

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: P721915

Luminaire Tested: **CST-CA8-430-730-U-T5N**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721915
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-CA8-430-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68241 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

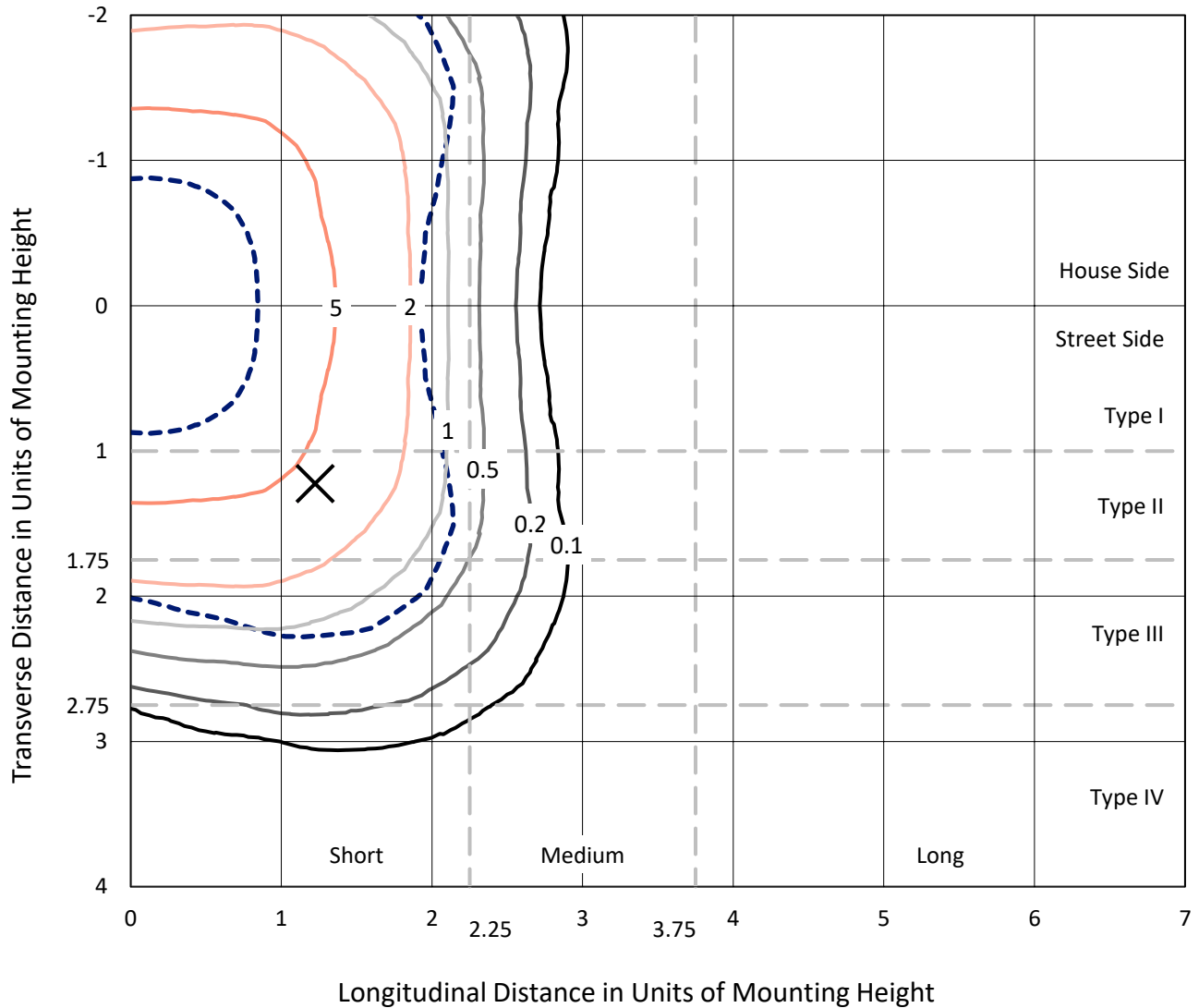
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

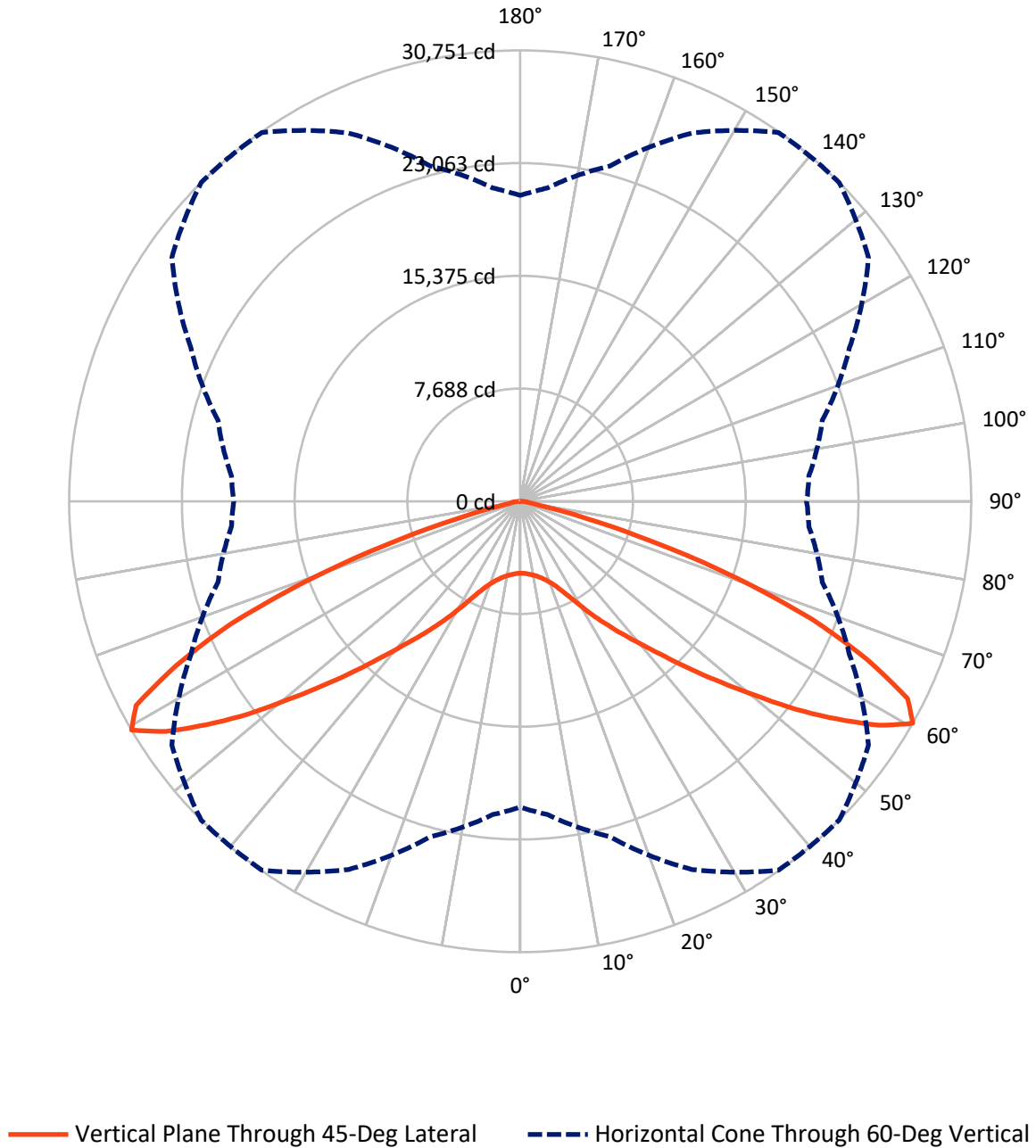
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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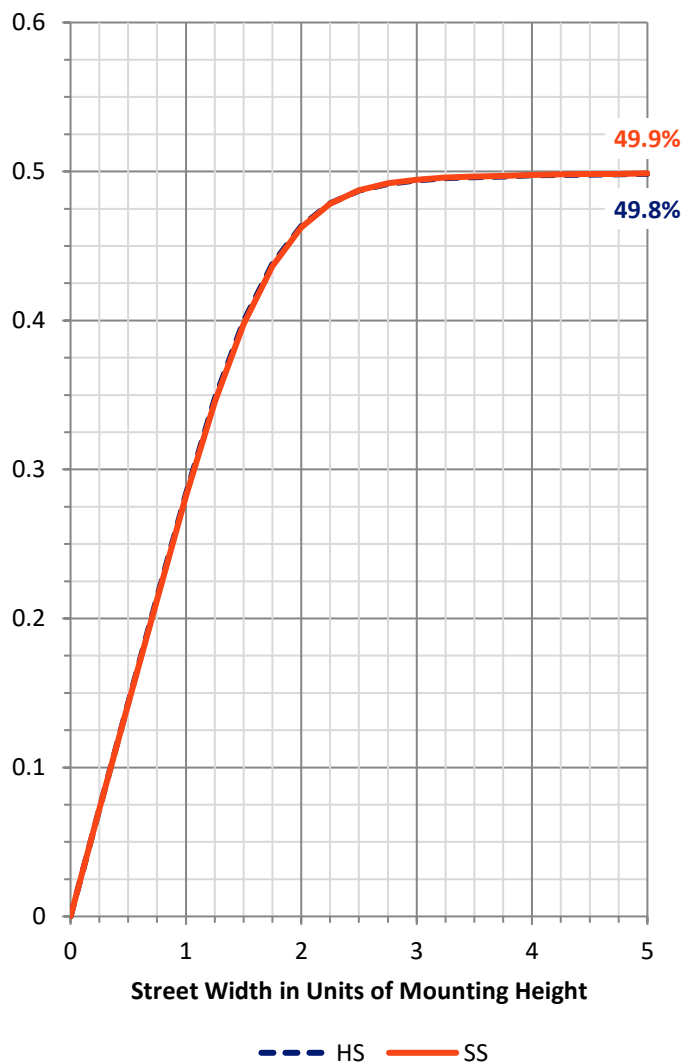
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34120.5	0.0	34120.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34120.5	0.0	34120.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68241.0	0.0	68241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	0.7
10°-20°	1563.3	2.3
