

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: P510653

Luminaire Tested: **CST-CA6-230-727-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510653  
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-CA6-230-727-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31095 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

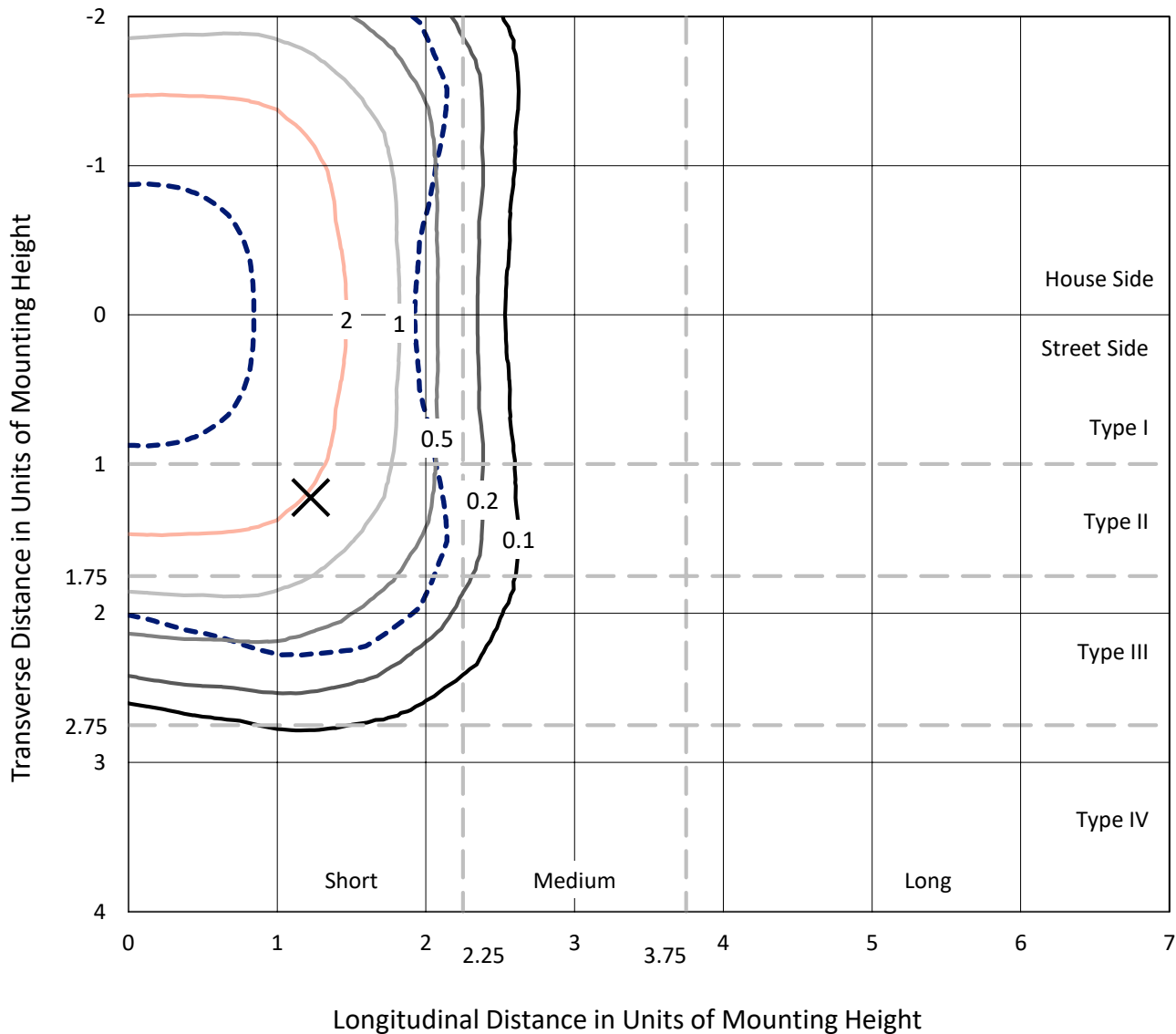
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

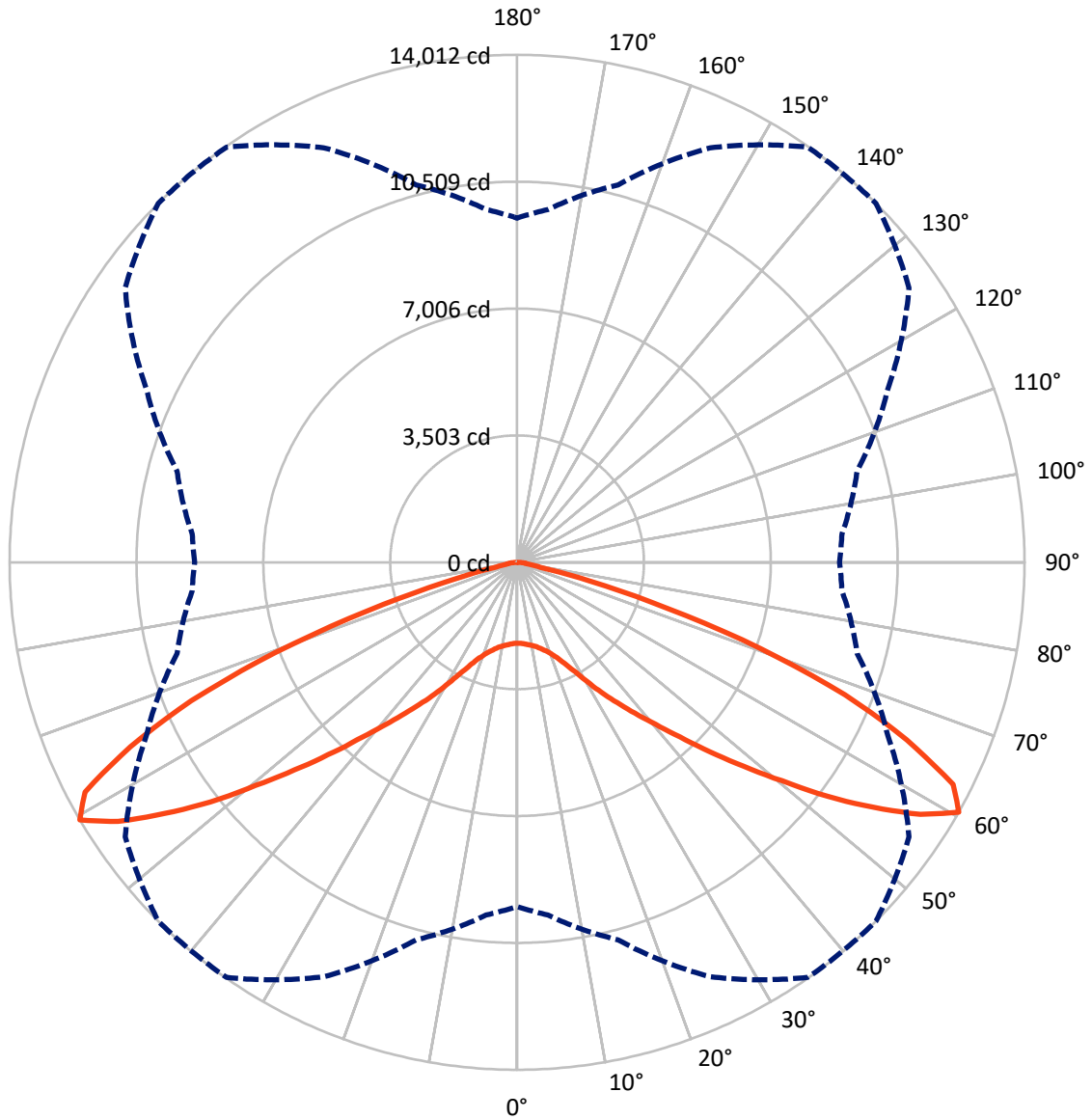
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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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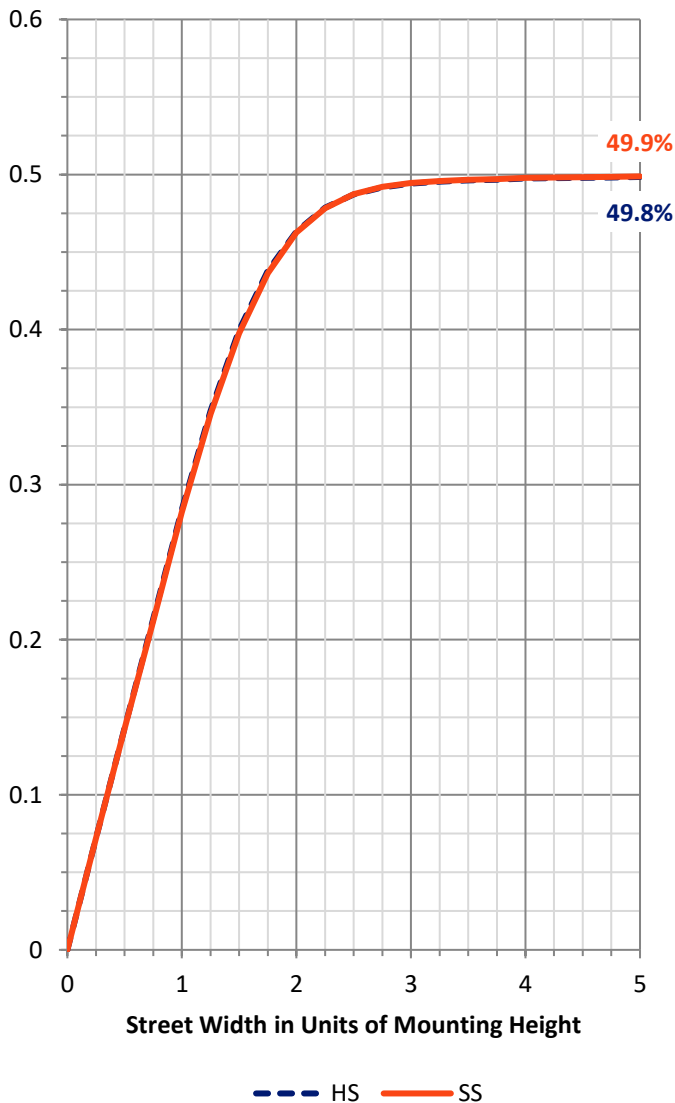
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15547.5	0.0	15547.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15547.5	0.0	15547.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31095.0	0.0	31095.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	0.7
