

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: P510692

Luminaire Tested: **CST-CA6-230-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510692
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-CA6-230-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35428 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

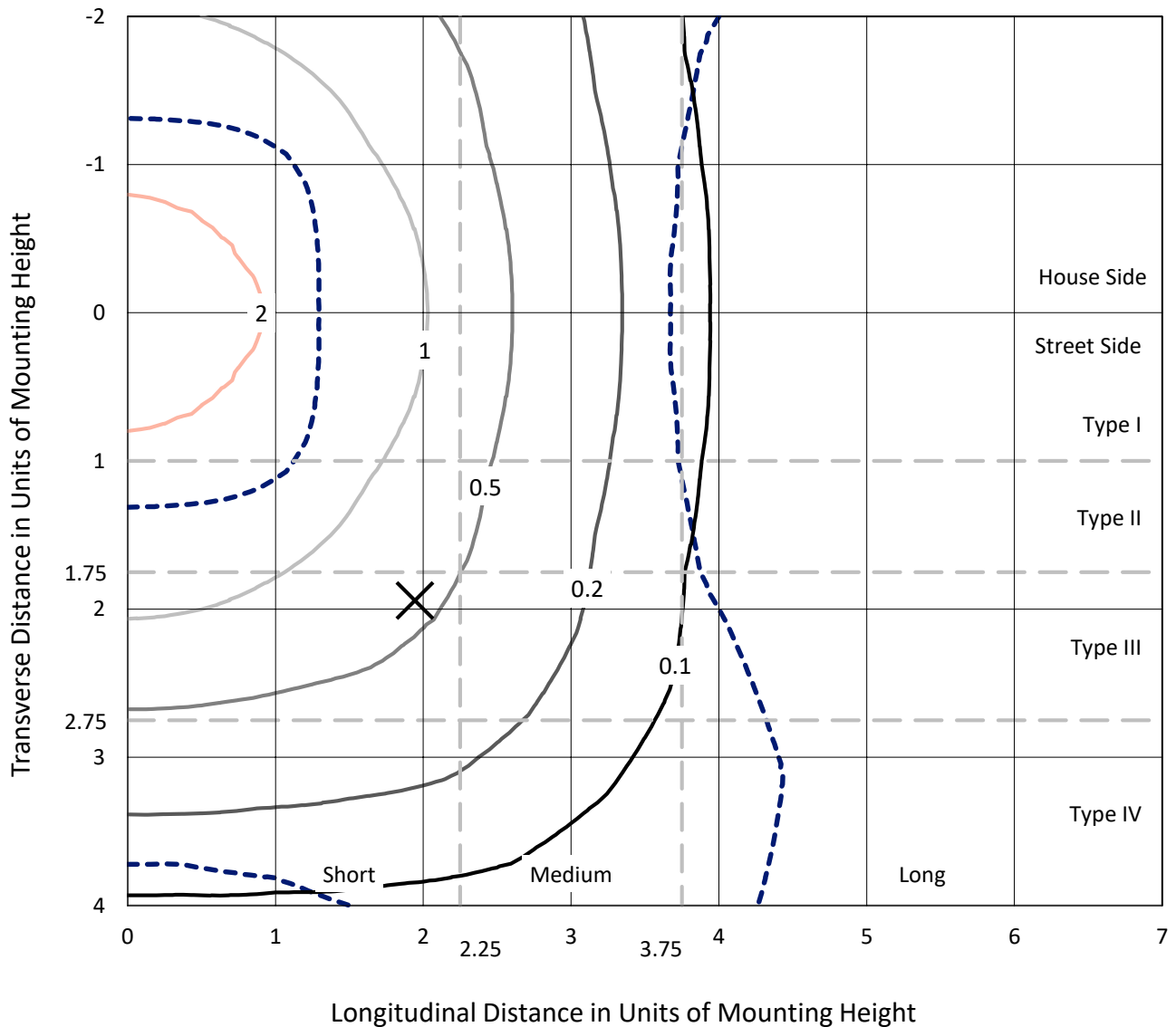
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

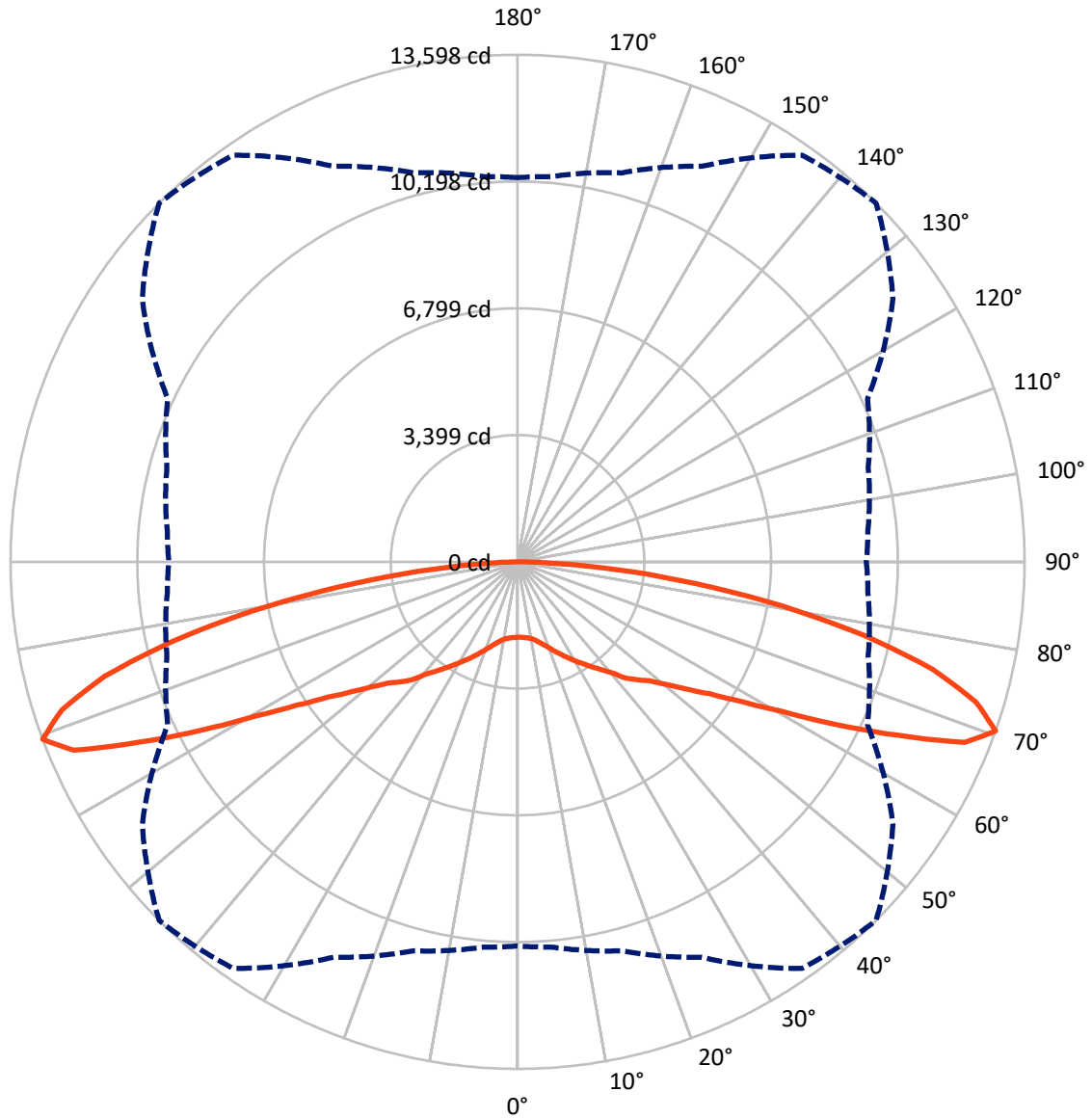
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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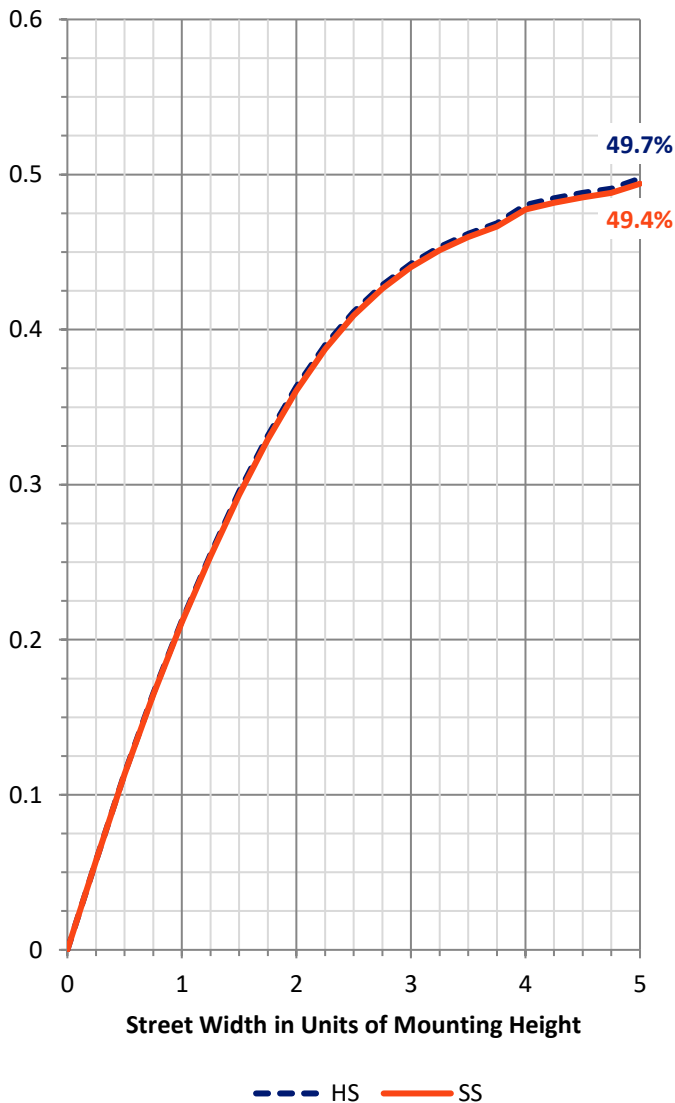
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17714.0	0.0	17714.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17714.0	0.0	17714.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35428.0	0.0	35428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	0.6
10°-20°	641.0	1.8