20°-30°	3320.3	4.9
30°-40°	7040.1	10.3
40°-50°	13388.3	19.6
50°-60°	21239.8	31.1
60°-70°	17953.3	26.3
70°-80°	2953.6	4.3
80°-90°	302.9	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°	68241.0	100.0
0°-180°	68241.0	100.0

Coefficient of Utilization



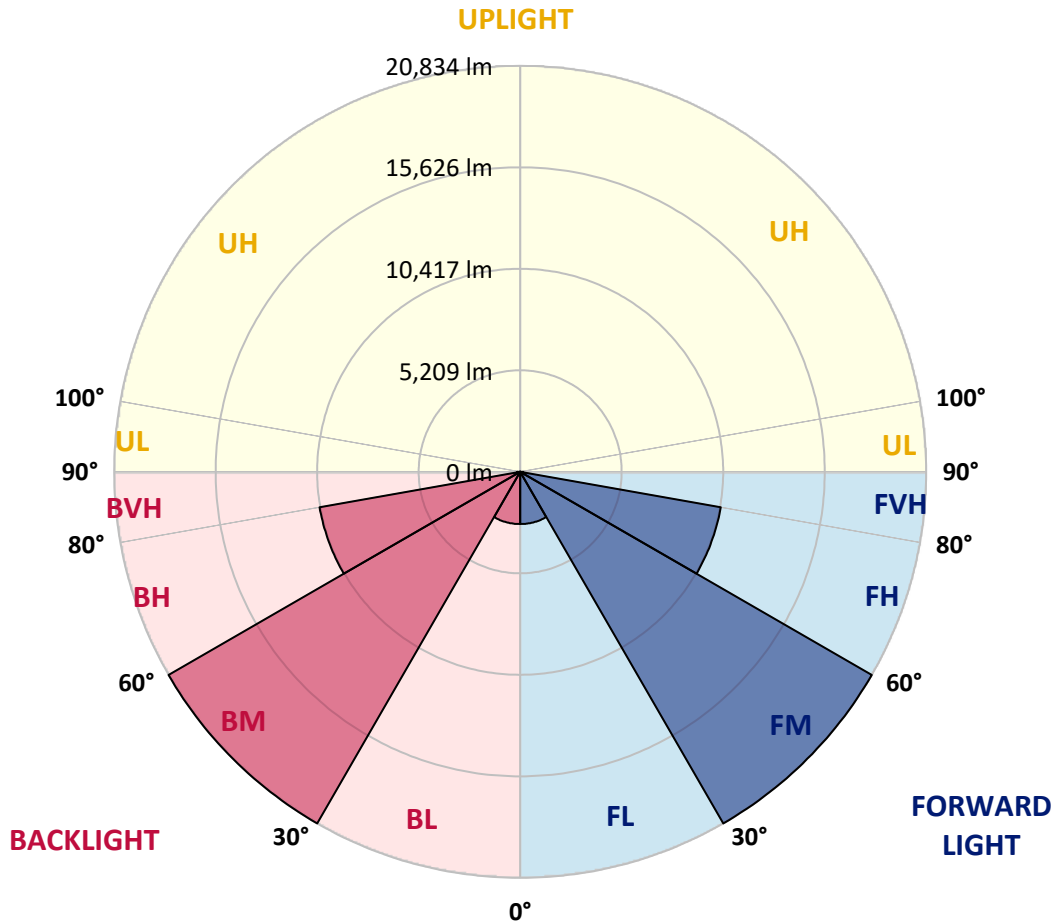
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.5	3.9			
FM (30°-60°)	20834.1	30.5			
FH (60°-80°)	10453.4	15.3			G4/12000
FVH (80°-90°)	151.4	0.2			G2/225
BL (0°-30°)	2681.5	3.9	B4/5000		
BM (30°-60°)	20834.1	30.5	B5		
BH (60°-80°)	10453.4	15.3	B5		G4/12000
BVH (80°-90°)	151.4	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°	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5	4899.5
2.5°	4934.8	4922.6	4918.8	4913.6	4916.2	4917.5	4924.5	4925.2	4925.2	4931.6	4942.6
5°	4990.1	4974.1	4968.3	4961.8	4965.1	4968.3	4974.7	4978.6	4977.9	4981.8	4991.4
7.5°	5050.0	5044.2	5037.1	5033.2	5033.2	5042.2	5037.7	5044.8	5044.2	5048.7	5054.5
