

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: P510683

Luminaire Tested: **CST-CA6-230-750-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510683  
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-CA6-230-750-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37394 lumens  
Efficiency: N/A  
Efficacy: 164.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

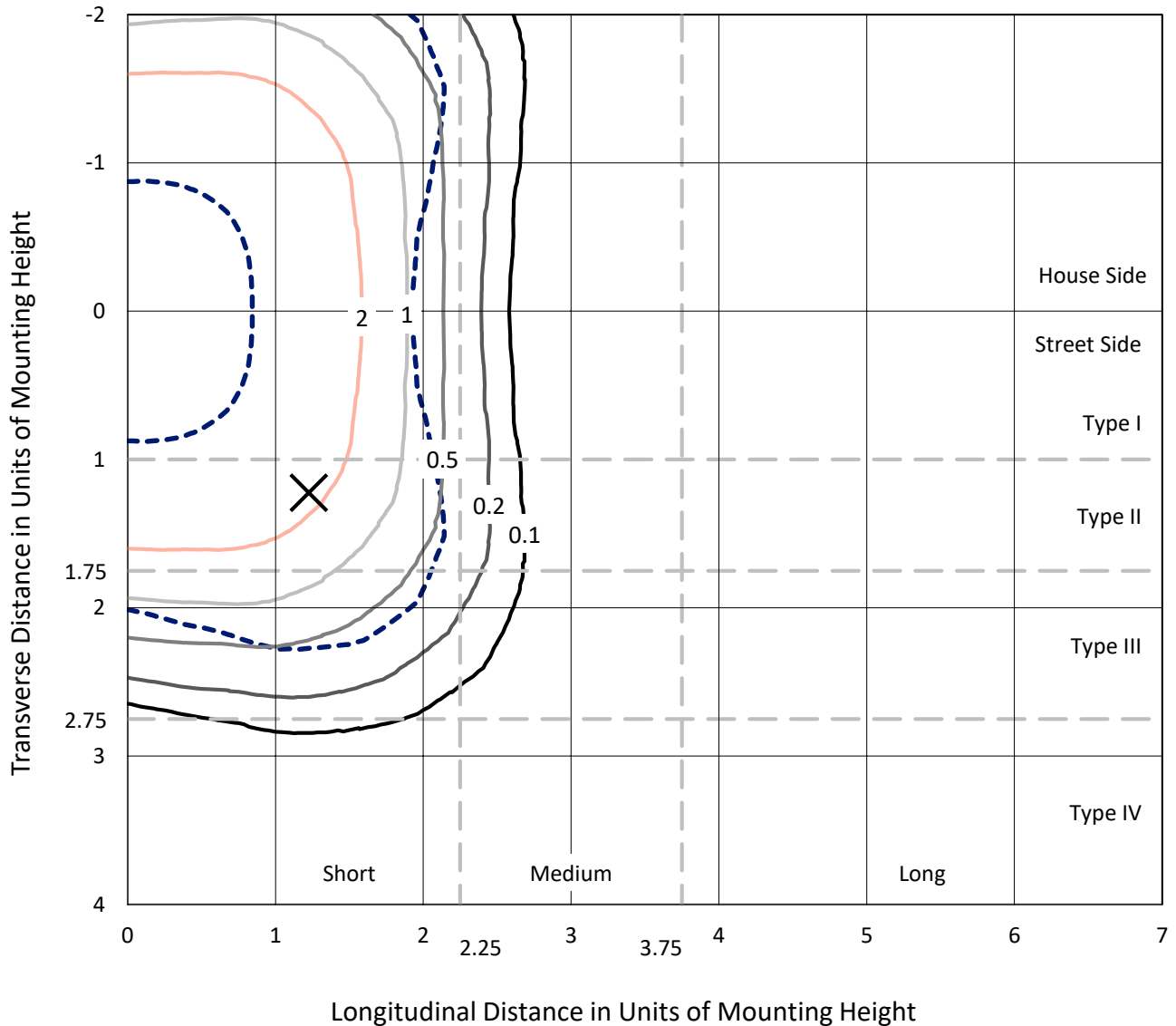
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

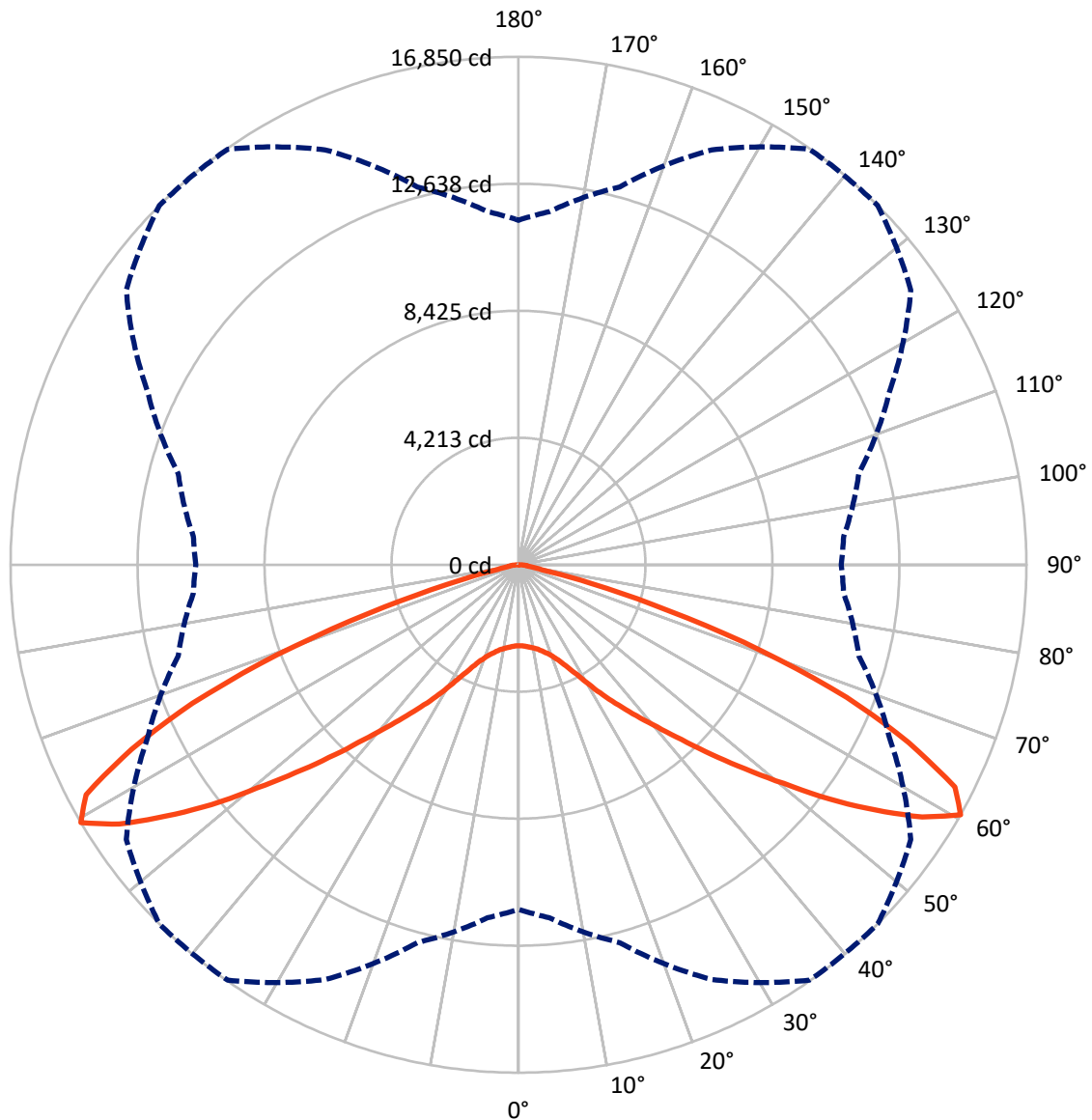
✕ Max cd  
 - - - 1/2 Max cd



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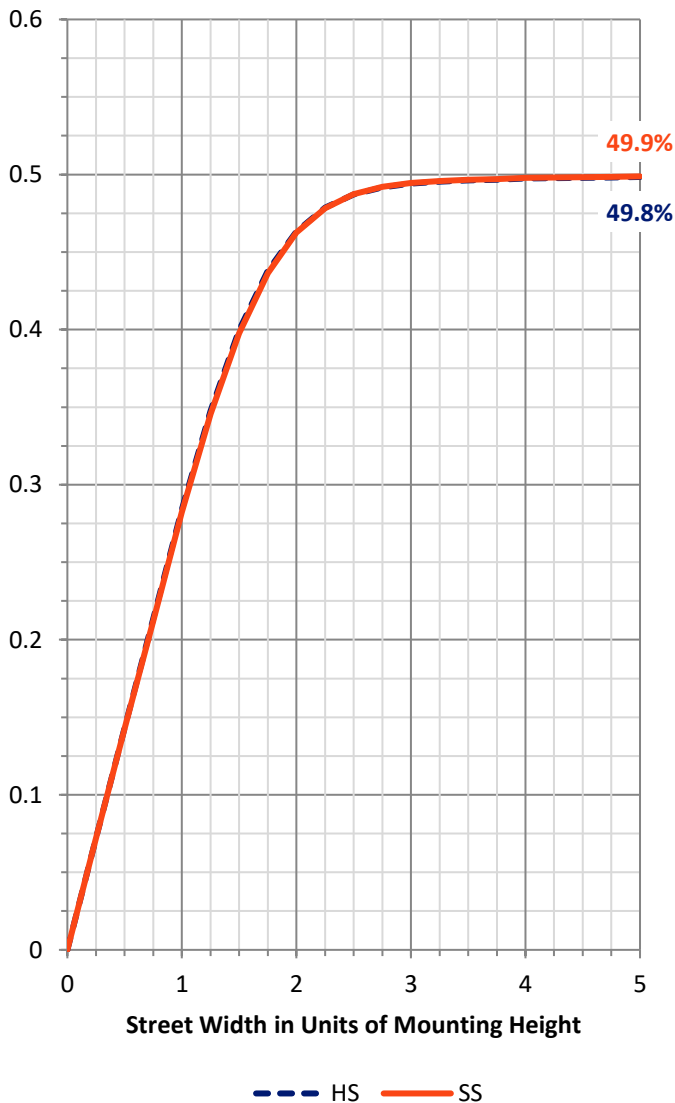
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18697.0	0.0	18697.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18697.0	0.0	18697.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37394.0	0.0	37394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.8	0.7
