

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: P510502

Luminaire Tested: **CST-CA10-310-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510502  
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-CA10-310-750-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50901 lumens  
Efficiency: N/A  
Efficacy: 162.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

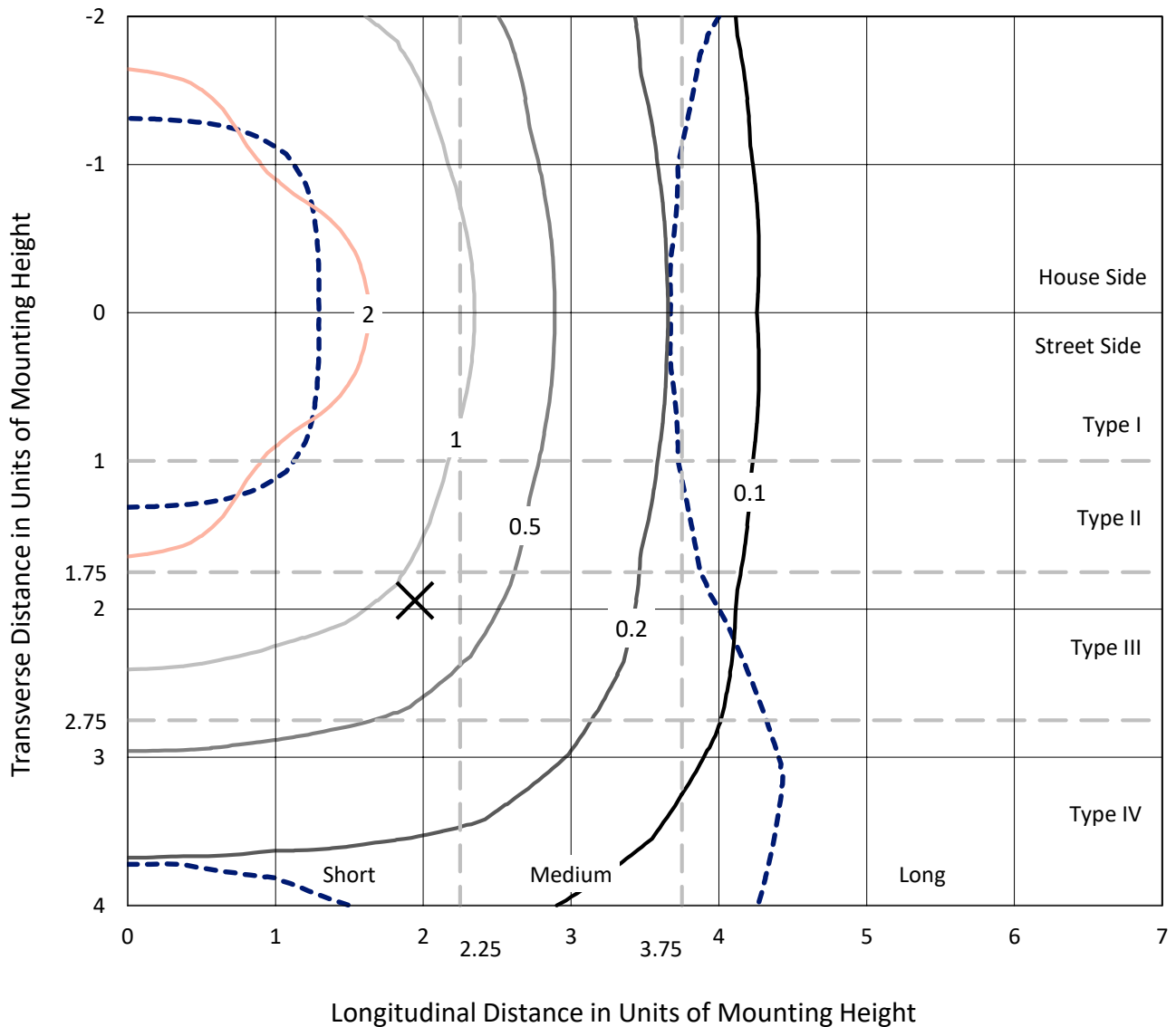
Input Watts (W): 312.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

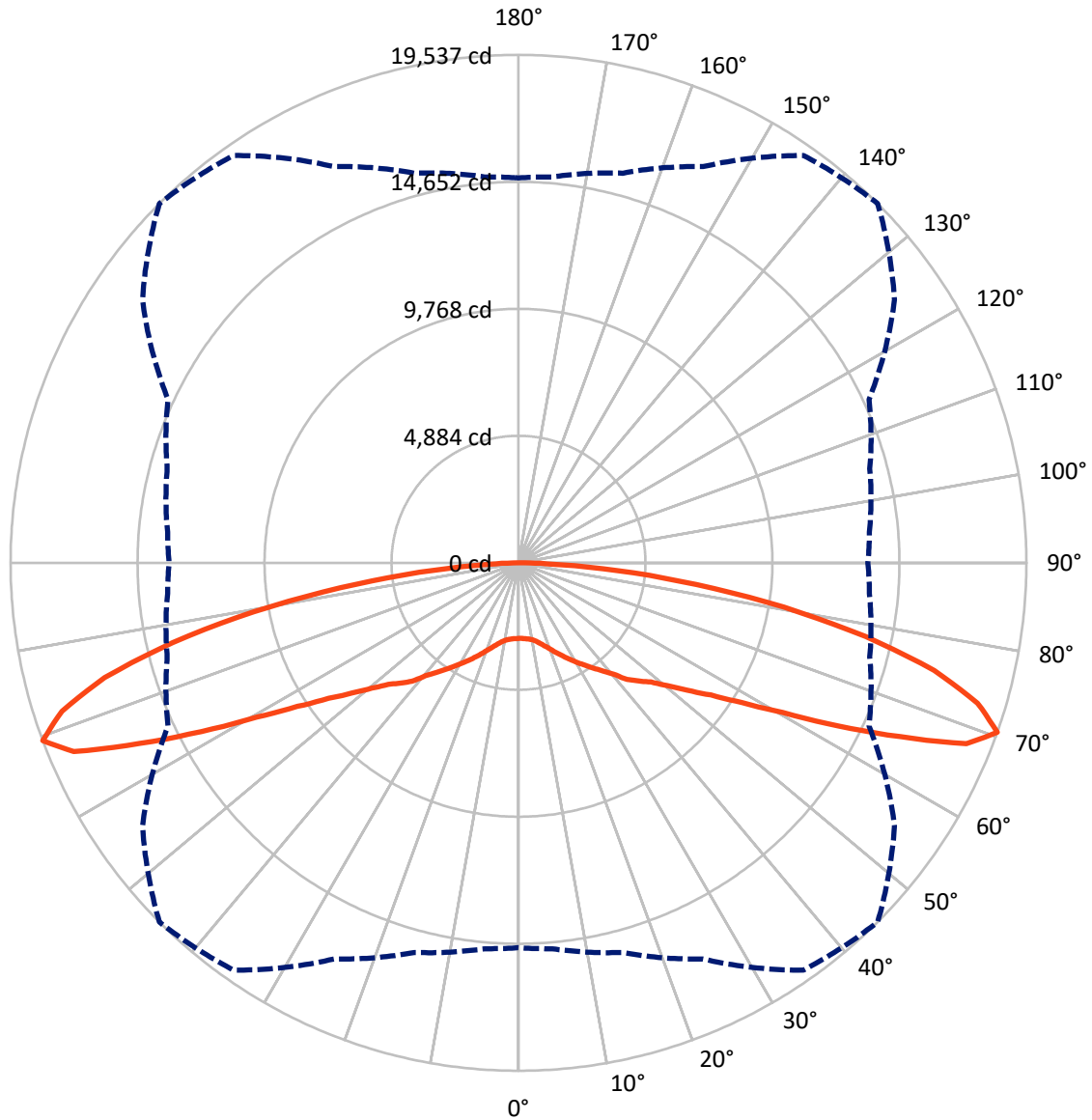
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 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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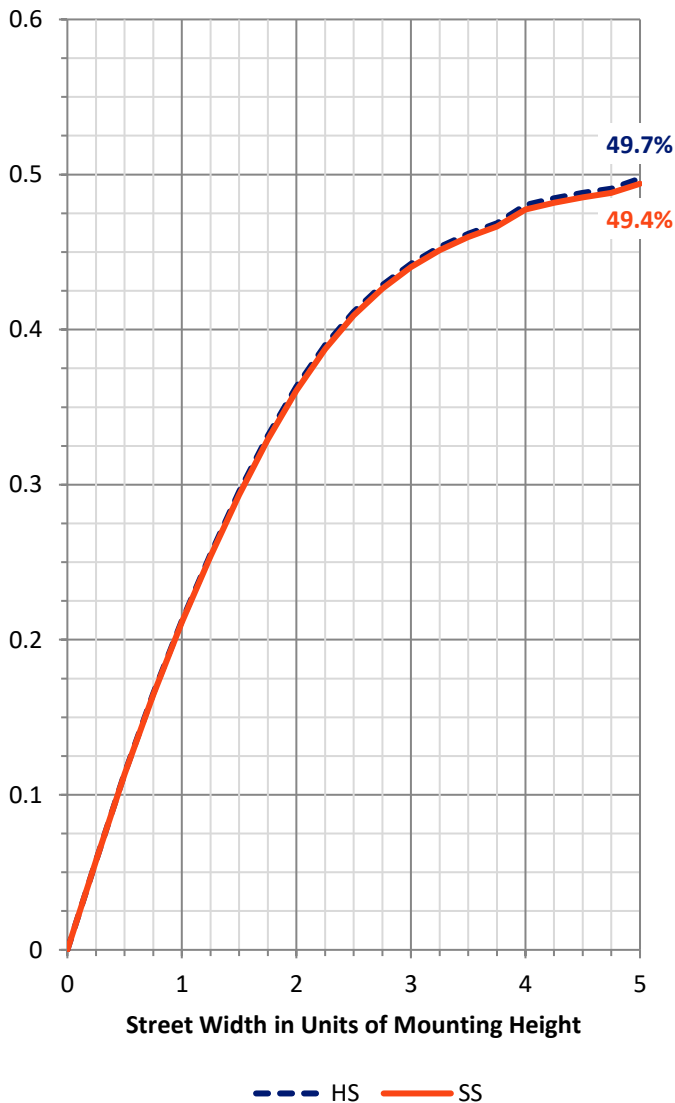
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25450.5	0.0	25450.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25450.5	0.0	25450.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50901.0	0.0	50901.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.8	0.6
