

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: P721905

Luminaire Tested: **CST-CA8-430-727-U-T5N**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721905  
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-CA8-430-727-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

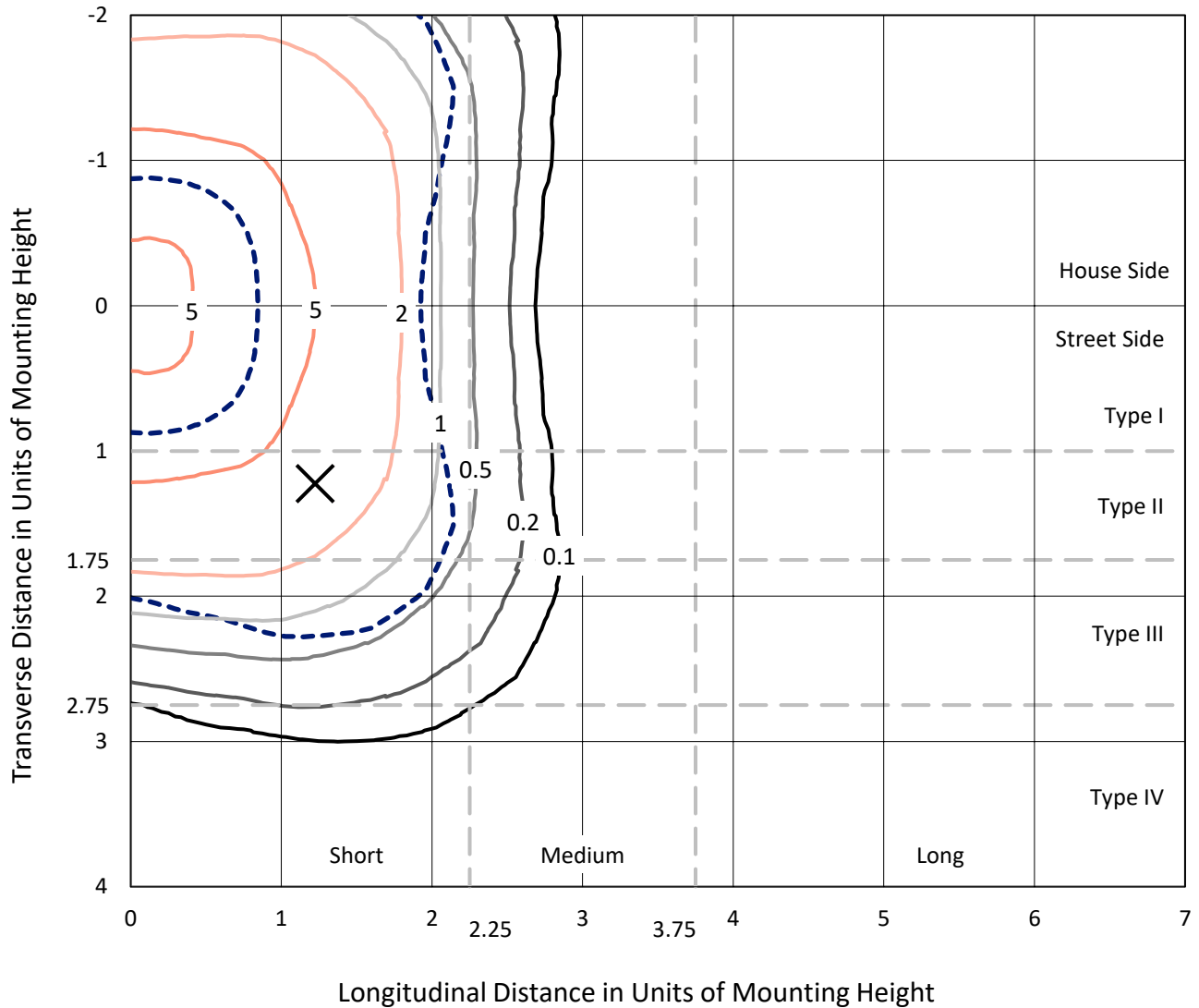
Lumens per Lamp: N/A  
Luminaire Lumens: 58852 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 434.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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

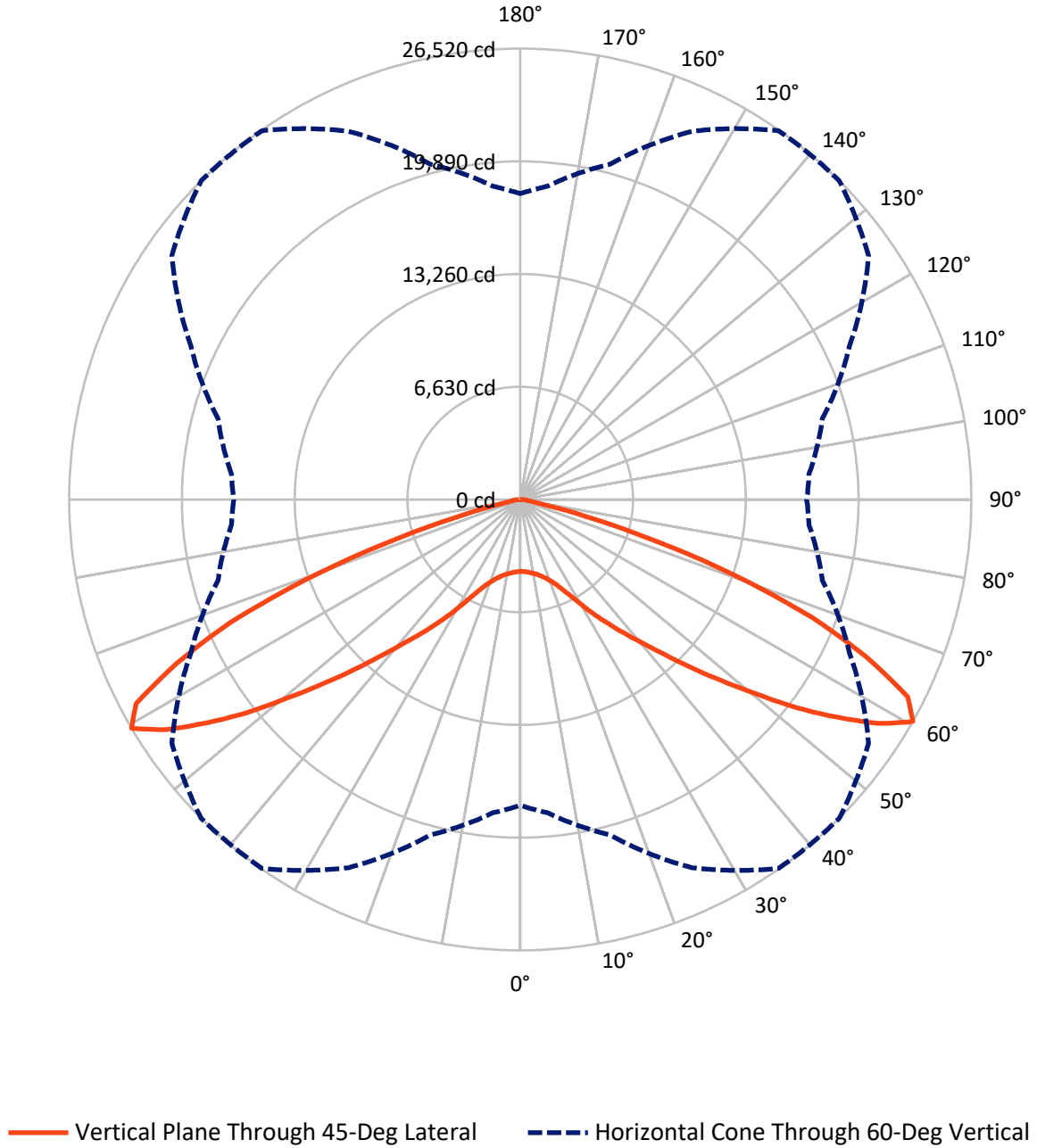
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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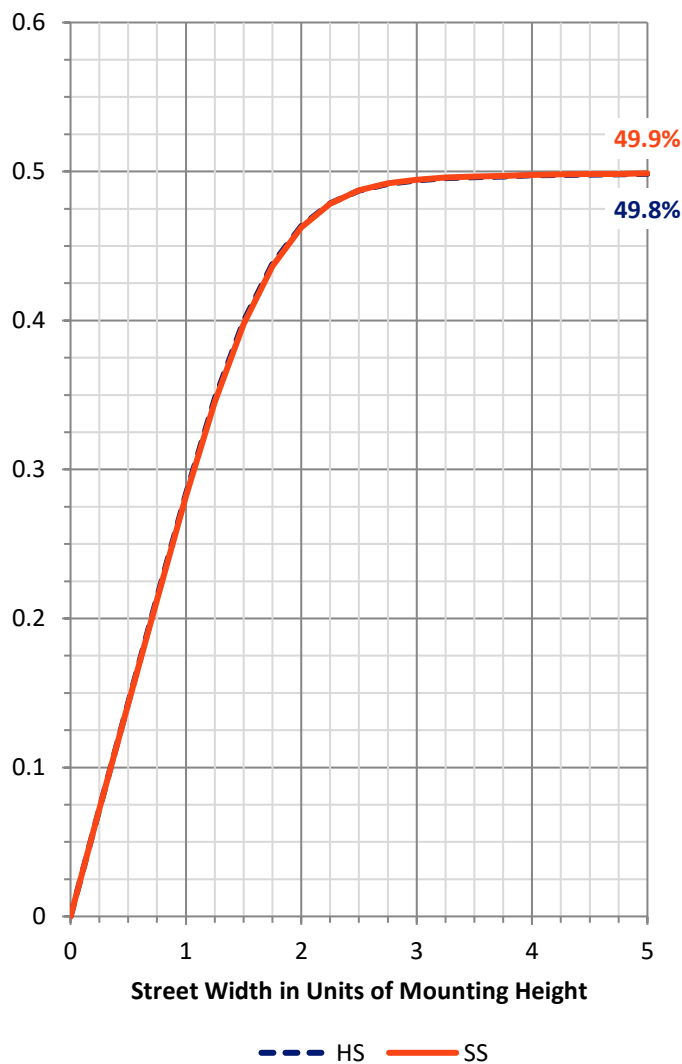
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29426.0	0.0	29426.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29426.0	0.0	29426.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	58852.0	0.0	58852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.6	0.7
