

Decorative Streetlight Poles, Aluminum, Anchor Base



1. Scope

This standard covers the requirements for 4-inch decorative, aluminum anchor-base streetlight poles and decorative pole base covers.

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

Stock No.	Description	Color
013422	Pole, 14-ft mounting height, fluted shaft	Black
013423	Pole, 14-ft mounting height, fluted shaft	Light gray
013424	Pole, 14-ft mounting height, fluted shaft	Dark green
014679	Pole, 14 ft mounting height, fluted shaft	Red
013425	Pole, 14-ft mounting height, round shaft	Black
013426	Pole, 14-ft mounting height, round shaft	Light gray
013427	Pole, 14-ft mounting height, round shaft	Dark green
014680	Pole, 14 ft mounting height, round shaft	Red
014248	Base cover, short shroud	Black
014249	Base cover, short shroud	Light gray
014250	Base cover, short shroud	Dark green
014682	Base cover, short shroud	Red
014251	Base cover, tall shroud	Black
014252	Base cover, tall shroud	Light gray
014253	Base cover, tall shroud	Dark green
014681	Base cover, tall shroud	Red

Standards Coordinator
 Quan Wang

Standards Supervisor
 John Shipek

Unit Director
 Andrew Strong

2. Application

Decorative streetlight poles are powder coated. The color is specified by the streetlight engineer to match the color of the streetlight luminaires, which varies by installation location.

Decorative streetlight poles are installed onto 4-bolt, 9-inch bolt-circle streetlight pole foundations, SCL Stock No. 568025.

Decorative streetlight poles are installed with a decorative base, which is ordered separately. Decorative base shall match the finish of the pole. See Sections 7.7–7.12.

3. Industry Standards

Decorative streetlight poles shall meet the applicable requirements of the latest revision of the following industry standards:

AASHTO; Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

ASTM A 153; Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM A 307; Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength

ASTM B 117; Standard Practice for Operating Salt Spray Apparatus

ASTM D 2247; Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.

4. Requirements

4.1 General

Decorative streetlight poles shall be designed and fabricated to conform to the requirements of AASHTO standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

Decorative streetlight poles consist of an aluminum shaft welded to an aluminum alloy base with pressure-mounted nut cover discs.

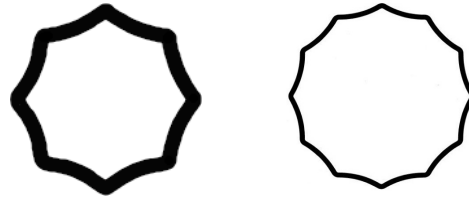
Short shroud base covers shall be included with the pole.

4.2 Shaft

The aluminum shaft shall be made of high-strength, corrosion-resistant 6063 aluminum alloy.

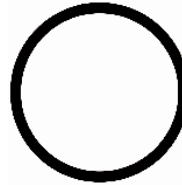
Fluted Shaft - Stock No. 011969

Cross section	Fluted, 8 or 12 curved sections
Mounting height	14'
Pole-top diameter, outside	4" ± 1/8"
Base diameter, outside	4" ± 1/8"
Wall thickness	0.125"
Taper	None



Round Shaft - Stock No. 011971

Cross section	Round
Mounting height	14'
Pole-top diameter, outside	4" ± 1/8"
Base diameter, outside	4" ± 1/8"
Wall thickness	0.125"
Taper	None



4.3 Grounding

A tapped grounding pad equipped with either a 1/4-20 x 1/2 or 3/8-16 x 1 stainless-steel screw shall be provided and located on the interior of the pole opposite the handhole or directly adjacent to the handhole.

4.4 Handhole

Size, min	3" w x 5" h
Finish/color	Match pole finish/color
Location	Centered 18" above base

The handhole shall be reinforced so as to result in no loss of shaft strength.

The handhole shall have a vandal-proof aluminum cover painted to match the pole color and attached with stainless-steel screws. The aluminum cover shall be weatherproof.

If locating the handhole 18 inches above the base would adversely affect the strength of the pole, the handhole may be centered at a maximum height of 30 inches above the base of the pole.

4.5 Pole Base Plate

Base plates shall not be hinged.

Base plate shall be sized to accommodate four 3/4-inch anchor bolts spaced 90 degrees apart on a 9-inch bolt circle. Tamper-resistant aluminum nut cover discs shall be included.

