

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: P510453

Luminaire Tested: **CST-CA10-210-760-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510453  
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-CA10-210-760-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37076 lumens  
Efficiency: N/A  
Efficacy: 174.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

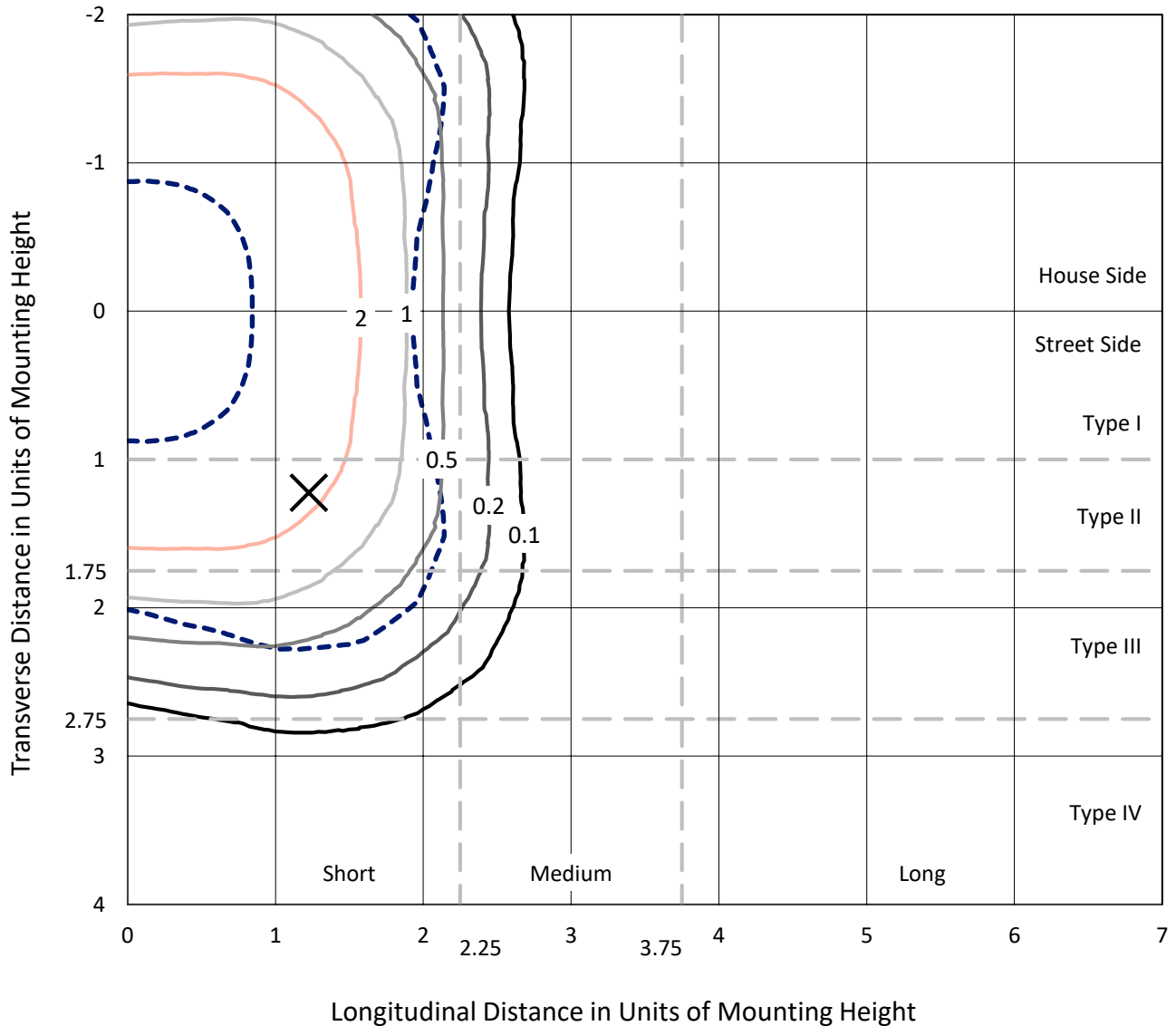
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

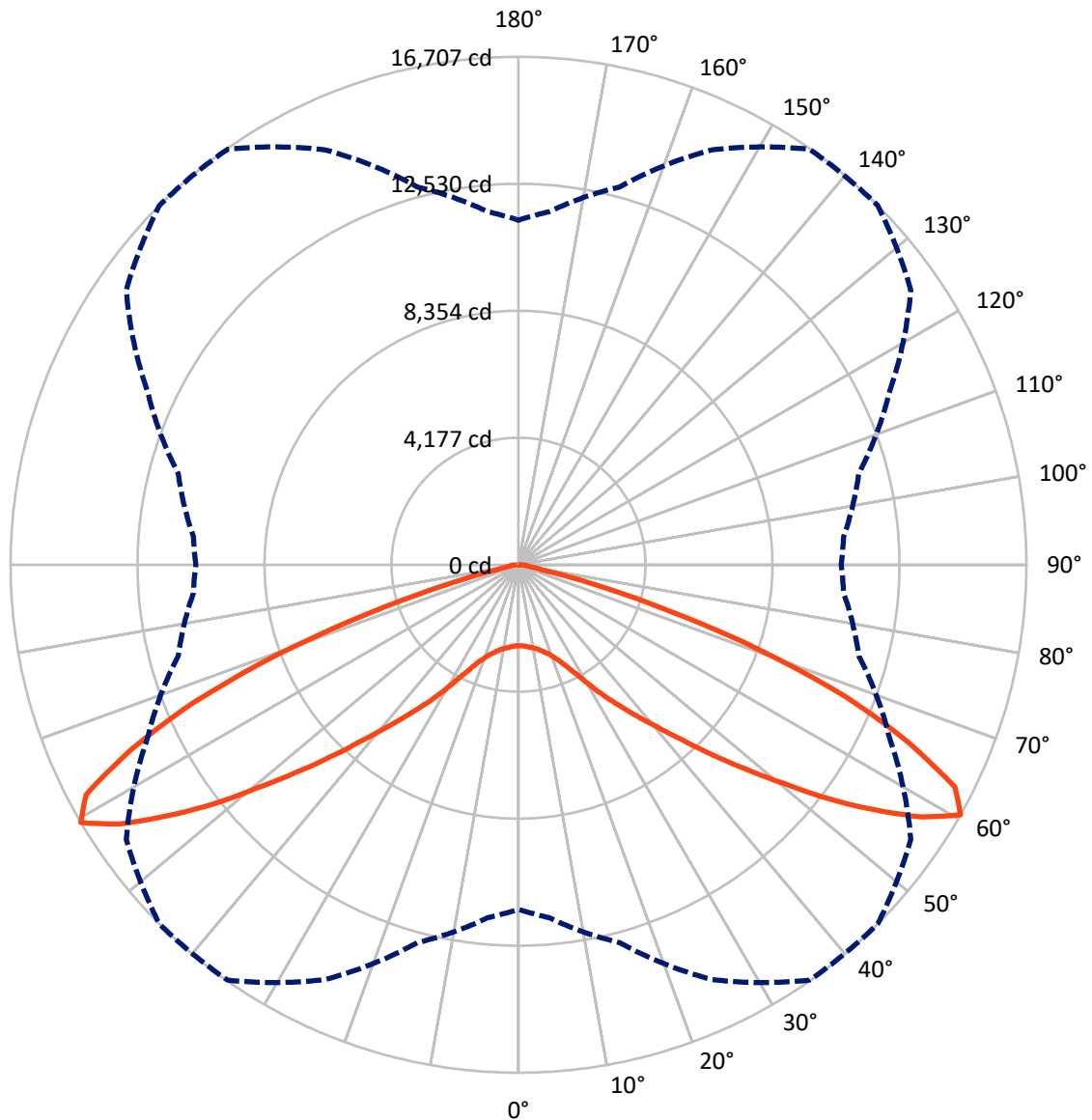
✕ Max cd  
 - - - 1/2 Max cd



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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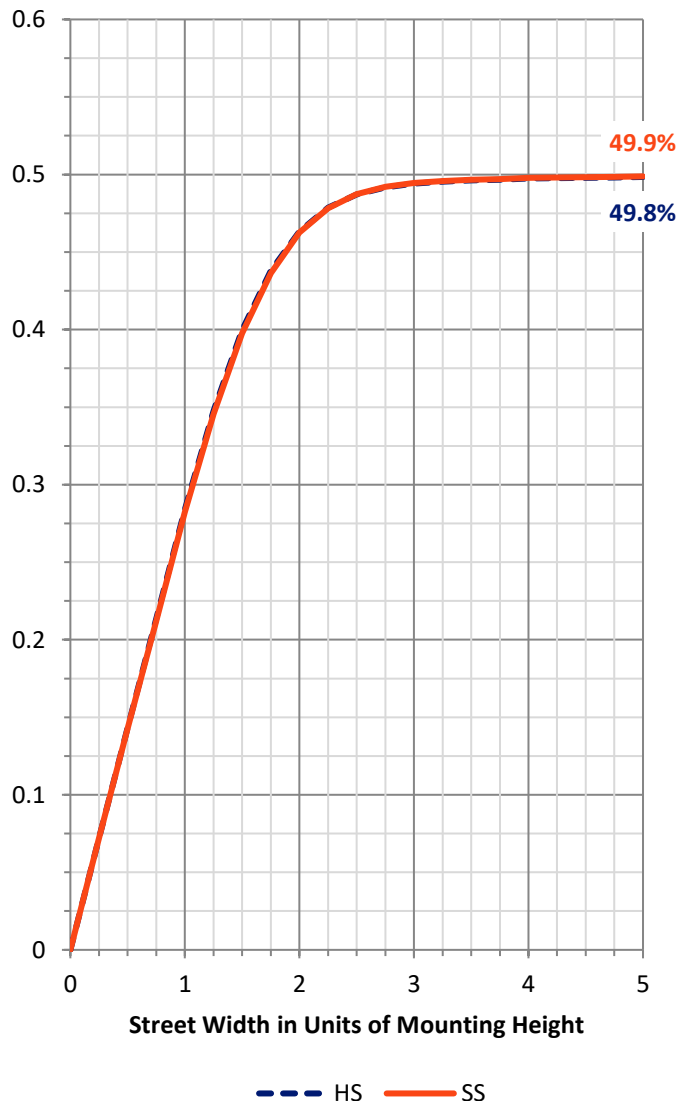
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18538.0	0.0	18538.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18538.0	0.0	18538.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37076.0	0.0	37076.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.5	0.7