10°-20°	1348.2	2.3
20°-30°	2863.4	4.9
30°-40°	6071.5	10.3
40°-50°	11546.3	19.6
50°-60°	18317.5	31.1
60°-70°	15483.1	26.3
70°-80°	2547.2	4.3
80°-90°	261.2	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°	58852.0	100.0
0°-180°	58852.0	100.0

**Coefficient of Utilization**

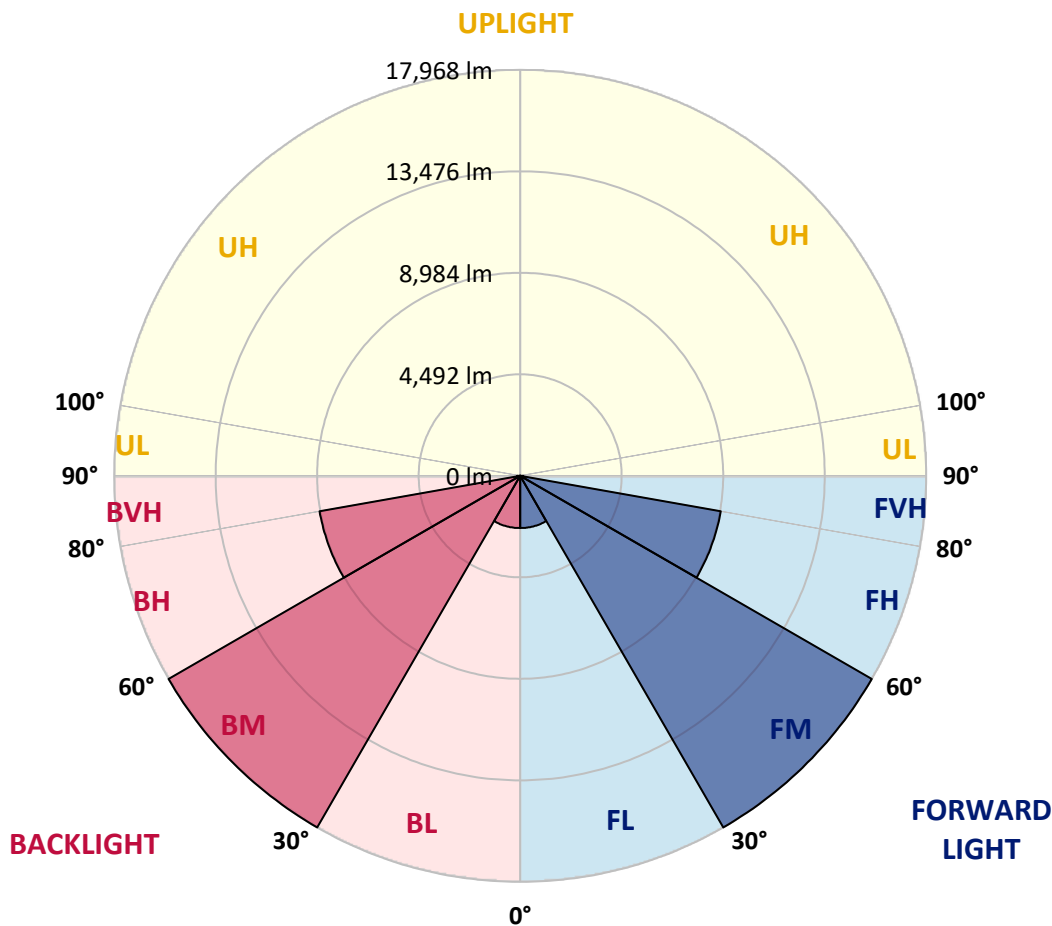


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2312.6	3.9			
FM (30°-60°)	17967.6	30.5			
FH (60°-80°)	9015.2	15.3			G4/12000
FVH (80°-90°)	130.6	0.2			G2/225
BL (0°-30°)	2312.6	3.9	B3/2500		
BM (30°-60°)	17967.6	30.5	B5		
BH (60°-80°)	9015.2	15.3	B5		G4/12000
BVH (80°-90°)	130.6	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°	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4
2.5°	4255.9	4245.3	4242.0	4237.6	4239.8	4240.9	4247.0	4247.6	4247.6	4253.1	4262.5
5°	4303.6	4289.7	4284.7	4279.2	4281.9	4284.7	4290.3	4293.6	4293.0	4296.4	4304.7