10°-20°	712.3	2.3
20°-30°	1512.9	4.9
30°-40°	3207.9	10.3
40°-50°	6100.6	19.6
50°-60°	9678.2	31.1
60°-70°	8180.7	26.3
70°-80°	1345.9	4.3
80°-90°	138.0	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°	31095.0	100.0
0°-180°	31095.0	100.0



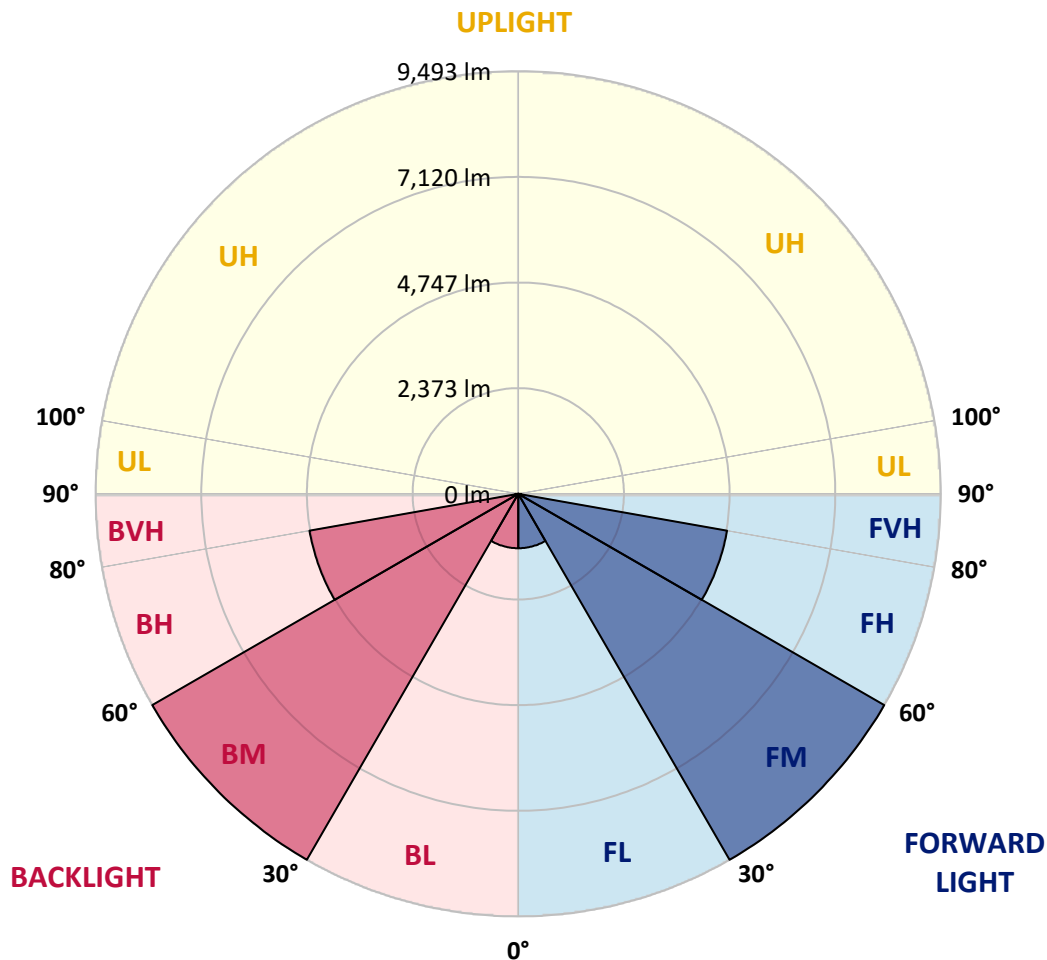
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.9	3.9			
FM (30°-60°)	9493.4	30.5			
FH (60°-80°)	4763.3	15.3			G2/5000
FVH (80°-90°)	69.0	0.2			G1/100
BL (0°-30°)	1221.9	3.9	B3/2500		
BM (30°-60°)	9493.4	30.5	B5		
BH (60°-80°)	4763.3	15.3	B4/5000		G2/5000
BVH (80°-90°)	69.0	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5
2.5°	2248.6	2243.1	2241.3	2239.0	2240.1	2240.7	2243.9	2244.2	2244.2	2247.2	2252.1
5°	2273.8	2266.5	2263.9	2260.9	2262.4	2263.9	2266.8	2268.6	2268.3	2270.0	2274.4
7.5°	2301.1	2298.4	2295.2	2293.5	2293.5	2297.6	2295.5	2298.7	2298.4	2300.5	2303.1