10°-20°	849.3	2.3
20°-30°	1803.9	4.9
30°-40°	3825.0	10.3
40°-50°	7274.0	19.6
50°-60°	11539.8	31.1
60°-70°	9754.2	26.3
70°-80°	1604.7	4.3
80°-90°	164.5	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°	37076.0	100.0
0°-180°	37076.0	100.0

**Coefficient of Utilization**



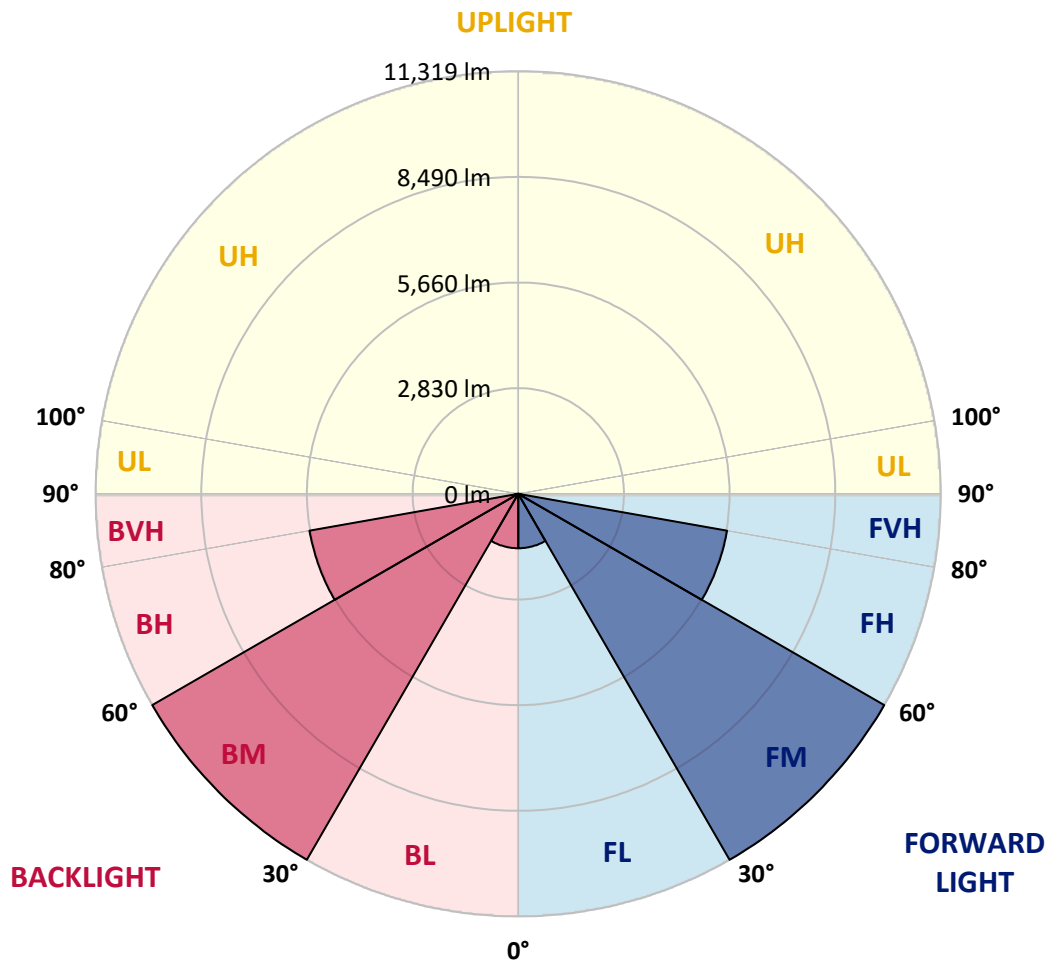
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.9	3.9			
FM (30°-60°)	11319.4	30.5			
FH (60°-80°)	5679.5	15.3			G3/7500
FVH (80°-90°)	82.3	0.2			G1/100
BL (0°-30°)	1456.9	3.9	B3/2500		
BM (30°-60°)	11319.4	30.5	B5		
BH (60°-80°)	5679.5	15.3	B5		G3/7500
BVH (80°-90°)	82.3	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°	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9
2.5°	2681.1	2674.5	2672.4	2669.6	2671.0	2671.7	2675.6	2675.9	2675.9	2679.4	2685.3
5°	2711.2	2702.5	2699.3	2695.8	2697.6	2699.3	2702.8	2704.9	2704.6	2706.7	2711.9
