF843J5N**	**MLDF843P5N**
2 x 57 W	3/4	**MLDF1142G4N** ⑦	**MLDF1142J5N** ⑦	**MLDF1142P5N** ⑦
	1	**MLDF1143G4N** ⑦	**MLDF1143J5N** ⑦	**MLDF1143P5N** ⑦

① *For fixtures with guard, substitute **G** for **N** before adding voltage suffix.*
② *Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.*
③ *Add **L** after voltage suffix to include lamp.*
④ *Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).*
⑤ *To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.*
⑥ *To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.*
⑦ *Certified to meet the Canadian Electrical Code (CEC) only.*

EMERSON

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

	Lamp Watts	Hub Size (Inches)	Catalog Numbers ②③ With Globe ①④	With Type V 8" Glass Refractor ①④⑤	With Type V Polymeric Refractor ⑥
Ceiling — Five Hubs, Four Close-Up Plugs					
	1 x 26 W	3/4	**MLCF262G2N**	**MLCF262J5N**	**MLCF262P5N**
		1	**MLCF263G2N**	**MLCF263J5N**	**MLCF263P5N**
	1 x 32 W	3/4	**MLCF322G2N**	**MLCF322J5N**	**MLCF322P5N**
		1	**MLCF323G2N**	**MLCF323J5N**	**MLCF323P5N**
	1 x 42 W	3/4	**MLCF422G2N**	**MLCF422J5N**	**MLCF422P5N**
		1	**MLCF423G2N**	**MLCF423J5N**	**MLCF423P5N**
	2 x 26 W	3/4	**MLCF522G2N**	**MLCF522J5N**	**MLCF522P5N**
		1	**MLCF523G2N**	**MLCF523J5N**	**MLCF523P5N**
	1 x 57 W	3/4	**MLCF572G4N** ⑦	**MLCF572J5N** ⑦	**MLCF572P5N** ⑦
		1	**MLCF573G4N** ⑦	**MLCF573J5N** ⑦	**MLCF573P5N** ⑦
	2 x 32 W	3/4	**MLCF642G2N**	**MLCF642J5N**	**MLCF642P5N**
		1	**MLCF643G2N**	**MLCF643J5N**	**MLCF643P5N**
Shown with Polymeric Refractor	2 x 42 W	3/4	**MLCF842G2N**	**MLCF842J5N**	**MLCF842P5N**
		1	**MLCF843G2N**	**MLCF843J5N**	**MLCF843P5N**
	2 x 57 W	3/4	**MLCF1142G4N** ⑦	**MLCF1142J5N** ⑦	**MLCF1142P5N** ⑦
		1	**MLCF1143G4N** ⑦	**MLCF1143J5N** ⑦	**MLCF1143P5N** ⑦
Wall Bracket — Five Hubs, Four Close-Up Plugs					
	1 x 26 W	3/4	**MLWF262G2N**	**MLWF262J5N**	**MLWF262P5N**
		1	**MLWF263G2N**	**MLWF263J5N**	**MLWF263P5N**
	1 x 32 W	3/4	**MLWF322G2N**	**MLWF322J5N**	**MLWF322P5N**
		1	**MLWF323G2N**	**MLWF323J5N**	**MLWF323P5N**
	1 x 42 W	3/4	**MLWF422G2N**	**MLWF422J5N**	**MLWF422P5N**
		1	**MLWF423G2N**	**MLWF423J5N**	**MLWF423P5N**
	2 x 26 W	3/4	**MLWF522G2N**	**MLWF522J5N**	**MLWF522P5N**
		1	**MLWF523G2N**	**MLWF523J5N**	**MLWF523P5N**
	1 x 57 W	3/4	**MLWF572G4N** ⑦	**MLWF572J5N** ⑦	**MLWF572P5N** ⑦
		1	**MLWF573G4N** ⑦	**MLWF573J5N** ⑦	**MLWF573P5N** ⑦
	2 x 32 W	3/4	**MLWF642G2N**	**MLWF642J5N**	**MLWF642P5N**
		1	**MLWF643G2N**	**MLWF643J5N**	**MLWF643P5N**
Shown with 8" Glass Refractor	2 x 42 W	3/4	**MLWF842G2N**	**MLWF842J5N**	**MLWF842P5N**
		1	**MLWF843G2N**	**MLWF843J5N**	**MLWF843P5N**
	2 x 57 W	3/4	**MLWF1142G4N** ⑦	**MLWF1142J5N** ⑦	**MLWF1142P5N** ⑦
		1	**MLWF1143G4N** ⑦	**MLWF1143J5N** ⑦	**MLWF1143P5N** ⑦

