

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: P721896

Luminaire Tested: **CST-CA8-430-722-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721896
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-CA8-430-722-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: 56879 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

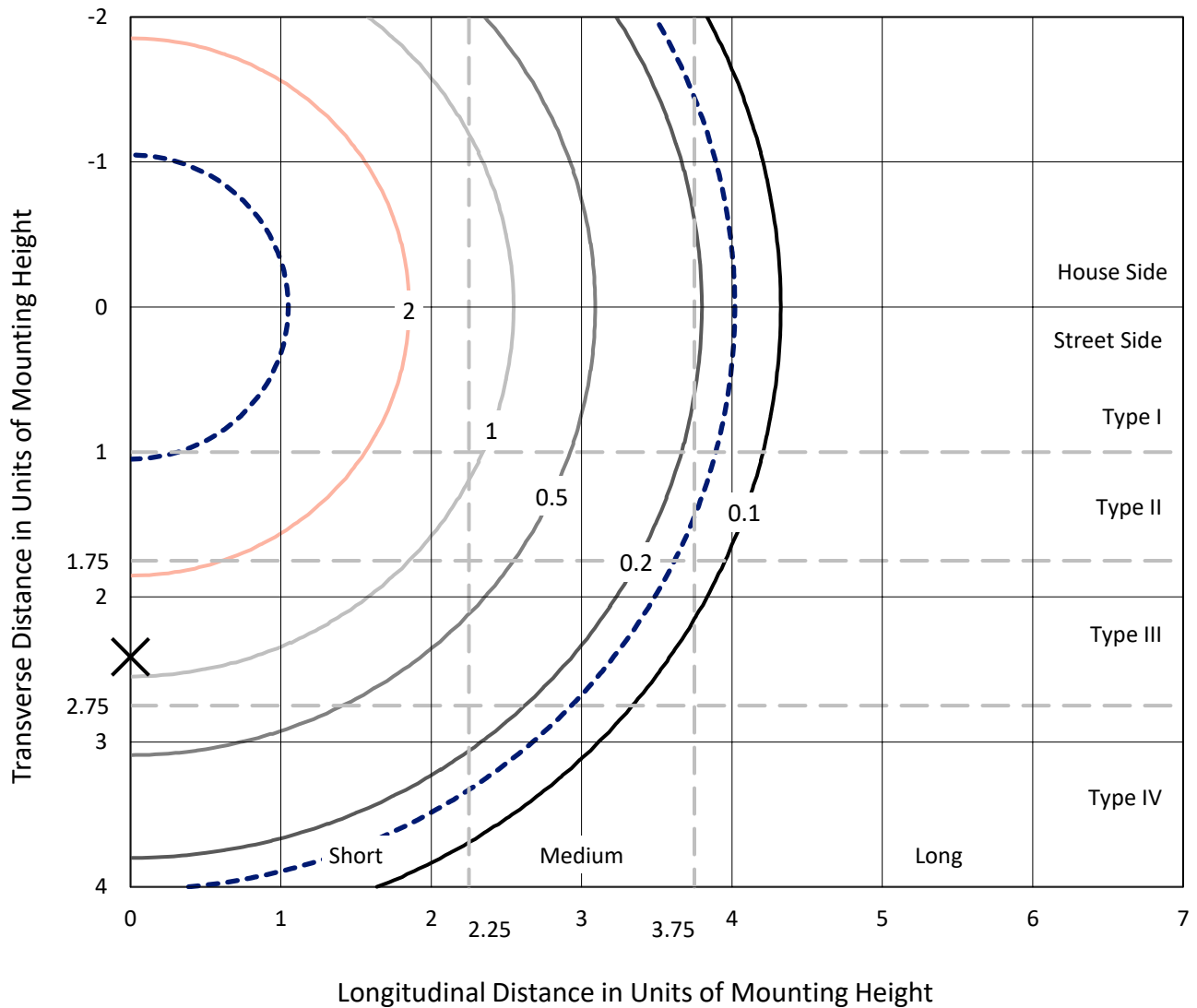
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

