Streetlight Fusing Schedule, Individual

1. Scope

This standard provides a fusing schedule for individual streetlights with a system voltage of 120 V, 208 V, 240 V, or 277 V, and a list of required material.

Fusing for streetlight *systems* is outside the scope of this standard. Contact Streetlight Engineer for streetlight system fusing.

Fusing for streetlights higher than 277 V is outside the scope of this standard.

2. Introduction

Fusing is the primary means of providing over-current protection for streetlight systems. Proper sizing of the fuse ensures adequate protection of the equipment and conductors without accidental fuse trips.

Over-sizing the fuse can result in a non-trip situation during over-current surges.

Under-sizing the fuse can result in a nuisance trip during instantaneous voltage irregularities.

3. Application

This document provides direction to SCL crews, contractors, and customers on proper fuse sizing of SCL-owned circuits feeding individual streetlights.

Fuses shall meet the requirements of SCL 6855.55.

Fuses for streetlight circuits shall be installed with non-breakaway in-line fuse holders that meet the requirements of SCL 6857.07, and insulating boots that meet the requirements of SCL 6857.05.

208 V and 240 V systems use two service conductors.

All energized conductors, except the neutral, shall be fused.

4. Fuse Schedule – Streetlights, Individual

The following table specifies proper fusing for various streetlight wattages. This fusing schedule is suitable for fusing streetlights operating at 120 V, 208 V, 240 V or 277 V.

Table 4. Fusing Schedule for Streetlight Wattages

Lamp Wattage (W)	Lamp Type	Fuse Rating (A)	Stock No.
0-80	LED	3	013509
81-135	"	5	013510
136-270	"	10	013511
70	HPS	3	013509
100	"	5	013510
150	"	5	013510
250	"	10	013511
400	"	15	013512

5. Material List

Table 5. Fusing Material List

Quantity	Item		Stock No.	
1	Fuse Rating (A)			
	3		013509	
	5		013510	
	10		013511	
	15		013512	
1	Fuseholder			
	Load (AWG)	Line (AWG)		
	#12 - #8	#6	013518	
	#6	#6	013519	
	#6	#2	013520	
	#2	#2	013521	
2	Insulating boot		682360	

6. References

SCL Material Standard 6855.55; "Fuse, Rejection-Type, Fast-Acting, Current-Limiting, 600 Volt," November 2013

SCL Material Standard 6857.07; "Fuse Holders, Rejection-Type, In-Line, Non-Breakaway, Waterproof," November 2013

7. Sources

American Electric Lighting Fuse Ratings, AEL Product Guide **-** Technical Data, Terms and Conditions; revision April 2008

Chao, Yaochiem; SCL Standards Engineer, originator and subject matter expert for 1730.00 (yaochiem.chao@seattle.gov)

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Jeong, Youngseok; SCL Streetlight Engineer and subject matter expert for 1730.00 (youngseok.jeong@seattle.gov)