

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .1 | CSA International
.1 CSA C22.1-12, Canadian Electrical Code, Part 1 (22nd Edition), Safety Standard for Electrical Installations. |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .1 | Submit in accordance with Section 01 33 00. |
| | .2 | Product Data:
.1 Submit manufacturer's instructions, printed product literature and data sheets for photoelectric devices and include product characteristics, performance criteria, physical size, finish and limitations. |
| <u>1.3 DELIVERY, STORAGE AND HANDLING</u> | .1 | Deliver, store and handle materials in accordance with Section 01 61 00 and with manufacturer's written instructions. |
| | .2 | Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address. |
| | .3 | Storage and Handling Requirements:
.1 Store materials off ground and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
.2 Store and protect photoelectric devices from nicks, scratches, and blemishes.
.3 Protect metal accessories and trim from being bent or damaged.
.4 Replace defective or damaged materials with new. |
| | .4 | Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding and packaging materials in accordance with Section 01 74 20. |
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PART 2 - PRODUCTS

- 2.1 PHOTOELECTRIC LIGHTING CONTROL .1 Photoelectric Lighting Controls: to CSA C22.1.
- .1 Wall mounting.
 - .2 Capable of switching 1800 W of lighting at 120 V.
 - .3 Voltage variation: plus or minus 10%.
 - .4 Temperature range: minus 40 degrees C to plus 40 degrees C.
 - .5 Switching on lights at 50 lx.
 - .6 Switching off lights at 150 lx.
 - .7 Rated for 5000 operations.
 - .8 Options:
 - .1 Lightning arrester.
 - .2 Fail-safe circuit completed when relay de-energized.
 - .3 Twist-lock type receptacle.
 - .4 Terminal strip.
 - .5 Sensitivity adjustment.
 - .9 Switching time delay of 30 s.
 - .10 Wall mounting bracket.
 - .11 Colour coded leads: size 10 AWG, 460 mm long.

- 2.2 CONTACTOR .1 Contactor: to CSA C22.1.
- .1 Cabinet mounting.
 - .2 Capable of switching multiple lamp circuits with total lighting load of 6000 W.
 - .3 Waterproof enclosure.
 - .4 Manual override.

PART 3 - EXECUTION

- 3.1 EXAMINATION .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for lighting control device installation in accordance with manufacturer's written instructions.
- .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and
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- 3.1 EXAMINATION .1 (Cont'd)
(Cont'd) .3 (Cont'd)
after receipt of written approval to proceed
from Departmental Representative.
- 3.2 INSTALLATION .1 Install photoelectric controls in accordance
with manufacturer's written instructions and to
CSA C22.1.
- 3.3 CLEANING .1 Progress Cleaning: clean in accordance with
Section 01 74 11.
 .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus
materials, rubbish, tools and equipment in
accordance with Section 01 74 11.
- .3 Waste Management: separate waste materials for
reuse and recycling in accordance with Section
01 74 20.
 .1 Remove recycling containers and bins from
site and dispose of materials at appropriate
facility.
- 3.4 PROTECTION .1 Protect installed products and components from
damage during construction.
- .2 Repair damage to adjacent materials caused by
lighting control devices installation.