7.5°	4355.2	4350.2	4344.1	4340.7	4340.7	4348.5	4344.6	4350.7	4350.2	4354.0	4359.0
10°	4431.7	4420.6	4420.0	4413.9	4416.7	4423.4	4424.5	4423.4	4424.5	4426.7	4438.4
12.5°	4528.8	4526.0	4527.7	4522.7	4521.0	4528.2	4529.9	4537.1	4539.3	4546.0	4553.2
15°	4685.2	4667.4	4665.2	4664.7	4668.0	4679.1	4682.4	4695.7	4701.8	4711.2	4727.3
17.5°	4862.1	4868.2	4857.1	4856.0	4855.5	4864.3	4873.2	4902.6	4912.0	4933.7	4947.5
20°	5144.4	5133.3	5126.7	5100.1	5093.4	5108.9	5141.1	5179.9	5198.2	5232.6	5258.7
22.5°	5521.6	5502.7	5457.3	5425.6	5412.3	5439.0	5473.9	5536.0	5609.8	5652.5	5664.1
25°	6066.8	5992.5	5935.9	5879.9	5859.9	5899.3	5955.9	6054.6	6147.2	6232.7	6272.0
27.5°	6730.7	6683.6	6571.0	6482.8	6447.9	6481.1	6598.7	6738.0	6907.7	6996.4	7009.7
30°	7573.8	7549.4	7405.8	7240.5	7178.4	7236.0	7374.7	7564.4	7800.7	7983.2	8015.3
32.5°	8617.7	8494.0	8294.3	8105.2	8038.6	8109.1	8248.3	8520.6	8839.0	9040.9	9109.7