Base plate shall be compatible with base cover .

4.6 Fixture Mounting

Decorative streetlight poles shall be designed to support pole-top-mounted luminaires.

4.7 Finish

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

Seattle City Light uses the color choices shown in Figure 4.7:

Figure 4.7. Color Choices

RAL Color Chart Number	Description	Color Sample
RAL9005	Textured Black	
RAL7035	Textured Light Gray	
RAL6012	Textured Dark Green	
RAL3000	Textured Flame Red	

4.8 Pole-Top Cap

None required.

4.9 Anchor Bolts

None required.

5. Packaging

Decorative streetlight poles shall be protected with a spiral wrapping of heavy waterproof paper for protection during shipping and installation. A rip cord shall be provided for easy removal of the wrapping.

Shipping containers shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- Quantity contained
- Seattle City Light stock number.

6. Issuance

EA

7. Approved Manufacturers

7.1 14-foot Fluted, Streetlight Pole, Black, Stock No. 013422

Manufacturer:	Lumec
Catalog Number:	P-134-C-007-14-B104-BK-TX
<i>where:</i>	
P =	pole
134 =	type, fluted 4" outer diameter
C =	thickness, 0.167"
007 =	3" x 5" handhole
14 =	pole height, 14'
B104 =	base cover, short shroud
BK =	color, black
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B590-Y1

Manufacturer:	Cyclone Lighting
Catalog Number:	PD12-14-SA-CP4497-BE34-RAL9005TX
<i>where:</i>	
PD12 =	pole, 4", 12 flutes
14 =	height, 14'
SA =	anchorage, anchor plate
CP4497 =	Cyclone project, 4497
BE34 =	base cover, cast aluminum nut covers
RAL9005TX =	color, textured jet black (RAL 9005)

7.2 14-foot Fluted, Streetlight Pole, Light Gray, Stock No. 013423

Manufacturer:	Lumec
Catalog Number:	P-134-C-007-14-B104-SCRAL7035-TX
<i>where:</i>	
P =	pole
134 =	type, fluted 4" outer diameter
C =	thickness, 0.167"
007 =	3" x 5" handhole
14 =	pole height, 14'
B104 =	base cover, short shroud
SCRAL7035 =	color, light gray (RAL 7035)
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B590-Y2

Manufacturer:	Cyclone Lighting
Catalog Number:	PD12-14-SA-CP4497-BE34-RAL7035TX
<i>where:</i>	
PD12 =	pole, 4", 12 flutes
14 =	height, 14'
SA =	anchorage, anchor plate
CP4497 =	Cyclone project, 4497
BE34 =	base cover, cast aluminum nut covers
RAL7035TX =	color, textured light gray (RAL 7035)

7.3 14-foot Fluted, Streetlight Pole, Dark Green, Stock No. 013424

Manufacturer:	Lumec
Catalog Number:	P-134-C-007-14-B104-SCRAL6012-TX
<i>where:</i>	
P =	pole
134 =	type, fluted 4" outer diameter
C =	thickness, 0.167"
007 =	3" x 5" handhole
14 =	pole height, 14'
B104 =	base cover, short shroud
SCRAL6012 =	color, dark green (RAL 6012)
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B590-Y3

Manufacturer:	Cyclone Lighting
Catalog Number:	PD12-14-SA-CP4497-BE34-RAL6012TX
<i>where:</i>	
PD12 =	pole, 4", 12 flutes
14 =	height, 14'
SA =	anchorage, anchor plate
CP4497 =	Cyclone project, 4497
BE34 =	base cover, cast aluminum nut covers
RAL6012TX =	color, dark green, powder coat textured

7.4 14-foot Fluted, Streetlight Pole, Flame Red, Stock No. 014679

Manufacturer:	Lumec
Catalog Number:	P-134-C-007-14-B104-SCRAL3000-TX
<i>where:</i>	
P =	pole
134 =	type, fluted 4" outer diameter
C =	thickness, 0.167"
007 =	3" x 5" handhole
14 =	pole height, 14'
B104 =	base cover, short shroud
SCRAL3000 =	color, textured flame red (RAL 3000)
TX =	finish, powder coat textured

