

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: P510522

Luminaire Tested: **CST-CA10-630-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-630-722-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77577 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

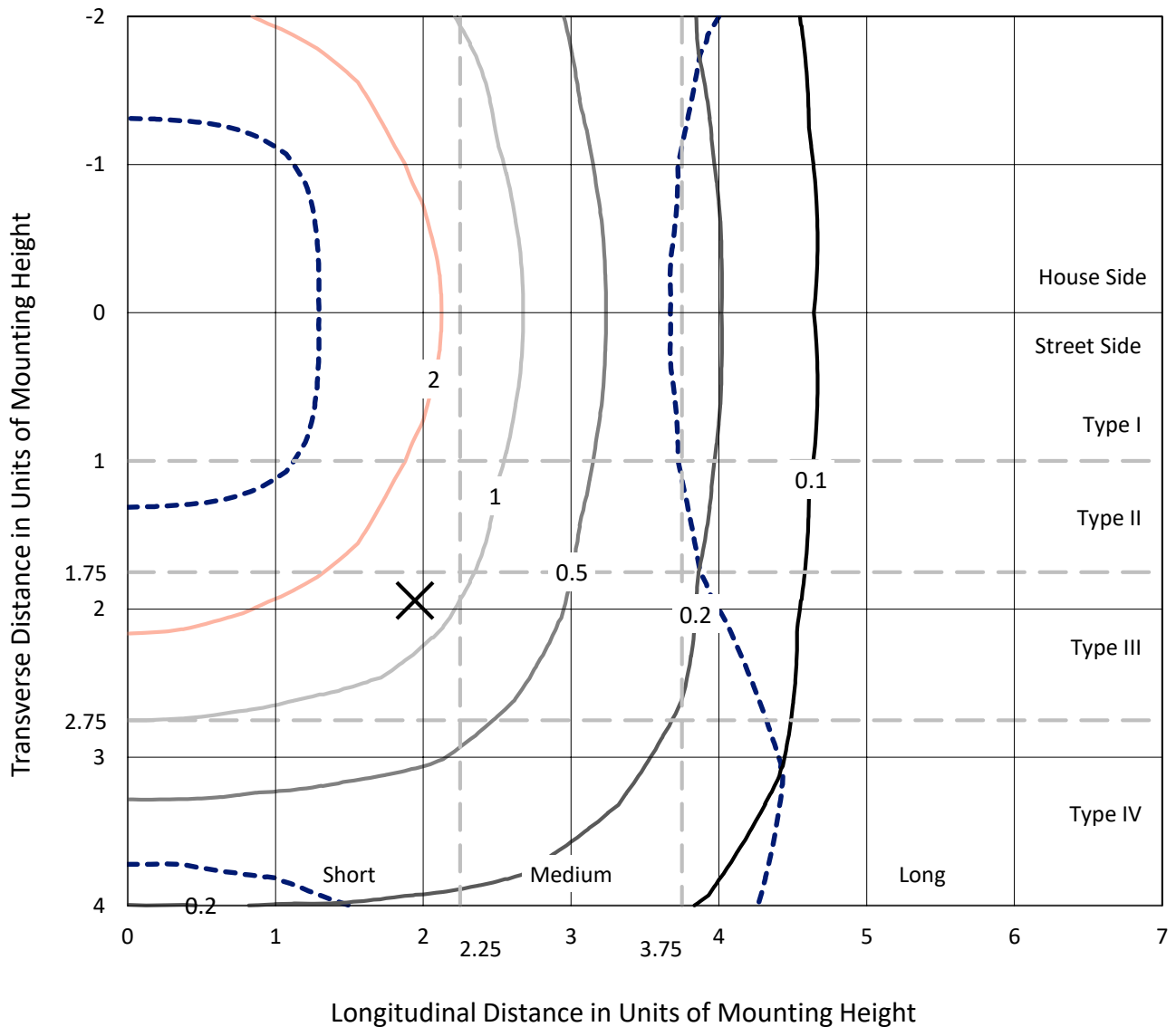
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

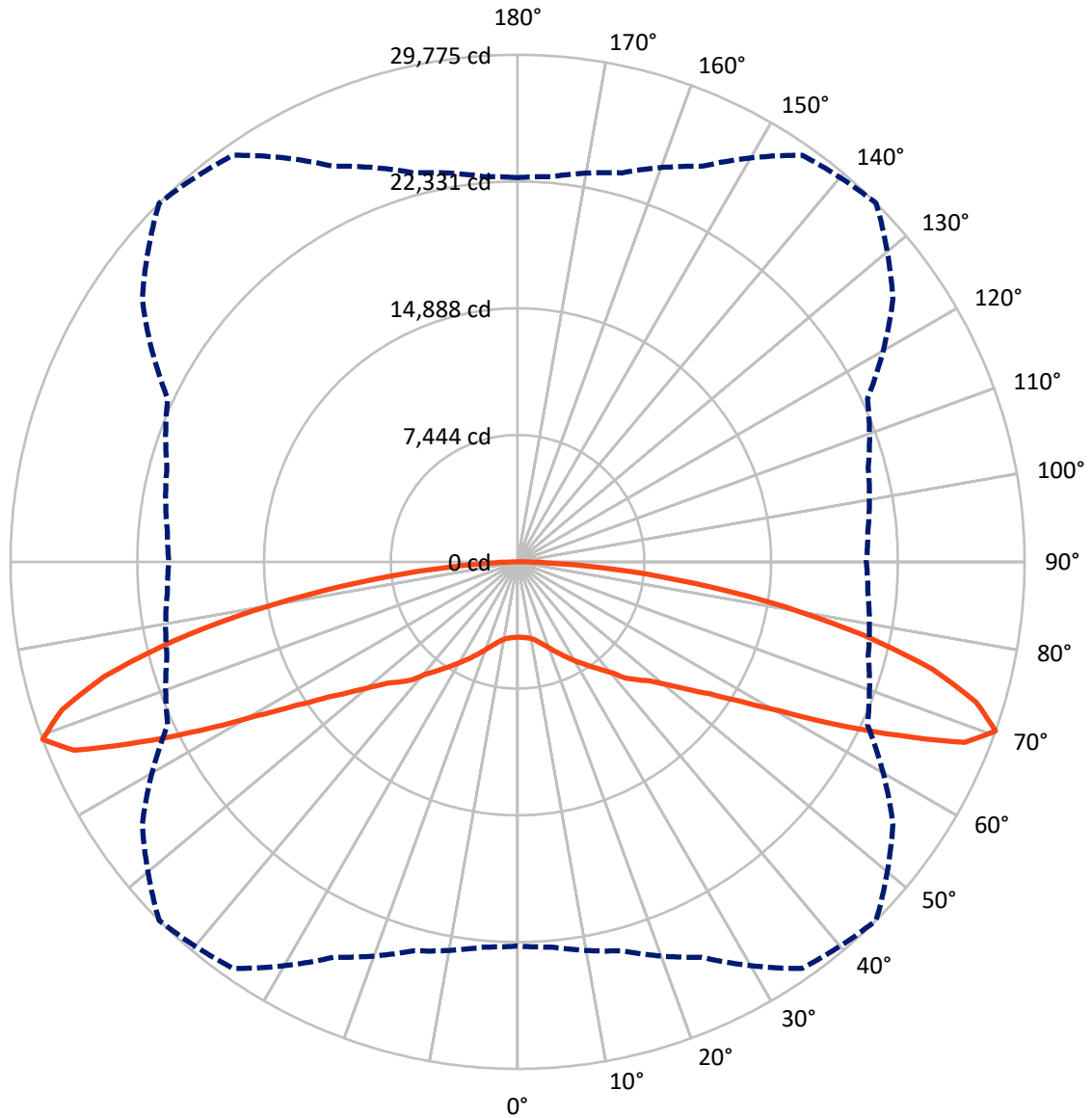
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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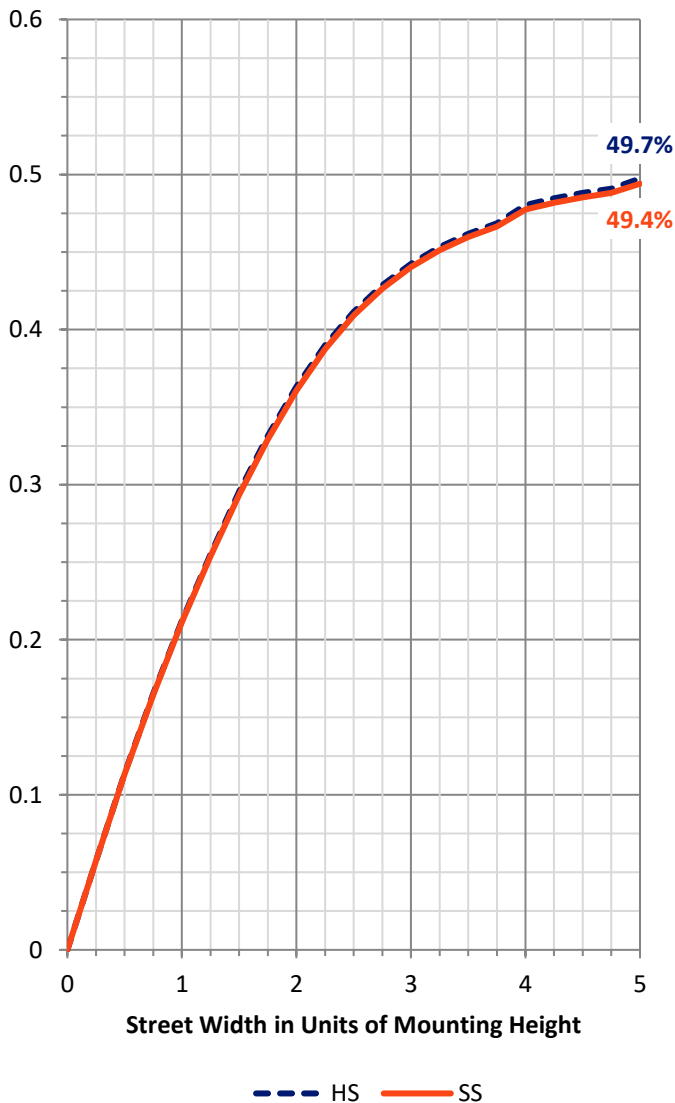
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38788.5	0.0	38788.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	38788.5	0.0	38788.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	77577.0	0.0	77577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.0	0.6
10°-20°	1403.6	1.8
20°-30°	2778.5	3.6
30°-40°	4806.6	6.2
40°-50°	7997.4	10.3