10°-20°	856.6	2.3
20°-30°	1819.4	4.9
30°-40°	3857.8	10.3
40°-50°	7336.4	19.6
50°-60°	11638.8	31.1
60°-70°	9837.8	26.3
70°-80°	1618.5	4.3
80°-90°	166.0	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°	37394.0	100.0
0°-180°	37394.0	100.0

**Coefficient of Utilization**



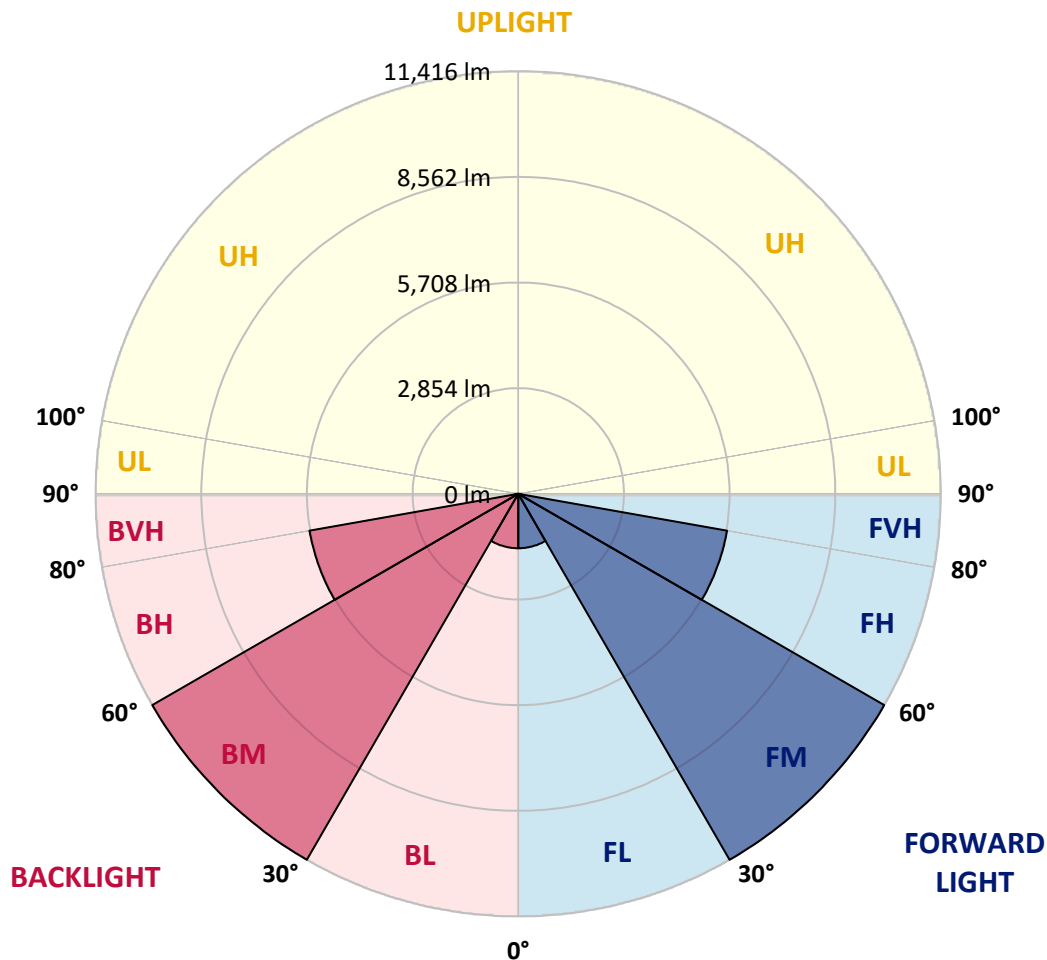
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.4	3.9			
FM (30°-60°)	11416.5	30.5			
FH (60°-80°)	5728.2	15.3			G3/7500
FVH (80°-90°)	83.0	0.2			G1/100
BL (0°-30°)	1469.4	3.9	B3/2500		
BM (30°-60°)	11416.5	30.5	B5		
BH (60°-80°)	5728.2	15.3	B5		G3/7500
BVH (80°-90°)	83.0	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2704.1	2697.4	2695.3	2692.5	2693.9	2694.6	2698.5	2698.9	2698.9	2702.4	2708.4
5°	2734.4	2725.6	2722.5	2718.9	2720.7	2722.5	2726.0	2728.1	2727.8	2729.9	2735.2
7.5°	2767.2	2764.1	2760.2	2758.1	2758.1	2763.0	2760.5	2764.4	2764.1	2766.5	2769.7
