

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: P510583

Luminaire Tested: **CST-CA10-760-722-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510583  
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-CA10-760-722-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 92530 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

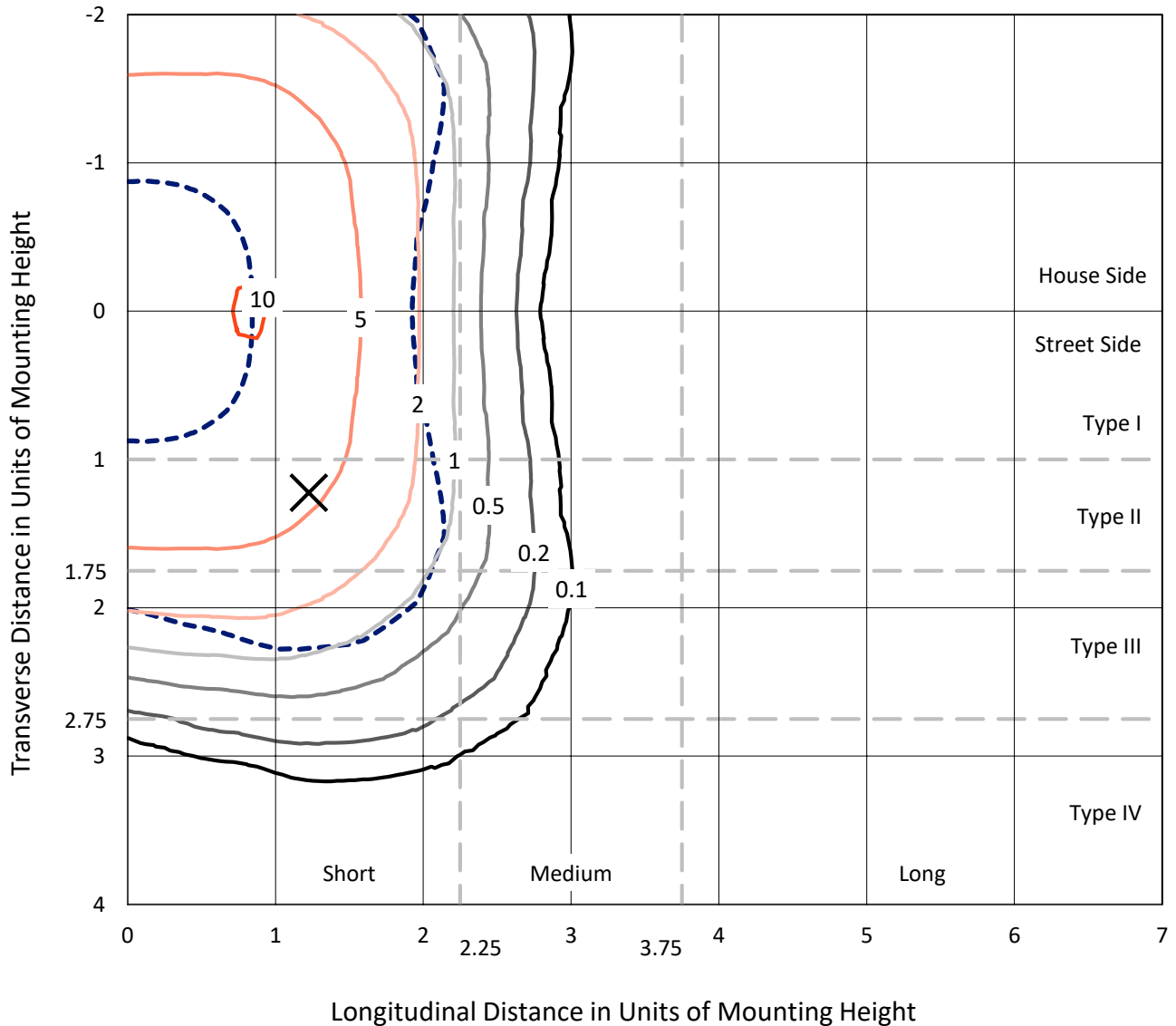
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

