

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: P510782

Luminaire Tested: **CST-CA8-330-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510782
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-CA8-330-730-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49582 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

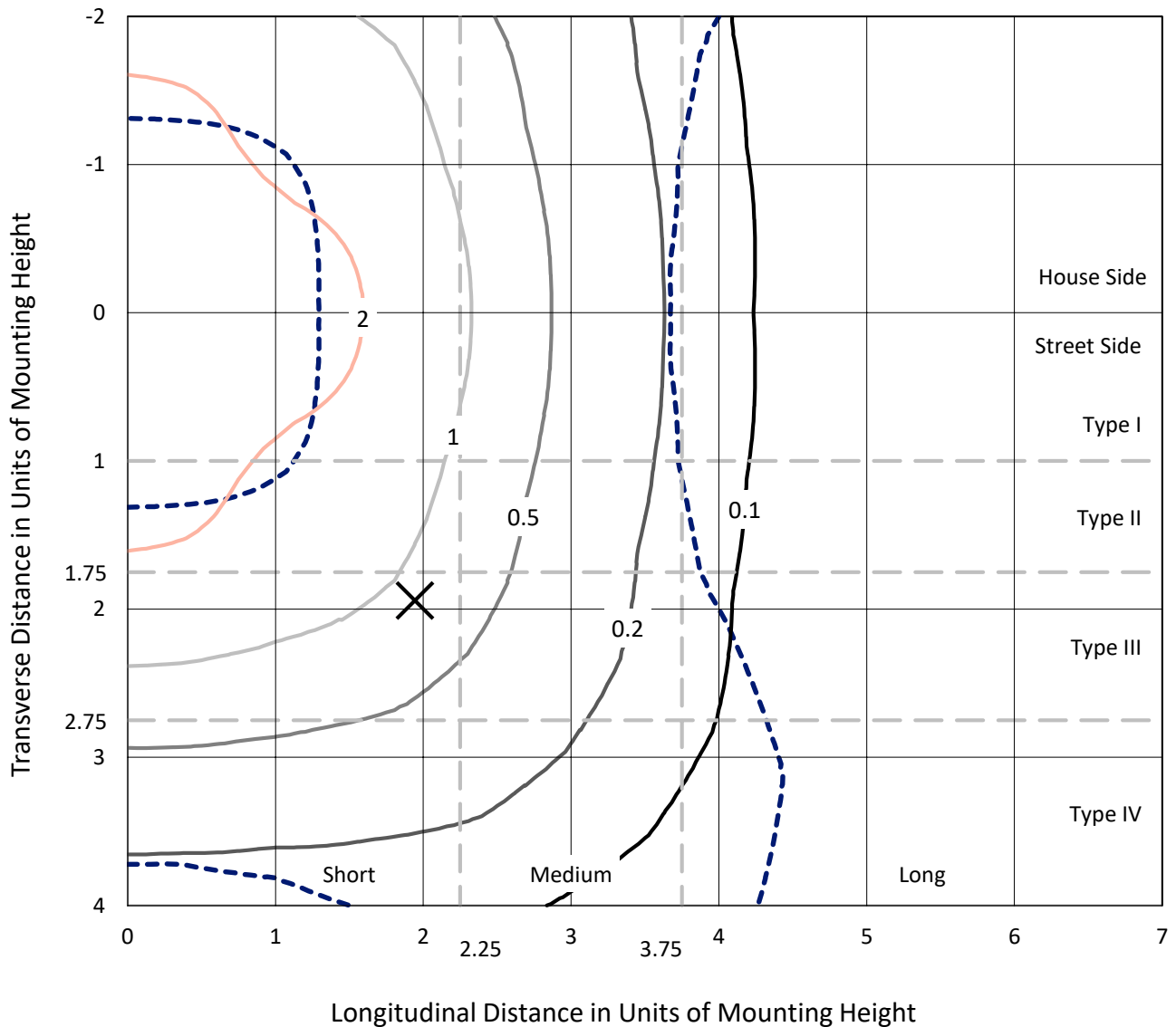
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

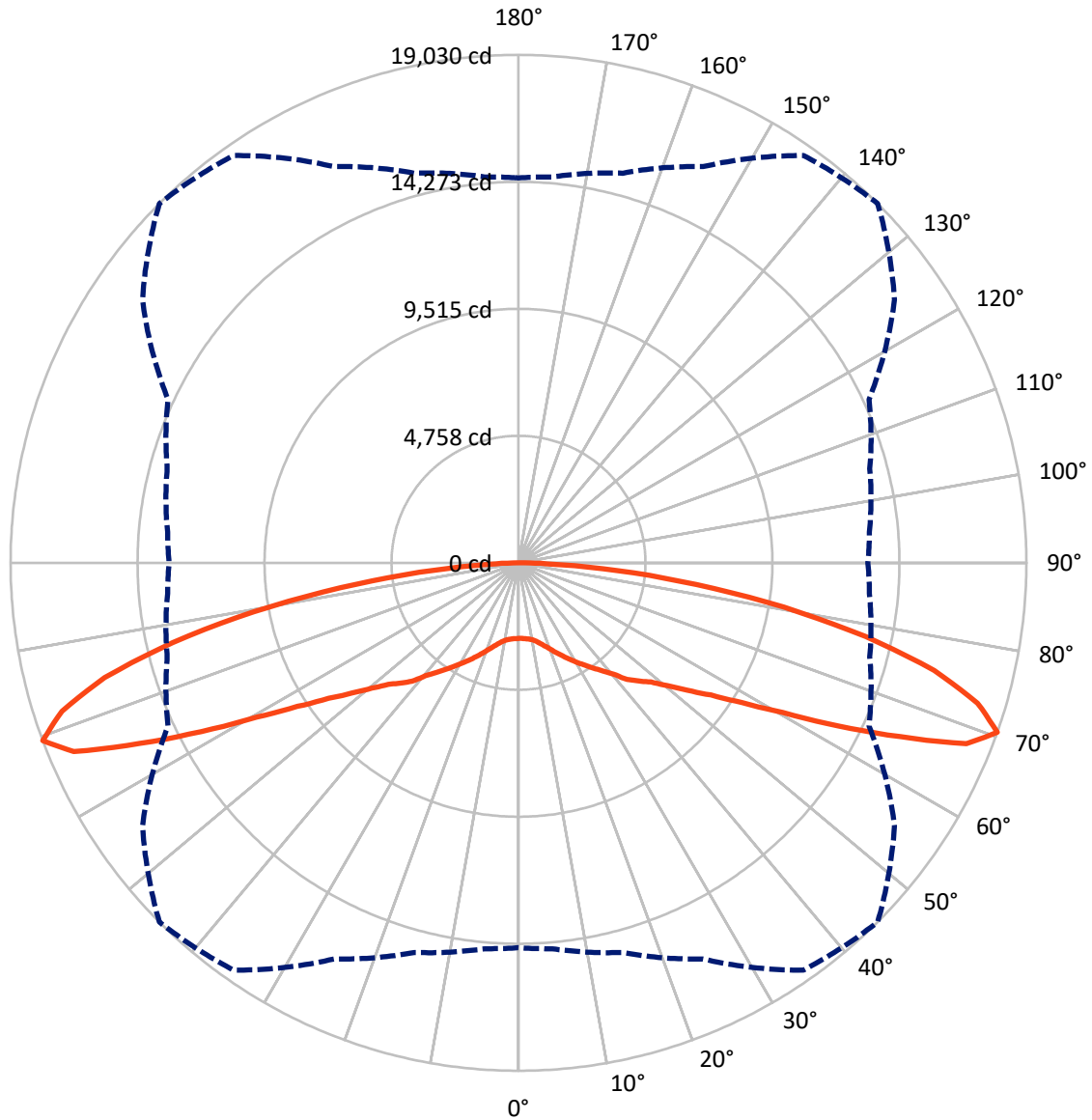
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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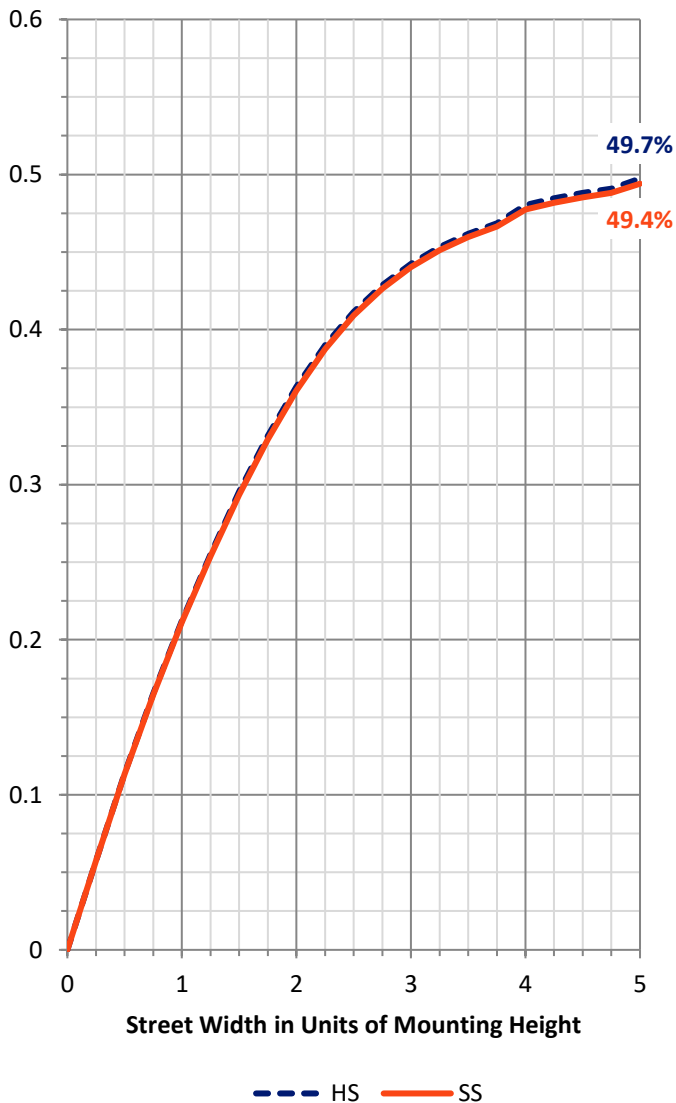
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24791.0	0.0	24791.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24791.0	0.0	24791.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49582.0	0.0	49582.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	0.6
10°-20°	897.1	1.8