35°	9814.6	9674.9	9374.8	9084.1	8998.2	9007.0	9230.0	9613.8	10049.2	10331.0	10408.1
37.5°	11134.7	10992.2	10638.3	10187.4	9988.2	10003.2	10295.0	10794.1	11391.0	11698.2	11800.3
40°	12543.5	12396.0	12031.0	11523.0	11195.7	11129.2	11519.1	12127.0	12733.2	13103.7	13143.1
42.5°	13920.7	13746.0	13452.6	12944.5	12646.1	12467.5	12938.4	13489.2	14100.4	14434.4	14460.4
45°	15151.0	15117.1	14881.4	14513.1	14267.4	14109.3	14445.4	14992.3	15419.4	15630.7	15707.8
47.5°	16340.1	16319.1	16243.6	16115.0	16176.0	15913.1	16074.5	16322.4	16557.0	16712.3	16772.2
50°	17382.3	17404.5	17552.6	17771.7	18213.2	17947.0	17896.5	17629.7	17636.4	17648.6	17710.7
52.5°	18243.2	18360.8	18733.5	19394.6	20348.1	20342.0	19578.2	18873.8	18555.4	18414.0	18426.8
55°	18993.6	19195.0	19810.6	21175.6	22540.1	22608.3	21569.4	20009.2	19412.4	19110.7	19150.0
57.5°	19407.9	19714.7	20756.9	22829.1	24773.7	24855.8	23698.8	21266.6	19899.9	19136.2	19168.9
60°	17985.8	18502.2	20423.5	23895.7	26482.0	26519.7	25000.5	21365.3	18392.4	17040.7	16842.7