20°-30°	1268.9	3.6
30°-40°	2195.1	6.2
40°-50°	3652.3	10.3
50°-60°	6370.1	18.0
60°-70°	10545.5	29.8
70°-80°	8837.9	24.9
80°-90°	1720.5	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°	35428.0	100.0
0°-180°	35428.0	100.0

Coefficient of Utilization

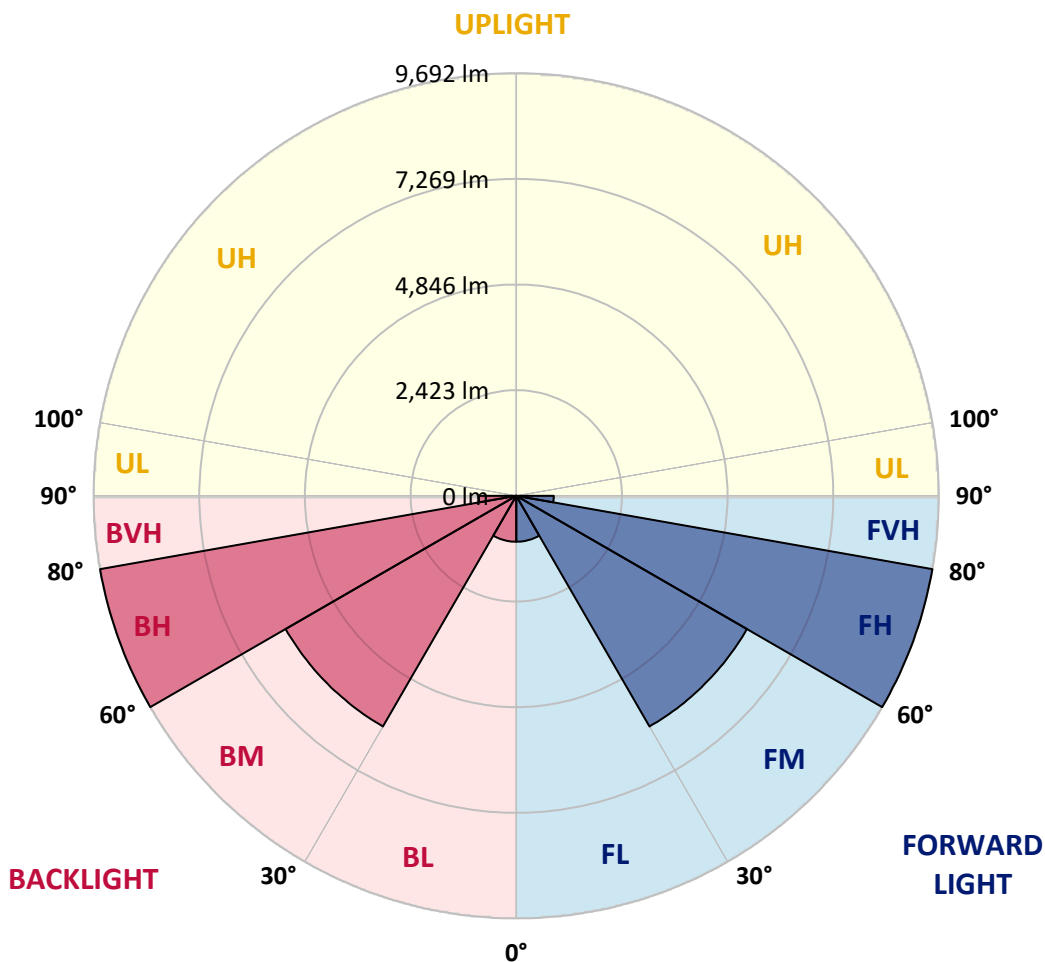


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.3	3.0			
FM (30°-60°)	6108.7	17.2			
FH (60°-80°)	9691.7	27.4			G4/12000
FVH (80°-90°)	860.2	2.4			G5
BL (0°-30°)	1053.3	3.0	B3/2500		
BM (30°-60°)	6108.7	17.2	B4/8500		
BH (60°-80°)	9691.7	27.4	B5		G4/12000
BVH (80°-90°)	860.2	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°	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8	2024.8
2.5°	2037.5	2031.1	2029.0	2026.9	2028.3	2027.6	2031.1	2032.5	2033.9	2040.3	2036.8
5°	2050.1	2045.2	2044.5	2041.7	2041.0	2041.0	2045.9	2046.6	2047.3	2051.5	2047.3
7.5°	2073.2	2068.3	2066.9	2065.5	2064.8	2062.0	2065.5	2064.1	2065.5	2067.6	2062.7