10°	2815.9	2808.8	2808.5	2804.6	2806.3	2810.6	2811.3	2810.6	2811.3	2812.7	2820.1
12.5°	2877.5	2875.8	2876.8	2873.7	2872.6	2877.2	2878.2	2882.8	2884.2	2888.5	2893.0
15°	2976.9	2965.6	2964.2	2963.9	2966.0	2973.0	2975.2	2983.6	2987.5	2993.5	3003.7
17.5°	3089.3	3093.2	3086.2	3085.5	3085.1	3090.7	3096.4	3115.1	3121.1	3134.8	3143.6
20°	3268.7	3261.7	3257.4	3240.5	3236.3	3246.2	3266.6	3291.3	3302.9	3324.8	3341.3
22.5°	3508.4	3496.4	3467.5	3447.4	3438.9	3455.9	3478.1	3517.5	3564.4	3591.5	3598.9
25°	3854.8	3807.6	3771.6	3736.0	3723.3	3748.4	3784.3	3847.0	3905.9	3960.2	3985.2
27.5°	4276.7	4246.7	4175.2	4119.1	4096.9	4118.1	4192.8	4281.2	4389.1	4445.5	4453.9
30°	4812.3	4796.8	4705.5	4600.5	4561.1	4597.7	4685.8	4806.3	4956.5	5072.4	5092.9
32.5°	5475.6	5397.0	5270.1	5150.0	5107.7	5152.4	5240.9	5413.9	5616.2	5744.5	5788.2
35°	6236.1	6147.3	5956.6	5772.0	5717.4	5723.0	5864.7	6108.5	6385.2	6564.2	6613.2