10°	5138.7	5125.8	5125.2	5118.1	5121.3	5129.1	5130.3	5129.1	5130.3	5132.9	5146.4
12.5°	5251.3	5248.0	5250.0	5244.2	5242.3	5250.6	5252.5	5260.9	5263.5	5271.2	5279.6
15°	5432.6	5412.0	5409.5	5408.8	5412.7	5425.6	5429.4	5444.8	5451.9	5462.9	5481.5
17.5°	5637.8	5644.9	5632.0	5630.7	5630.1	5640.4	5650.7	5684.7	5695.7	5720.8	5736.8
20°	5965.1	5952.3	5944.6	5913.7	5906.0	5924.0	5961.3	6006.3	6027.5	6067.4	6097.6
22.5°	6402.5	6380.6	6327.9	6291.2	6275.8	6306.7	6347.2	6419.2	6504.7	6554.3	6567.8
25°	7034.7	6948.5	6882.9	6818.0	6794.8	6840.5	6906.1	7020.5	7128.0	7227.0	7272.7
27.5°	7804.5	7749.9	7619.3	7517.1	7476.5	7515.1	7651.5	7812.9	8009.7	8112.6	8128.0
30°	8782.1	8753.8	8587.2	8395.6	8323.6	8390.4	8551.2	8771.2	9045.2	9256.8	9294.1
32.5°	9992.5	9849.1	9617.6	9398.2	9321.1	9402.7	9564.2	9880.0	10249.1	10483.2	10563.0
35°	11380.4	11218.3	10870.4	10533.4	10433.7	10444.0	10702.5	11147.6	11652.5	11979.2	12068.6
