

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: P721865

Luminaire Tested: **CST-CA8-400-740-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-400-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64733 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

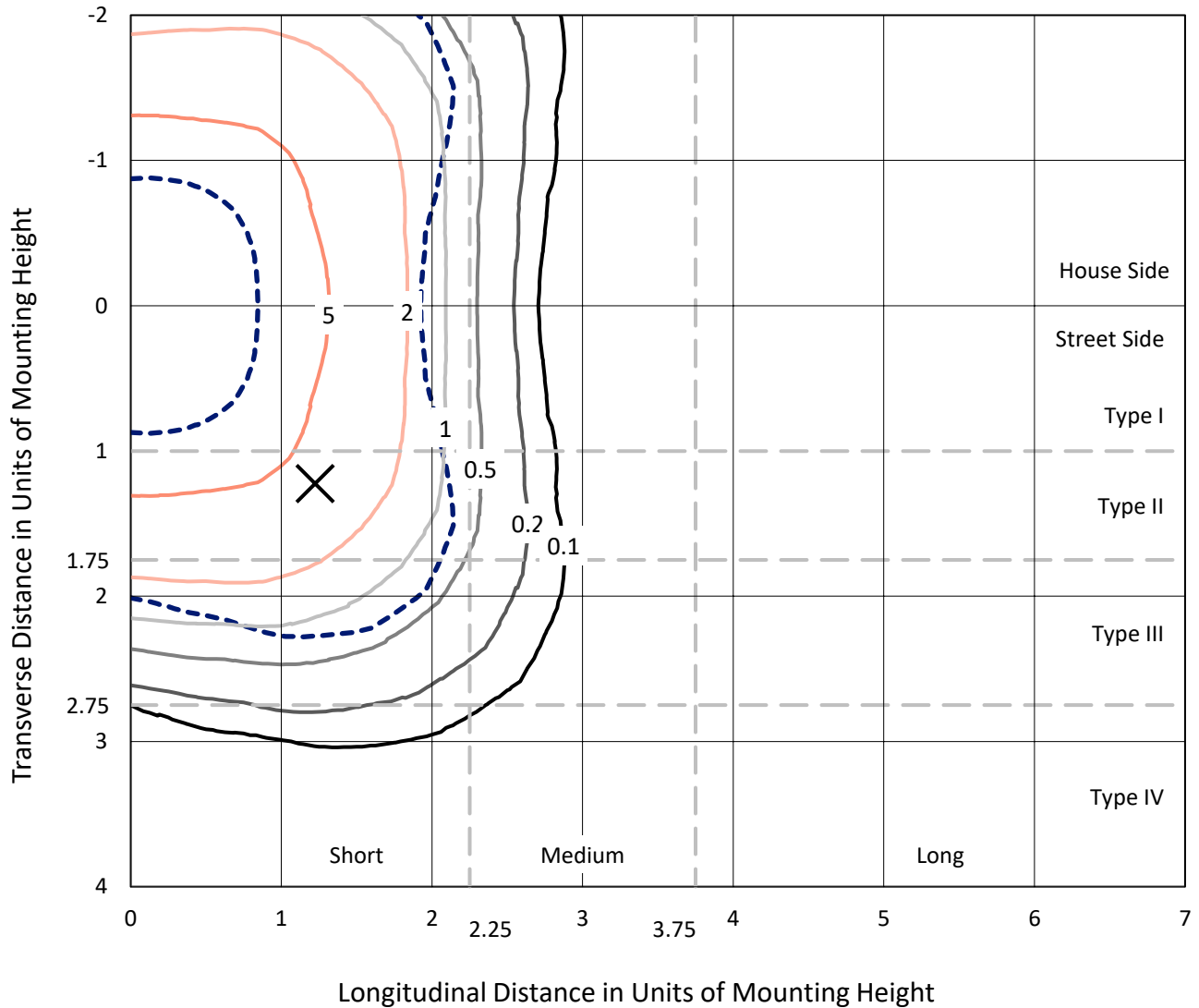
Input Watts (W): 400.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

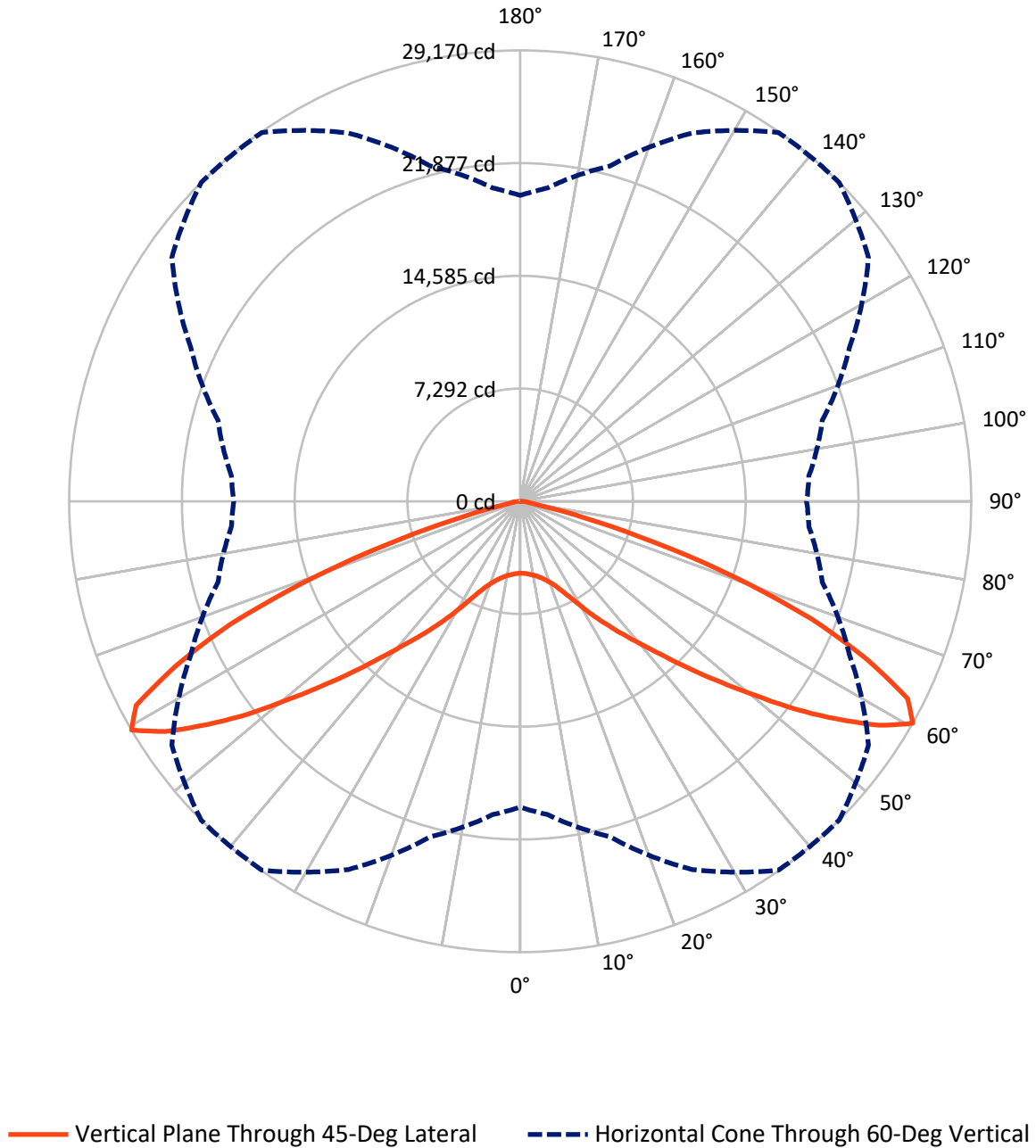
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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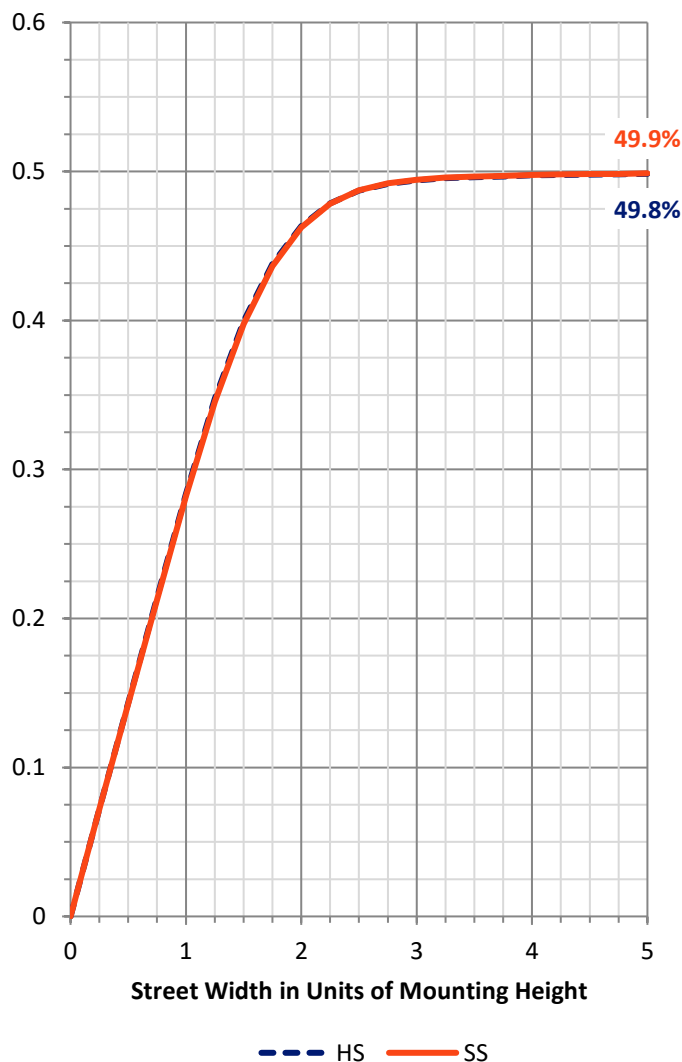
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32366.5	0.0	32366.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32366.5	0.0	32366.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	64733.0	0.0	64733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.9	0.7
10°-20°	1482.9	2.3
20°-30°	3149.6	4.9
30°-40°	6678.2	10.3
