

Part 1 GENERAL

1.1 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA C22.2 No.141-2015, Unit Equipment for Emergency Lighting.
 - .2 CSA C860-2016, Performance of Internally-Lighted Exit Signs.
- .2 National Fire Protection Association (NFPA)
 - .1 NFPA 101-2015, Life Safety Code.

1.2 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Quality Assurance Submittals: submit following in accordance with Section 01 45 00 - Quality Control.
 - .1 Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures and disposal.

Part 2 PRODUCTS

2.1 STANDARD UNITS

- .1 Exit lights: to CSA C22.2 No.141 and CSA C860.
- .2 Housing: cold rolled steel minimum 1.0 mm thick, satin aluminum enamel finish.
- .3 Face and Back plates: extruded aluminum.
- .4 Lamps: LED-12W, 120 V, over 500,000 hours with average surface brightness of 3000 candela.
- .5 Operation: designed for 25 years of continuous operation without relamping.
- .6 Exit signs shall feature the 'Running Man' symbol on die cast aluminum face.
- .7 Downlight: white glass in bottom of unit.
- .8 Face plate to remain captive for relamping
- .9 Single or double face, as indicated.

- .10 Arrow: right or left as indicated.

2.2 **SELF-POWERED UNITS**

- .1 Exit lights: to CSA C22.2 No.141 and CSA C860.
- .2 Exit signs shall feature the green running man pictogram
- .3 Housing: cold rolled steel minimum 1.0 mm thick, satin aluminum enamel finish.
- .4 Face and Back plates: extruded aluminum.
- .5 Lamps: LED-12W, 120 V, over 500,000 hours with average surface brightness of 3000 candela.
- .6 Operation: designed for 25 years of continuous operation without relamping.
- .7 Exit signs shall feature the 'Running Man' symbol on die cast aluminum face.
- .8 Downlight: white glass in bottom of unit.
- .9 Face plate to remain captive for relamping.
- .10 Supply voltage: 120 V, ac.
- .11 Output voltage: 12 V dc.
- .12 Operating time: 90 minimum.
- .13 Recharge time: 12 hours
- .14 Battery: sealed, maintenance free.
- .15 Charger: solid state, voltage/current regulated, inverse temperature compensated, short circuit protected, with regulated output of plus or minus 0.01 V for plus or minus 10% V input variation.
- .16 Solid state transfer circuit.
- .17 Signal lights: solid state, for 'AC Power ON' condition.
- .18 Lamp heads: integral on unit, 345 degrees horizontal and 180 degrees vertical adjustment.
 - .1 Lamp type: LED.
- .19 Mounting: suitable for universal mounting directly on junction box and c/w knockouts for conduit.
 - .1 Removable or hinged front panel for easy access to batteries.
- .20 Cabinet: finish: Standard.
- .21 Auxiliary equipment:

- .1 Ammeter.
- .2 Voltmeter.
- .3 Lamp disconnect switch.
- .4 Test switch.
- .5 AC/DC output terminal blocks inside cabinet.
- .6 RFI suppressor.
- .7 Cord and single twist-lock plug connection for AC power supply.

Part 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install exit lights to manufacturer's recommendations, listing requirements, NFPA standard and local regulatory requirements.
- .2 Connect fixtures to exit light circuits.
- .3 Connect emergency lamp sockets to emergency circuits.
- .4 Ensure that exit light circuit breaker is locked in on position.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION