

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: P510433

Luminaire Tested: **CST-CA10-210-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-210-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37196 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

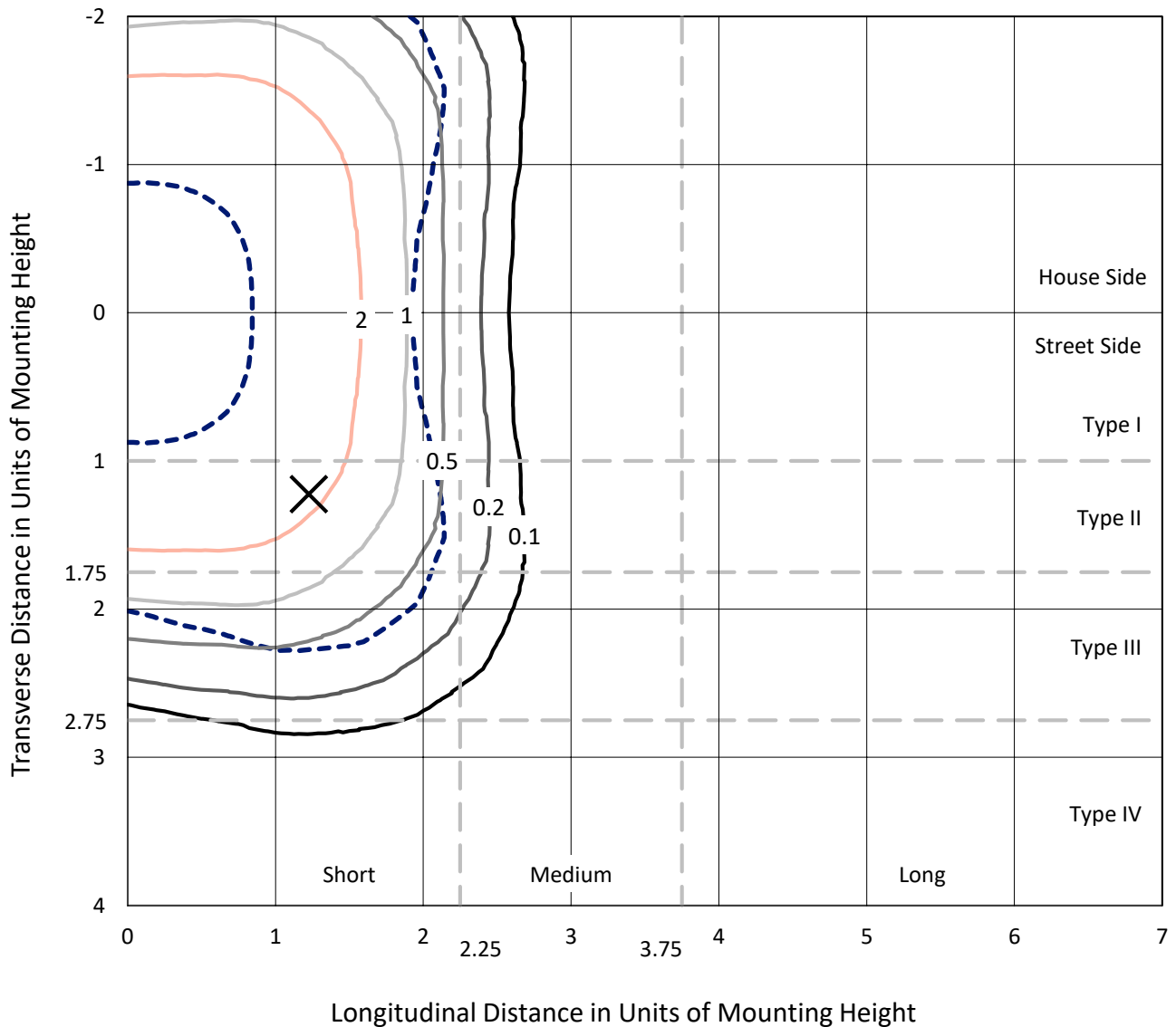
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

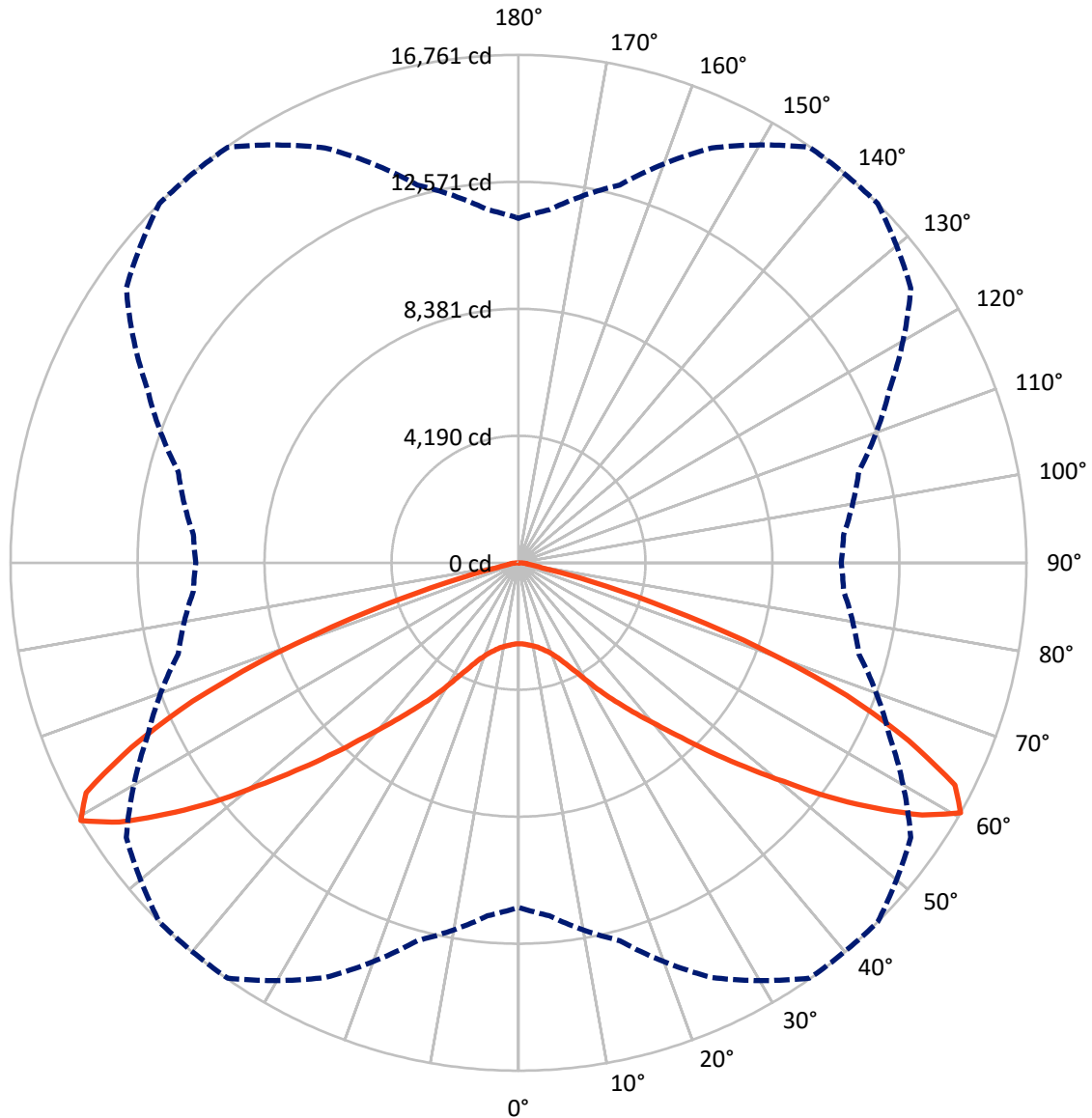
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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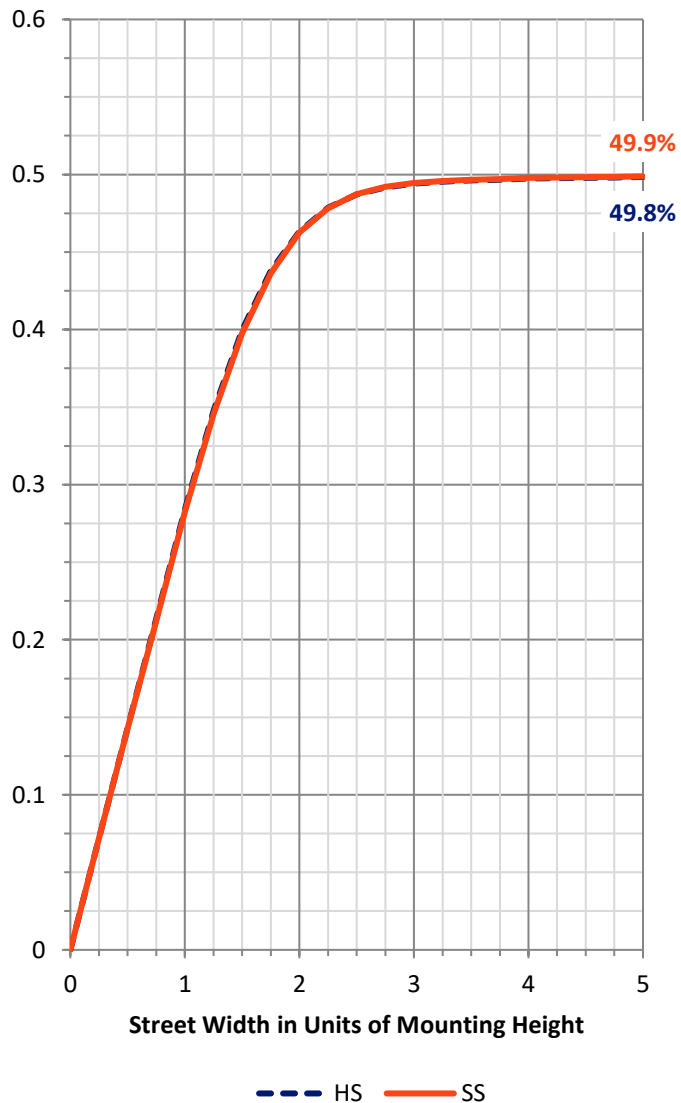
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18598.0	0.0	18598.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18598.0	0.0	18598.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37196.0	0.0	37196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	0.7
10°-20°	852.1	2.3
20°-30°	1809.8	4.9
30°-40°	3837.3	10.3
