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**Part 1            GENERAL**

**1.1                SECTION INCLUDES**

- .1        Materials and installation for emergency lighting systems.

**1.2                REFERENCES**

- .1        Canadian Standards Association (CSA International)
  - .1        CSA C22.2 No.141-2015, Unit Equipment fo Emergency Lighting.

**1.3                SUBMITTALS**

- .1        Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Data to indicate system components, mounting method, source of power and special attachments.

**1.4                WARRANTY**

- .1        For batteries, the 12 months warranty period prescribed in subsection GC32.1 of General Conditions "C" is extended to 120 months, with no-charge replacement during the first 5 years and pro-rate charge on the second 5 years.

**Part 2            PRODUCTS**

**2.1                EQUIPMENT**

- .1        Emergency lighting equipment: to CSA C22.2 No.141.
- .2        Supply voltage: 120 V, ac.
- .3        Output voltage: 12 V dc.
- .4        Operating time: 90 min.
- .5        Battery: sealed, maintenance free.
- .6        Charger: solid state, multi-rate, voltage/current regulated, inverse temperature compensated, short circuit protected with regulated output of plus or minus 0.01V for plus or minus 10% input variations.
- .7        Solid state transfer circuit.
- .8        Low voltage disconnect: solid state, modular, operates at 80% battery output voltage.
- .9        Signal lights: solid state, for 'AC Power ON'

- .10 Lamp heads: integral on unit and remote, 345 degrees horizontal and 180 degrees vertical adjustment. Lamp type: LED.
- .11 Cabinet: suitable for direct or shelf mounting to wall and c/w knockouts for conduit. Removable or hinged front panel for easy access to batteries.
- .12 Finish: Standard
- .13 Auxiliary equipment:
  - .1 Ammeter.
  - .2 Voltmeter.
  - .3 Test switch.
  - .4 Time delay relay.
  - .5 Battery disconnect device.
  - .6 AC input and DC output terminal blocks inside cabinet.
  - .7 Shelf
  - .8 Cord and single twist-lock plug connection for AC.
  - .9 RFI suppressors.

## **2.2 WIRING OF REMOTE HEADS**

- .1 Conduit: type EMT, in accordance with Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .2 Conductors: RW90 type in accordance with Section 26 05 21 - Wires and Cables 0-1000 V, sized in accordance with manufacturer's recommendations.

## **Part 3 EXECUTION**

### **3.1 INSTALLATION**

- .1 Install unit equipment and remote mounted fixtures.
- .2 Direct heads.
- .3 Connect exit lights to unit equipment.

**END OF SECTION**