

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: P721906

Luminaire Tested: **CST-CA8-430-727-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721906
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-CA8-430-727-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: 59098 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

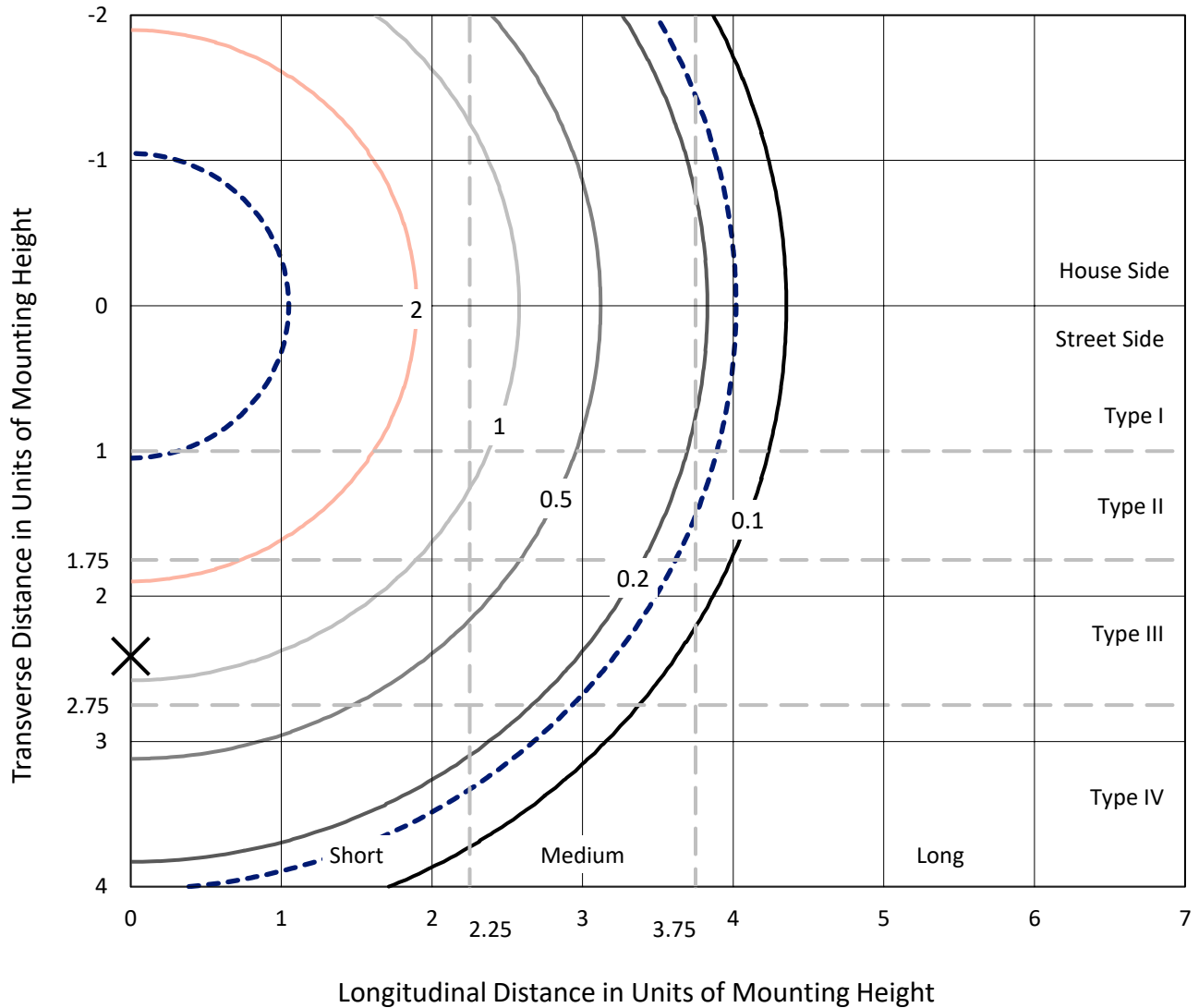
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