10°-20°	920.9	1.8
20°-30°	1823.1	3.6
30°-40°	3153.8	6.2
40°-50°	5247.4	10.3
50°-60°	9152.3	18.0
60°-70°	15151.1	29.8
70°-80°	12697.8	24.9
80°-90°	2471.9	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°	50901.0	100.0
0°-180°	50901.0	100.0

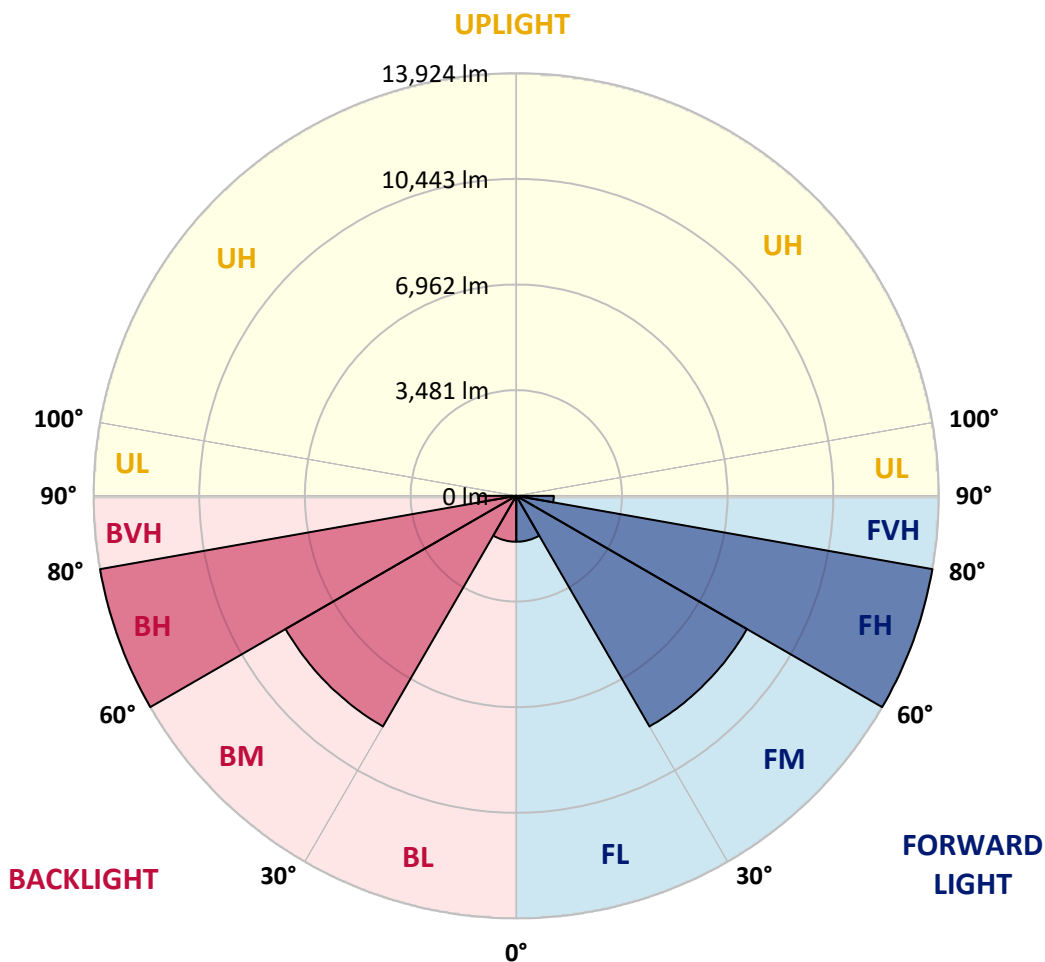


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.4	3.0			
FM (30°-60°)	8776.7	17.2			
FH (60°-80°)	13924.5	27.4			G5
FVH (80°-90°)	1235.9	2.4			G5
BL (0°-30°)	1513.4	3.0	B3/2500		
BM (30°-60°)	8776.7	17.2	B5		
BH (60°-80°)	13924.5	27.4	B5		G5
BVH (80°-90°)	1235.9	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°	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2
2.5°	2927.3	2918.2	2915.2	2912.2	2914.2	2913.2	2918.2	2920.2	2922.3	2931.3	2926.3
5°	2945.4	2938.4	2937.4	2933.3	2932.3	2932.3	2939.4	2940.4	2941.4	2947.5	2941.4