40°-50°	7297.5	19.6
50°-60°	11577.1	31.1
60°-70°	9785.8	26.3
70°-80°	1609.9	4.3
80°-90°	165.1	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°	37196.0	100.0
0°-180°	37196.0	100.0

Coefficient of Utilization



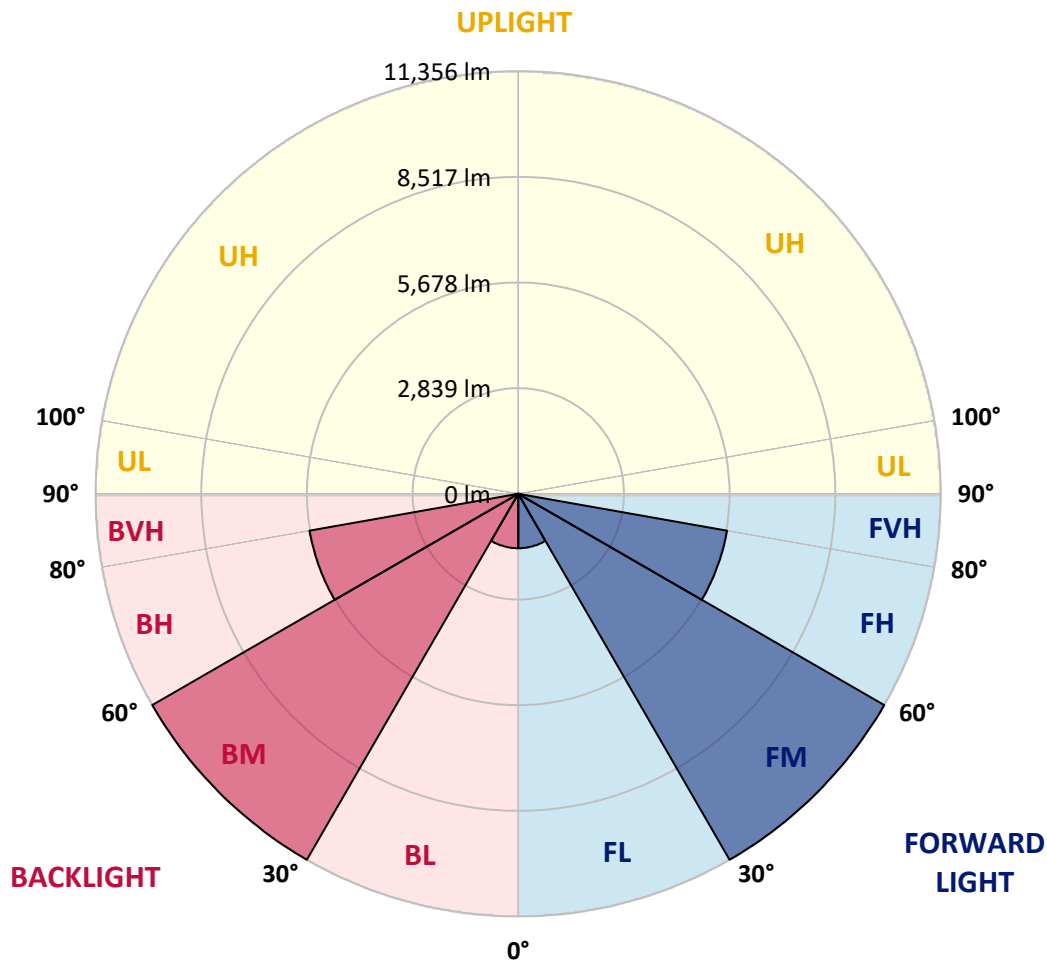
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.6	3.9			
FM (30°-60°)	11356.0	30.5			
FH (60°-80°)	5697.8	15.3			G3/7500
FVH (80°-90°)	82.5	0.2			G1/100
BL (0°-30°)	1461.6	3.9	B3/2500		
BM (30°-60°)	11356.0	30.5	B5		
BH (60°-80°)	5697.8	15.3	B5		G3/7500
BVH (80°-90°)	82.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5	2670.5
2.5°	2689.8	2683.2	2681.1	2678.3	2679.7	2680.4	2684.2	2684.6	2684.6	2688.1	2694.0
5°	2720.0	2711.2	2708.1	2704.5	2706.3	2708.1	2711.6	2713.7	2713.3	2715.4	2720.7
7.5°	2752.6	2749.4	2745.6	2743.5	2743.5	2748.4	2745.9	2749.8	2749.4	2751.9	2755.0