Manufacturer:	Cyclone Lighting
Catalog Number:	PD12-14-SA-CP4497-BE34-RAL3000TX
<i>where:</i>	
PD12 =	pole, 4", 12 flutes
14 =	height, 14'
SA =	anchorage, anchor plate
CP4497 =	Cyclone project, 4497
BE34 =	base cover, cast aluminum nut covers
RAL3000TX =	color, textured flame red (RAL 3000)

7.5 14-foot Smooth, Streetlight Pole, Black, Stock No. 013425

Manufacturer:	Lumec
Catalog Number:	APR-4-F-037-14-B104-BK-TX
<i>where:</i>	
APR =	Pole material, aluminum round
4 =	diameter, 4"
F =	wall thickness, 0.125"
037 =	3" x 5" handhole
14 =	nominal height, 14'
B104 =	base cover, short shroud
BK =	color, black
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B591-Y1

Manufacturer:	Cyclone Lighting
Catalog Number:	PA40-14-SA-CP4385-BE34-RAL9005TX
<i>where:</i>	
PA40 =	pole, 4" round
14 =	height, 14'
SA =	anchorage, anchor plate
CP4385 =	Cyclone project, 4385
BE34 =	base cover, cast aluminum nut covers
RAL9005TX =	color, textured jet black (RAL 9005)

7.6 14-foot Smooth, Streetlight Pole, Light Gray, Stock No. 013426

Manufacturer:	Lumec
Catalog Number:	APR-4-F-037-14-B104-SCRAL7035-TX
<i>where:</i>	
APR =	pole, aluminum round
4 =	diameter, 4"
F =	wall thickness, 0.125"
037 =	3" x 5" handhole
14 =	nominal height, 14'
B104 =	base cover, short shroud
SCRAL7035 =	color, light gray (RAL 7035)
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B591-Y2

Manufacturer:	Cyclone Lighting
Catalog Number:	PA40-14-SA-CP4385-BE34-RAL7035TX
<i>where:</i>	
PA40 =	pole, 4" round
14 =	height, 14'
SA =	anchorage, anchor plate
CP4385 =	Cyclone project, 4385
BE34 =	base cover, cast aluminum nut covers
RAL7035TX =	color, textured light gray (RAL 7035)

7.7 14-foot Smooth, Streetlight Pole, Dark Green, Stock No. 013427

Manufacturer:	Lumec
Catalog Number:	APR-4-F-037-14-B104-SCRAL6012-TX
<i>where:</i>	
APR =	pole, aluminum round
4 =	diameter, 4"
F =	wall thickness, 0.125"
037 =	3" x 5" handhole
14 =	nominal height, 14'
B104 =	base cover, short shroud
SCRAL6012 =	color, textured dark green (RAL 6012)
TX =	finish, powder coat textured

Manufacturer:	Union Metal
Catalog Number:	B99-B591-Y3
Catalog Number:	PA40-14-SA-CP4385-BE34-RAL6012TX
<i>where:</i>	
PA40 =	pole, 4" round
14 =	height, 14'
SA =	anchorage, anchor plate
CP4385 =	cyclone project, 4385
BE34 =	base cover, cast aluminum nut covers
RAL6012TX =	color, textured dark green (RAL 6012)

7.8 14-foot Smooth, Streetlight Pole, Red, Stock No. 014680

Manufacturer:	Lumec
Catalog Number:	APR-4-F-037-14-B104-SCRAL3000-TX
<i>where:</i>	
APR =	pole, aluminum round
4 =	diameter, 4"
F =	wall thickness, 0.125"
037 =	3" x 5" handhole
14 =	nominal height, 14'
B104 =	base cover, short shroud
SCRAL3000 =	color, flame red (RAL 3000)
TX =	finish, powder coat textured

Manufacturer:	Cyclone Lighting
Catalog Number:	PA40-14-SA-CP4385-BE34-RAL3000TX
<i>where:</i>	
PA40 =	pole, 4' round
14 =	height, 14'
SA =	anchorage, anchor plate
CP4385 =	cyclone project, 4385
BE34 =	base cover, cast aluminum nut covers
RAL3000TX =	color, textured flame red (RAL 3000)