7.5°	2743.7	2740.5	2736.7	2734.6	2734.6	2739.5	2737.1	2740.9	2740.5	2743.0	2746.1
10°	2791.9	2784.9	2784.6	2780.7	2782.5	2786.7	2787.4	2786.7	2787.4	2788.8	2796.1
12.5°	2853.1	2851.3	2852.4	2849.2	2848.2	2852.7	2853.8	2858.3	2859.7	2863.9	2868.4
15°	2951.6	2940.4	2939.0	2938.7	2940.8	2947.8	2949.9	2958.2	2962.1	2968.0	2978.2
17.5°	3063.1	3066.9	3059.9	3059.2	3058.9	3064.5	3070.1	3088.6	3094.5	3108.1	3116.9
20°	3240.9	3233.9	3229.7	3213.0	3208.8	3218.6	3238.8	3263.3	3274.8	3296.5	3312.9
22.5°	3478.5	3466.7	3438.0	3418.1	3409.7	3426.5	3448.5	3487.6	3534.1	3561.0	3568.3
25°	3822.0	3775.2	3739.6	3704.3	3691.7	3716.5	3752.1	3814.3	3872.7	3926.5	3951.3
27.5°	4240.3	4210.6	4139.6	4084.1	4062.1	4083.0	4157.1	4244.8	4351.7	4407.7	4416.0
30°	4771.4	4756.0	4665.5	4561.4	4522.3	4558.6	4646.0	4765.5	4914.3	5029.3	5049.6
32.5°	5429.0	5351.1	5225.3	5106.2	5064.2	5108.6	5196.3	5367.9	5568.4	5695.6	5739.0