20°-30°	1775.8	3.6
30°-40°	3072.0	6.2
40°-50°	5111.4	10.3
50°-60°	8915.1	18.0
60°-70°	14758.5	29.8
70°-80°	12368.8	24.9
80°-90°	2407.8	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°	49582.0	100.0
0°-180°	49582.0	100.0

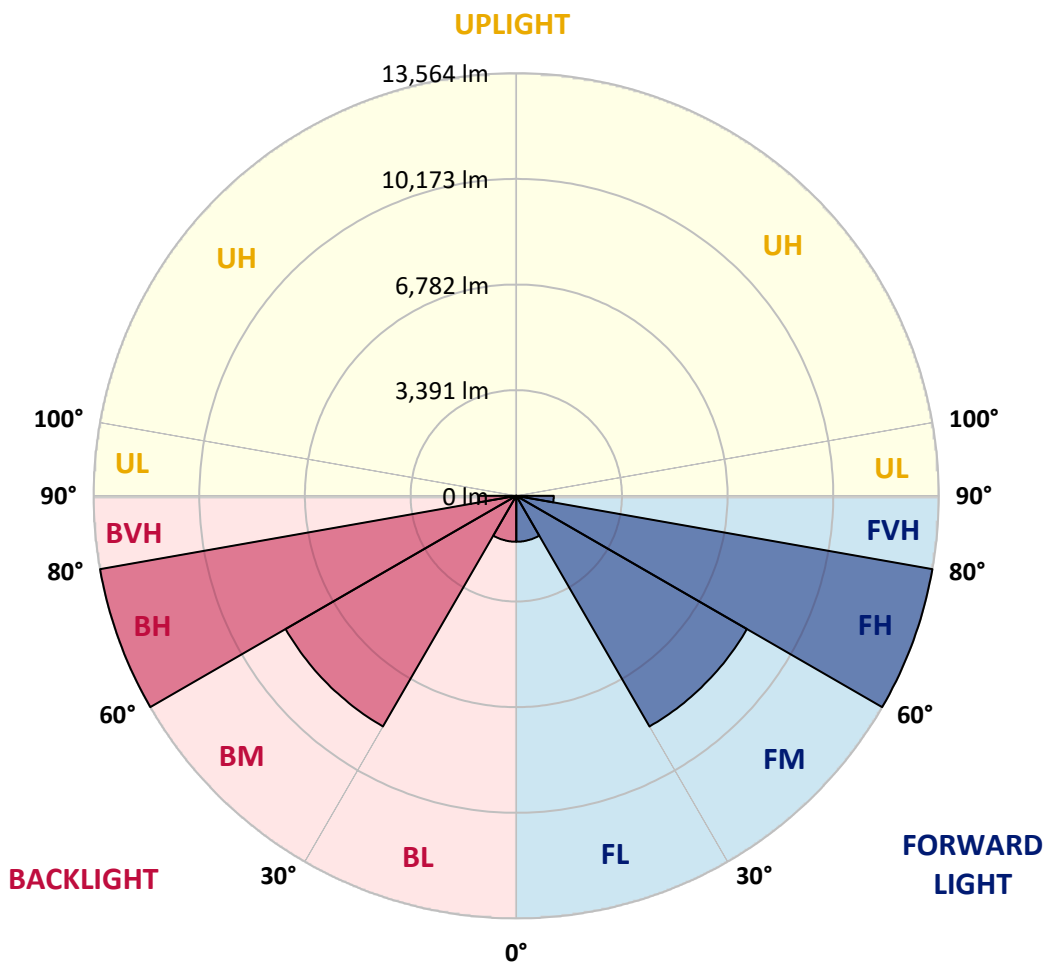


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.2	3.0			
FM (30°-60°)	8549.3	17.2			
FH (60°-80°)	13563.7	27.4			G5
FVH (80°-90°)	1203.9	2.4			G5
BL (0°-30°)	1474.2	3.0	B3/2500		
BM (30°-60°)	8549.3	17.2	B5		
BH (60°-80°)	13563.7	27.4	B5		G5
BVH (80°-90°)	1203.9	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°	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8	2833.8
2.5°	2851.4	2842.6	2839.7	2836.7	2838.7	2837.7	2842.6	2844.6	2846.5	2855.4	2850.5
5°	2869.1	2862.2	2861.3	2857.3	2856.4	2856.4	2863.2	2864.2	2865.2	2871.1	2865.2
7.5°	2901.5	2894.6	2892.7	2890.7	2889.7	2885.8	2890.7	2888.8	2890.7	2893.7	2886.8
