

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: P721916

Luminaire Tested: **CST-CA8-430-730-U-T5R**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721916
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-CA8-430-730-U-T5R
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68527 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

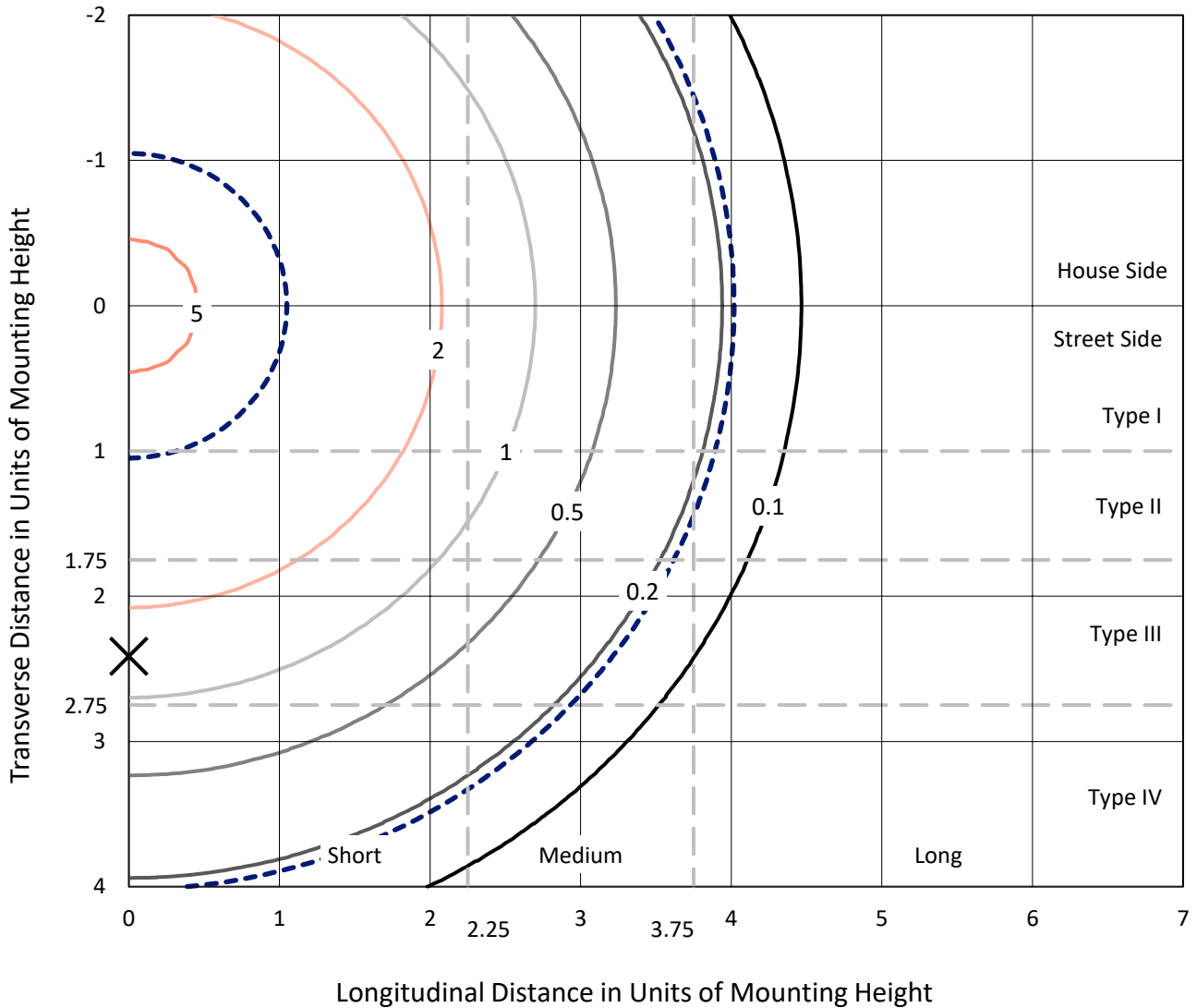
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