62.5°	14718.3	15433.8	18144.4	23069.2	25690.5	25573.5	24185.7	19515.6	15108.8	13469.3	13302.9
65°	11055.9	11728.7	14566.9	19752.9	22541.7	22387.6	20974.3	15423.9	11077.0	9336.5	9131.8
67.5°	5983.6	6999.8	9655.4	15088.8	17969.7	18492.8	16534.8	10750.3	6446.2	4673.5	4493.8
70°	2066.6	2670.7	4923.1	9471.9	12961.2	13485.9	11275.6	5765.6	2821.0	1763.8	1583.5
72.5°	733.8	845.8	1850.9	4574.2	7379.1	8176.2	6084.0	2319.0	899.1	655.0	641.7
75°	518.0	534.7	657.8	1491.5	3194.8	3913.1	2398.9	769.9	560.8	524.1	520.8
77.5°	462.6	472.0	533.0	607.3	976.2	1249.6	738.2	558.5	487.0	466.5	459.3
80°	439.8	447.1	464.8	498.1	553.5	575.7	498.1	477.6	443.2	434.3	431.5
82.5°	384.4	382.7	387.7	401.6	426.5	432.1	399.9	374.4	374.9	364.4	359.4
85°	260.1	275.7	264.0	249.6	309.5	311.2	290.1	217.4	246.8	241.8	221.3
87.5°	78.8	88.7	70.4	48.8	67.1	52.1	47.1	48.8	46.6	40.5	36.6
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)