10°	2109.7	2104.1	2102.7	2099.2	2101.3	2097.1	2099.9	2096.4	2090.1	2091.5	2084.5
12.5°	2159.5	2154.6	2156.7	2156.0	2164.4	2162.3	2156.7	2149.7	2139.2	2132.2	2124.5
15°	2233.2	2225.5	2231.1	2236.7	2245.1	2248.6	2244.4	2225.5	2210.0	2198.8	2192.5
17.5°	2323.0	2310.4	2321.6	2332.8	2351.1	2354.6	2339.1	2316.0	2299.1	2294.2	2283.7
20°	2427.5	2425.4	2426.1	2444.4	2472.4	2477.4	2457.0	2429.6	2412.8	2413.5	2401.6
22.5°	2553.8	2542.6	2546.1	2564.4	2604.3	2617.7	2584.0	2553.8	2543.3	2546.1	2544.7
25°	2698.4	2687.8	2682.9	2691.3	2743.3	2766.4	2734.1	2699.1	2694.2	2700.5	2690.6
27.5°	2856.9	2847.1	2841.5	2845.7	2886.4	2929.9	2894.1	2864.6	2863.9	2873.1	2867.4
30°	3037.2	3022.5	3016.2	3021.1	3049.2	3091.3	3062.5	3045.0	3059.7	3066.0	3063.9
32.5°	3219.7	3212.6	3210.5	3209.1	3243.5	3267.4	3253.3	3256.8	3268.8	3297.5	3288.4
35°	3427.3	3407.0	3412.6	3416.8	3461.7	3463.8	3465.2	3471.5	3503.1	3543.8	3519.9
