

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: P510733

Luminaire Tested: **CST-CA8-230-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510733
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-CA8-230-740-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38203 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

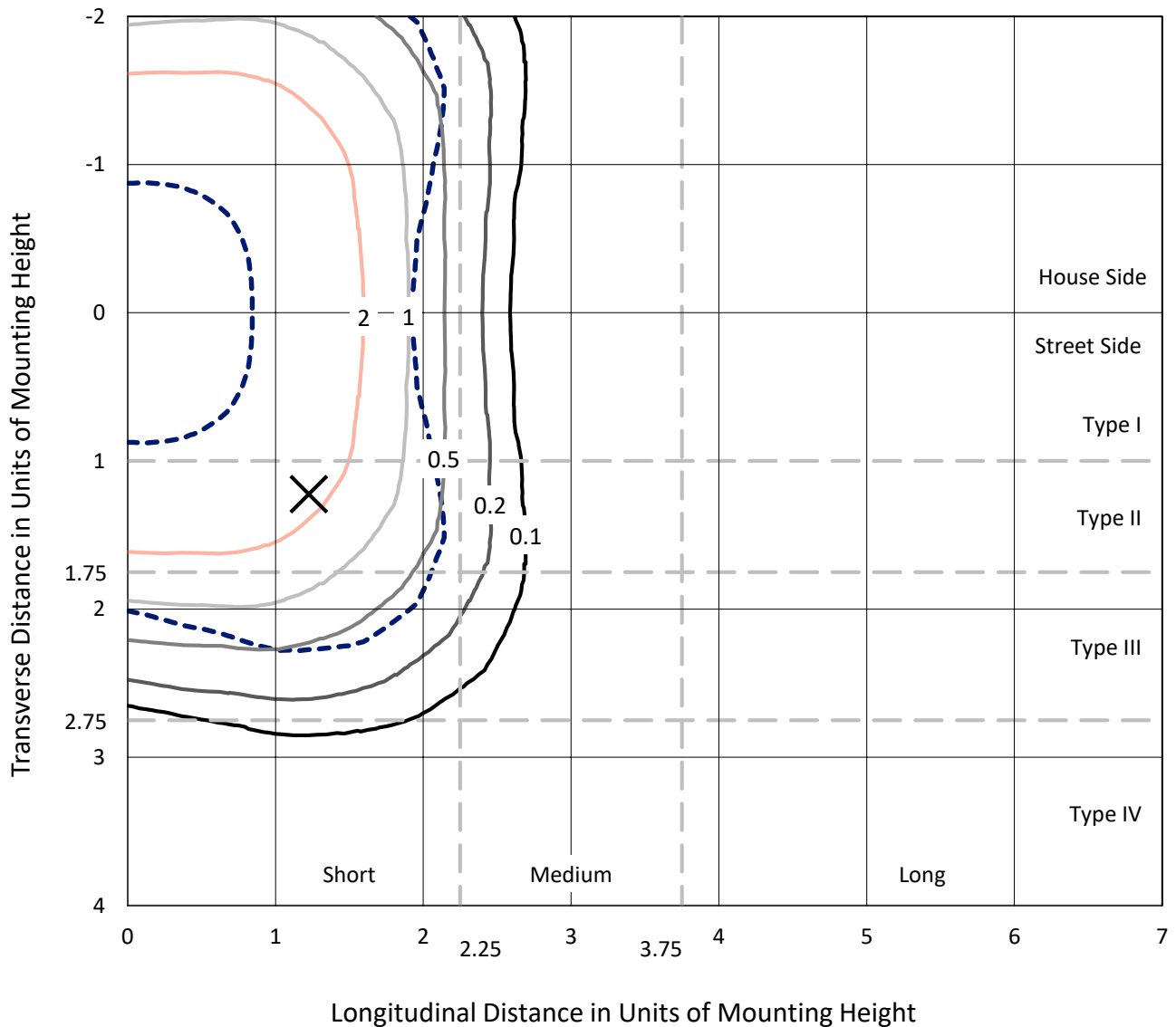
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

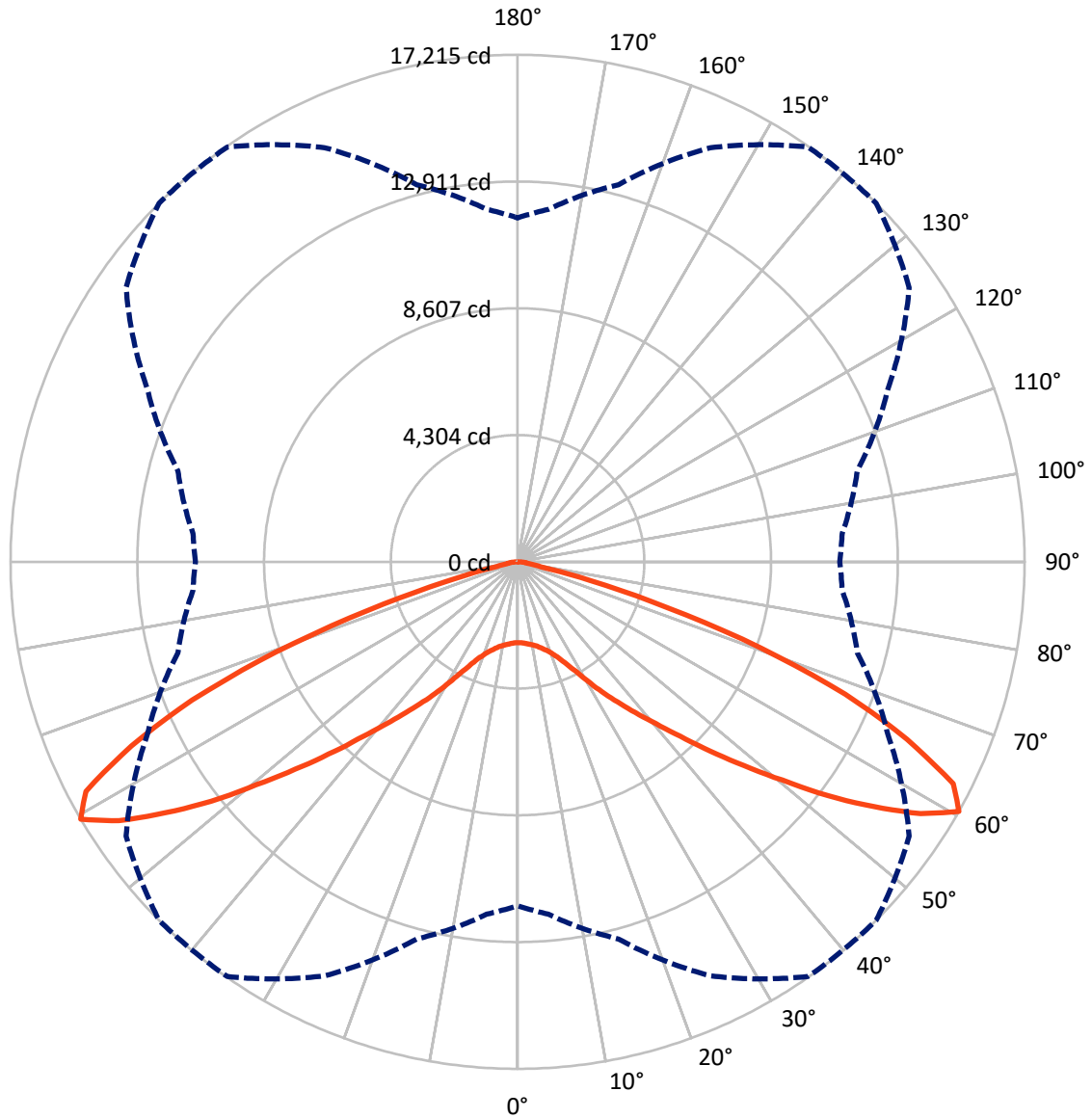
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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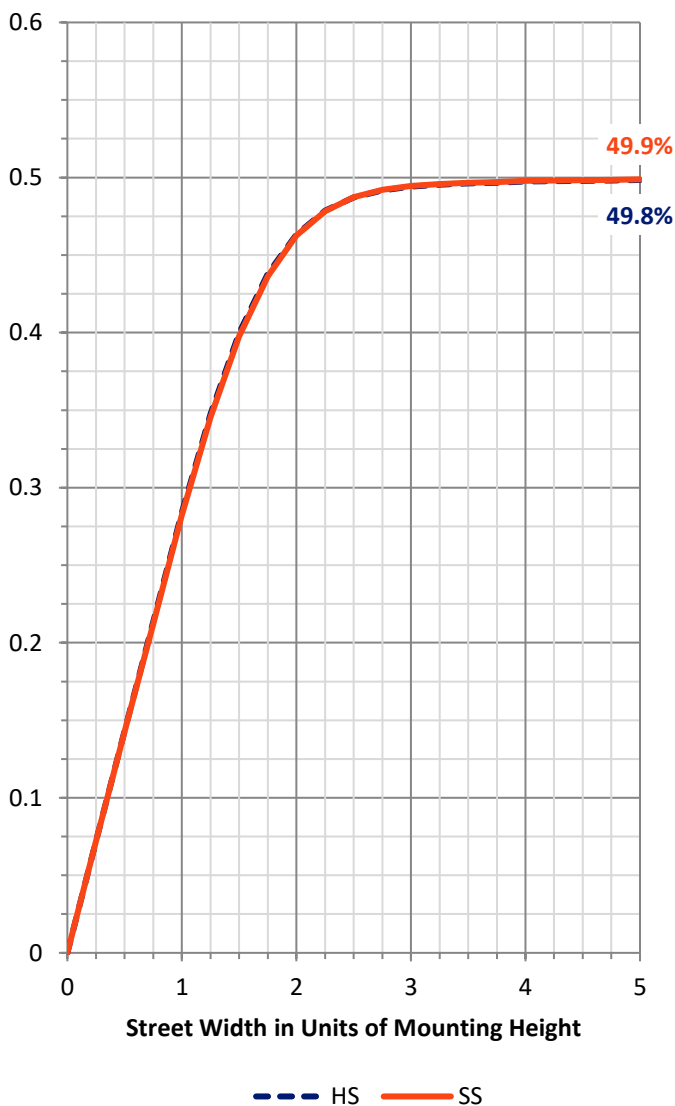
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19101.5	0.0	19101.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19101.5	0.0	19101.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38203.0	0.0	38203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	0.7
10°-20°	875.2	2.3
20°-30°	1858.8	4.9
30°-40°	3941.2	10.3
40°-50°	7495.1	19.6
50°-60°	11890.6	31.1
60°-70°	10050.7	26.3
70°-80°	1653.5	4.3
80°-90°	169.5	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°	38203.0	100.0
0°-180°	38203.0	100.0

Coefficient of Utilization



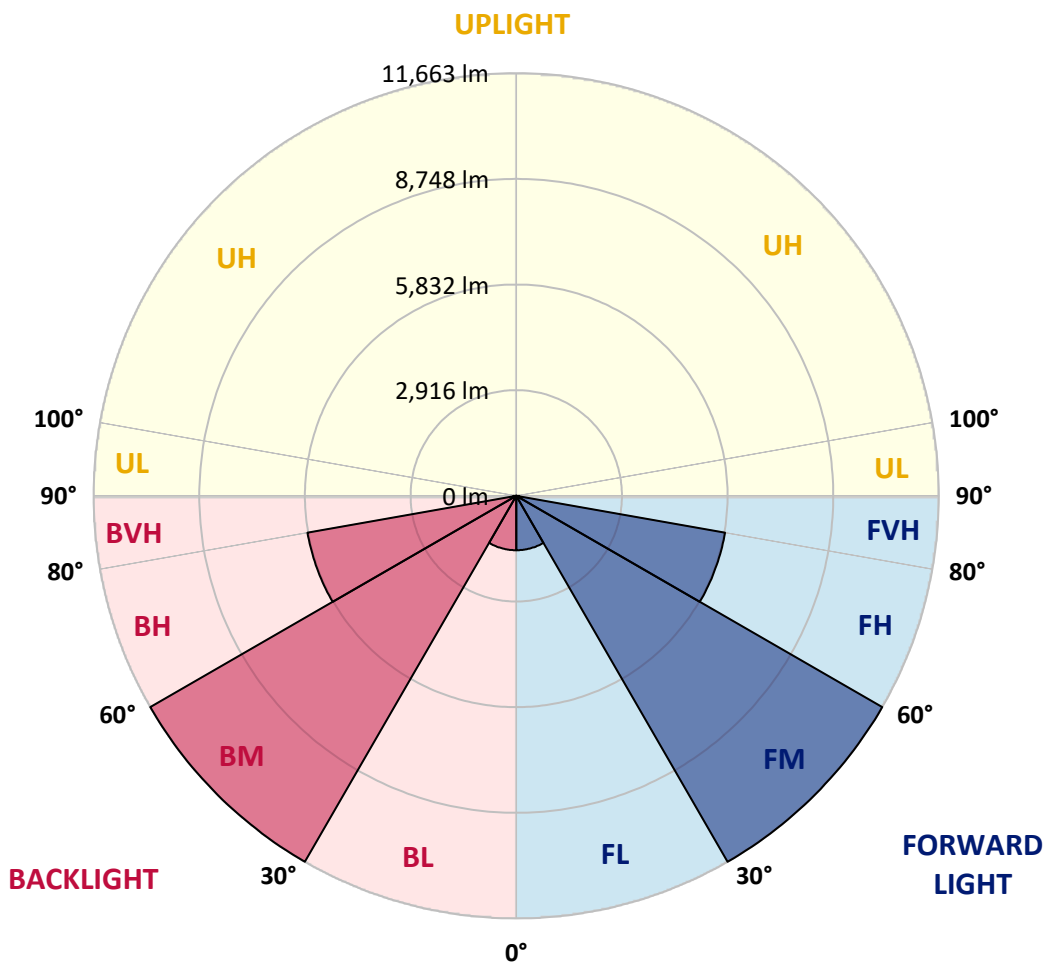
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.2	3.9			
FM (30°-60°)	11663.4	30.5			
FH (60°-80°)	5852.1	15.3			G3/7500
FVH (80°-90°)	84.8	0.2			G1/100
BL (0°-30°)	1501.2	3.9	B3/2500		
BM (30°-60°)	11663.4	30.5	B5		
BH (60°-80°)	5852.1	15.3	B5		G3/7500
BVH (80°-90°)	84.8	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°	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8	2742.8
2.5°	2762.6	2755.8	2753.6	2750.8	2752.2	2752.9	2756.9	2757.2	2757.2	2760.8	2767.0
5°	2793.6	2784.6	2781.4	2777.8	2779.6	2781.4	2785.0	2787.1	2786.8	2788.9	2794.3
7.5°	2827.1	2823.9	2819.9	2817.7	2817.7	2822.8	2820.3	2824.2	2823.9	2826.4	2829.6