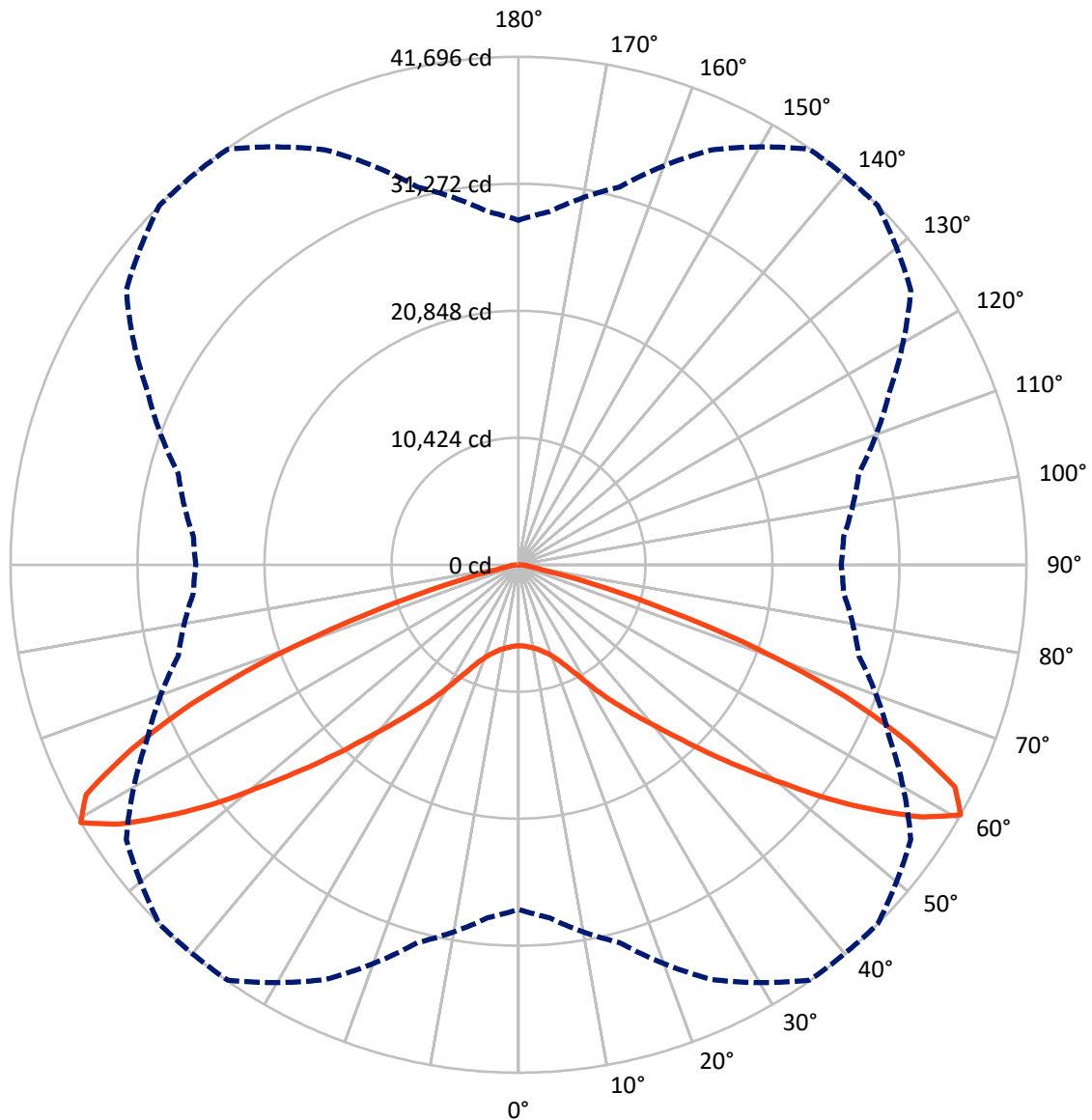
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 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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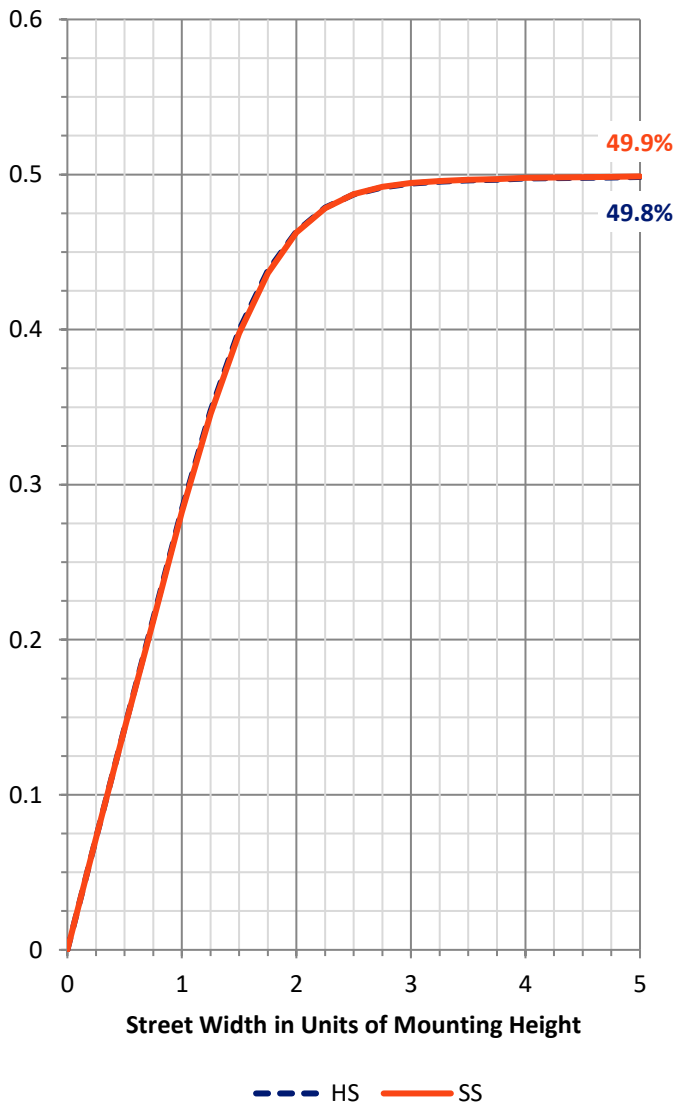
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	46265.0	0.0	46265.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	46265.0	0.0	46265.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	92530.0	0.0	92530.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.2	0.7
10°-20°	2119.7	2.3
20°-30°	4502.0	4.9
30°-40°	9545.9	10.3
40°-50°	18153.6	19.6
50°-60°	28799.7	31.1
60°-70°	24343.4	26.3
70°-80°	4004.9	4.3
80°-90°	410.7	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°	92530.0	100.0
0°-180°	92530.0	100.0