50°-60°	13948.7	18.0
60°-70°	23091.5	29.8
70°-80°	19352.5	24.9
80°-90°	3767.3	4.9
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°	77577.0	100.0
0°-180°	77577.0	100.0

Coefficient of Utilization

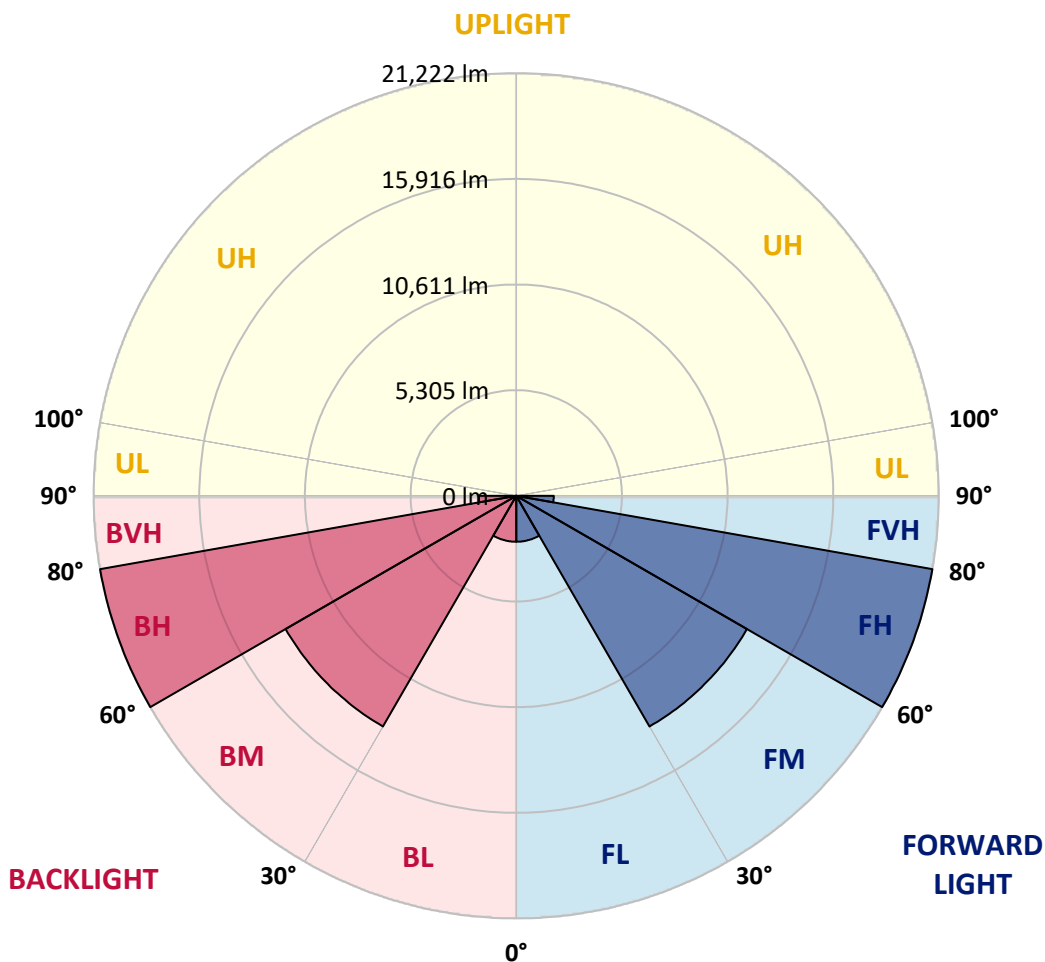


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2306.5	3.0			
FM (30°-60°)	13376.4	17.2			
FH (60°-80°)	21222.0	27.4			G5
FVH (80°-90°)	1883.6	2.4			G5
BL (0°-30°)	2306.5	3.0	B3/2500		
BM (30°-60°)	13376.4	17.2	B5		
BH (60°-80°)	21222.0	27.4	B5		G5
BVH (80°-90°)	1883.6	2.4			G5
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4461.4	4447.6	4443.0	4438.4	4441.5	4439.9	4447.6	4450.7	4453.7	4467.6	4459.9
5°	4489.1	4478.3	4476.8	4470.6	4469.1	4469.1	4479.9	4481.4	4482.9	4492.2	4482.9
7.5°	4539.8	4529.0	4526.0	4522.9	4521.3	4515.2	4522.9	4519.8	4522.9	4527.5	4516.7
10°	4619.7	4607.4	4604.3	4596.6	4601.2	4592.0	4598.2	4590.5	4576.6	4579.7	4564.4