10°	2800.9	2793.9	2793.6	2789.7	2791.5	2795.7	2796.4	2795.7	2796.4	2797.8	2805.2
12.5°	2862.3	2860.5	2861.6	2858.4	2857.4	2861.9	2863.0	2867.6	2869.0	2873.2	2877.7
15°	2961.2	2949.9	2948.5	2948.2	2950.3	2957.3	2959.4	2967.8	2971.7	2977.6	2987.8
17.5°	3073.0	3076.8	3069.8	3069.1	3068.8	3074.4	3080.0	3098.6	3104.5	3118.2	3127.0
20°	3251.4	3244.4	3240.2	3223.4	3219.2	3229.0	3249.3	3273.8	3285.4	3307.2	3323.6
22.5°	3489.8	3477.9	3449.1	3429.1	3420.7	3437.6	3459.6	3498.9	3545.5	3572.5	3579.9
25°	3834.4	3787.4	3751.7	3716.3	3703.6	3728.5	3764.3	3826.7	3885.2	3939.2	3964.1
27.5°	4254.0	4224.2	4153.0	4097.3	4075.2	4096.3	4170.6	4258.6	4365.8	4421.9	4430.3
30°	4786.9	4771.4	4680.6	4576.2	4536.9	4573.4	4661.0	4780.9	4930.2	5045.6	5065.9
32.5°	5446.6	5368.4	5242.2	5122.7	5080.6	5125.1	5213.1	5385.3	5586.5	5714.1	5757.5
35°	6203.1	6114.8	5925.1	5741.4	5687.1	5692.7	5833.6	6076.2	6351.4	6529.5	6578.2
