

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P721846

Luminaire Tested: **CST-CA8-400-727-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-727-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55045 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

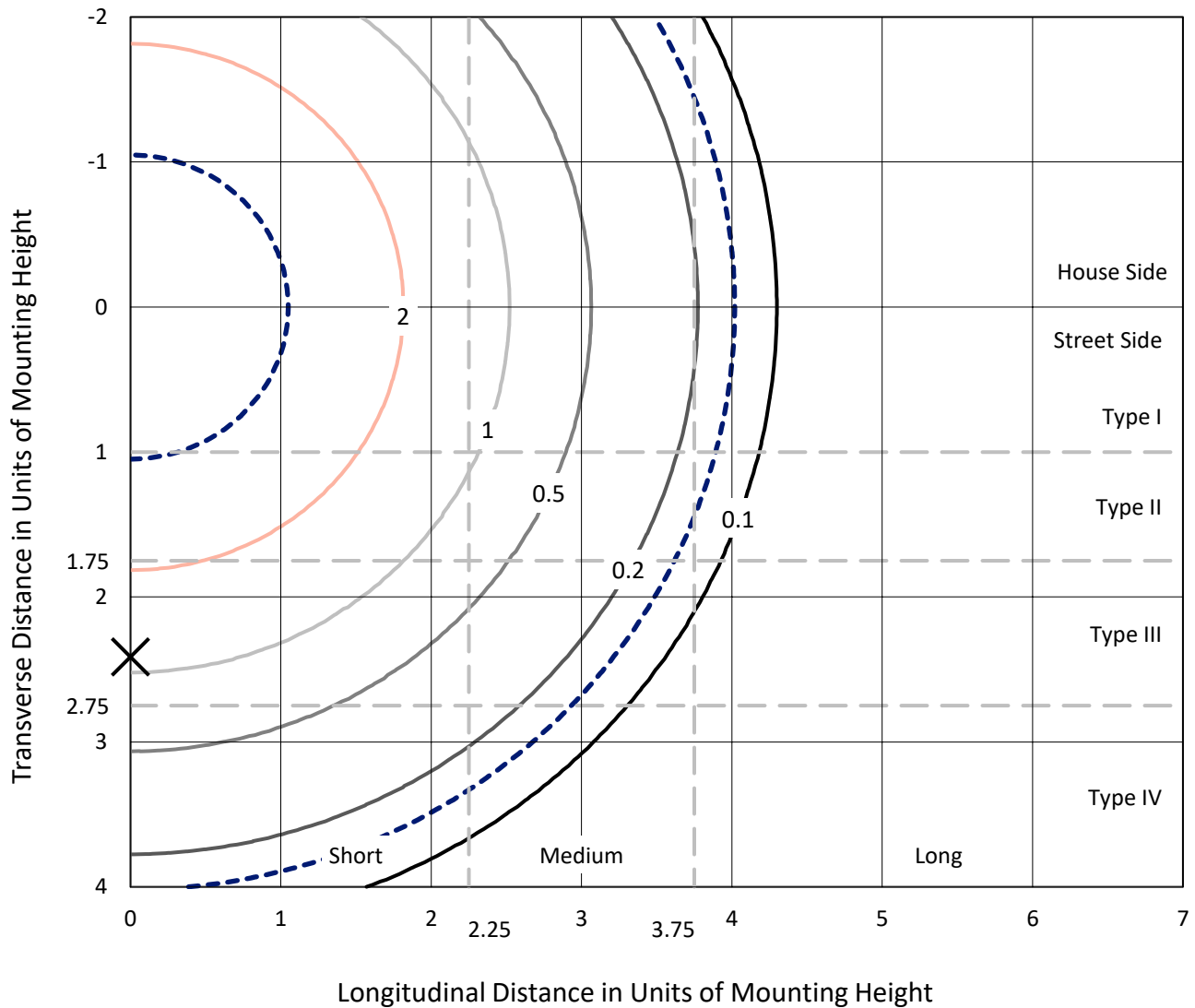


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Iso-Footcandle Lines of Horizontal Illumination