10°	2876.8	2869.6	2869.2	2865.3	2867.1	2871.4	2872.1	2871.4	2872.1	2873.5	2881.1
12.5°	2939.8	2938.0	2939.1	2935.8	2934.7	2939.4	2940.5	2945.2	2946.6	2950.9	2955.6
15°	3041.3	3029.8	3028.4	3028.0	3030.2	3037.4	3039.5	3048.2	3052.1	3058.2	3068.7
17.5°	3156.2	3160.1	3152.9	3152.2	3151.9	3157.6	3163.4	3182.5	3188.6	3202.6	3211.6
20°	3339.4	3332.2	3327.9	3310.6	3306.3	3316.4	3337.3	3362.5	3374.4	3396.7	3413.6
22.5°	3584.3	3572.0	3542.5	3522.0	3513.3	3530.6	3553.3	3593.6	3641.5	3669.2	3676.8
25°	3938.2	3890.0	3853.2	3816.9	3803.9	3829.5	3866.2	3930.3	3990.4	4045.9	4071.4
27.5°	4369.2	4338.6	4265.5	4208.2	4185.5	4207.2	4283.5	4373.9	4484.0	4541.6	4550.3
30°	4916.4	4900.6	4807.4	4700.1	4659.7	4697.2	4787.2	4910.3	5063.7	5182.2	5203.0
32.5°	5594.1	5513.8	5384.1	5261.4	5218.2	5263.9	5354.3	5531.0	5737.7	5868.8	5913.4
35°	6371.0	6280.3	6085.5	5896.9	5841.0	5846.8	5991.5	6240.7	6523.3	6706.2	6756.3