7.5°	2978.7	2971.7	2969.6	2967.6	2966.6	2962.6	2967.6	2965.6	2967.6	2970.6	2963.6
10°	3031.1	3023.1	3021.0	3016.0	3019.0	3013.0	3017.0	3012.0	3002.9	3004.9	2994.8
12.5°	3102.7	3095.6	3098.7	3097.7	3109.8	3106.7	3098.7	3088.6	3073.5	3063.4	3052.3
15°	3208.5	3197.4	3205.5	3213.6	3225.7	3230.7	3224.7	3197.4	3175.3	3159.1	3150.1
17.5°	3337.6	3319.4	3335.5	3351.7	3377.9	3382.9	3360.7	3327.5	3303.3	3296.2	3281.1
20°	3487.8	3484.7	3485.7	3512.0	3552.3	3559.3	3530.1	3490.8	3466.6	3467.6	3450.5
22.5°	3669.2	3653.1	3658.1	3684.3	3741.8	3760.9	3712.5	3669.2	3654.1	3658.1	3656.1
25°	3876.9	3861.7	3854.7	3866.8	3941.4	3974.6	3928.3	3877.9	3870.8	3879.9	3865.8
27.5°	4104.7	4090.6	4082.5	4088.5	4147.0	4209.5	4158.1	4115.8	4114.7	4127.9	4119.8
30°	4363.7	4342.6	4333.5	4340.5	4380.9	4441.3	4400.0	4374.8	4396.0	4405.1	4402.0
32.5°	4625.8	4615.7	4612.7	4610.7	4660.1	4694.4	4674.2	4679.2	4696.4	4737.7	4724.6
35°	4924.2	4895.0	4903.0	4909.1	4973.6	4976.6	4978.6	4987.7	5033.1	5091.5	5057.3
