

MATERIAL STANDARD

LAMP, HIGH PRESSURE SODIUM, STANDARD LIFE, MEDIUM BASE



1. Foreword

1.1 Scope

This material standard covers the requirements for standard life, single-ended, single arc tube, high pressure sodium, streetlight lamps with medium screw bases. High pressure sodium (HPS) lamps are a subcategory of high intensity discharge (HID) lamps.

This material standard applies to the following Seattle City Light Stock Numbers:

Stock Number	Wattage	Bulb Finish
572270	35	clear
572220	35	coated
572225	50	coated
572230	70	coated
572232	100	clear
572233	150	clear

1.2 Application



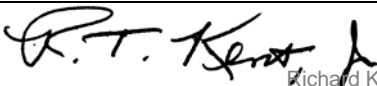
Lamps are for installation in open or enclosed, high pressure sodium streetlight luminaires with medium screw base lamp holders. Lamps have no restriction on burning position.

For similar lamps with mogul screw base, refer to Material Standard 5772.40.

1.3 Industry Standards

Lamps shall meet the applicable requirements of the following industry standards:

ANSI C78.42-2004 – American National Standard for Electric Lamps: High-Pressure Sodium Lamps

STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
 John Shipek	 John Barnett	 Richard Kent

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2. Construction

Lamps shall meet the applicable requirements of ANSI C78.42 and Table 1 of this material standard with the following clarifications:

Lamps shall be of single arc tube design.

Lamps shall be capable of operation in all positions.

Lamp bases shall be E26 / 24 medium screw.

Average rated life is defined as:

The total operation hours at which 65% of any group of lamps is still operating. The average life of a lamp shall be based on vertical operation (unless otherwise noted) of representative lamps operated under controlled conditions of up to 15 hours per start.

Lamp color rendering index (CRI) shall be 21 or greater.

Lamps shall cycle at end-of-life.

Table 1

Stock Number	Wattage	ANSI Designation		Average Rated Life, hours	Minimum Output, lumens		Minimum Correlated Color Temp., K	Glass Bulb Finish
		Lamp	Bulb		Initial	Mean		
572270	35	S76/O-ZL	B17, BD-17, E17, ED-17	16000	2250	2025	1600	clear
572220	35	S76/O-ZL	B17, BD-17, E17, ED-17	16000	2100	1935	1900	coated
572225	50	S68/O-ZL	B17, BD-17, E17	24000	3700	3420	1900	coated
572230	70	S62/O-ZL	B17, BD-17, E17	24000	5800	4900	1900	coated
572232	100	S54/O-ZL	B17, BD-17, E17	24000	9500	8000	2000	clear
572233	150	S55/O-RV	B17, BD-17, E17	24000	15800	13400	2000	clear

3. Tests and Test Reports

Lamp test data that establishes compliance with the requirements of ANSI C78.42 and this material standard shall be provided upon request.

4. Packaging

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

Quantity of lamps per shipping carton shall be as mutually agreed upon between supplier and Seattle City Light.

5. Shipping

Lamps shall be shipped in whole cartons only.

Lamps shall be shipped to the address specified on the Purchase Order.

6. Issuance

EA

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SUPERSEDING: new

EFFECTIVE DATE: February 7, 2008

7. Approved Manufacturers

Stock Number	Wattage	General Electric (Lucalox)		OSRAM/Sylvania (Lumalux)		Phillips (Ceramalux)	
		Order Code	Description	Item Number	Ordering Abbreviation	Product Number	Ordering Code
572270	35	11668	LU35/MED	67500	LU35/MED	046677-30632-4	C35S76/M
572220	35	11669	LU35/D/MED	67501	LU35/D/MED	046677-30633-2	C35S76/D/M
572225	50	11347	LU50/D/MED	67503	LU50/D/MED	046677-30337-0	C50S68/D/M
572230	70	11340	LU70/D/MED	67505	LU70/D/MED	046677-33214-8	C70S62/D/M
572232	100	13250	LU100/MED	67506	LU100/MED	046677-34446-5	C100S54/M
572233	150	13252	LU150/MED	67508	LU150/55/MED	046677-30347-9	C150S55/M