7.9 Decorative Base Covers, Short Shroud, Black, Stock No. 014248

Manufacturer:	Lumec
Catalog Number:	B104-BK-TX
<i>where:</i>	
B104 =	base cover, B104
BK =	color, black
TX =	finish, powder coat textured
Manufacturer:	Cyclone Lighting
Catalog Number:	CP4646-RAL9005TX
<i>where:</i>	
CP4646 =	Cyclone project, 4646
RAL9005TX =	color, textured black (RAL 9005)

7.10 Decorative Base Covers, Short Shroud, Light Gray, Stock No. 014249

Manufacturer:	Lumec
Catalog Number:	B104-SCRAL7035-TX
<i>where:</i>	
B104 =	base cover, B104
SCRAL7035 =	color, light gray (RAL 7035)
TX =	finish, powder coat textured
Manufacturer:	Cyclone Lighting
Catalog Number:	CP4646-RAL7035TX
<i>where:</i>	
CP4646 =	Cyclone project, 4646
RAL7035TX =	color, textured light gray (RAL 7035)

7.11 Decorative Base Covers, Short Shroud, Dark Green, Stock No. 014250

Manufacturer:	Lumec
Catalog Number:	B104-SCRAL6012-TX
<i>where:</i>	
B104 =	base cover, B104
SCRAL6012 =	color, textured dark green (RAL 6012)
TX =	finish, powder coat textured
Manufacturer:	Cyclone Lighting
Catalog Number:	CP4646-RAL6012TX
<i>where:</i>	
CP4646 =	Cyclone project, 4646
RAL6012TX =	color, textured dark green (RAL 6012)

7.12 Decorative Base Covers, Short Shroud, Red, Stock No. 014682

Manufacturer:	Lumec
Catalog Number:	B104-SCRAL3000-TX
<i>where:</i>	
B104 =	base cover, B104
SCRAL3000 =	color, textured flame red (RAL 3000)
TX =	finish, powder coat textured

7.13 Decorative Base Covers, Tall Shroud, Black, Stock No. 014251

Manufacturer:	Lumec
Catalog Number:	B40-BK-TX
<i>where:</i>	
B40 =	base cover, B40
BK =	color, black
TX =	finish, powder coat textured

7.14 Decorative Base Covers, Tall Shroud, Light Gray, Stock No. 014252

Manufacturer:	Lumec
Catalog Number:	B40-SCRAL7035-TX
<i>where:</i>	
B40 =	base cover, B40
SCRAL7035 =	color, light gray (RAL 7035)
TX =	finish, powder coat textured

7.15 Decorative Base Covers Tall Shroud, Dark Green, Stock No. 014253

Manufacturer:	Lumec
Catalog Number:	B40-SCRAL6012-TX
<i>where:</i>	
B40 =	base cover, B40
SCRAL6012 =	color, dark green (RAL 6012)
TX =	finish, powder coat textured

7.16 Decorative Base Covers, Tall Shroud, Red, Stock No. 014681

Manufacturer:	Lumec
Catalog Number:	B40-SCRAL3000-TX
<i>where:</i>	
B40 =	base cover, B40
SCRAL3000 =	color, flame red (RAL 3000)
TX =	finish, powder coat textured
Manufacturer:	Cyclone Lighting
Catalog Number:	CP4646-RAL3000-TX
<i>where:</i>	
CP4646 =	Cyclone project, 4646—base cover, tall
RAL3000 =	color, textured dark green (RAL 6012)
TX =	finish, powder coat textured

8. Sources

- Borek, Tom**; SCL engineer, subject matter expert for 5756.09
- Chao, Yaochiem**; SCL engineer, originator and subject matter expert for 5756.09
- Cyclone Lighting**; File PD12-CP4497 – SQ_015396, November 21, 2016
- Li, Jesse**; SCL engineer, subject matter expert for 5756.09
- Philips Lumec, SPEC20200917_140807_80352_100 (003)**, 10-14- 2020
- Philips Lumec, SPEC20201027_141013_74679_323.DOC**, 10-28-2020
- Philips Lumec, SPEC20201027_144050_74679_325.DOC**, 10-28-2020
- Philips Lumec, SPEC20201027_144240_74679_327.DOC**, 10-28-2020
- Philips Lumec, SPEC20201027_144407_74679_328.DOC**, 10-28-2020
- Philips Lumec, Pole Technical Information**; revised 2010