

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: P721836

Luminaire Tested: **CST-CA8-400-722-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721836
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-CA8-400-722-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52977.9 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

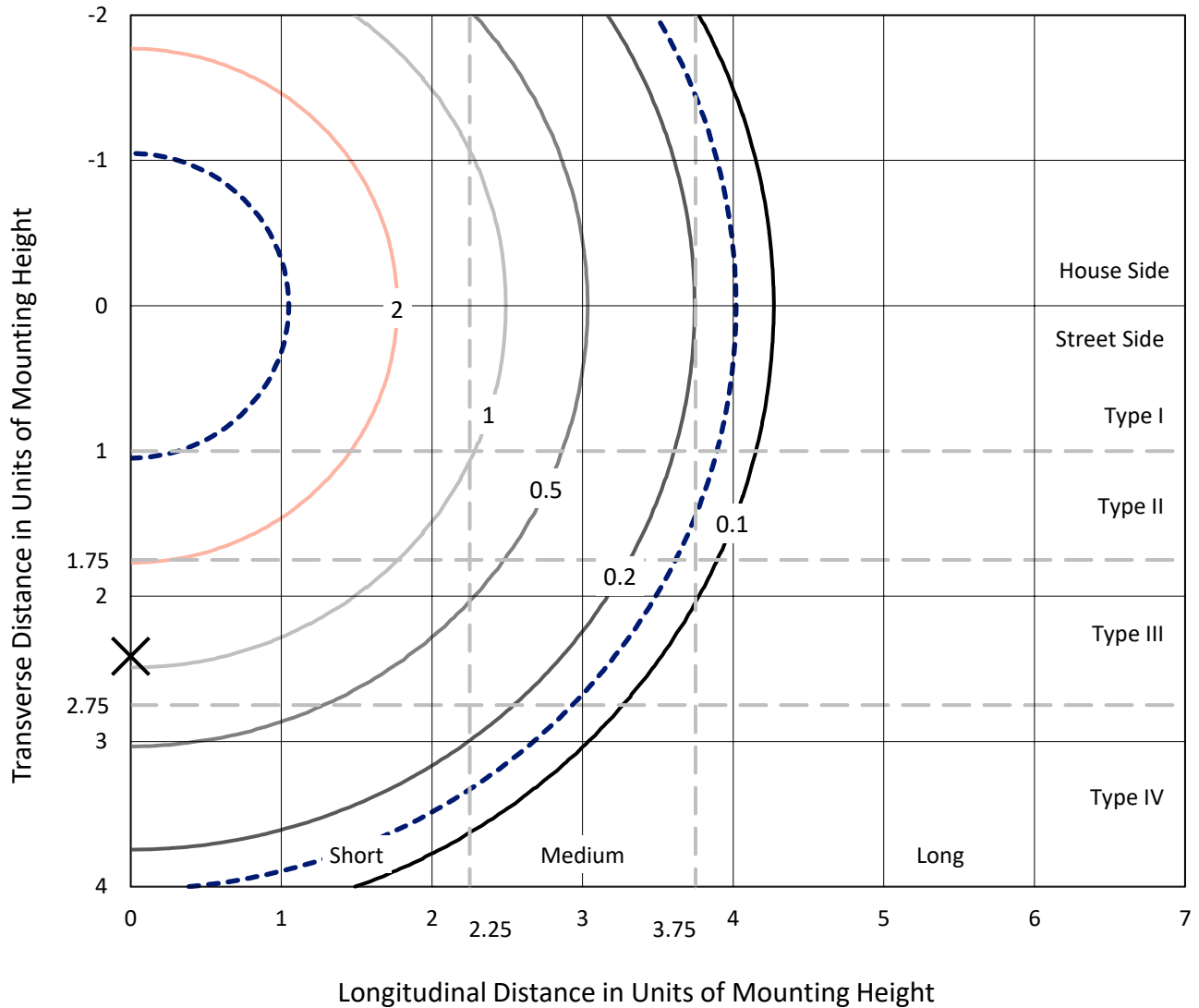
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