37.5°	3643.4	3638.5	3642.0	3630.1	3663.1	3676.4	3696.0	3717.1	3766.9	3813.9	3804.1
40°	3910.7	3901.6	3905.1	3891.1	3907.2	3917.7	3957.7	4003.3	4067.2	4117.7	4094.5
42.5°	4265.0	4241.9	4241.9	4246.1	4279.8	4268.5	4354.1	4366.8	4446.1	4488.8	4475.5
45°	4681.8	4673.4	4629.2	4554.8	4512.7	4512.0	4580.8	4683.2	4814.4	4903.5	4902.8
47.5°	5211.5	5185.5	5079.6	4900.7	4794.0	4768.1	4840.4	5039.6	5281.0	5419.9	5417.8
50°	5906.1	5873.1	5712.4	5434.6	5226.9	5163.1	5278.9	5537.0	5861.9	6047.1	6062.5
52.5°	6683.5	6686.3	6504.6	6084.3	5777.0	5661.9	5784.7	6153.7	6558.6	6812.6	6842.7
55°	7586.4	7564.7	7392.8	6916.4	6493.3	6246.4	6432.3	6921.3	7386.5	7580.1	7633.4
57.5°	8526.6	8441.7	8309.8	7864.3	7369.6	7053.9	7277.0	7755.5	8201.0	8448.0	8439.6
60°	9360.1	9303.9	9228.2	8873.2	8493.6	8133.0	8304.9	8709.7	9091.4	9240.8	9247.1
62.5°	10270.7	10223.7	10155.7	9961.3	9752.3	9618.3	9462.5	9649.8	9948.0	10111.5	10164.8
