

PART 1      GENERAL

1.1 SECTION INCLUDES

- .1 Materials and installation for emergency lighting systems.

1.2 RELATED SECTIONS

- .1 Division 01.
- .2 Section 26 05 01 - Common Work Results - Electrical.
- .3 Section 26 05 21 - Wires and Cables (0-1000 V).
- .4 Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.

1.3 REFERENCES

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

1.4 SUBMITTALS

- .1 Data to indicate system components, mounting method, source of power and special attachments.

1.5 WARRANTY

- .1 For batteries, the ten years warranty period is extended to 120 months, with no-charge replacement during the first 5 years and pro-rate charge on the second 5 years from the date of Substantial Completion.

PART 2      PRODUCTS

2.1 EQUIPMENT

- .1 Emergency lighting equipment: to CSA C22.2 No.141.
- .2 Supply voltage: 120 V, ac.

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- .3 Output voltage: 12 or 24 V dc.
  - .4 Operating time: as required by the latest edition of the NBC.
  - .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: micro-tungsten or sealed beam as indicated.
  - .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 Test switch.
    - .2 Time delay relay.
    - .3 Battery disconnect device.
    - .4 AC input and DC output terminal blocks inside cabinet.
    - .5 Shelf.
    - .6 Cord and single twist-lock plug connection for AC.
    - .7 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.

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- .2 Conductors: RW90 type in accordance with Section 26 05 21 - Wires and Cables (0-1000 V) sized as indicated 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.
- .4 Perform tests in accordance with Section 26 05 01 - Common Work Results - Electrical and in accordance with Division 01.