

# Code•Master™ 2 Emergency PLT Factory Sealed Luminaires

## Explosionproof, Dust-Ignitionproof

52 W, 64 W, 84 W Fluorescent. For Use with Threaded Metal Conduit.

### NEC:

Class I, Division 1 and 2, Groups C, D  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4X  
Marine Type Electric Fixtures

### NEC:

Outside Type (Salt Water)  
Suitable for use in Wet Locations  
NFPA101, Life Safety Code

## Applications

- Ideal for use in chemical and petrochemical plants, such as manufacturers of plastics, paints and thinners; in refineries; and in other process areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- Suitable for use in wet locations.

## Features

- Auxiliary (emergency) lighting should be used to provide a lighted means of egress for personnel in walkways, catwalks, stairs, doorways, tunnels, ramps and aisles.
- Auxiliary (emergency) lighting should be used to provide “instant on” illumination during power failures.
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operation.
- Safe, easy servicing without disconnecting any wiring. Patented “wireless” design means the threading of the fixture unit onto mounting hood makes electrical connection. This allows for the fixture unit to easily thread off mounting hood for convenient servicing or for immediate replacement with a “stand-by” unit. Only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws; (b) make wire connections; and (c) reposition connection block.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick or gall, eliminating the troublesome problems often encountered with single-lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Factory sealed. External seals not required.
- Fluorescent light source reduces energy costs.
- Fluorescent lamp life of 10,000 hours reduces relamping costs compared to incandescent.
- Strategic location of lamp sockets in combination with the interior prism design of the glass globe provides optimum light distribution and control.
- Superior corrosion resistance with epoxy powder coat finish.
- Choice of mountings: pendant, ceiling, bracket and stanchion.
- Fiberglass-reinforced polyester reflectors in standard dome, deep dome or 30° angle are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres. The high bay aluminum reflector is designed for installations where mounting height work planes range from 6 to 9 m (20 to 30 ft).
- Optional guards protect globes from damage. Guards secure to fixture with three screws.
- Fixture (52, 64 or 84 W) is available for semi-continuous operation (one AC ballast permits two-lamp illumination when power is on and one battery pack permits one-lamp illumination when AC power is interrupted).
- Minimum operating temperature: 0 °C (32 °F).
- Maximum operating temperature: 40 °C (104 °F).

## Battery Pack Information

- Long life, high temperature, nickel-cadmium (Ni-Cad) battery.
- Dual voltage (120/277 V, 60 Hz) solid state charger on open circuit board.
- Five-year life expectancy.
- Wiring instructions for “Push-To-Test” button are supplied with fixture.



## Illustrated Features



- Remote “Push-To-Test” switch is available to verify emergency operation (order separately, see F3-82).
- Red indicator light is provided with each battery pack to indicate when the battery is charging.

## Standard Materials

- Ballast bodies, guards and pendant mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Ceiling, bracket and stanchion mounting hoods: sand-cast copperfree (4/10 of 1% max.) aluminum
- Reflectors: aluminum or fiberglass reinforced polyester

## Standard Finishes

- Ballast bodies, guards and mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform corrosion protection

## Options

- Fuse kit CF2 for field installation.

## NEC Certifications and Compliances

- UL Standard: UL 924, UL 844, UL 1598
- UL Listed: E165014

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### Classified Area Suitability of Code•Master 2 Emergency Series (Suitability includes use of reflector)

| Lamp Type | Lamps Watts | Ambient Temp °C (°F) | Class I, Division 1 and 2<br>With Globe or with Globe and Reflector<br>UL/NEC Temp. Ident. No. |        | Class II, Division 1 and 2<br>With Globe or with Globe and Reflector<br>UL/NEC Temp. Ident. No. |         |
|-----------|-------------|----------------------|--|--------|---|---------|
|           |             |                      | Nameplate Marking  | Groups | Nameplate Marking   | Groups  |
| PLT       | 52          | 40 (104)             | T6   | C, D   | T4  | E, F, G |
|           | 64          | 40 (104)             | T6   | C, D   | T4  | E, F, G |
|           | 84          | 40 (104)             | T6   | C, D   | T4  | E, F, G |

“T” Numbers Represent the Maximum Surface Temperature for Class I, Division 1 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 |

### Fixture and Accessory Weights in kg (lb)

| Fixture Size | Fixture Weight | Reflector Weight | Guard Weight |
|--------------|----------------|------------------|--------------|
| 52 W         | 20.4 (44.97)   | 1.4 (3.09)       | 0.9 (1.98)   |
| 64 W         | 20.4 (44.97)   | 1.4 (3.09)       | 0.9 (1.98)   |
| 84 W         | 20.4 (44.97)   | 1.4 (3.09)       | 0.9 (1.98)   |

