

GENERAL DESCRIPTION

The CMF/CNM Series is a versatile luminaire that is ideal for installations that include commercial and light industrial environments where a contemporary style is required. The CMF/CNM Series is optionally UL listed for use in damp locations with temperatures ranging from 32°F (0°C) to 104°F (40°C). The CMF/CNM Series meets the Buy American requirements.

Optional custom mounting plates are available to facilitate wall mount installations. The use of the additional optional strapping kit allows the mounting plate to be fixed to columns, poles or I-beams.

Equipped with Intelli-Charge, the CMF/CNM Series is provided standard with an on-board IR receiver and is pre-programmed for use with our optional hand held test device allowing for remote testing in accordance with all applicable building code requirements. One-minute and 90-minute testing may also be initiated via the push to test switch on the unit.

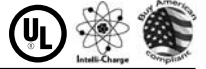
The Intelli-Charge circuit is a continuous, real-time diagnostics circuit allowing for precise equipment readiness indications via the dual colored LED indicator. This indicator feature also serves as the AC power, charge status and mode of operation indicator for immediate recognition of the equipment operating state. The standard diagnostics function is enabled without the optional self-testing in order to provide the highest level of equipment readiness and for use in areas where unscheduled transfer testing is not desired. Microprocessor controlled temperature compensation is equivalent to 3mV/C°, optimizing the useful life and readiness of the battery.

ILLUMINATION

Illumination is accomplished with two PAR 36 lamp heads mounted on the top or side of the enclosure. 75-100w units can accommodate up to three lamp heads mounted directly to the top, side or bottom of the housing.

CMF/CNM Series

Commercial/Light Industrial Emergency Lighting 6 Volt, 25 to 100 Watts, Lead Calcium and Nickel Cadmium Standard Self-Diagnostics Electronics*



HOUSING

Enclosure is constructed of 20 gauge steel (25-50w) or 18 gauge steel (75-100w) with a 20 gauge cover and a white corrosion-resistant, epoxy powder coat finish. Nine standard and custom colors available, consult factory. Available with a wide range of fully adjustable lamp heads to meet your egress lighting needs. Easily mounted with key hole slots or shelf mounting. All housings have six available 1/2" conduit knockouts.

INTELLI-CHARGE ELECTRONICS

Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation. See specification sheet C1059 for electronics details. 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard.

INTELLI-CHARGE SELF-TESTING DIAGNOSTICS* (OPTIONAL)

The Intelli-Charge diagnostic/charging platform with optional self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

OPERATING TEMPERATURE RANGE

Standard Location: 65°F (18°C) to 85°F (29°C)
Damp Location: 32°F (0°C) to 104°F (40°C)

BATTERY

Maintenance-free sealed lead calcium battery with 5-year life or maintenance-free sealed nickel cadmium with 10-year life.



SHOWN: CMF50A21C

ELECTRICAL SPECIFICATIONS

Input power requirements

6V Lead Calcium	120 VAC	277 VAC
25-100 watt units -	0.125A	0.060A
6V NiCad		
25-50 watt units -	0.159A	0.065A
75 watt units -	0.223A	0.094A

CODE COMPLIANCE

UL 924 listed
UL Damp Location listing option 32°F (0°C) to 104°F (40°C)
NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
City of Chicago Approved (CHY heads only)
New York City Approved

WARRANTY

Three year full electronics warranty. One year full plus four year prorated lead calcium battery warranty. Five year full plus five year prorated nickel cadmium battery warranty.

*Self-powered models incorporate the Intelli-Charge diagnostics electronics package. Self-testing is a factory installed option.

ORDERING INFORMATION (EXAMPLE: CMF50A21C)