37.5°	7074.9	6984.3	6759.5	6472.9	6346.4	6355.9	6541.3	6858.5	7237.7	7432.9	7497.8
40°	7970.0	7876.3	7644.4	7321.6	7113.7	7071.4	7319.1	7705.4	8090.6	8326.0	8351.0
42.5°	8845.1	8734.1	8547.7	8224.8	8035.2	7921.8	8221.0	8570.9	8959.3	9171.4	9188.0
45°	9626.8	9605.3	9455.5	9221.5	9065.4	8964.9	9178.5	9526.0	9797.4	9931.6	9980.6
47.5°	10382.4	10369.0	10321.1	10239.3	10278.1	10111.0	10213.6	10371.1	10520.2	10618.8	10656.9
50°	11044.6	11058.7	11152.8	11292.0	11572.5	11403.3	11371.3	11201.8	11206.0	11213.7	11253.2
52.5°	11591.5	11666.3	11903.1	12323.2	12929.0	12925.1	12439.8	11992.2	11790.0	11700.1	11708.2
55°	12068.4	12196.3	12587.5	13454.8	14321.8	14365.1	13705.0	12713.7	12334.4	12142.7	12167.7
57.5°	12331.6	12526.5	13188.7	14505.4	15741.0	15793.1	15058.0	13512.6	12644.2	12158.9	12179.7
60°	11428.0	11756.1	12976.9	15183.1	16826.4	16850.4	15885.1	13575.3	11686.3	10827.5	10701.7