① *For fixtures with guard, substitute **G** for **N** before adding voltage suffix.*
② *Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.*
③ *Add **L** after voltage suffix to include lamp.*
④ *Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).*
⑤ *To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.*
⑥ *To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.*
⑦ *Certified to meet the Canadian Electrical Code (CEC) only.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

High Power Factor Electronic Ballast (Min. P.F. 99%), PL-T Lamps.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

	Lamp Watts	Hub Size (Inches)	Catalog Numbers ②③ With Globe ①④	With Type V 8" Glass Refractor ①④⑤	With Type V Polymeric Refractor ⑥
25° Stanchion					
	1 x 26 W	3/4	**MLSF264G2N**	**MLSF264J5N**	**MLSF264P5N**
		1	**MLSF265G2N**	**MLSF265J5N**	**MLSF265P5N**
	1 x 32 W	3/4	**MLSF324G2N**	**MLSF324J5N**	**MLSF324P5N**
		1	**MLSF325G2N**	**MLSF325J5N**	**MLSF325P5N**
	1 x 42 W	3/4	**MLSF424G2N**	**MLSF424J5N**	**MLSF424P5N**
		1	**MLSF425G2N**	**MLSF425J5N**	**MLSF425P5N**
	2 x 26 W	3/4	**MLSF524G2N**	**MLSF524J5N**	**MLSF524P5N**
		1	**MLSF525G2N**	**MLSF525J5N**	**MLSF525P5N**
	1 x 57 W	3/4	**MLSF574G4N** ⑦	**MLSF574J4N** ⑦	**MLSF574P4N** ⑦
		1	**MLSF575G4N** ⑦	**MLSF575J4N** ⑦	**MLSF575P4N** ⑦
	2 x 32 W	3/4	**MLSF644G2N**	**MLSF644J5N**	**MLSF644P5N**
		1	**MLSF645G2N**	**MLSF645J5N**	**MLSF645P5N**
	2 x 42 W	3/4	**MLSF844G2N**	**MLSF844J5N**	**MLSF844P5N**
		1	**MLSF845G2N**	**MLSF845J5N**	**MLSF845P5N**
	2 x 57 W	3/4	**MLSF1144G4N** ⑦	**MLSF1144J4N** ⑦	**MLSF1144P4N** ⑦
		1	**MLSF1145G4N** ⑦	**MLSF1145J4N** ⑦	**MLSF1145P4N** ⑦
90° Stanchion					
	1 x 26 W	3/4	**MLRF264G2N**	**MLRF264J5N**	**MLRF264P5N**
		1	**MLRF265G2N**	**MLRF265J5N**	**MLRF265P5N**
	1 x 32 W	3/4	**MLRF324G2N**	**MLRF324J5N**	**MLRF324P5N**
		1	**MLRF325G2N**	**MLRF325J5N**	**MLRF325P5N**
	1 x 42 W	3/4	**MLRF424G2N**	**MLRF424J5N**	**MLRF424P5N**
		1	**MLRF425G2N**	**MLRF425J5N**	**MLRF425P5N**
	2 x 26 W	3/4	**MLRF524G2N**	**MLRF524J5N**	**MLRF524P5N**
		1	**MLRF525G2N**	**MLRF525J5N**	**MLRF525P5N**
	1 x 57 W	3/4	**MLRF574G4N** ⑦	**MLRF574J4N** ⑦	**MLRF574P4N** ⑦
		1	**MLRF575G4N** ⑦	**MLRF575J4N** ⑦	**MLRF575P4N** ⑦
	2 x 32 W	3/4	**MLRF644G2N**	**MLRF644J5N**	**MLRF644P5N**
		1	**MLRF645G2N**	**MLRF645J5N**	**MLRF645P5N**
	2 x 42 W	3/4	**MLRF844G2N**	**MLRF844J5N**	**MLRF844P5N**
		1	**MLRF845G2N**	**MLRF845J5N**	**MLRF845P5N**
	2 x 57 W	3/4	**MLRF1144G4N** ⑦	**MLRF1144J4N** ⑦	**MLRF1144P4N** ⑦
		1	**MLRF1145G4N** ⑦	**MLRF1145J4N** ⑦	**MLRF1145P4N** ⑦

Shown with Glass Globe

Shown with Polymeric Refractor

*① For fixtures with guard, substitute **G** for **N** before adding voltage suffix.*
*② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.*
*③ Add **L** after voltage suffix to include lamp.*
*④ Add **Z2** suffix for factory-sealed non-sparking/restricted breathing protection (Aex nA nR).*
*⑤ To order fixture with NEMA Type I or III glass refractor, change **J5** to **J1** or **J3** respectively.*
*⑥ To order fixture with NEMA Type II, III, or IV polymeric refractor, change **P5** to **P2**, **P3** or **P4** respectively. Polymeric refractor fixtures are UL Listed and CSA Certified for Class II, Division 1 and 2, Groups F and G; Class III; Marine Outdoor Salt Water (UL1598A); NEMA 4X and CSA Type 4X.*
⑦ Certified to meet the Canadian Electrical Code (CEC) only.