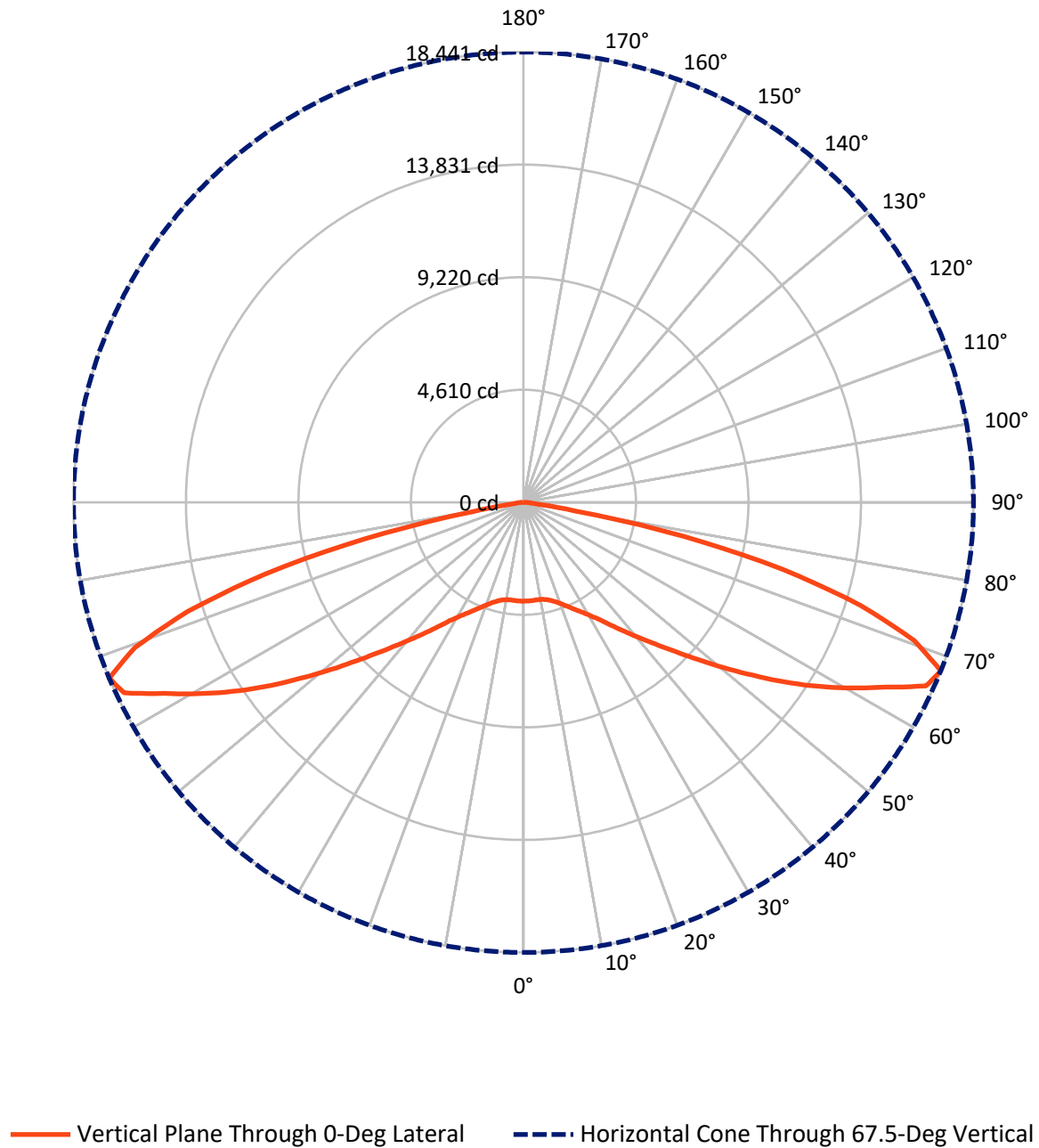
✕ Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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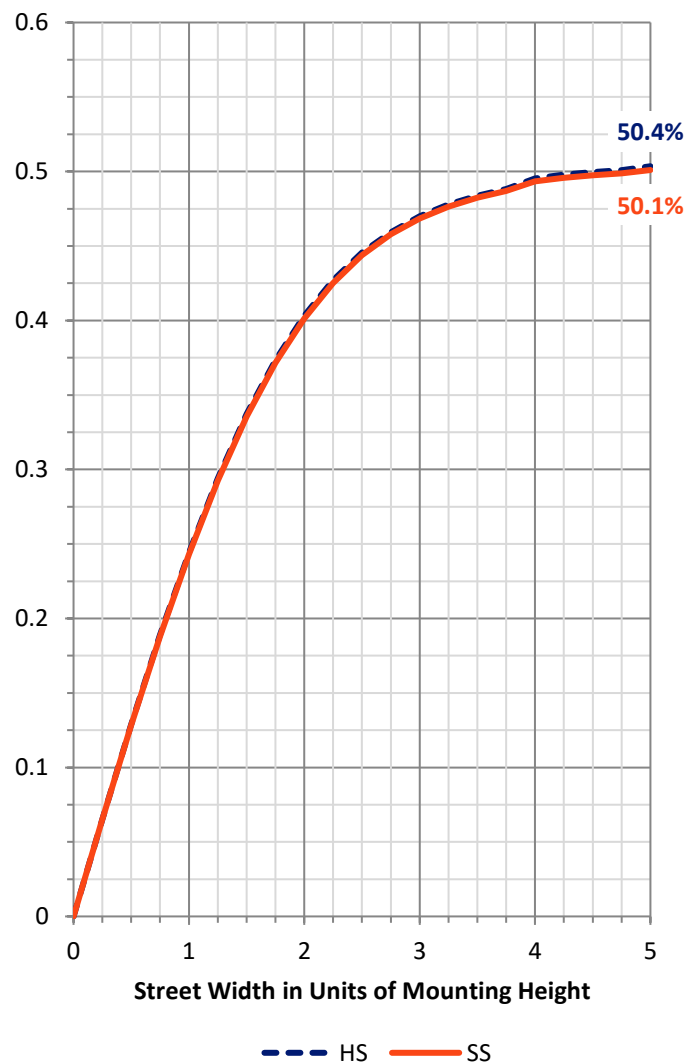
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27522.5	0.0	27522.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27522.5	0.0	27522.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55045.0	0.0	55045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	0.7
10°-20°	1195.3	2.2
20°-30°	2268.3	4.1
30°-40°	3939.8	7.2
40°-50°	6857.5	12.5
50°-60°	11715.3	21.3
60°-70°	17253.1	31.3
70°-80°	10967.5	19.9
80°-90°	462.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	55045.0	100.0
0°-180°	55045.0	100.0