10°	2952.6	2944.7	2942.8	2937.9	2940.8	2934.9	2938.8	2933.9	2925.1	2927.0	2917.2
12.5°	3022.3	3015.4	3018.4	3017.4	3029.2	3026.2	3018.4	3008.5	2993.8	2984.0	2973.2
15°	3125.4	3114.6	3122.4	3130.3	3142.1	3147.0	3141.1	3114.6	3093.0	3077.3	3068.4
17.5°	3251.1	3233.4	3249.1	3264.8	3290.4	3295.3	3273.7	3241.3	3217.7	3210.8	3196.1
20°	3397.4	3394.4	3395.4	3420.9	3460.2	3467.1	3438.6	3400.3	3376.8	3377.7	3361.1
22.5°	3574.1	3558.4	3563.3	3588.9	3644.8	3663.5	3616.3	3574.1	3559.4	3563.3	3561.4
25°	3776.4	3761.7	3754.8	3766.6	3839.2	3871.6	3826.5	3777.4	3770.5	3779.3	3765.6
27.5°	3998.3	3984.6	3976.7	3982.6	4039.5	4100.4	4050.3	4009.1	4008.1	4020.9	4013.0
30°	4250.7	4230.0	4221.2	4228.1	4267.3	4326.3	4286.0	4261.5	4282.1	4290.9	4288.0
32.5°	4505.9	4496.1	4493.2	4491.2	4539.3	4572.7	4553.1	4558.0	4574.7	4614.9	4602.2
35°	4796.6	4768.1	4776.0	4781.9	4844.7	4847.6	4849.6	4858.5	4902.6	4959.6	4926.2