37.5°	12911.1	12745.8	12335.5	11812.6	11581.7	11599.1	11937.4	12516.2	13208.2	13564.5	13682.9
40°	14544.7	14373.6	13950.4	13361.3	12981.8	12904.7	13356.8	14061.7	14764.6	15194.2	15239.9
42.5°	16141.6	15939.0	15598.8	15009.7	14663.7	14456.6	15002.6	15641.2	16350.0	16737.1	16767.4
45°	17568.1	17528.9	17255.5	16828.5	16543.6	16360.3	16750.0	17384.1	17879.4	18124.4	18213.8
47.5°	18947.0	18922.5	18835.1	18685.9	18756.6	18451.8	18638.9	18926.4	19198.5	19378.5	19448.0
50°	20155.5	20181.2	20352.9	20606.9	21118.9	20810.2	20751.6	20442.3	20450.0	20464.2	20536.2
52.5°	21153.6	21290.0	21722.1	22488.8	23594.3	23587.3	22701.7	21884.9	21515.7	21351.7	21366.5
55°	22023.8	22257.2	22971.1	24553.9	26136.0	26215.1	25010.5	23201.4	22509.4	22159.5	22205.1
57.5°	22504.2	22859.9	24068.3	26471.1	28726.0	28821.2	27479.6	24659.4	23074.7	22189.1	22227.0
60°	20855.2	21454.0	23681.8	27707.9	30706.9	30750.6	28989.0	24773.9	21326.6	19759.3	19529.7
