CHLORIDE SYSTEMS

TYPE: _____

CATALOG NO.: _____

Max-Lite Series

Hostile Environment Emergency Lighting

6 and 12 Volt, 25 to 150 Watts
Standard Self-Diagnostics Electronics*

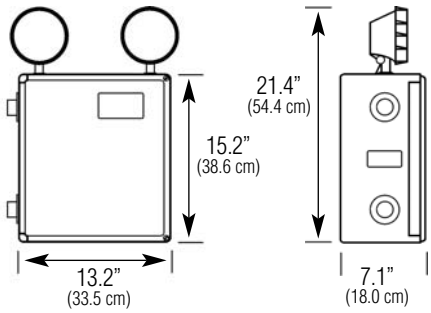
General Description

The Max-Lite Series is ideal for locations where oil, water, and dust resistant equipment are required. The Max-Lite Series is UL listed for use in damp and wet locations with temperatures ranging from 32°F (0°C) to 104°F (40°C). Practical installations where the Max-Lite Series excels consist of manufacturing facilities, parking decks, warehouses, water treatment facilities and the like.

Equipped with Intelli-Charge, the Max-Lite 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. The Max-Lite Series is a Made in the USA product.

Dimensions



Dimensions are approximate and subject to change.

Housing

Constructed of impact resistant, fiberglass reinforced polyester, the housing color is gray and includes stainless steel hardware. The view-through window allows easy monitoring of the optional voltmeter and ammeter. Available with NEMA rated polycarbonate sealed beam Par 36 tungsten or halogen lamp heads. Optional shatter-resistant shield for lamp heads is designed for use in food service areas.

Intelli-Charge Diagnostic Electronics (standard)

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.

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.

Shown: MN25ZV2IC

Battery

Maintenance free, sealed lead calcium battery has an estimated service life of 5 years and an operating temperature range of 32°F (0°C) to 104°F (40°C). Maintenance free, sealed nickel cadmium battery has an estimated service life of 10 years and an operating temperature range of 32°F (0°C) to 104°F (40°C). Batteries supply 90 minutes of emergency power.

Code Compliance

UL 924 listed
UL damp and wet location listed 32°F (0°C) to 104°F (40°C)
NFPA 70 and NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
NSF Standard 2 "Splash Zone"

Electrical Specifications

Input power requirements

6 Volt
25-50W - 0.157A (120VAC), 0.069A (277 VAC)
75W - 0.222A (120VAC), 0.094A (277 VAC)

12 Volt
50-100W - 0.289A (120VAC), 0.135A (277 VAC)
125W - 0.433A (120VAC), 0.188A (277 VAC)
150W - 0.470A (120VAC), 0.203A (277 VAC)

Ordering Information (Example: MN25ZV2IC)

[ ] | [ ] | [ ] | [IC] | [ ]

Series/Battery

6 Volt, Lead Calcium
MC25 = 25 Watt Unit
MC50 = 50 Watt Unit
MC75 = 75 Watt Unit

6 Volt, Nickel Cadmium
MN25 = 25 Watt Unit
MN50 = 50 Watt Unit
MN75 = 75 Watt Unit

12 Volt, Lead Calcium
MTC50 = 50 Watt Unit
MTC75 = 75 Watt Unit
MTC100 = 100 Watt Unit
MTC125 = 125 Watt Unit
MTC150 = 150 Watt Unit

12 Volt, Nickel Cadmium
MTN50 = 50 Watt Unit
MTN75 = 75 Watt Unit
MTN100 = 100 Watt Unit
MTN125 = 125 Watt Unit
MTN150 = 150 Watt Unit

Lamp Heads

6 Volt, Tungsten
ZM = 8 Watts
ZN = 18 Watts
ZO = 25 Watts

6 Volt, Halogen
ZU = 8 Watts
ZV = 12 Watts

12 Volt, Tungsten
ZQ = 12 Watts
ZR = 18 Watts
ZS = 25 Watts

12 Volt, Halogen
ZW = 8 Watts
ZX = 12 Watts
Z5 = 50 Watts, Flood
Z5F = 50 Watts, Flood

of Heads

Blank = No Lamp Heads
1 = One Lamp Head
2 = Two Lamp Heads
3 = Three Lamp Heads

Model Designator[1]

IC = Intelli-Charge Diagnostic Electronics

Factory Installed Options[2]

A = Ammeter
BD = Battery Disconnect Switch
EX = Special Input Transformer (specify voltage & frequency)
F1 = 120 VAC Fuse
F2 = 277 VAC Fuse
P1 = 120 VAC Power Switch
P2 = 277 VAC Power Switch
S = Shatterproof Lexan Lamp Head Lens
T = Self-Testing Diagnostics
TA = Audible Self-Testing Diagnostics
TD = Time Delay (15 minutes)
V = Voltmeter

Accessories (order as a separate line item)