65°	11164.6	11147.8	11187.0	11157.6	11246.0	11226.3	10853.1	10735.2	10740.1	10693.8	10670.0
67.5°	11112.0	11105.7	11337.2	11798.8	12680.0	12929.8	11972.1	10905.7	10425.1	10303.0	10285.5
70°	10301.6	10369.7	10798.4	11702.0	13310.1	13597.7	12286.5	10350.7	9736.1	9430.2	9354.5
72.5°	8742.7	8876.0	9533.4	10864.3	12786.7	12852.6	11496.4	9515.8	8610.8	8245.9	8191.9
75°	6745.9	6762.7	7435.6	9127.1	11411.6	11494.3	10255.3	7981.4	7091.1	6637.2	6623.1
77.5°	4108.6	4347.8	5329.4	6843.4	9071.7	9502.5	8577.1	6357.2	5298.5	4896.5	4672.0
80°	2015.7	2125.2	2832.4	4326.8	6484.2	7206.2	6364.9	4396.9	3268.1	2758.0	2701.9
82.5°	917.7	975.9	1340.1	2262.0	3912.8	4807.4	3928.3	2518.0	1744.9	1364.6	1352.0
85°	356.4	354.3	542.3	949.3	1873.3	2661.9	1989.0	1201.1	798.4	593.6	559.9
87.5°	103.8	110.9	159.3	311.5	555.0	747.9	613.2	415.3	245.6	157.9	145.2
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)