62.5°	9351.9	9806.5	11528.8	14658.0	16323.5	16249.2	15367.4	12400.0	9600.0	8558.2	8452.5
65°	7024.8	7452.3	9255.7	12550.8	14322.8	14224.8	13326.9	9800.2	7038.2	5932.3	5802.3
67.5°	3801.9	4447.6	6135.0	9587.3	11417.8	11750.1	10506.1	6830.7	4095.9	2969.5	2855.3
70°	1313.1	1696.9	3128.1	6018.3	8235.4	8568.8	7164.4	3663.4	1792.4	1120.7	1006.2
72.5°	466.3	537.4	1176.0	2906.4	4688.6	5195.1	3865.7	1473.5	571.3	416.2	407.8
75°	329.2	339.7	418.0	947.7	2030.0	2486.3	1524.2	489.2	356.3	333.0	330.9
77.5°	293.9	299.9	338.7	385.9	620.3	794.0	469.1	354.9	309.4	296.4	291.8
80°	279.5	284.1	295.3	316.5	351.7	365.8	316.5	303.4	281.6	275.9	274.2
82.5°	244.2	243.2	246.3	255.2	271.0	274.5	254.1	237.9	238.2	231.5	228.4
85°	165.3	175.2	167.8	158.6	196.7	197.7	184.3	138.1	156.8	153.7	140.6
87.5°	50.0	56.4	44.8	31.0	42.6	33.1	30.0	31.0	29.6	25.7	23.3
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)