

CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

GENERAL DESCRIPTION

Chloride's Fusion² product provides all of the benefits of the original Fusion emergency lighting unit but in a package that is specially designed for drop-in installation into 2' x 2' suspended ceiling systems. It features a 2' x 2' aluminum faceplate which completely replaces a ceiling tile, eliminating the need to cut an opening in a tile. The result is quicker installation and a neater finished appearance. The center portion of the faceplate, which contains the lamps, reflectors and wiring, is removable from the room side of the unit to ease maintenance. Fusion² meets the Buy American requirements.

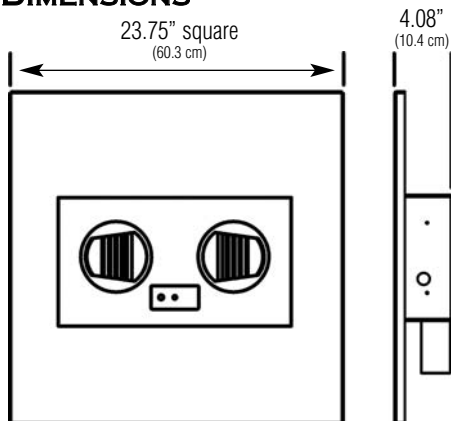
ILLUMINATION

Illumination is provided by two high performance 35-watt MR-16 lamps combined with a reflector system. Optical assemblies can be rotated from 0° to 90° for corner installations. Fusion² generates an average of 1 footcandle of emergency illumination over a 6' x 90' path of egress with a mounting height of 10' AFF. The lamps remain hidden during emergency illumination. IES photometric data files are available upon request.

INSTALLATION

The new Fusion² aluminum faceplate allows direct ceiling tile replacement. Openings are provided in the housing for structural support wire and bar hanger support. Multiple knockouts are provided for conduit entry.

DIMENSIONS



Dimensions are approximate and subject to change.

Fusion²

Specially Designed for Suspended Ceiling Installations

12 Volt, 72 Watt Units
Sealed Lead Calcium Battery
Excellent Photometric Performance
Easy Installation

HOUSING

Backbox constructed of 14 gauge galvanized steel.

2' x 2' faceplate constructed of 1/8" thick aluminum for strength and allows direct ceiling tile replacement. Available in white or black powder coated finishes.

Use structural support wire or bar hanger kit (available separately – see "ACCESSORIES") to complete installation.

For suspended ceiling installation only. Use F1 Fusion unit for sheetrock ceiling or wall mount installations.

INTELLI-CHARGE ELECTRONICS

120/277 VAC dual voltage input with surge protection is standard on all models.

Charging system is microprocessor driven with software embedded diagnostic routine and precision temperature compensation. See specification sheet C1059 for technical specifications for the electronics. Surge protection, brownout, AC lockout, and low voltage disconnect features are standard.

INTELLI-CHARGE SELF-TESTING DIAGNOSTICS (OPTIONAL)

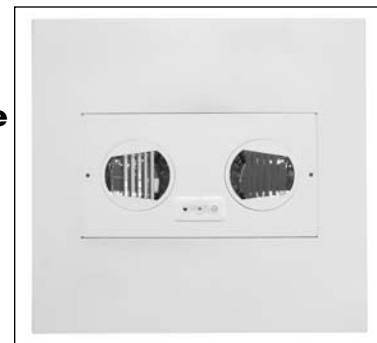
The Intelli-Charge diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate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

ELECTRICAL SPECIFICATIONS

Input power requirements

.27 Amps (120 VAC)

.13 Amps (277 VAC)



SHOWN: F2WIC

BATTERY

Maintenance free, sealed lead calcium batteries

Supplies 90 minutes of emergency power

Estimated service life of 5 years at an operating temperature range of 65°F (19°C) to 85°F (30°C).

CODE COMPLIANCE

UL 924 listed for suspended ceiling systems

IC rated for insulated suspended ceilings

NFPA 101, NEC, BOCA, OSHA, and IBC illumination standard

WARRANTY

Three year full electronics warranty

One year full plus four year prorated lead calcium battery warranty

ORDERING INFORMATION (EXAMPLE: F2WIC)

F2	□	IC	—	□
SERIES	HOUSING COLOR	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS	
F2 = Fusion 2 X 2 Emergency Unit	W = White B = Black	IC = Intelli-Charge Diagnostics	EX = Special Transformer (must specify voltage & frequency) ¹ T = Self-Testing Diagnostics (non-audible) TA = Audible Self-Testing Diagnostics TD = Time Delay ² TP = Tamperproof	