12.5°	4728.7	4718.0	4722.6	4721.1	4739.5	4734.9	4722.6	4707.2	4684.2	4668.8	4651.9
15°	4890.1	4873.2	4885.4	4897.7	4916.2	4923.9	4914.6	4873.2	4839.4	4814.8	4800.9
17.5°	5086.7	5059.0	5083.6	5108.2	5148.2	5155.8	5122.0	5071.3	5034.5	5023.7	5000.7
20°	5315.6	5311.0	5312.5	5352.5	5413.9	5424.7	5380.1	5320.2	5283.3	5284.9	5258.8
22.5°	5592.1	5567.6	5575.2	5615.2	5702.8	5731.9	5658.2	5592.1	5569.1	5575.2	5572.2
25°	5908.6	5885.6	5874.8	5893.3	6006.9	6057.6	5987.0	5910.2	5899.4	5913.2	5891.7
27.5°	6255.8	6234.3	6222.0	6231.2	6320.4	6415.6	6337.3	6272.7	6271.2	6291.2	6278.9
30°	6650.7	6618.4	6604.6	6615.3	6676.8	6769.0	6706.0	6667.6	6699.8	6713.6	6709.0
32.5°	7050.1	7034.7	7030.1	7027.1	7102.3	7154.6	7123.8	7131.5	7157.6	7220.6	7200.7
35°	7504.8	7460.3	7472.6	7481.8	7580.1	7584.7	7587.8	7601.6	7670.8	7759.9	7707.6
37.5°	7978.0	7967.3	7975.0	7948.8	8021.0	8050.2	8093.2	8139.3	8248.4	8351.3	8329.8