SERIES/BATTERY	LAMP HEADS (Metal Chrome PAR 36)	# OF HEADS	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS
6 Volt, Lead Calcium CMF25 = 25 Watt CMF36 = 36 Watt CMF50 = 50 Watt CMF75 = 75 Watt CMF100 = 100 Watt 6 Volt, Nickel Cadmium CNM25 = 25 Watt CNM50 = 50 Watt CNM75 = 75 Watt	6 VDC Tungsten Y = 8 Watt A = 18 Watt L = 25 Watt C = 30 Watt 6 VDC Halogen F = 6 Watt Q = 8 Watt CHY = 12 Watt	Blank = No Heads 1 = One 2 = Two 3 = Three ⁴	IC = Intelli-Charge Diagnostics	A = Ammeter BD = Battery Disconnect Switch BM = Lamp Heads Installed on Bottom of Enclosure ² DL = UL Damp Location Listed (0°C to 40°C) EX = Special Input Transformer (specify voltage & frequency) ¹ F1 = 120 VAC Input Fuse F2 = 277 VAC Input Fuse P1 = 120 VAC Power Switch P2 = 277 VAC Power Switch SM = Lamp Heads Installed on Side of Enclosure ³ SP = Special Paint, Specify Color T = Self-Testing Diagnostics TA = Audible Self-Testing Diagnostics TD = Time Delay, 15 Minutes V = Voltmeter

(Optional lamp heads available, consult factory or refer to lamp heads page.)

ACCESSORIES (order as a separate line item)

ICIR = Intelli-Charge Infra-Red Remote
SSMP = Mounting Plate (25W-50W)
SMMP = Mounting Plate (75W-100W)
SKIT = Strapping Kit For Use With Mounting Plates To Affix To Columns, Poles and I-beams
WG5 = Wire Guard (25W-100W)

NOTES:

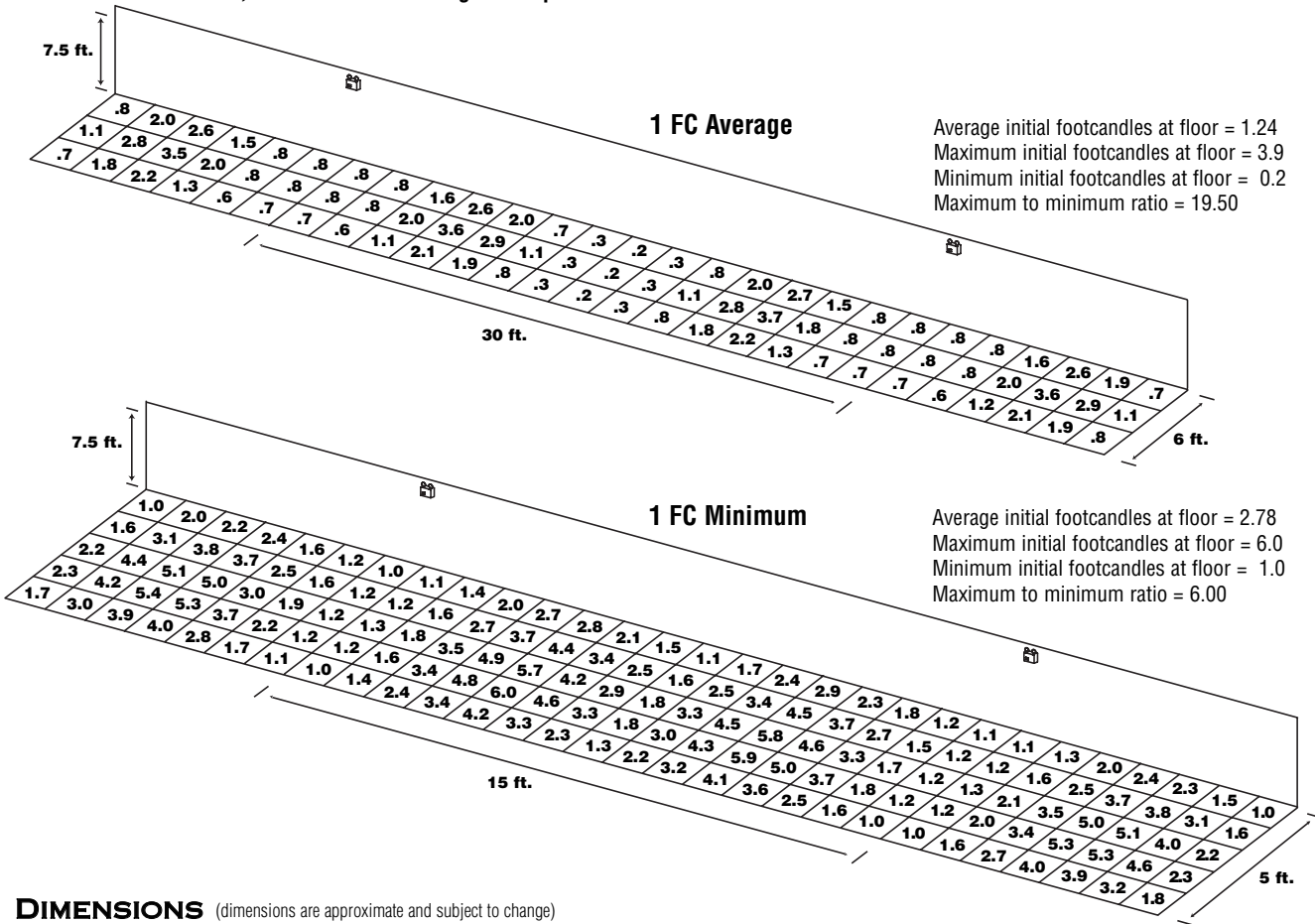
- Some option combinations may impact UL listing. Consult factory for specifics.
- Bottom mounted lamp heads (BM) available on 75-100w units only.
- Side mounted lamp heads (SM) are not installed onto the enclosure at the factory.
- 75-100w units only.

