MERCMASTER™ III LOW PROFILE COMPACT FLUORESCENT LUMINAIRES

- 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.)
- 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.
- Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).
- Silicone rubber gasket seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.
- A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

SUITABLE LOCATIONS

- 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

NEC/CEC RATINGS

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, AEx nA nR IIC (Z2)
Class I, Zone 2, Ex nR IIC (Z)
Class II, Division 1 and 2, Groups E, F, G
Class III
Simultaneous Exposure (Class I, Division 2/Class II, Division 1)
Fixtures Outside Type (Salt Water)
Type 4X
IP66

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

Appleton®

EMERSON™

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 V
- 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.

ML — Series: ML - Mercmaster III Low Profile

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

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 ④	4300	12,000
PL-T Fluorescent	64	4800	10,000
PL-T Fluorescent	84	6400	10,000
PL-T Fluorescent	114 ④	8600	12,000

① Polymeric refractors suitable for Class II, Groups F & 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 does NOT allow fusing in hazardous locations.
④ Certified to meet the Canadian Electrical Code (CEC) only.