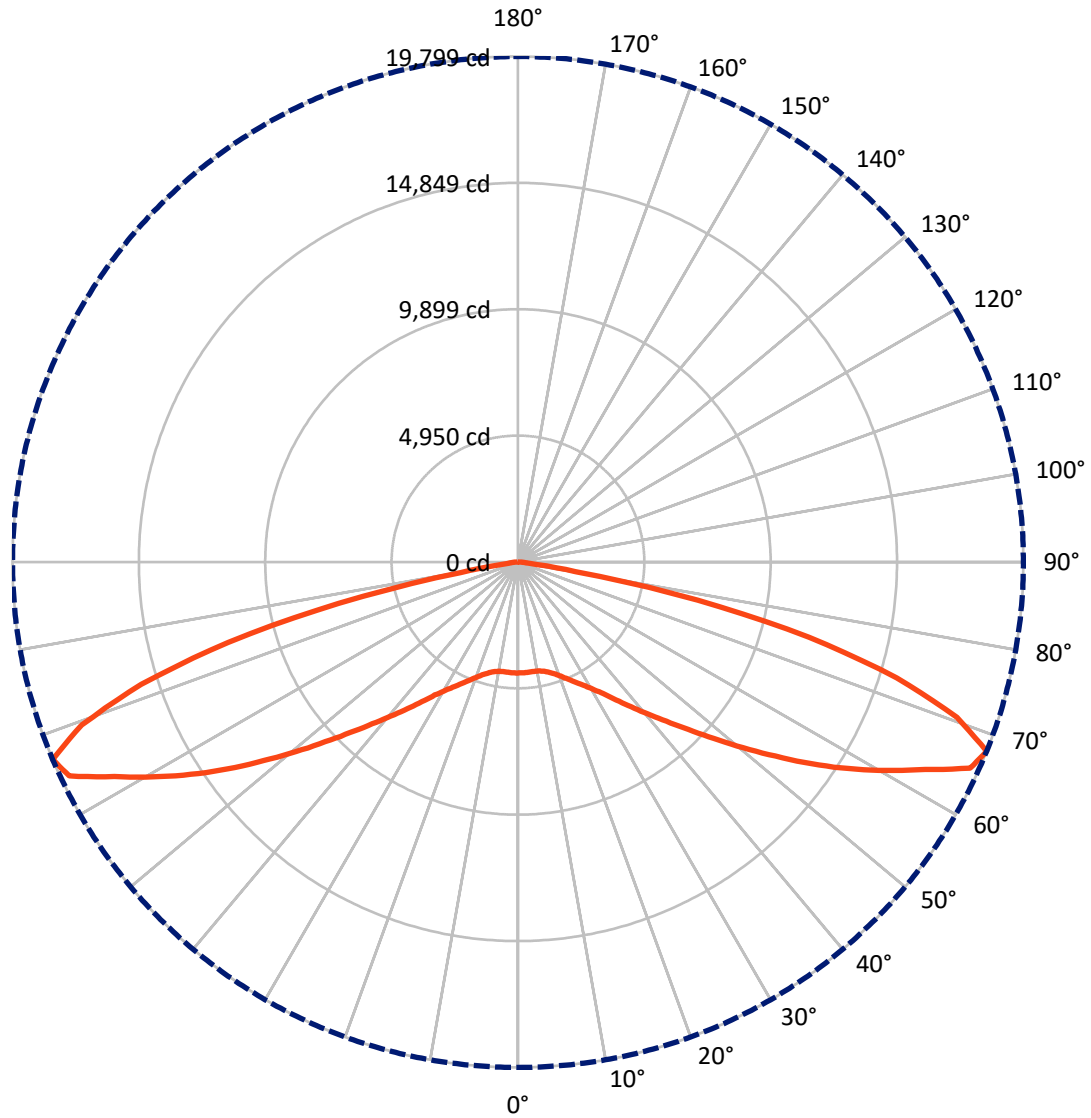
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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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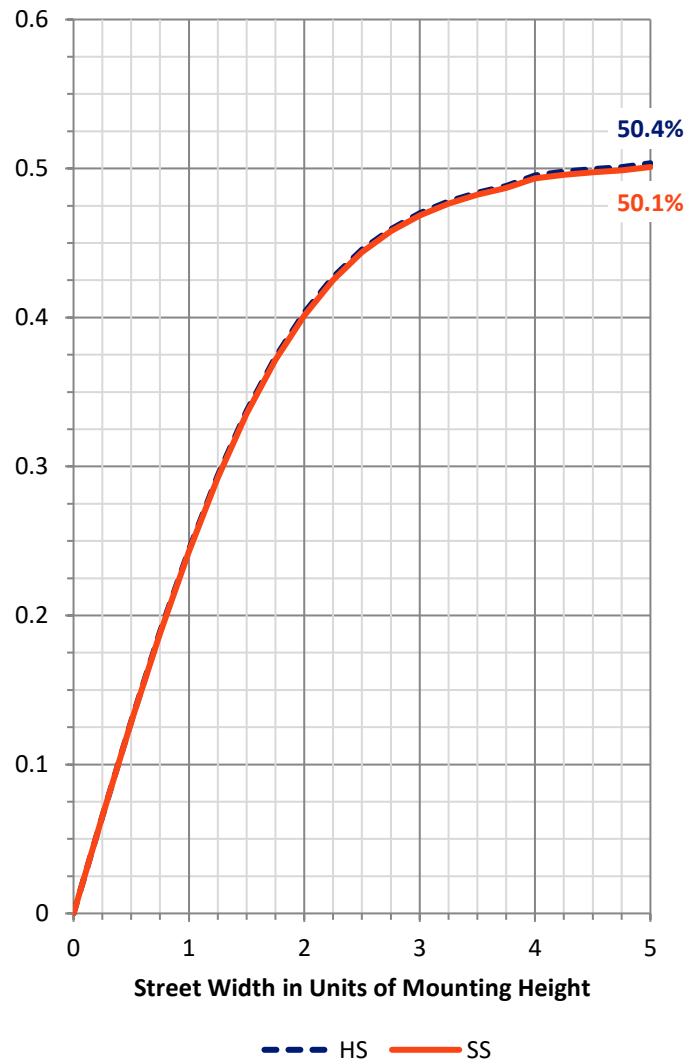
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29549.0	0.0	29549.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29549.0	0.0	29549.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59098.0	0.0	59098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	0.7
10°-20°	1283.3	2.2
20°-30°	2435.3	4.1
30°-40°	4229.9	7.2
40°-50°	7362.4	12.5
50°-60°	12577.9	21.3
60°-70°	18523.5	31.3
70°-80°	11775.0	19.9
80°-90°	496.7	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°	59098.0	100.0
0°-180°	59098.0	100.0