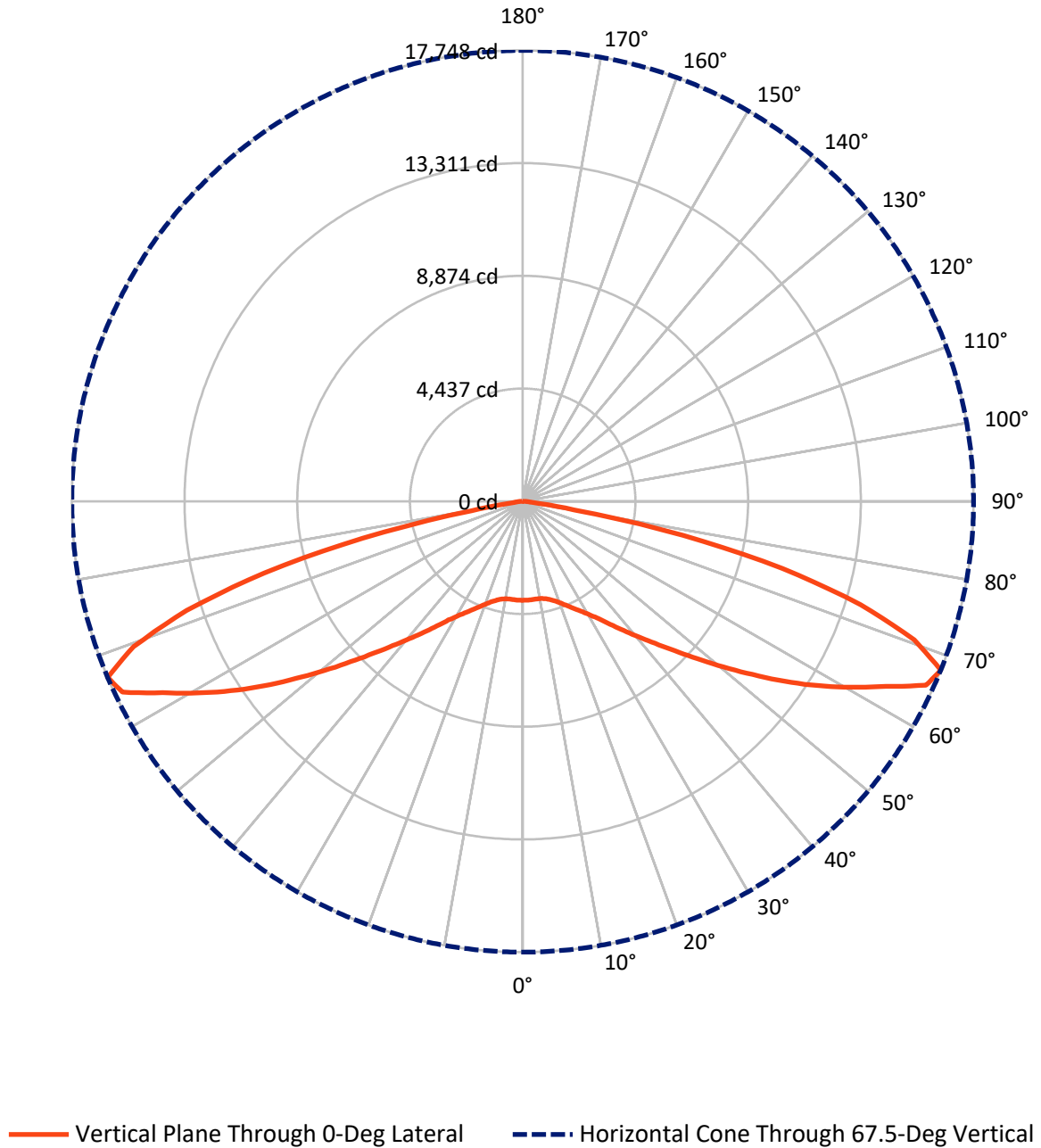
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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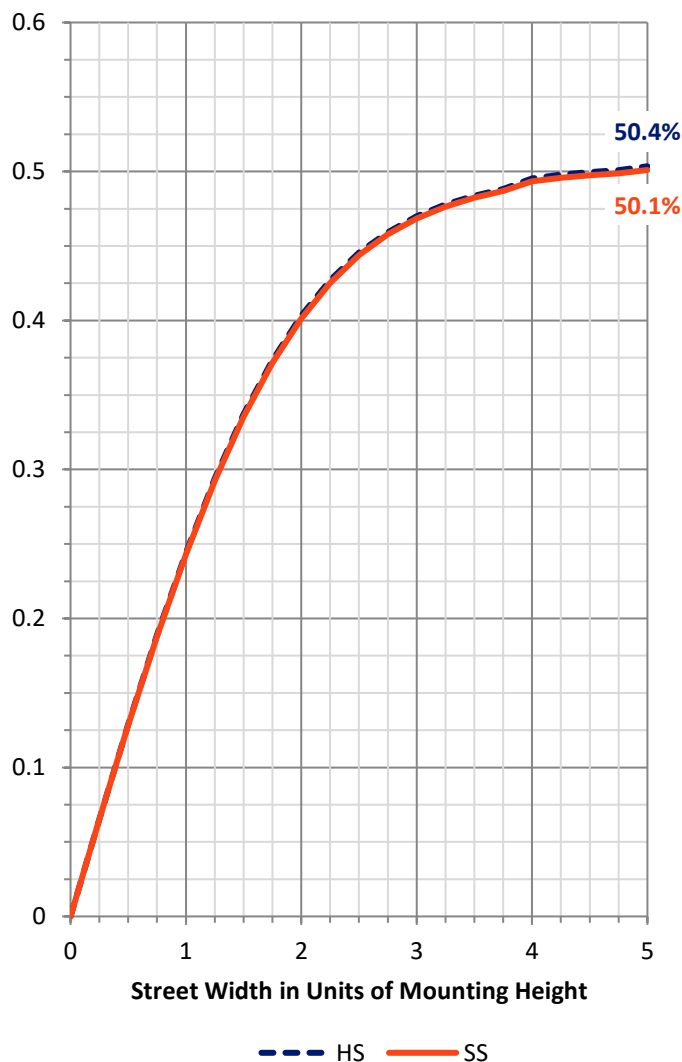
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26488.9	0.0	26488.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26488.9	0.0	26488.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	52977.9	0.0	52977.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	0.7
10°-20°	1150.4	2.2
20°-30°	2183.1	4.1
30°-40°	3791.8	7.2
40°-50°	6600.0	12.5
50°-60°	11275.3	21.3
60°-70°	16605.2	31.3
70°-80°	10555.6	19.9
80°-90°	445.2	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°	52977.9	100.0
0°-180°	52977.9	100.0