37.5°	7227.9	7135.4	6905.7	6613.0	6483.7	6493.5	6682.8	7006.9	7394.3	7593.8	7660.0
40°	8142.5	8046.7	7809.8	7480.0	7267.6	7224.3	7477.5	7872.1	8265.6	8506.1	8531.7
42.5°	9036.5	8923.1	8732.6	8402.8	8209.1	8093.1	8398.8	8756.3	9153.1	9369.9	9386.8
45°	9835.1	9813.1	9660.1	9421.0	9261.5	9158.9	9377.1	9732.1	10009.3	10146.5	10196.5
47.5°	10607.0	10593.3	10544.3	10460.8	10500.4	10329.8	10434.5	10595.5	10747.8	10848.6	10887.5
50°	11283.5	11297.9	11394.1	11536.3	11822.9	11650.0	11617.3	11444.1	11448.4	11456.3	11496.7
52.5°	11842.3	11918.6	12160.6	12589.8	13208.7	13204.7	12708.9	12251.7	12045.0	11953.2	11961.5
55°	12329.5	12460.2	12859.8	13745.9	14631.6	14675.9	14001.5	12988.7	12601.3	12405.4	12431.0
57.5°	12598.4	12797.5	13474.0	14819.2	16081.5	16134.8	15383.7	13804.9	12917.8	12422.0	12443.2
60°	11675.3	12010.5	13257.7	15511.6	17190.5	17214.9	16228.8	13869.0	11939.2	11061.7	10933.2