10°	2341.5	2335.7	2335.4	2332.2	2333.6	2337.1	2337.7	2337.1	2337.7	2338.9	2345.0
12.5°	2392.8	2391.3	2392.2	2389.6	2388.7	2392.5	2393.4	2397.2	2398.4	2401.9	2405.7
15°	2475.5	2466.1	2464.9	2464.6	2466.4	2472.2	2474.0	2481.0	2484.2	2489.2	2497.7
17.5°	2568.9	2572.2	2566.3	2565.7	2565.4	2570.1	2574.8	2590.3	2595.3	2606.7	2614.1
20°	2718.1	2712.2	2708.7	2694.7	2691.1	2699.4	2716.3	2736.9	2746.5	2764.7	2778.5
22.5°	2917.4	2907.4	2883.4	2866.7	2859.7	2873.7	2892.2	2925.0	2964.0	2986.5	2992.7
25°	3205.5	3166.2	3136.3	3106.7	3096.2	3117.0	3146.8	3199.0	3248.0	3293.1	3313.9
27.5°	3556.3	3531.3	3471.9	3425.3	3406.8	3424.4	3486.5	3560.1	3649.7	3696.6	3703.7
30°	4001.7	3988.8	3912.9	3825.6	3792.7	3823.2	3896.5	3996.7	4121.6	4218.0	4235.0
32.5°	4553.2	4487.9	4382.4	4282.4	4247.3	4284.5	4358.1	4501.9	4670.2	4776.8	4813.2