Coefficient of Utilization



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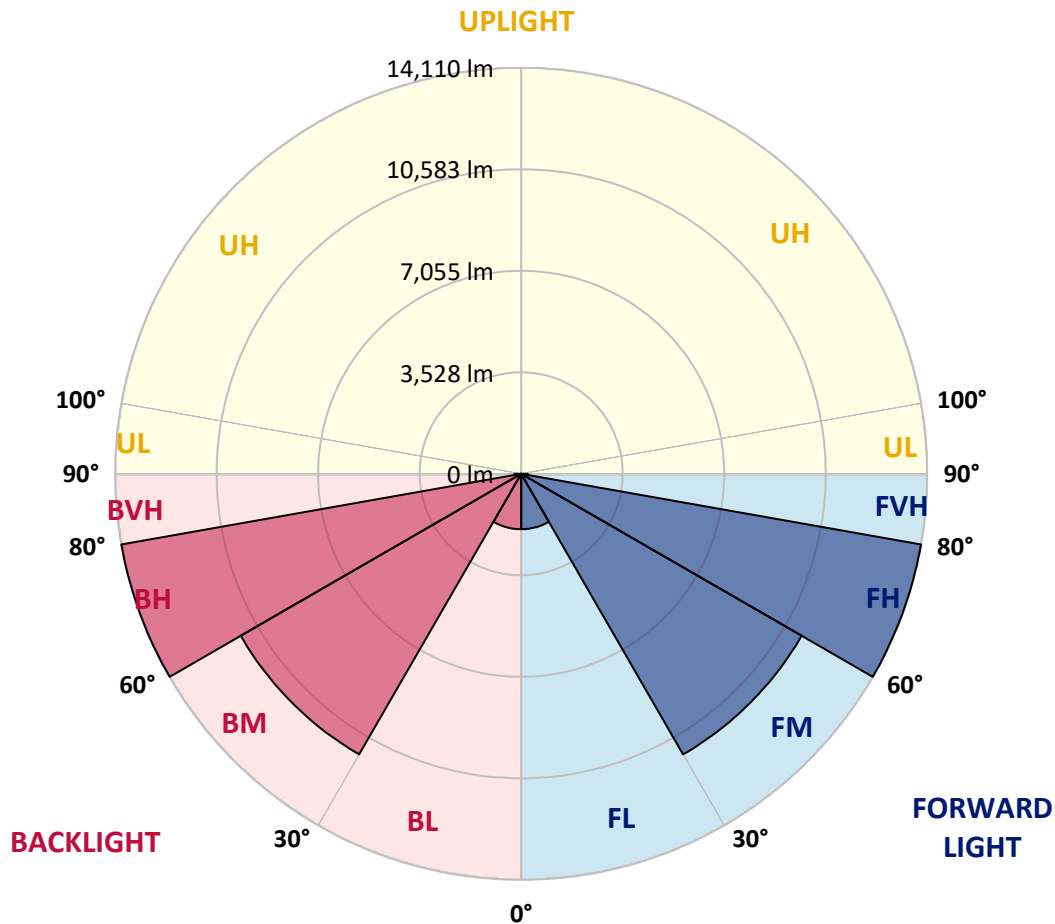
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.7	3.5			
FM	(30°-60°)	11256.3	20.4			
FH	(60°-80°)	14110.3	25.6			G5
FVH	(80°-90°)	231.3	0.4			G3/500
BL	(0°-30°)	1924.7	3.5	B3/2500		
BM	(30°-60°)	11256.3	20.4	B5		
BH	(60°-80°)	14110.3	25.6	B5		G5
BVH	(80°-90°)	231.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4048.9
2.5°	4049.9
5°	4041.9
7.5°	4035.2
10°	4042.0
12.5°	4085.4
15°	4169.2
17.5°	4286.4
20°	4445.5
22.5°	4633.4
25°	4854.7
27.5°	5094.7
30°	5376.8
32.5°	5723.5
35°	6178.7
37.5°	6702.8
40°	7285.2
42.5°	7939.7
45°	8716.4
47.5°	9612.3
50°	10649.8
52.5°	11770.5
55°	13000.0
57.5°	14227.8
60°	15448.7
62.5°	16673.3
65°	18131.2
67.5°	18440.8
70°	16989.4
72.5°	14450.3
75°	10971.1
77.5°	6707.4
80°	2128.9
82.5°	361.4
85°	204.2
87.5°	73.9
90°	0.0

(END OF REPORT)