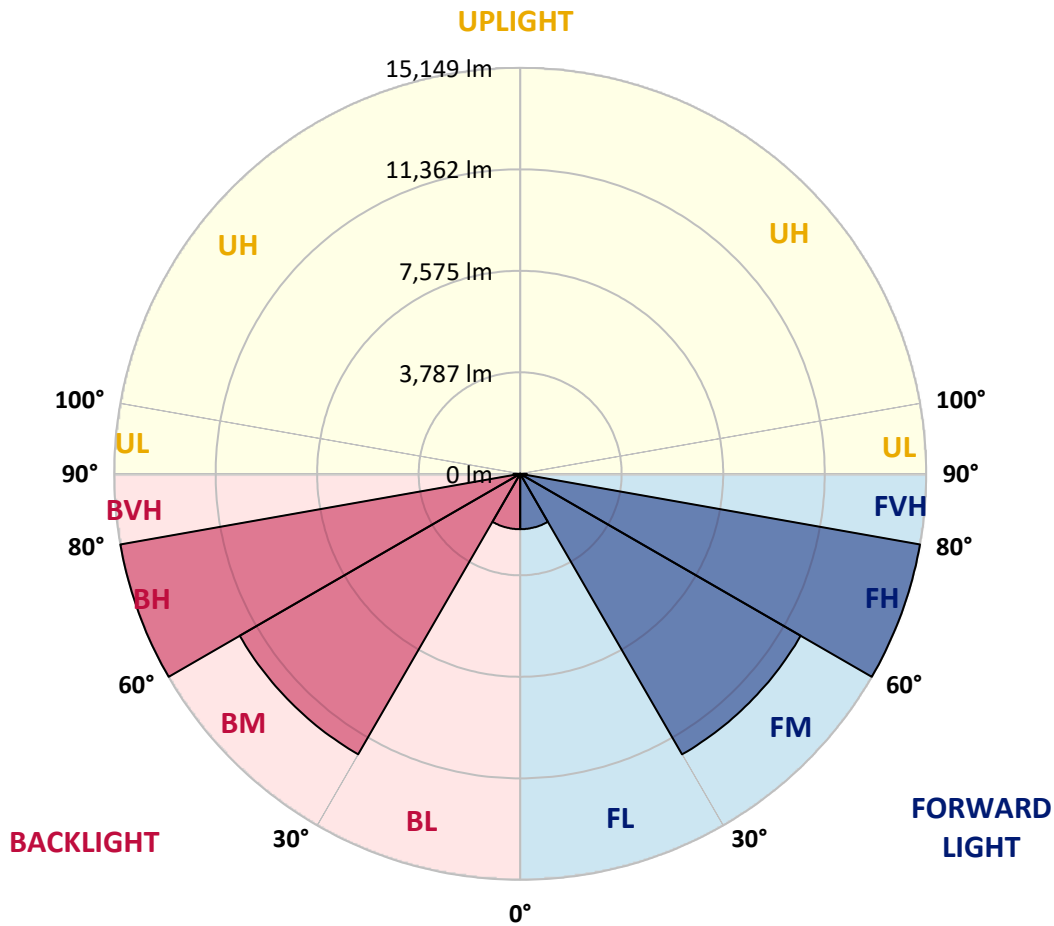


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.4	3.5			
FM (30°-60°)	12085.1	20.4			
FH (60°-80°)	15149.2	25.6			G5
FVH (80°-90°)	248.3	0.4			G3/500
BL (0°-30°)	2066.4	3.5	B3/2500		
BM (30°-60°)	12085.1	20.4	B5		
BH (60°-80°)	15149.2	25.6	B5		G5
BVH (80°-90°)	248.3	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°	4347.0
2.5°	4348.1
5°	4339.5
7.5°	4332.3
10°	4339.6
12.5°	4386.3
15°	4476.2
17.5°	4602.0
20°	4772.8
22.5°	4974.5
25°	5212.2
27.5°	5469.8
30°	5772.7
32.5°	6144.9
35°	6633.7
37.5°	7196.3
40°	7821.6
42.5°	8524.3
45°	9358.2
47.5°	10320.0
50°	11434.0
52.5°	12637.2
55°	13957.1
57.5°	15275.4
60°	16586.2
62.5°	17901.0
65°	19466.2
67.5°	19798.6
70°	18240.4
72.5°	15514.3
75°	11778.9
77.5°	7201.2
80°	2285.7
82.5°	388.0
85°	219.2
87.5°	79.4
90°	0.0

(END OF REPORT)