40°	8563.4	8543.4	8551.1	8520.3	8555.7	8578.7	8666.3	8766.1	8906.0	9016.6	8965.9
42.5°	9339.2	9288.5	9288.5	9297.7	9371.5	9346.9	9534.3	9562.0	9735.6	9829.3	9800.1
45°	10251.8	10233.3	10136.5	9973.7	9881.5	9880.0	10030.5	10254.8	10542.1	10737.2	10735.7
47.5°	11411.7	11354.8	11122.8	10731.1	10497.6	10440.7	10599.0	11035.3	11563.8	11867.9	11863.3
50°	12932.6	12860.4	12508.6	11900.2	11445.5	11305.7	11559.1	12124.5	12835.8	13241.4	13275.2
52.5°	14634.8	14641.0	14243.1	13322.8	12649.9	12398.0	12666.8	13474.9	14361.4	14917.5	14983.6
55°	16612.1	16564.4	16188.0	15144.9	14218.5	13677.7	14084.8	15155.6	16174.2	16598.2	16715.0
57.5°	18670.7	18484.8	18196.0	17220.4	16137.3	15446.0	15934.5	16982.3	17957.9	18498.6	18480.2
60°	20495.8	20372.9	20207.0	19429.6	18598.5	17808.8	18185.2	19071.7	19907.4	20234.7	20248.5
62.5°	22489.9	22387.0	22238.0	21812.4	21354.6	21061.2	20720.1	21130.3	21783.2	22141.2	22258.0