37.5°	7037.4	6947.3	6723.7	6438.7	6312.8	6322.3	6506.7	6822.2	7199.4	7393.6	7458.1
40°	7927.8	7834.6	7603.9	7282.8	7076.0	7033.9	7280.4	7664.6	8047.7	8281.9	8306.8
42.5°	8798.3	8687.8	8502.4	8181.3	7992.7	7879.8	8177.4	8525.5	8911.9	9122.9	9139.4
45°	9575.8	9554.4	9405.4	9172.7	9017.4	8917.5	9129.9	9475.5	9745.5	9879.0	9927.8
47.5°	10327.4	10314.1	10266.4	10185.1	10223.6	10057.5	10159.5	10316.2	10464.5	10562.6	10600.5
50°	10986.1	11000.1	11093.7	11232.2	11511.2	11343.0	11311.1	11142.4	11146.7	11154.4	11193.6
52.5°	11530.2	11604.5	11840.1	12257.9	12860.5	12856.7	12373.9	11928.7	11727.5	11638.1	11646.2
55°	12004.5	12131.7	12520.8	13383.6	14245.9	14289.0	13632.4	12646.3	12269.1	12078.4	12103.3
57.5°	12266.3	12460.2	13118.9	14428.6	15657.6	15709.5	14978.2	13441.0	12577.3	12094.6	12115.2
60°	11367.5	11693.9	12908.2	15102.7	16737.3	16761.2	15801.0	13503.4	11624.5	10770.2	10645.0