62.5°	17066.4	17896.1	21039.1	26749.6	29789.1	29653.4	28044.2	22629.0	17519.2	15618.1	15425.1
65°	12819.8	13599.9	16890.9	22904.2	26138.0	25959.2	24320.4	17884.5	12844.2	10826.0	10588.7
67.5°	6938.2	8116.5	11195.8	17496.1	20836.5	21443.0	19172.7	12465.4	7474.6	5419.1	5210.7
70°	2396.3	3096.7	5708.5	10982.9	15029.0	15637.4	13074.4	6685.5	3271.0	2045.2	1836.2
72.5°	850.9	980.8	2146.2	5304.0	8556.4	9480.6	7054.6	2689.0	1042.5	759.6	744.1
75°	600.7	620.0	762.8	1729.4	3704.5	4537.4	2781.6	892.7	650.2	607.8	603.9
77.5°	536.4	547.3	618.1	704.2	1131.9	1449.0	856.0	647.6	564.7	540.9	532.5
80°	510.0	518.4	539.0	577.5	641.9	667.6	577.5	553.7	513.9	503.6	500.4
82.5°	445.7	443.8	449.6	465.6	494.6	501.0	463.7	434.1	434.8	422.5	416.8
85°	301.6	319.6	306.1	289.4	358.9	360.8	336.4	252.1	286.2	280.4	256.6
87.5°	91.3	102.9	81.7	56.6	77.8	60.5	54.7	56.6	54.0	46.9	42.4
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)