EMERSON

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Ballast Bodies

		Catalog Numbers	
	Lamp Wattage	**For Glass Globe or Polymeric Refractor ①②**	**For Glass Refractor ②**
Compact PL-T Fluorescent — 120 V to 277 V, 50/60 Hz and 125 Vdc			
	1 x 26 W	**MLBG26FBU**	**MLBR26FBU**
	1 x 32 W	**MLBG32FBU**	**MLBR32FBU**
	1 x 42 W	**MLBG42FBU**	**MLBR42FBU**
	2 x 26 W	**MLBG52FBU**	**MLBR52FBU**
	1 x 57 W	—	**MLBR57F ③**
	2 x 32 W	**MLBG64FBU**	**MLBR64FBU**
	2 x 42 W	**MLBG84FBU**	**MLBR84FBU**
	2 x 57 W	—	**MLBR114F ③**

Ballast Body for Glass Globe or Polymeric Refractor ①

Ballast Body for Glass Refractor

① Polymeric refractor not listed for Class I, Zone 2 areas.
*② Add voltage suffix **-BU** for 120 through 277 V, 50/60 Hz and 125 Vdc. Add voltage suffix **-A5** for 347 V, 60 Hz.*
③ Certified to meet the Canadian Electrical Code (CEC) only.

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Mounting Hoods

	Description	Hub Size (Inches)	Catalog Number
Pendant 	One Hub, Rigid or Flexible Mounting	3/4 1	**KPA-75** **KPA-100**
Pendant Cone 	Five Hubs, Four Close-Up Plugs	3/4 1	**KPCH-75** **KPCH-100**
Ceiling 	Five Hubs, Four Close-Up Plugs	3/4 1	**KPC-75** **KPC-100**
Wall 	Five Hubs, Four Close-Up Plugs	3/4 1	**KPWB-75** **KPWB-100**
25° Stanchion 	One Hub	1-1/4 1-1/2	**KPS-125** **KPS-150**
90° Stanchion 	One Hub	1-1/4 1-1/2	**KPST-125** **KPST-150**

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Item	Description	Catalog Number ③
White Polyester Reflectors		
 **Standard Dome**	For Globe Fixtures	
	Standard Dome	**KR2-ST**
	30° Angle	**KR2-AN**
 **30° Angle Dome**	For Glass Refractor Fixtures ①	
	Standard Dome	**CMR-4ST** ②
	30° Angle	**CMR-4AN** ②
Prismatic Glass Globes — Heat-Resistant ③		
	Clear	**VPGL-2HR**
	Amber ④	**VPGL-2AM**
	Blue ④	**VPGL-2BL**
	Green ④	**VPGL-2GR**
	Red ④	**VPGL-2RE**
	Clear — 57/114 Watt ⑤	**VPGL-4HR**
Closed Prismatic Glass Refractors — All Heat-Resistant ③		
	NEMA Type I	**LPG-R1**
	NEMA Type III	**LPG-R3**
	NEMA Type V	**LPG-R5**
Closed Prismatic Polymeric Refractors — Not Listed for Class I, Zone 2 Areas		
	NEMA Type II	**LPRF-2CP**
	NEMA Type III	**LPRF-3CP**
	NEMA Type IV	**LPRF-4CP**
	NEMA Type V	**LPRF-5CP**
Guards		
 **Globe Guard**	Globe Guard	**KGU2**
 **Glass Refractor Guard**	Glass Refractor Guard	**KRG2**
 **Globe Guard for 57 W Only**	Globe Guard — 57/114 W ⑤	**KPGU400**

① *Fixtures with refractors are not UL Listed when used with reflectors.*
② *Standard dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.*
③ *Silicone or Teflon coated globes are available. Contact your local sales representative.*
④ *Non hazardous rated globes for special applications.*
⑤ *Certified to meet the Canadian Electrical Code (CEC) only.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Item	Description	Catalog Number
Replacement Optic Gaskets — Silicone rubber		
	Globe and Polymeric Refractor Gasket	**VPGL-GK**
	Glass Refractor Gasket	**KRF-GK**
Replacement Lamp		
	**Mercmaster III Low Profile Compact Fluorescent**	