37.5°	5234.7	5227.6	5232.6	5215.5	5262.9	5282.0	5310.3	5340.5	5412.1	5479.6	5465.5
40°	5618.7	5605.6	5610.7	5590.5	5613.7	5628.8	5686.3	5751.8	5843.5	5916.1	5882.8
42.5°	6127.8	6094.5	6094.5	6100.6	6148.9	6132.8	6255.8	6273.9	6387.8	6449.3	6430.2
45°	6726.5	6714.4	6650.9	6544.1	6483.6	6482.6	6581.4	6728.6	6917.1	7045.1	7044.1
47.5°	7487.6	7450.3	7298.1	7041.0	6887.8	6850.5	6954.3	7240.6	7587.4	7787.0	7784.0
50°	8485.5	8438.2	8207.3	7808.1	7509.8	7418.0	7584.4	7955.3	8422.0	8688.1	8710.3
52.5°	9602.4	9606.5	9345.4	8741.6	8300.1	8134.7	8311.1	8841.4	9423.0	9787.9	9831.2
55°	10899.8	10868.5	10621.5	9937.1	9329.3	8974.4	9241.6	9944.1	10612.5	10890.7	10967.3
57.5°	12250.5	12128.5	11939.0	11298.9	10588.3	10134.7	10455.2	11142.7	11782.8	12137.6	12125.5
60°	13448.0	13367.4	13258.5	12748.5	12203.1	11685.0	11932.0	12513.6	13062.0	13276.7	13285.7
62.5°	14756.4	14688.9	14591.1	14311.9	14011.5	13819.0	13595.2	13864.3	14292.8	14527.6	14604.2