40°-50°	12700.1	19.6
50°-60°	20147.9	31.1
60°-70°	17030.3	26.3
70°-80°	2801.8	4.3
80°-90°	287.3	0.4
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°	64733.0	100.0
0°-180°	64733.0	100.0

Coefficient of Utilization



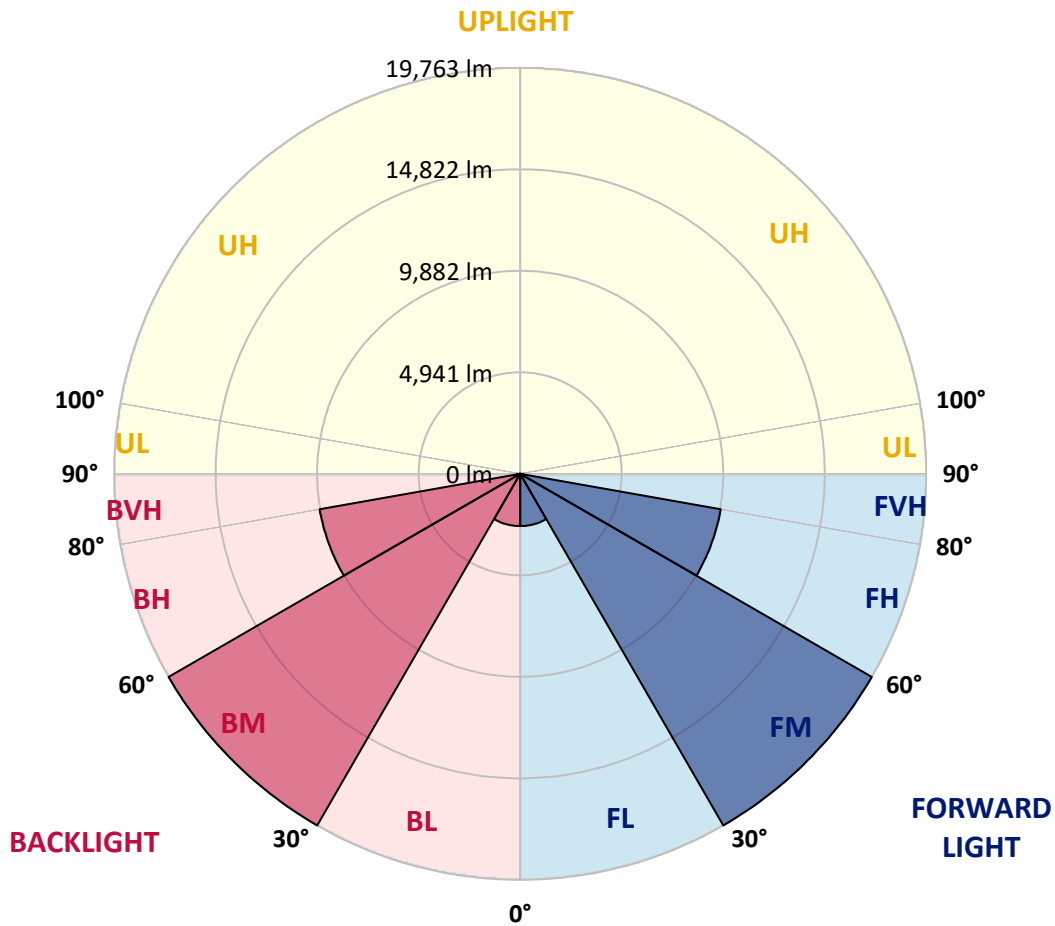
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2543.7	3.9			
FM (30°-60°)	19763.1	30.5			
FH (60°-80°)	9916.1	15.3			G4/12000
FVH (80°-90°)	143.7	0.2			G2/225
BL (0°-30°)	2543.7	3.9	B4/5000		
BM (30°-60°)	19763.1	30.5	B5		
BH (60°-80°)	9916.1	15.3	B5		G4/12000
BVH (80°-90°)	143.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6	4647.6
2.5°	4681.2	4669.6	4665.9	4661.0	4663.5	4664.7	4671.4	4672.0	4672.0	4678.1	4688.5
5°	4733.6	4718.4	4712.9	4706.8	4709.8	4712.9	4719.0	4722.6	4722.0	4725.7	4734.8
7.5°	4790.4	4784.9	4778.2	4774.5	4774.5	4783.0	4778.8	4785.5	4784.9	4789.1	4794.6
10°	4874.6	4862.3	4861.7	4855.0	4858.1	4865.4	4866.6	4865.4	4866.6	4869.1	4881.9