62.5°	9302.4	9754.6	11467.8	14580.4	16237.1	16163.1	15286.0	12334.3	9549.2	8512.9	8407.8
65°	6987.6	7412.9	9206.7	12484.4	14247.0	14149.5	13256.3	9748.3	7001.0	5900.9	5771.6
67.5°	3781.8	4424.0	6102.5	9536.5	11357.3	11687.9	10450.4	6794.5	4074.2	2953.8	2840.2
70°	1306.2	1687.9	3111.5	5986.5	8191.8	8523.4	7126.5	3644.0	1782.9	1114.8	1000.8
72.5°	463.8	534.6	1169.8	2891.0	4663.8	5167.6	3845.3	1465.7	568.3	414.0	405.6
75°	327.4	337.9	415.8	942.6	2019.2	2473.2	1516.2	486.6	354.4	331.3	329.2
77.5°	292.4	298.3	336.9	383.9	617.0	789.8	466.6	353.0	307.8	294.8	290.3
80°	278.0	282.5	293.8	314.8	349.9	363.9	314.8	301.8	280.1	274.5	272.7
82.5°	242.9	241.9	245.0	253.8	269.6	273.1	252.8	236.6	237.0	230.3	227.2
85°	164.4	174.2	166.9	157.8	195.6	196.7	183.3	137.4	156.0	152.8	139.9
87.5°	49.8	56.1	44.5	30.8	42.4	33.0	29.8	30.8	29.4	25.6	23.1
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)