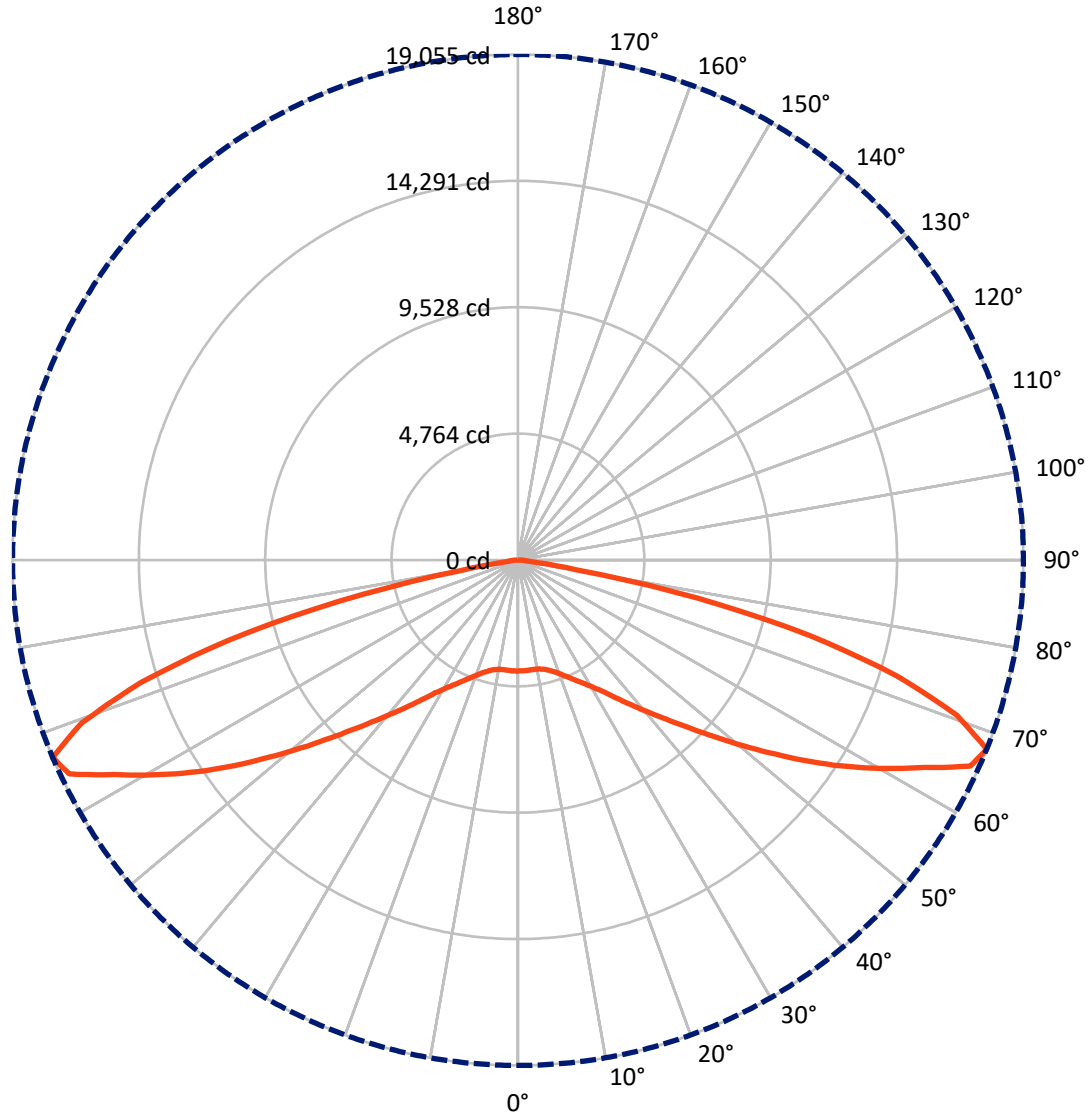
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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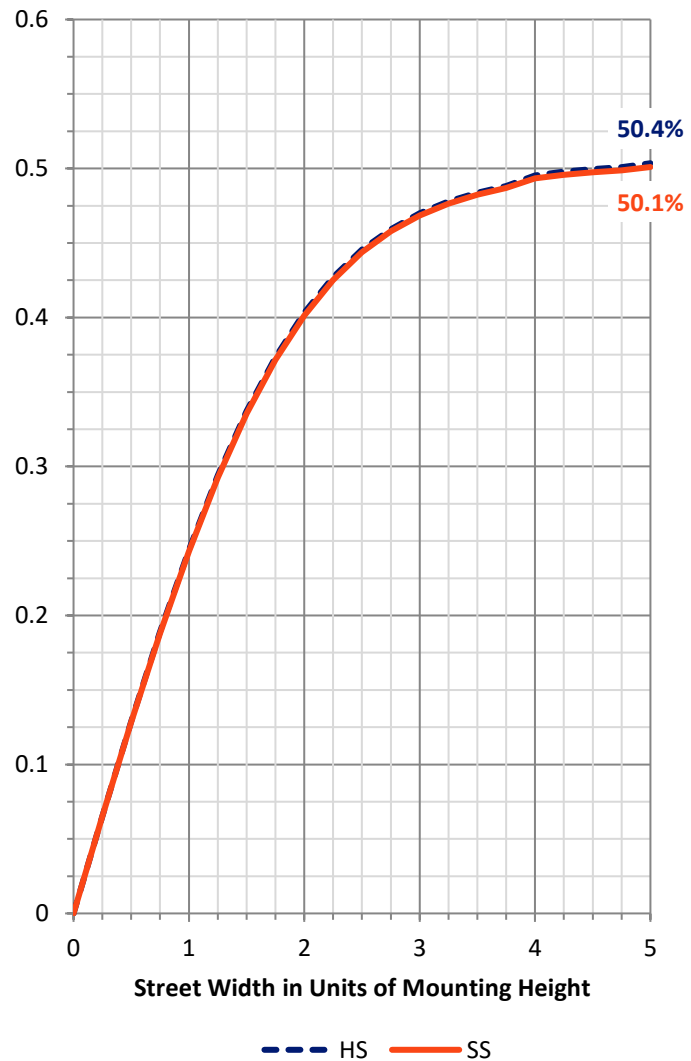
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28439.5	0.0	28439.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28439.5	0.0	28439.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	56879.0	0.0	56879.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	0.7
10°-20°	1235.1	2.2
20°-30°	2343.9	4.1
30°-40°	4071.0	7.2
40°-50°	7086.0	12.5
50°-60°	12105.6	21.3
60°-70°	17827.9	31.3
70°-80°	11332.9	19.9
80°-90°	478.0	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°	56879.0	100.0
0°-180°	56879.0	100.0

