

Streetlight Luminaires, High Pressure Sodium, Wall-Mount**Not for new construction. For maintenance of existing facilities only.****Versaflood II****RLM18****1. Scope**

This standard covers the requirements for wall-mount, high pressure sodium (HPS) streetlight luminaires.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No	Description
568175	Wall-Mount, Floodlight, Versaflood II
572387	Wall-Mount, Alley Light, Downlighting, RLM18

2. Application

Wall-mount HPS luminaires are installed in City-designated areas and SCL-designated streetlight districts.

Stock No. 568175 is installed in underpass and tunnel locations.

Manufacturer has discontinued the Versaflood II luminaires. Contact Streetlight Engineering for guidance on replacement options.

All luminaires installed in the Pioneer Square district must be approved by the Pioneer square preservation board.

Alley light luminaires, Stock No. 572387, are used in the Pioneer Square lighting district. These luminaires are fed by either customer panels or the SCL distribution system. Luminaires fed by the SCL distribution system are typically controlled by contactors at ends of alleys. Photocells are not required.

3. Industry Standards

HPS pedestrian luminaires shall meet the applicable requirements of the latest revision of the following industry standards:

ANSI C136.22; Standards for Roadway and Area Lighting Equipment - Internal Labeling of Luminaires

ANSI C136.27; Standard for Roadway and Area Lighting Equipment — Tunnel Lighting and Underpass Luminaires

ANSI C136.31; Standards for Roadway and Area Lighting Equipment - Luminaire Vibration

ANSI C136.9; Standard for Roadway and Area Lighting Equipment — Socket Support Assemblies for Metal Heads—Mechanical Interchangeability

ASTM B117; Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM D523; Standard Test Method for Specular Gloss

ASTM D1654; Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments

ASTM D2247; Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity

ASTM G154; Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

IEEE C62.41.2; IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits

IESNA TM-15-11 (revised); Luminaire Classification System for Outdoor Luminaires

4. Requirements

4.1 Luminaire Type

HPS luminaires shall be of the wall-mount, outdoor type.

4.2 Housing

The housing shall be aluminum or polymer suitable for wet locations and resistant to ultraviolet light deterioration.

4.3 Lens

The lens shall be acrylic or polycarbonate and resistant to ultraviolet light deterioration.

4.4 Hardware Fastening Material

All visible hardware shall be stainless steel.

4.5 Sockets

All HPS sockets shall be porcelain, medium or mogul base, pulse-rated 4 kV and have a spring-loaded center contact. Sockets shall be factory prewired with a disconnect plug for the ballast module.

4.6 Electrical Module

All electrical components shall be UL Recognized for wet locations and shall be mounted on a single plate and factory prewired with disconnect plugs.

Ballasts shall be 120-Volt CWA type with a minimum starting temperature of 30 degrees F. Ballasts shall be completely wired to the terminal board and lamp socket.

4.7 Luminaire Light Distribution Patterns

Luminaire light distribution patterns shall conform to the IESNA classification system for Type III. Luminaire light distribution shall be free from striations and hot spots.

Photometric performance will be subject to testing by the Washington State Material Testing Laboratory to ensure conformance with these specifications and the photometric data submitted. A sample luminaire shall be submitted for testing when requested by the SCL department.

4.8 Luminaire Marking

Luminaires shall have an ANSI approved decal (three inches square) attached to the housing that is readily visible from the ground, indicating lamp type by color code (e.g., gold for "high pressure sodium"), and lamp wattage by numerical code.

4.9 Finish

The luminaire housing finish shall be a powder coating with a minimum thickness of 100 microns and shall meet salt spray requirements of ASTM B 117 and humidity resistance requirements of ASTM D 2247.

5. Marking

Luminaires shall have a nameplate identifying wattage, voltage, manufacturer, and date of manufacture.

6. Packaging

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

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity

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

- SCL purchase order number

7. Issuance

Stock unit: EA

8. Approved Manufacturers

8.1 Luminaire, Wall-Mount, Floodlight, Stock No. 568175

For Information Only. Manufacturer No Longer Offers This Product.

Manufacturer: General Electric Lighting Solution

Catalog Number: **V2FN-25-S-0-A-1-S-MN4-DB (DISCONTINUED)**

where:

V2FN = luminaire style, Versaflood II Signliter

25 = wattage, 250 watts

S = lamp, HPS, Mogul base

0 = Voltage, multi-tap

A = ballast type, autoregulate

1 = photocell function, None

S = Mounting options, standard – use knockouts for mounting

MN4 = IES distribution, medium, non-cutoff, type 4

DB = color, dark bronze

Manufacturer: General Electric Lighting Solution

Catalog Number: **V2FS-25-S-0-A-1-S-SN4-DB (DISCONTINUED)**

where:

V2FS = luminaire style, Versaflood II Signliter – Improved Optics

25 = wattage, 250 watts

S = lamp, HPS, Mogul base

0 = Voltage, multi-tap, 120/208/240/277

A = ballast type, autoregulate

1 = photocell function, None

S = mounting options, standard – use knockouts for mounting

SN4 = IES distribution, short, non-cutoff, type 4

DB = color, dark bronze

8.2 Luminaire, Wall-Mount, Alley Light, Stock No. 572387

Manufacturer: Sternberg Lighting

Catalog Number: **R3P/RLM18-62RWBBB-100HPS120-HPS100/MED-BKT**

where:

R3P/R18 = luminaire style, R18, Type III, 18-inch diameter shade

62RWBBB = mount, wall bracket arm with ballast box 10-1/8"

100HPS120 = ballast, 100 HPS, 120 Volt

HPS100/MED = lamp, HPS, 100-Watt, Medium Base

BKT = color, black textured

9. Sources

Borek, Tom; SCL Streetlight Engineer and subject matter expert for 5719.15.

Stock Catalog page 57-8; Streetlight Luminaires, Commercial and Arterial, April 1, 2004

Wang, Quan; SCL Standards Engineer, originator, and subject matter expert for 5719.15.

www.allianceforpioneersquare.org

www.products.gecurrent.com

www.sternberglighting.com