35°	5185.6	5111.8	4953.3	4799.7	4754.3	4759.0	4876.8	5079.6	5309.6	5458.5	5499.2
37.5°	5883.1	5807.8	5620.8	5382.6	5277.4	5285.3	5439.4	5703.2	6018.5	6180.9	6234.8
40°	6627.5	6549.5	6356.7	6088.3	5915.4	5880.2	6086.2	6407.4	6727.7	6923.5	6944.3
42.5°	7355.2	7262.8	7107.8	6839.4	6681.7	6587.3	6836.1	7127.2	7450.1	7626.5	7640.3
45°	8005.2	7987.3	7862.7	7668.1	7538.3	7454.8	7632.4	7921.3	8147.0	8258.6	8299.4
47.5°	8633.5	8622.3	8582.5	8514.5	8546.7	8407.8	8493.1	8624.1	8748.1	8830.1	8861.8
50°	9184.1	9195.8	9274.1	9389.8	9623.1	9482.5	9455.8	9314.8	9318.3	9324.8	9357.6
52.5°	9638.9	9701.1	9898.0	10247.3	10751.1	10747.9	10344.3	9972.2	9803.9	9729.2	9736.0
55°	10035.5	10141.8	10467.1	11188.3	11909.3	11945.3	11396.4	10572.0	10256.7	10097.3	10118.1
57.5°	10254.4	10416.4	10967.1	12061.9	13089.4	13132.8	12521.5	11236.4	10514.3	10110.8	10128.1
60°	9503.0	9775.8	10791.0	12625.5	13992.0	14011.9	13209.3	11288.6	9717.8	9003.6	8899.0