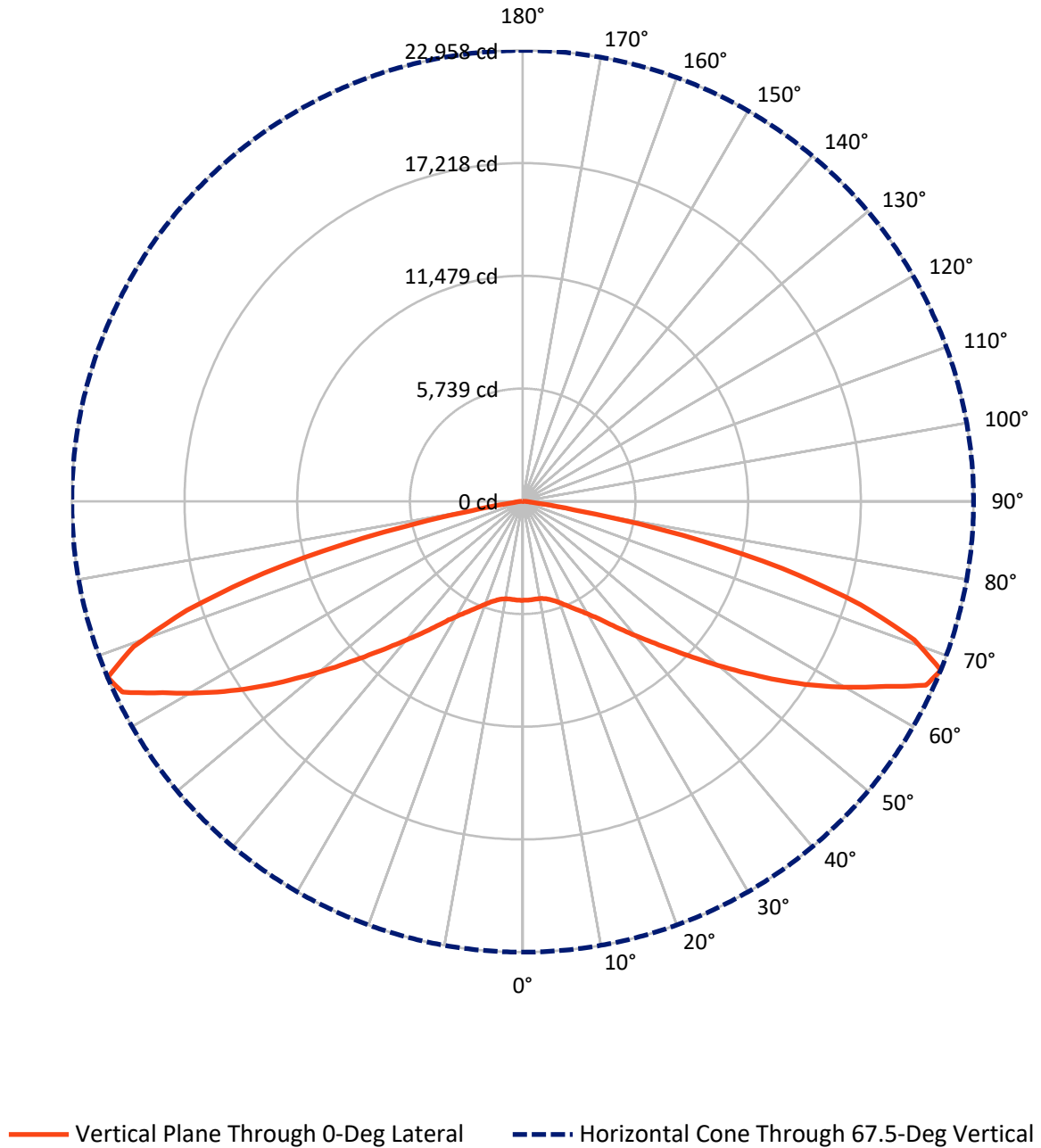
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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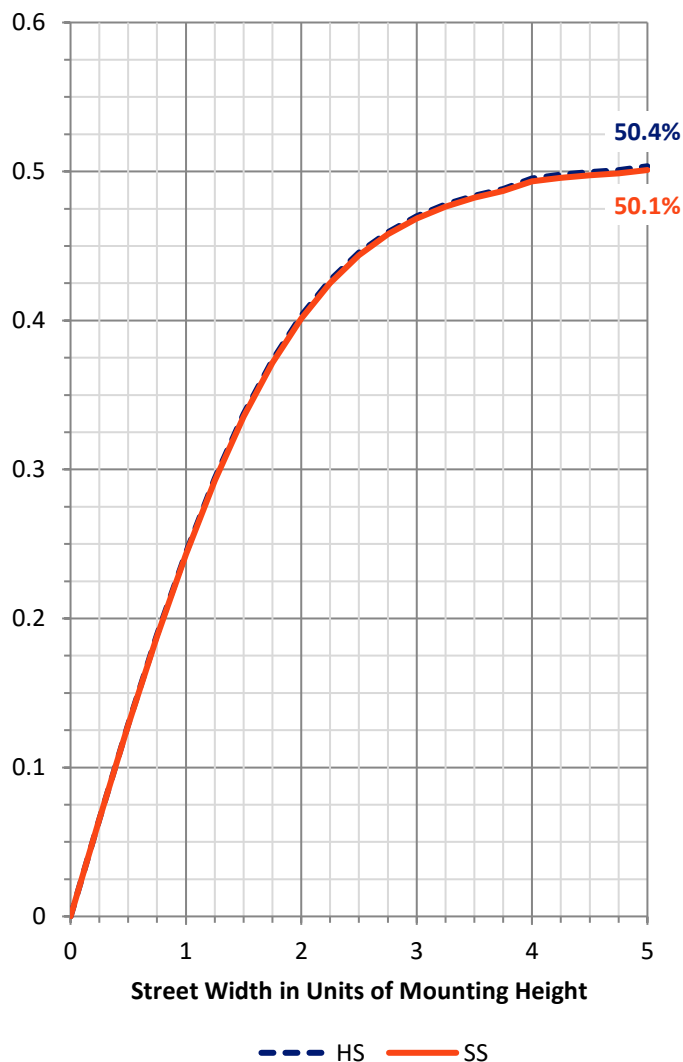
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34263.5	0.0	34263.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34263.5	0.0	34263.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68527.0	0.0	68527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.2	0.7
10°-20°	1488.1	2.2
20°-30°	2823.9	4.1
30°-40°	4904.7	7.2
40°-50°	8537.1	12.5
50°-60°	14584.6	21.3
60°-70°	21478.8	31.3
70°-80°	13653.7	19.9
80°-90°	575.9	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°	68527.0	100.0
0°-180°	68527.0	100.0