NOTES:

- 1) Some options impact UL listing. Consult factory for specifics.
- 2) 15 minute time delay

ACCESSORIES (order as a separate line item)

F2BHK = Bar Hanger Kit
 T15TPTOOL = Tamperproof Screwdriver
 RPLTSW = Remote Test Switch Kit for Single Gang Wall Box
 ICIR = Intelli-Charge Infra-Red Remote

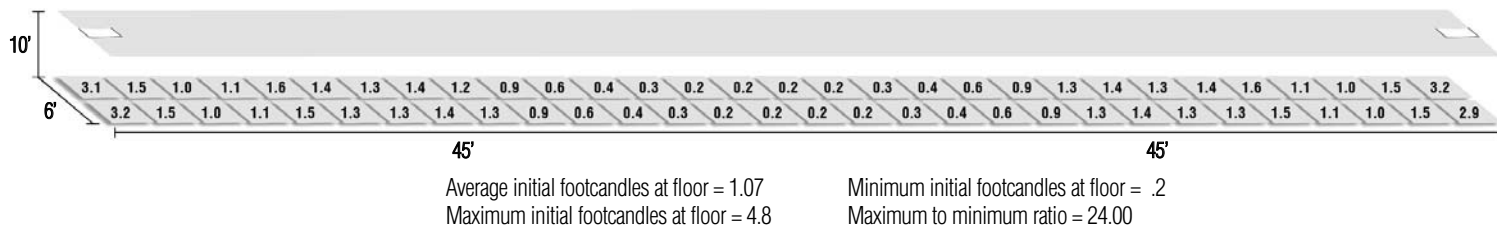
Specification Data for Fusion² Emergency Lighting

ILLUMINATION

I.E.S. format photometric data files are available for use with most lighting layout application software.
Contact: Chloride Technical Service for specific layout assistance.

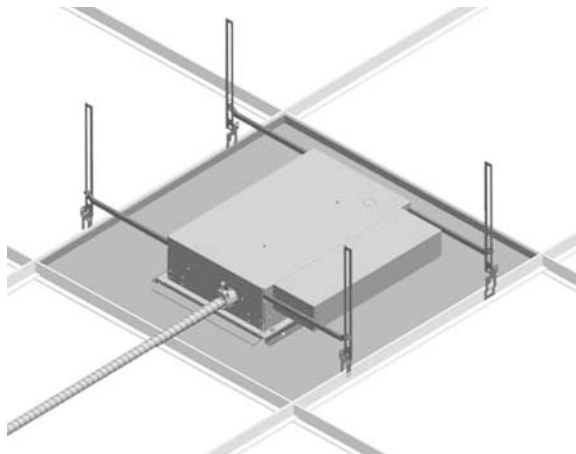
OPTICS

Recessed Ceiling Mount, 10' AFF



Recessed ceiling mount performance was performed in an open environment. Wall reflectance will increase performance.

View showing bar hanger installation



SUGGESTED SPECIFICATION

Furnish and install Chloride's concealed emergency lighting model _____ . The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924, be IC rated, and must be installed to conform to Article 700 of 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 provide emergency battery power and maintain the illumination level and output wattage for a minimum period of 90 minutes, in accordance with the requirements of the NFPA 101. Upon restoration of utility power, the charging circuitry shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes. The unit shall not have any moving mechanisms during emergency operation ensuring reliable operation.

ELECTRONICS - All models shall be provided with Chloride's 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 maintenance free, sealed lead calcium. The sealed lead calcium battery shall provide trouble-free operation in temperatures up to 85°F (30°C) and is supplied with a one year full warranty.

ILLUMINATION - Illumination shall be provided by a fully recessed optical system utilizing 35 watt MR16 halogen lamps. The unit shall provide an average of 1 footcandle of emergency lighting over a 6' x 90' egress path, when mounted 10' AFF.

HOUSING - Housing construction shall be of 14 gauge galvanized steel and 1/8" aluminum. Unit shall be available in white or black powder coat finish. Unit shall have provisions for bar hangers and/or structural cable supports. All electrical components shall be modular, and should be easily removed for service from front of unit without removal of product from ceiling.



CHLORIDE
SYSTEMS

272 West Stag Park Service Road • Burgaw NC 28425
Telephone: (910) 259 1000 • Facsimile: (800) 258 8803
www.chloridesys.com

C1341R11
10/10 IH