37.5°	5099.0	5092.1	5097.1	5080.4	5126.5	5145.2	5172.7	5202.1	5271.8	5337.6	5323.9
40°	5473.1	5460.4	5465.3	5445.6	5468.2	5482.9	5538.9	5602.7	5692.1	5762.8	5730.4
42.5°	5969.0	5936.6	5936.6	5942.5	5989.6	5973.9	6093.7	6111.4	6222.3	6282.2	6263.6
45°	6552.2	6540.4	6478.6	6374.5	6315.6	6314.6	6410.8	6554.2	6737.8	6862.5	6861.5
47.5°	7293.6	7257.2	7109.0	6858.6	6709.3	6673.0	6774.1	7053.0	7390.8	7585.2	7582.2
50°	8265.7	8219.5	7994.6	7605.8	7315.2	7225.8	7387.8	7749.2	8203.8	8463.0	8484.6
52.5°	9353.6	9357.5	9103.2	8515.1	8085.0	7923.9	8095.8	8612.3	9178.8	9534.3	9576.5
55°	10617.3	10586.9	10346.3	9679.6	9087.5	8741.9	9002.1	9686.5	10337.5	10608.5	10683.1
57.5°	11933.1	11814.2	11629.6	11006.1	10313.9	9872.0	10184.3	10853.9	11477.5	11823.1	11811.3
60°	13099.6	13021.0	12915.0	12418.1	11886.9	11382.2	11622.8	12189.3	12723.5	12932.6	12941.5
62.5°	14374.1	14308.3	14213.0	13941.0	13648.4	13460.9	13242.9	13505.1	13922.4	14151.2	14225.8