Coefficient of Utilization

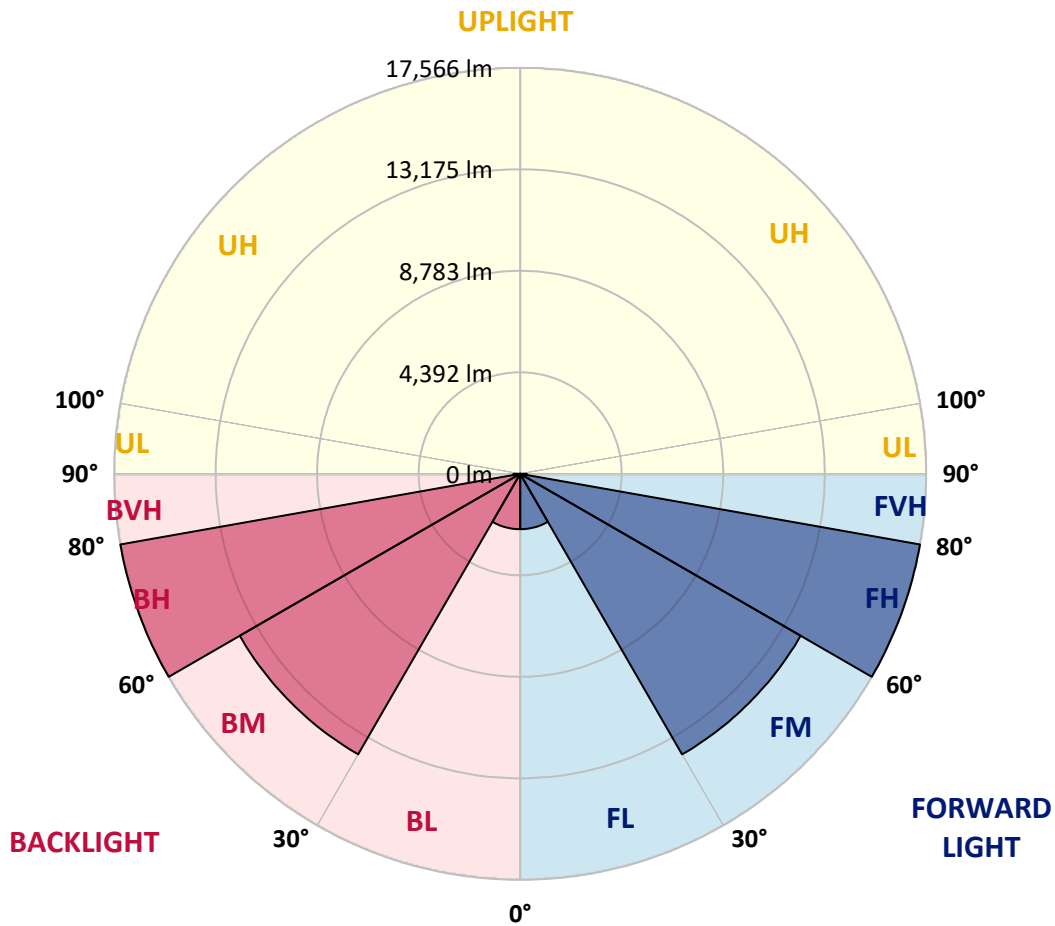


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.1	3.5			
FM (30°-60°)	14013.2	20.4			
FH (60°-80°)	17566.3	25.6			G5
FVH (80°-90°)	287.9	0.4			G3/500
BL (0°-30°)	2396.1	3.5	B3/2500		
BM (30°-60°)	14013.2	20.4	B5		
BH (60°-80°)	17566.3	25.6	B5		G5
BVH (80°-90°)	287.9	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°	5040.5
2.5°	5041.9
5°	5031.9
7.5°	5023.5
10°	5032.0
12.5°	5086.1
15°	5190.4
17.5°	5336.2
20°	5534.3
22.5°	5768.2
25°	6043.8
27.5°	6342.5
30°	6693.7
32.5°	7125.3
35°	7692.1
37.5°	8344.5
40°	9069.5
42.5°	9884.3
45°	10851.3
47.5°	11966.6
50°	13258.3
52.5°	14653.4
55°	16184.0
57.5°	17712.5
60°	19232.5
62.5°	20757.0
65°	22572.0
67.5°	22957.5
70°	21150.6
72.5°	17989.6
75°	13658.2
77.5°	8350.2
80°	2650.3
82.5°	449.9
85°	254.2
87.5°	92.0
90°	0.0

(END OF REPORT)