12.5°	4981.3	4978.3	4980.1	4974.6	4972.8	4980.7	4982.5	4990.5	4992.9	5000.2	5008.2
15°	5153.4	5133.8	5131.4	5130.8	5134.4	5146.6	5150.3	5164.9	5171.7	5182.0	5199.7
17.5°	5348.0	5354.7	5342.5	5341.3	5340.7	5350.4	5360.2	5392.5	5402.9	5426.7	5441.9
20°	5658.5	5646.3	5639.0	5609.7	5602.4	5619.5	5654.8	5697.5	5717.7	5755.5	5784.2
22.5°	6073.4	6052.6	6002.6	5967.8	5953.2	5982.5	6020.9	6089.2	6170.4	6217.3	6230.2
25°	6673.1	6591.3	6529.1	6467.5	6445.5	6488.8	6551.1	6659.6	6761.5	6855.5	6898.8
27.5°	7403.3	7351.5	7227.6	7130.6	7092.2	7128.8	7258.1	7411.3	7598.0	7695.6	7710.2
30°	8330.7	8303.8	8145.8	7964.0	7895.7	7959.1	8111.6	8320.3	8580.2	8780.9	8816.3
32.5°	9478.8	9342.8	9123.2	8915.1	8841.9	8919.4	9072.5	9372.1	9722.3	9944.3	10020.0
35°	10795.4	10641.6	10311.6	9991.9	9897.3	9907.1	10152.4	10574.5	11053.5	11363.4	11448.2