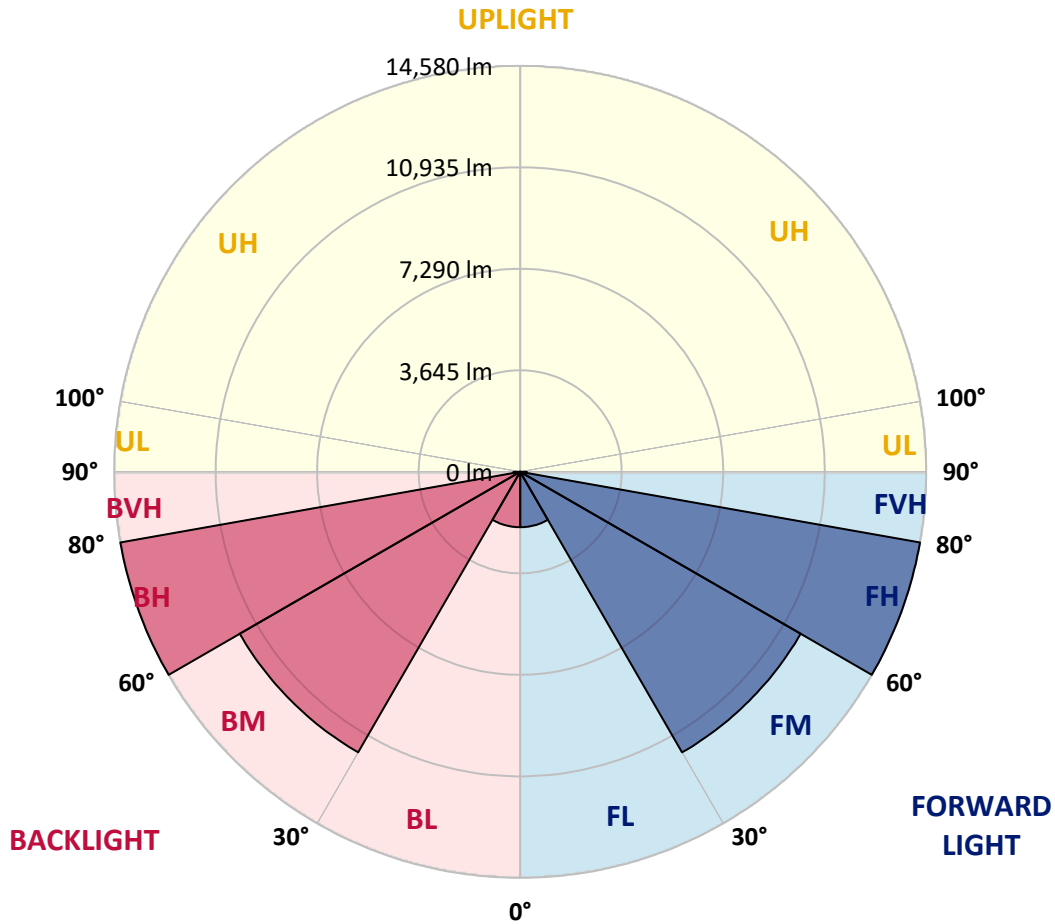


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.8	3.5			
FM (30°-60°)	11631.3	20.4			
FH (60°-80°)	14580.4	25.6			G5
FVH (80°-90°)	239.0	0.4			G3/500
BL (0°-30°)	1988.8	3.5	B3/2500		
BM (30°-60°)	11631.3	20.4	B5		
BH (60°-80°)	14580.4	25.6	B5		G5
BVH (80°-90°)	239.0	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°	4183.8
2.5°	4184.9
5°	4176.6
7.5°	4169.7
10°	4176.7
12.5°	4221.6
15°	4308.1
17.5°	4429.2
20°	4593.6
22.5°	4787.7
25°	5016.5
27.5°	5264.4
30°	5555.9
32.5°	5914.2
35°	6384.6
37.5°	6926.1
40°	7527.9
42.5°	8204.2
45°	9006.8
47.5°	9932.5
50°	11004.7
52.5°	12162.7
55°	13433.1
57.5°	14701.8
60°	15963.4
62.5°	17228.8
65°	18735.3
67.5°	19055.2
70°	17555.5
72.5°	14931.8
75°	11336.7
77.5°	6930.8
80°	2199.9
82.5°	373.4
85°	211.0
87.5°	76.4
90°	0.0

(END OF REPORT)