65°	24447.2	24410.3	24496.4	24431.8	24625.4	24582.4	23765.1	23507.0	23517.7	23416.3	23364.1
67.5°	24332.0	24318.1	24825.1	25836.0	27765.6	28312.5	26215.5	23880.3	22827.9	22560.6	22522.2
70°	22557.5	22706.6	23645.2	25624.0	29145.2	29775.1	26903.7	22665.1	21319.3	20649.5	20483.5
72.5°	19143.9	19435.8	20875.3	23789.7	27999.1	28143.5	25173.9	20836.9	18855.1	18056.2	17937.9
75°	14771.6	14808.4	16281.7	19985.8	24988.0	25169.3	22456.1	17477.0	15527.4	14533.4	14502.7
77.5°	8996.6	9520.5	11669.8	14985.1	19864.4	20807.7	18781.3	13920.4	11602.2	10721.9	10230.2
80°	4413.8	4653.5	6202.1	9474.4	14198.5	15779.4	13937.3	9628.0	7156.1	6039.2	5916.3
82.5°	2009.5	2137.0	2934.3	4953.0	8568.0	10526.8	8601.8	5513.8	3820.8	2988.1	2960.5
85°	780.4	775.8	1187.6	2078.6	4101.9	5828.7	4355.4	2630.2	1748.3	1299.7	1226.0
87.5°	227.4	242.7	348.7	682.1	1215.2	1637.7	1342.7	909.5	537.7	345.7	318.0
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)