65°	16040.7	16016.5	16072.9	16030.6	16157.6	16129.4	15593.1	15423.8	15430.8	15364.3	15330.0
67.5°	15965.1	15956.0	16288.6	16951.9	18218.0	18576.9	17200.9	15668.7	14978.2	14802.8	14777.6
70°	14800.8	14898.6	15514.5	16812.8	19123.2	19536.5	17652.5	14871.4	13988.3	13548.8	13440.0
72.5°	12561.0	12752.5	13697.0	15609.2	18371.2	18466.0	16517.5	13671.8	12371.5	11847.3	11769.7
75°	9692.1	9716.3	10683.0	13113.4	16395.5	16514.4	14734.3	11467.3	10188.1	9535.9	9515.7
77.5°	5903.0	6246.7	7656.9	9832.3	13033.7	13652.7	12323.1	9133.7	7612.6	7035.0	6712.4
80°	2896.0	3053.3	4069.4	6216.5	9316.1	10353.4	9144.8	6317.3	4695.4	3962.5	3881.9
82.5°	1318.5	1402.2	1925.3	3249.9	5621.7	6907.0	5643.9	3617.8	2507.0	1960.6	1942.5
85°	512.1	509.1	779.2	1363.9	2691.4	3824.4	2857.7	1725.7	1147.1	852.8	804.4
87.5°	149.2	159.3	228.8	447.6	797.3	1074.6	881.0	596.7	352.8	226.8	208.7
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)