62.5°	7776.6	8154.6	9586.8	12188.8	13573.8	13512.0	12778.8	10311.2	7982.9	7116.6	7028.7
65°	5841.5	6197.0	7696.6	10436.7	11910.1	11828.7	11082.0	8149.3	5852.6	4933.0	4824.9
67.5°	3161.5	3698.4	5101.5	7972.3	9494.5	9770.8	8736.3	5680.0	3405.9	2469.3	2374.4
70°	1091.9	1411.1	2601.2	5004.5	6848.2	7125.4	5957.6	3046.3	1490.5	931.9	836.7
72.5°	387.7	446.9	977.9	2416.8	3898.8	4320.0	3214.5	1225.3	475.0	346.1	339.1
75°	273.7	282.5	347.6	788.0	1688.0	2067.5	1267.5	406.8	296.3	276.9	275.2
77.5°	244.4	249.4	281.6	320.9	515.8	660.3	390.1	295.1	257.3	246.5	242.7
80°	232.4	236.2	245.6	263.2	292.5	304.2	263.2	252.3	234.2	229.5	228.0
82.5°	203.1	202.2	204.8	212.2	225.4	228.3	211.3	197.8	198.1	192.5	189.9
85°	137.4	145.6	139.5	131.9	163.5	164.4	153.3	114.9	130.4	127.8	116.9
87.5°	41.6	46.9	37.2	25.8	35.5	27.5	24.9	25.8	24.6	21.4	19.3
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)