

Lamp, LED, Medium Base, White Light**1. Scope**

This standard covers the requirements for white, single-ended, light-emitting diode (LED) lamps with medium screw (E26) bases.

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

Stock No.	Color	Incandescent Equivalent (W)
013673	2700K, warm white	60
013674	5000K, cool white	60
013675	2700K, warm white	100
013676	5000K, cool white	100

2. Application

White light LED lamps:

- Are instant-on.
- Are mercury-free.
- Have an omnidirectional beam spread.
- Are shatter resistant.
- Are UL Listed for installation in damp locations, but are not for use where exposed directly to weather or water.
- Are suitable for installation in open fixtures.
- Are dimmable.
- Are suitable for installation in 130 VDC lighting applications.

Installations in enclosed fixtures vary by manufacturer. See Section 9 for specific details regarding ratings for enclosed fixture installations.

3. Industry Standards

ANSI C78.20-2003; American National Standard for Electric Lamps – A, G, PS, and Similar Shapes with E26 Medium Screw Bases

ANSI C78.377-2008; American National Standard for Specifications for the Chromaticity of Solid State Lighting Products

4. Requirements

Lamps shall meet the applicable requirements of ANSI C78.20 and Table 4 of this standard with the following clarifications:

- Lamp bases shall be E26 medium screw.
- Lamp base connections shall be welded.

Table 4. Requirements for White Light LED Lamps

Stock No.	Color	Incandescent Equivalent (W)	Bulb Shape	Lumens	Input Voltage (V)	Nominal Input Power (W)
013673	2700K, warm white	60	A19	800	120	10
013674	5000K, cool white	60	A19	850	"	10
013675	2700K, warm white	100	A19 or A21	1600	"	18
013676	5000K, cool white	100	A19 or A21	1675	"	18

4.1 Lamp Performance

Rated lamp life, minimum, hours	25,000
Operating temperature range	
°C	-30 to 40
°F	-13 to 104
Power factor, minimum	0.90
Color rendering index (CRI), minimum	80

5. Tests and Test Reports

Lamp test data that establishes compliance with the requirements of ANSI C78.20, ANSI C78.377, and this material standard shall be provided upon request.

6. Packaging

Lamps shall be individually packaged to prevent damage during shipping, storage, and casual handling prior to installation.

Quantity of lamps per shipping carton is specified in the catalog number. See Section 9 for details.

7. Shipping

Lamps shall be shipped in whole cartons only.

8. Issuance

EA

9. Approved Manufacturers

Stock No.	Color	Incandescent Equivalent (W)	Bulb Shape	Manufacturer	Catalog No.	Rated for Enclosed Fixture	Carton Qty
013673	2700K, warm white	60	A19	Cree, Inc.	A19-60W-27K-B1	Yes	6
				Cree, Inc.	A19P-60W-27K-B1	Yes	8
				TCP	L9 A19 D2527K	Yes	12
013674	5000K, cool white	60	A19	Cree, Inc.	A19-60W-50K-B1	Yes	6
				Cree, Inc.	A19P-60W-50K-B1	Yes	8
				TCP	L9 A19 D2550K	Yes	12
013675	2700K, warm white	100	A19 or A21	Cree, Inc.	A21-100W-27K-B1	No	5
				TCP	L15 A19 D2527K	Yes	12
013676	5000K, cool white	100	A19 or A21	Cree, Inc.	A21-10W-27K-TB1	No	5
				TCP	L15 A19 D2550K	Yes	12

10. Sources

Byun, Robin; SCL Standards Engineer and subject matter expert for 5722.81
 (robin.byun@seattle.gov)

Chao, Yaochiem; SCL Standards Engineer and originator of 5722.81
 (yaochiem.chao@seattle.gov)

Cree, Inc.; A19 LED Bulbs Specification Sheet; Version 5, Revision Date 10/28/2014

Cree, Inc.; A19P LED 4Flow Bulbs Specification Sheet; Revision Date 12/02/2014

Cree, Inc.; A21 LED Bulbs Specification Sheet; Version 4, Revision Date 1/29/2015

TCP; Specification Sheet 54031 Elite A19 A-Lamps Omni-Directional; Revision Date September 2014

TCP; Specification Sheet 54720 Elite High Output A-Lamps Omni-Directional; Revision Date January 2015