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. Fusing 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.
0-270	LED	5	013510
0-150	HPS	5	013510
250	"	10	013511
400	"	15	013512

5. Material List

Table 5. Fusing Material List

Quantity	Item		Stock No.	
1	Fuse Rating (A)			
	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”

SCL Material Standard 6857.05; “Fuse Holders, In-Line, Water-Resistant, and Insulating Boots”

SCL Material Standard 6857.07; “Fuse Holders, Rejection-Type, In-Line, Non-Breakaway, Waterproof”

7. Sources

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

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Datasheet 1015: KTK-R; Cooper Bussmann; July 2013