Lamp Type	Lamp Base	Wattage	Catalog Number
PL-T	GX24q-3	26	**PLT26**
PL-T	GX24q-3	32	**PLT32**
PL-T	GX24q-4	42	**PLT42**
PL-T	GX24q-5	57	**PLT57** ③

Replacement Socket		
	For 26 W, 32 W and 42 W PLT Lamps listed above	**PLT32RS**
	For 57 W PLT Lamp	**PLT57RS** ③
Three-Way Exit Sign ①		
	Epoxy enameled steel – 152.4 mm (6”) high red lettering Mounts to Globe Ballast Housing in place of guard.	**CJEXRN**
Single Sided Exit Sign ①		
	Epoxy enameled steel – 152.4 mm (6”) high red lettering Mounts to Globe Ballast Housing in place of guard	**AEXR-15R**
Retrofit Pendant Mounting Adapter		
	Permits use of Mercmaster III pendant hood with 3/4” hub on existing V-51 mounting hood	**LPAD-1**
Fuse Kit ②		
	2 Amp time delay fuse	**MLF2**

① *Consult your local sales representative for classified area suitability. Not listed for Zone 2 areas.*
② *Canadian Electrical Code does NOT allow fusing in hazardous locations.*
③ *Certified to meet the Canadian Electrical Code (CEC) only.*

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

CEC:
Class I, Zone 2, Ex nR IIC (Z)

Line Voltage	Type of Ballast	Starting and Operating Amps	Total Watts
26 Watt PL-T Fluorescent			
120	Electronic	.250	28
277	Electronic	.110	28
347	Electronic	.080	27
32 Watt PL-T Fluorescent			
120	Electronic	.300	36
277	Electronic	.130	36
347	Electronic	.150	36
42 Watt PL-T Fluorescent			
120	Electronic	.410	48
277	Electronic	.180	48
347	Electronic	.140	43
52 Watt PL-T Fluorescent			
120	Electronic	.460	56
277	Electronic	.220	56
347	Electronic	.170	54
57 Watt PL-T Fluorescent ①			
120	Electronic	.480	58
277	Electronic	.210	57
347	Electronic	.180	61
64 Watt PL-T Fluorescent			
120	Electronic	.580	69
277	Electronic	.260	69
347	Electronic	.190	66
84 Watt PL-T Fluorescent			
120	Electronic	.760	91
277	Electronic	.320	91
347	Electronic	.280	86
114 Watt PL-T Fluorescent ①			
120	Electronic	.960	116
277	Electronic	.420	114
347	Electronic	.360	122

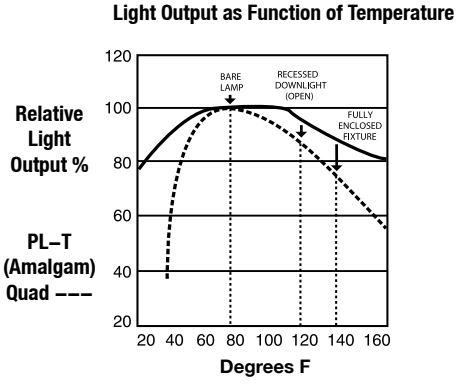
Fuse catalog number: MLF2 (1 required for 120 V or 277 V) – 2-Amp fuse, time delay.
Minimum starting temperature: -18 °C (0 °F).

Energy Efficiency and Lamp Life Comparison

Lamp Type	Watts	Lumens	Rated Average Life (Hours)
Incandescent	100	1750	750
Incandescent	150	2880	750
Incandescent	200 (PS-25, PS-30)	3710	750
Incandescent	200 (A-23)	4010	750
PL-T Fluorescent	26	1800	10,000
PL-T Fluorescent	32	2400	10,000
PL-T Fluorescent	42	3200	10,000
PL-T Fluorescent	52	3600	10,000
PL-T Fluorescent	57 ①	4300	12,000
PL-T Fluorescent	64	4800	10,000
PL-T Fluorescent	84	6400	10,000
PL-T Fluorescent	114 ①	8600	12,000

① *Certified to meet the Canadian Electrical Code (CEC) only.*

Lumen Output Comparison



High lumen output of the amalgam technology lamp vs. the reduced light output at variable temperatures from a typical compact fluorescent lamp.