35°	6183.1	6095.0	5906.0	5722.9	5668.7	5674.3	5814.8	6056.6	6330.9	6508.4	6557.0
37.5°	7014.7	6924.9	6702.0	6417.9	6292.5	6301.9	6485.7	6800.2	7176.2	7369.7	7434.0
40°	7902.3	7809.3	7579.4	7259.3	7053.2	7011.2	7256.9	7639.8	8021.8	8255.2	8280.0
42.5°	8769.9	8659.8	8475.0	8154.9	7966.9	7854.4	8151.1	8498.0	8883.1	9093.5	9109.9
45°	9544.9	9523.6	9375.1	9143.1	8988.3	8888.7	9100.4	9445.0	9714.0	9847.2	9895.7
47.5°	10294.1	10280.8	10233.3	10152.2	10190.7	10025.0	10126.7	10282.9	10430.7	10528.5	10566.3
50°	10950.7	10964.6	11057.9	11196.0	11474.1	11306.4	11274.6	11106.5	11110.7	11118.4	11157.5
52.5°	11493.0	11567.0	11801.9	12218.4	12819.0	12815.2	12334.0	11890.3	11689.7	11600.6	11608.6
55°	11965.7	12092.6	12480.4	13340.4	14200.0	14242.9	13588.5	12605.5	12229.6	12039.5	12064.3
57.5°	12226.8	12420.0	13076.6	14382.0	15607.1	15658.8	14929.9	13397.7	12536.7	12055.5	12076.2
60°	11330.8	11656.1	12866.6	15054.0	16683.3	16707.1	15750.0	13459.9	11587.0	10735.4	10610.7