65°	15625.0	15601.4	15656.4	15615.2	15738.9	15711.4	15189.0	15024.1	15031.0	14966.1	14932.8
67.5°	15551.4	15542.5	15866.6	16512.6	17745.9	18095.5	16755.2	15262.7	14590.1	14419.2	14394.7
70°	14417.3	14512.5	15112.5	16377.1	18627.7	19030.2	17195.1	14486.0	13625.9	13197.7	13091.7
72.5°	12235.5	12422.0	13342.1	15204.8	17895.2	17987.5	16089.4	13317.5	12050.9	11540.3	11464.7
75°	9441.0	9464.6	10406.2	12773.6	15970.6	16086.5	14352.5	11170.1	9924.1	9288.8	9269.2
77.5°	5750.0	6084.8	7458.5	9577.5	12696.0	13298.9	12003.8	8897.0	7415.3	6852.7	6538.5
80°	2821.0	2974.2	3963.9	6055.4	9074.7	10085.1	8907.8	6153.6	4573.7	3859.9	3781.3
82.5°	1284.3	1365.8	1875.4	3165.7	5476.1	6728.0	5497.7	3524.0	2442.0	1909.8	1892.1
85°	498.8	495.9	759.0	1328.5	2621.7	3725.3	2783.7	1681.0	1117.4	830.7	783.6
87.5°	145.3	155.1	222.9	436.0	776.7	1046.7	858.2	581.3	343.7	220.9	203.3
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)