

Streetlight Photocontrols and Caps



1. Scope

This standard covers the requirements for streetlight photocontrols and shorting caps. This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Description
013129	Streetlight photocontrol, standard profile
015065	Streetlight photocontrol, low profile
569334	Shorting cap
015052	Non-shorting cap

2. Application

Photocontrols are used as light-sensing switches to control luminaires. Photocontrols are designed to switch luminaires off during the day and switch luminaires on at night.

Stock No. 013129 is for standard use.

Stock No. 015065 is for use in smaller luminaires where a low-profile photocontrol is required, such as the classic, post-top, decorative luminaires described in SCL 5725.15.

A shorting cap is installed in place of a photocontrol when a lamp is needed to stay on 24 hours a day.

A non-shorting cap is installed in place of a photocontrol in scenarios where lights need to be off temporarily 24 hours a day.

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3. Industry Standards

Photocontrols shall meet the applicable requirements of the latest revision of the following industry standard:

ANSI C136.10; American National Standard for Roadway and Area Lighting Equipment—Locking-type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing

4. Requirements

4.1 Photocontrols

Photocontrols shall have the following attributes:

Color	Black
Plug type	Locking type, three-pin, three-wire
Photosensor type	Silicon
Operating voltage range (V)	120-277
Design life, nominal	20 years
Load rating, LED, minimum (W)	1000
Load rating, ballast (VA)	1800
Operating temperature range, ambient (degrees C)	-40 to +70
Turn on response time range, seconds	0.5 to 5.0
Turn off response time range, seconds	0.5 to 5.0
Turn on light level (fc)	1.5
Turn off light level, maximum (fc)	2.25
Turn-off/turn-on ratio, nominal	1:1.5
Surge protection (J)	1280
Failure mode, nominal	Fail-on

Circuit board components shall be protected from the environment with a thin, transparent coating that does not promote heat buildup.

5. Design Changes

The manufacturer shall inform SCL in writing of all design changes that could affect the product's understood or published capabilities.

6. Testing

Photocontrols shall be tested according to the requirements of ANSI C136.10. Test results shall be provided upon request.

7. Marking

Each individual photocontrol shall be marked with the following information:

- Manufacturer name
- Model number
- Voltage rating
- Load rating
- North orientation
- Rotation of installation and removal

8. Packaging

Photocontrols shall be individually packaged to prevent damage from storage and handling.

From the outside of each individual package, the manufacturer's name and model number shall be clearly visible.

Each shipping container shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- Seattle City Light purchase order number
- Seattle City Light stock number

Shipping container weight shall not exceed 50 pounds.

9. Issuance

Stock Unit: EA

10. Approved Manufacturers

10.1 Stock No. 013129, Photocontrol, Standard Profile

Manufacturer	Catalog No.
Dark To Light/Acuity	DLL-127-1.5-BK-JU
Ripley Lighting Controls	6390LL-BK-1.5

10.2 Stock No. 015065, Photocontrol, Low Profile

Manufacturer	Catalog No.
Dark To Light/Acuity	DLL-127-1.5-LP-BK-JU

10.3 Stock No. 569334, Shorting Cap

Manufacturer	Catalog No.
Ripley Lighting Controls	6005

10.4 Stock No. 015052, Non-Shorting Cap

Manufacturer	Catalog No.
Ripley Lighting Controls	6007

11. References

SCL Material Standard 5725.15; Decorative Luminaires, LED, Post-Top, Classic"

12. Sources

SCL Material Standard 5731.12 (canceled); "Streetlight Photocontrols"

Shipek, John; SCL Standards Supervisor and originator of 5731.17

www.acuitybrands.com

www.ripleylightingcontrols.com