Coefficient of Utilization



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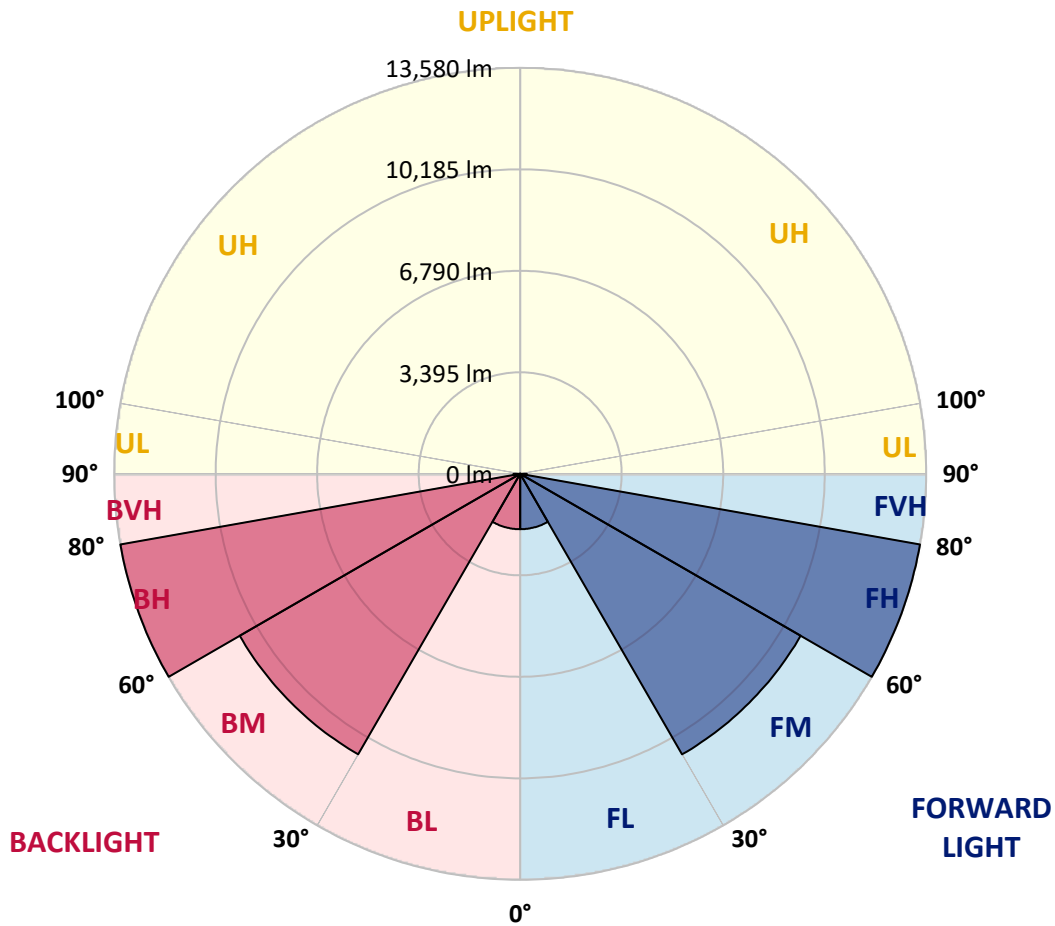
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.4	3.5			
FM (30°-60°)	10833.6	20.4			
FH (60°-80°)	13580.4	25.6			G5
FVH (80°-90°)	222.6	0.4			G2/225
BL (0°-30°)	1852.4	3.5	B3/2500		
BM (30°-60°)	10833.6	20.4	B5		
BH (60°-80°)	13580.4	25.6	B5		G5
BVH (80°-90°)	222.6	0.4			G2/225
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°	3896.8
2.5°	3897.8
5°	3890.1
7.5°	3883.7
10°	3890.2
12.5°	3932.0
15°	4012.6
17.5°	4125.4
20°	4278.6
22.5°	4459.4
25°	4672.4
27.5°	4903.3
30°	5174.9
32.5°	5508.5
35°	5946.7
37.5°	6451.1
40°	7011.6
42.5°	7641.5
45°	8389.1
47.5°	9251.3
50°	10249.9
52.5°	11328.5
55°	12511.8
57.5°	13693.5
60°	14868.6
62.5°	16047.2
65°	17450.3
67.5°	17748.3
70°	16351.4
72.5°	13907.7
75°	10559.1
77.5°	6455.5
80°	2049.0
82.5°	347.8
85°	196.5
87.5°	71.1
90°	0.0

(END OF REPORT)