Mercmaster™ III Low Profile Compact Fluorescent Luminaires

Enclosed and Gasketed. For Hazardous and Wet Locations

Compact Fluorescent listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

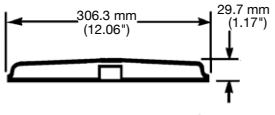
NEC/CEC:
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class II, Division 1 and 2, Groups E, F, G
Class III

NEC/CEC:
Simultaneous Exposure (Class I, Division 2/ Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

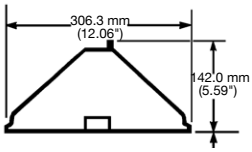
CEC:
Class I, Zone 2, Ex nR IIC (Z)

Dimensions in Millimeters (Inches)

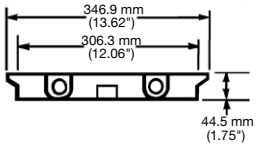
Pendant



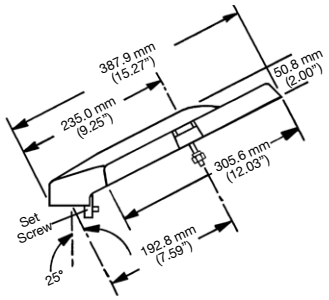
Pendant Cone



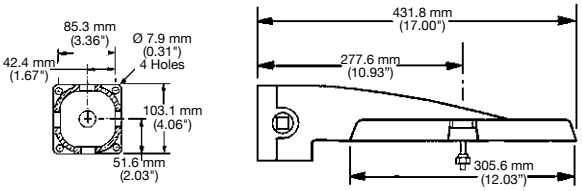
Ceiling



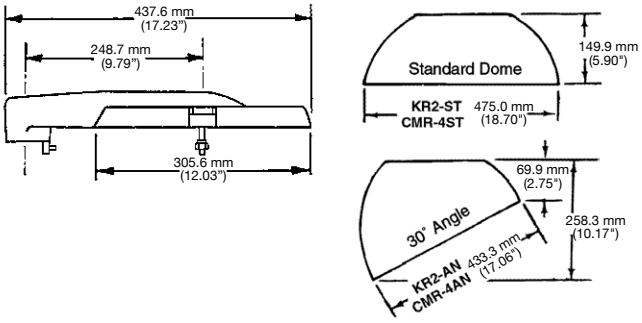
25 Stanchion



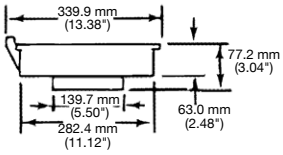
Wall Mount



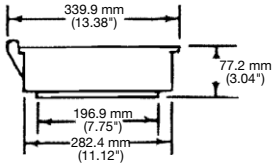
Polyester Reflector



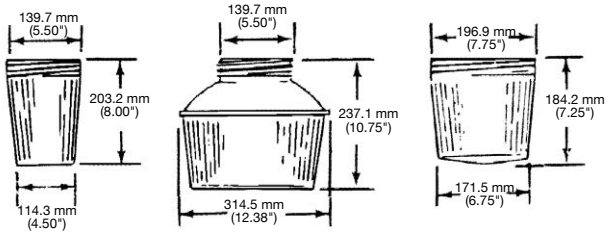
Globe or Polymeric Refractor Ballast Housing



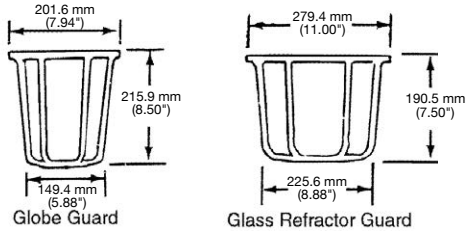
8" Glass Refractor Ballast Housing



Globe and Refractors



Aluminum Guards



Accessory Weights ①

Ballast Housings and Mounting Hoods	Wt. Kgs (Lbs)	Refractors, Globe, Guards and Reflectors	Wt. Kgs (Lbs)
Pendant	1.0 (2.20)	8" Glass Refractor	2.4 (5.29)
Pendant Cone	1.1 (2.43)	Glass Globe	1.7 (3.75)
Ceiling	1.4 (3.09)	Glass Globe — 57/114 W ③	3.8 (8.38)
Wall Mount	1.8 (3.97)	Polymeric Refractor ②	1.1 (2.43)
25° Stanchion	1.5 (3.31)	Glass Refractor Guard	0.5 (1.10)
90° Stanchion	1.7 (3.75)	Globe Guard	0.5 (1.10)
Globe/Polymeric Refractor Housing	2.5 (5.51)	Globe Guard — 57/114 W ③	0.9 (1.98)
Glass Refractor Housing	2.9 (6.39)	Standard Dome	1.1 (2.43)
		30° Angle	1.1 (2.43)
		Exit Sign ②	2.3 (5.07)

① Weights are approximate.
② Not listed for Class I, Zone 2 areas.
③ Certified to meet the Canadian Electrical Code (CEC) only.

EMERSON