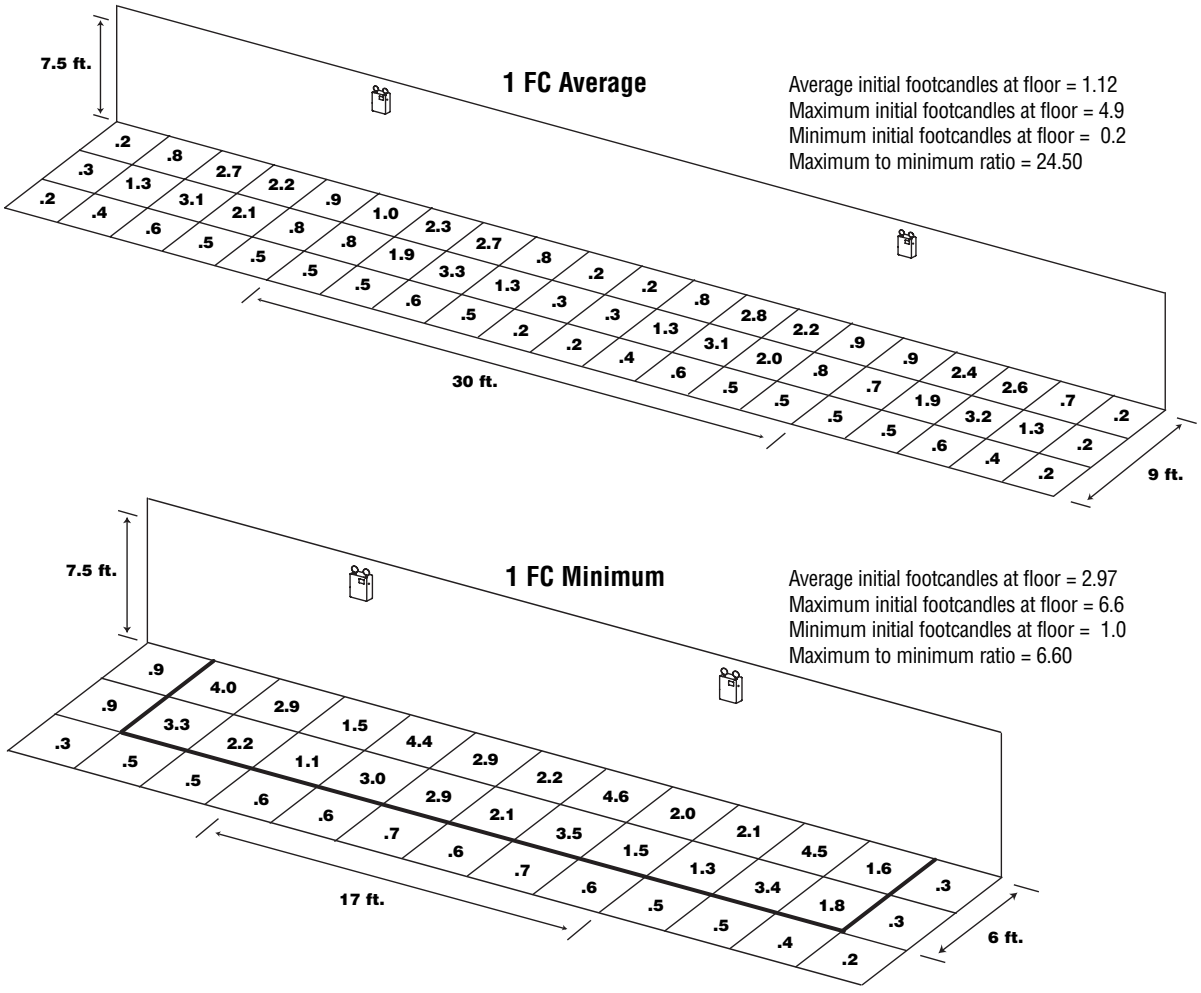
ICIR = Intelli-Charge Infra-Red Remote
WG = Wire Guard

NOTES:
1) For self-testing models refer to options. 2) Some option combinations may impact UL listing. Consult factory for specifications.

Specification Data for Max-Lite Series NEMA Rated Emergency Lighting Units

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

Wall Mounted 7.5' AFF, 12V 12W Halogen Lamp Heads Represented



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

SUGGESTED SPECIFICATION

Furnish and install Chloride Systems' Max-Lite Series emergency lighting unit model _____. The unit shall be listed to Underwriter's Laboratories, Inc. standard 924 and meet all applicable standards in the National Electrical Code (NEC), International Building Code (IBC) as well as all state and municipal requirements. The unit shall be UL wet location listed standard for use in areas with temperatures ranging from 32° F (0° C) to 104° F (40° C). Additional listings shall include NSF standard 2 "Splash Zone".

INSTALLATION AND OPERATION - The unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, 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 to battery power and maintain the required illumination level for a minimum period of not less than 90-minutes at the coldest rated temperature of the unit without the need to de-rate the capacity of the equipment. Upon restoration of utility power, the charging system shall restore the battery to full charge within UL 924 requirements following a complete discharge cycle of the unit.

ELECTRONICS - The equipment shall be provided with Chloride's Intelli-Charge electronics system. Intelli-Charge will detect and notify the installer of incorrect wiring of the transformer primary and restrict any damaging effects from reaching the printed circuit board. The Intelli-Charge electronics 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 load loss detection to 10% of all connected loads. A visual indicator provides fault notification with the option to add an audible alarm as well. The optional self-testing software shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Fire Code (IFC). The Intelli-Charge with self-testing option automatically runs a one-minute test every 30 days and a thirty minute test on the sixth and twelfth month. The Intelli-Charge system shall employ temperature compensation which continuously samples the ambient temperature and adjusts the charging system for typical and dramatic temperature fluctuations at a rate equal to 3mV/C° to maximize the life and readiness of the batteries. An on-board IR receiver shall be standard and pre-programmed to operate from an optional hand-held IR test device (available as an accessory item).

BATTERY - The battery shall be either maintenance-free sealed lead calcium or nickel cadmium type. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 104°F (40°C) and be tested and approved under IEC standard 61951-1. The lead calcium battery shall provide trouble-free operation in temperatures up to 104°F (40°C).

HOUSING - The housing shall be constructed of impact-resistant, fiberglass reinforced polyester. Internal or external mounting feet shall be provided standard. The unit shall be UL wet location listed.

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