### Mounting Hood Weights kg (lb)

| Pendant    | Ceiling    | Bracket    | Stanchion  |
|------------|------------|------------|------------|
| 0.9 (1.98) | 1.8 (3.97) | 2.7 (5.95) | 0.9 (1.98) |

### Electrical Specification for AC Operation

| Fixture Wattage | Line Voltage (V) | Frequency (Hz) | Type of Ballast | Line Amps (A) | Maximum Wattage (W/W) | Catalog Number ① |
|-----------------|------------------|----------------|-----------------|---------------|-----------------------|------------------|
| 52              | 120              | 60             | PLT Electronic  | 0.49          | 52                    | CMBFS5212        |
| 52              | 277              | 60             | PLT Electronic  | 0.20          | 52                    | CMBFS5227        |
| 64              | 120              | 60             | PLT Electronic  | 0.57          | 64                    | CMBFS6412        |
| 64              | 277              | 60             | PLT Electronic  | 0.24          | 64                    | CMBFS6427        |
| 84              | 120              | 60             | PLT Electronic  | 0.73          | 84                    | CMBFS8412        |
| 84              | 277              | 60             | PLT Electronic  | 0.31          | 84                    | CMBFS8427        |

① For optional fusing, order kit -CF2.

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|   | Lamp Watts | Lamp Type | Hub Size (Inches)   | Catalog Number ②③    |       |
|---|------------|-----------|---------------------|----------------------|-------|
| <b>Pendant</b>  |            |           |                     |                      |       |
|                                        | 52         | PLT       | 3/4                 | CFPS5275             |       |
|   |            |           | 1                   | CFPS5210             |       |
|   | 64         | PLT       | 3/4                 | CFPS6475             |       |
|   |            |           | 1                   | CFPS6410             |       |
|   | 84         | PLT       | 3/4                 | CFPS8475             |       |
|   |            |           | 1                   | CFPS8410             |       |
| <b>Ceiling</b>  |            |           |                     |                      |       |
|                                        | 52         | PLT       | 3/4                 | CFCS5275             |       |
|   |            |           | 1                   | CFCS5210             |       |
|   | 64         | PLT       | 3/4                 | CFCS6475             |       |
|   |            |           | 1                   | CFCS6410             |       |
|   | 84         | PLT       | 3/4                 | CFCS8475             |       |
|   |            |           | 1                   | CFCS8410             |       |
| <b>Bracket</b>  |            |           |                     |                      |       |
|                                      | 52         | PLT       | 3/4                 | CFBS5275             |       |
|   |            |           | 1                   | CFBS5210             |       |
|   | 64         | PLT       | 3/4                 | CFBS6475             |       |
|   |            |           | 1                   | CFBS6410             |       |
|   | 84         | PLT       | 3/4                 | CFBS8475             |       |
|   |            |           | 1                   | CFBS8410             |       |
| <b>25° Stanchion</b>  |            |           |                     |                      |       |
|                                      | 52         | PLT       | 1-1/4 or 1-1/2 ①    | CFSS52150            |       |
|   |            |           | 1-1/4 or 1-1/2 ①    | CFSS64150            |       |
|   | 64         | PLT       | 1-1/4 or 1-1/2 ①    | CFSS64150            |       |
|   |            |           | 1-1/4 or 1-1/2 ①    | CFSS84150            |       |
|   | 84         | PLT       | 1-1/4 or 1-1/2 ①    | CFSS84150            |       |
|   |            |           | 1-1/4 or 1-1/2 ①    | CFSS84150            |       |
| <b>Fixture Units</b>  |            |           |                     |                      |       |
| Ballast body with globe. Indicate voltage desired by adding voltage suffix to Fixture Unit catalog number listed below. |            |           |                     |                      |       |
|                                      | Lamp Watts | Lamp Type | Unit Catalog Number | Add Voltage Suffixes |       |
|   |            |           |                     | 120 V                | 277 V |
|   | 52         | PLT       | CMBFS52             | 12                   | 27    |
|   | 64         | PLT       | CMBFS64             | 12                   | 27    |
|   | 84         | PLT       | CMBFS84             | 12                   | 27    |

① 1-1/2" tapped hub furnished with 1-1/2" to 1-1/4" reducer.  
 ② To order fixture with guard, add suffix -G before adding voltage suffix.  
 ③ Add voltage suffix -12L for 120 V with lamp; or -27L for 277 V with lamp.