37.5°	12247.4	12090.6	11701.4	11205.4	10986.3	11002.8	11323.7	11872.8	12529.2	12867.2	12979.5
40°	13797.0	13634.7	13233.3	12674.4	12314.5	12241.3	12670.2	13338.8	14005.6	14413.2	14456.5
42.5°	15311.8	15119.6	14796.9	14238.1	13909.9	13713.4	14231.4	14837.2	15509.5	15876.8	15905.4
45°	16665.0	16627.8	16368.5	15963.4	15693.1	15519.2	15889.0	16490.5	16960.3	17192.7	17277.5
47.5°	17973.0	17949.8	17866.8	17725.3	17792.4	17503.2	17680.8	17953.5	18211.5	18382.4	18448.3
50°	19119.3	19143.7	19306.6	19547.6	20033.2	19740.4	19684.9	19391.4	19398.8	19412.2	19480.5
52.5°	20066.2	20195.5	20605.5	21332.7	22381.4	22374.7	21534.7	20759.8	20409.7	20254.1	20268.1
55°	20891.6	21113.1	21790.3	23291.7	24792.5	24867.5	23724.8	22008.7	21352.2	21020.4	21063.7
57.5°	21347.4	21684.7	22831.1	25110.3	27249.3	27339.6	26066.9	23391.7	21888.5	21048.4	21084.4
60°	19783.1	20351.1	22464.4	26283.5	29128.3	29169.8	27498.8	23500.3	20230.3	18743.5	18525.7