62.5°	9272.4	9723.1	11430.8	14533.3	16184.7	16111.0	15236.7	12294.5	9518.4	8485.5	8380.6
65°	6965.1	7389.0	9177.0	12444.1	14201.0	14103.9	13213.5	9716.8	6978.4	5881.9	5752.9
67.5°	3769.6	4409.8	6082.8	9505.8	11320.7	11650.2	10416.7	6772.6	4061.0	2944.3	2831.0
70°	1302.0	1682.5	3101.5	5967.1	8165.4	8495.9	7103.5	3632.3	1777.2	1111.2	997.6
72.5°	462.3	532.9	1166.0	2881.7	4648.8	5150.9	3832.9	1460.9	566.4	412.7	404.3
75°	326.4	336.8	414.4	939.6	2012.7	2465.2	1511.3	485.0	353.3	330.2	328.1
77.5°	291.4	297.4	335.8	382.6	615.0	787.3	465.1	351.9	306.8	293.9	289.3
80°	277.1	281.6	292.8	313.8	348.7	362.7	313.8	300.9	279.2	273.6	271.9
82.5°	242.2	241.1	244.2	253.0	268.7	272.2	251.9	235.9	236.2	229.6	226.4
85°	163.9	173.7	166.3	157.2	195.0	196.0	182.7	137.0	155.5	152.3	139.4
87.5°	49.6	55.9	44.4	30.7	42.3	32.8	29.7	30.7	29.4	25.5	23.1
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)