Specification Data for CMF/CNM Series

OPTICS* (IES formatted files are available on-line)

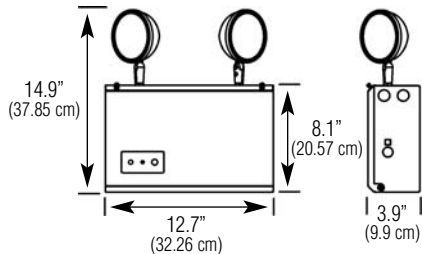
* The optics layout shown is intended to be used as reference only. Standard reflectances used were 80/50/20. Chloride Systems is not responsible for site specific conditions that may alter the results.

Wall mounted 7.5' AFF, 6V 12W PAR 36 Halogen Lamps

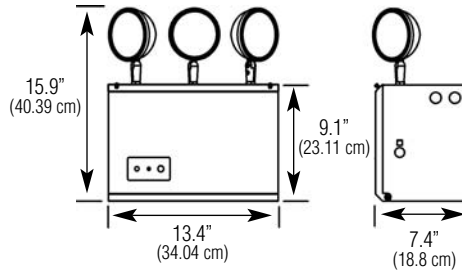


DIMENSIONS (dimensions are approximate and subject to change)

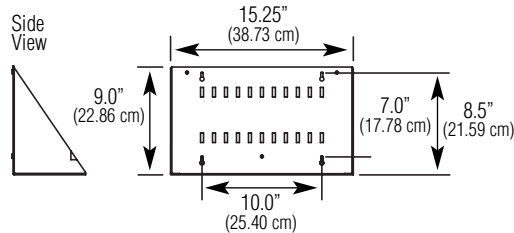
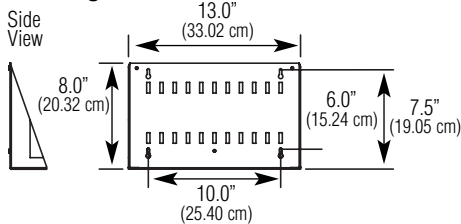
25 - 50 Watt



75 - 100 Watt



Mounting Plates



SUGGESTED SPECIFICATION

Furnish and install Chloride Systems' emergency lighting unit model _____ . The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

ELECTRONICS - All models shall be provided with Chloride Systems' Intelli-Charge self-diagnostics electronics platform. Intelli-Charge will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The Intelli-Charge electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and lamp load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics shall be available from the factory. The optional self-testing software shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code, as well as the International Building Code (IBC). The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. The Intelli-Charge circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions equal to 3mV/°C compensation to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

BATTERY - The battery shall be a maintenance free, sealed nickel cadmium or sealed lead calcium battery. The models selected with optional damp location listing shall provide trouble-free operation in temperatures up to 104°F (40°C).

HOUSING - The enclosure is constructed of 20 gauge steel (25-50w) or 18 gauge steel (75-100w) with a 20 gauge cover and a white corrosion-resistant, epoxy powder coat finish. A mounting plate may be used to facilitate wall mounting or used with an optional strapping kit to affix to columns, poles or I-beams.



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