62.5°	9554.2	10018.7	11778.2	14975.1	16676.7	16600.7	15699.9	12668.3	9807.7	8743.4	8635.4
65°	7176.8	7613.6	9455.9	12822.4	14632.7	14532.6	13615.2	10012.2	7190.5	6060.7	5927.8
67.5°	3884.2	4543.8	6267.7	9794.7	11664.8	12004.3	10733.4	6978.4	4184.5	3033.8	2917.1
70°	1341.5	1733.6	3195.8	6148.5	8413.6	8754.2	7319.4	3742.7	1831.2	1145.0	1027.9
72.5°	476.3	549.1	1201.5	2969.3	4790.1	5307.5	3949.4	1505.4	583.6	425.2	416.6
75°	336.3	347.1	427.0	968.2	2073.9	2540.1	1557.2	499.7	364.0	340.2	338.1
77.5°	300.3	306.4	346.0	394.3	633.7	811.2	479.2	362.6	316.1	302.8	298.1
80°	285.5	290.2	301.7	323.3	359.3	373.7	323.3	310.0	287.7	281.9	280.1
82.5°	249.5	248.4	251.7	260.7	276.9	280.5	259.6	243.0	243.4	236.6	233.3
85°	168.9	178.9	171.4	162.0	200.9	202.0	188.3	141.1	160.2	157.0	143.7
87.5°	51.1	57.6	45.7	31.7	43.6	33.8	30.6	31.7	30.2	26.3	23.8
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)