62.5°	16189.1	16976.1	19957.6	25374.5	28257.7	28129.0	26602.6	21465.7	16618.6	14815.2	14632.2
65°	12160.8	12900.8	16022.6	21726.8	24794.3	24624.7	23070.2	16965.1	12183.9	10269.5	10044.4
67.5°	6581.6	7699.2	10620.3	16596.7	19765.4	20340.7	18187.1	11824.6	7090.4	5140.5	4942.9
70°	2273.2	2937.5	5415.1	10418.4	14256.4	14833.5	12402.3	6341.8	3102.9	1940.1	1741.8
72.5°	807.1	930.4	2035.8	5031.3	8116.5	8993.2	6692.0	2550.8	988.9	720.5	705.9
75°	569.8	588.1	723.6	1640.5	3514.1	4304.1	2638.6	846.8	616.8	576.5	572.9
77.5°	508.8	519.2	586.3	668.0	1073.7	1374.5	812.0	614.4	535.7	513.1	505.1
80°	483.8	491.7	511.2	547.9	608.9	633.3	547.9	525.3	487.5	477.7	474.6
82.5°	422.8	421.0	426.4	441.7	469.2	475.3	439.9	411.8	412.4	400.8	395.3
85°	286.1	303.2	290.4	274.5	340.4	342.3	319.1	239.2	271.5	266.0	243.4
87.5°	86.6	97.6	77.5	53.7	73.8	57.3	51.9	53.7	51.2	44.5	40.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)