

Obstruction Beacons, Red LED



1. Scope

This standard covers the requirements for red light emitting diode (LED) obstruction beacons.

This standard applies to Seattle City Light (SCL) Stock No. 013079.

2. Application

Red LED obstruction beacons are used on SCL towers and structures that poses a hazard to aircraft. Beacons are equipped with infrared (IR) emitters, which are required for night vision navigation.

For flashing capability, use the obstruction beacon in conjunction with a non-stock control unit available from Communications.

Red LED obstruction beacons replace SCL Stock Nos. 568900 and 012772.

3. Industry Standards

Red LED obstruction beacons shall meet the applicable requirements of the latest revision of the following industry standards:

Code of Federal Regulations (CFR), Title 47, Part 15; "Radio Frequency Devices"

Federal Aviation Administration (FAA), AC 150/5345-43J; "Specification for Obstruction Lighting Equipment"

National Electrical Manufacturers Association (NEMA) 250, "Enclosures for Electrical Equipment (1000 Volts Maximum)"

4. Requirements

Product shall meet the following requirements:

- Red LED beacon, 120-240 Vac
 - Infrared (IR) emitter
 - Medium intensity, effective intensity 2000 cd
 - FAA type: L-864
 - IP66/NEMA 4x outdoor-rated enclosure
 - Steady burn or flashing capability
 - Omnidirectional, minimal down light / ground scatter
 - Nominal dimensions: 15 in x 15 in x 9 in
 - Weight, nominal: 20 lb
 - Operating temperature: -40F to 131°F
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5. Packaging

Product shall be packaged to prevent damage during shipping, handling, and storage.

Individual packages shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- Seattle City Light stock number

Shipping containers shall be legibly marked with:

- Seattle City Light purchase order number
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6. Issuance

Stock Unit: EA

7. Approved Manufacturer

<u>Manufacturer</u>	<u>Catalog No.</u>
Dialight Corp.	D664-R13-001

8. Sources

Neuansourinh, Ponet; SCL Standards Engineer and originator of 6916.15
SCL Stock Catalog page 50-45; January 12, 2011
FAA Advisory Circular AC 70/7460-1k; "Obstruction Marking and Lighting"
www.dialight.com
www.pr-tech.com