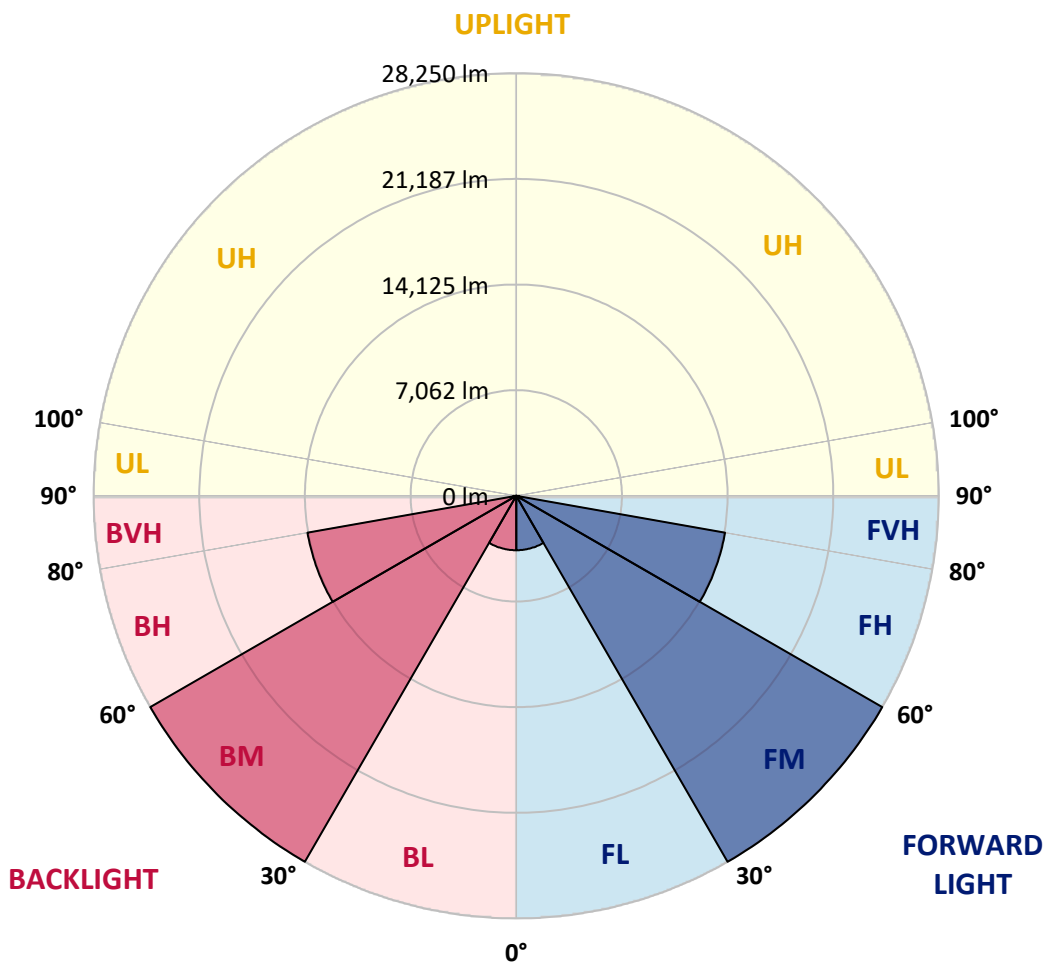


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.0	3.9			
FM (30°-60°)	28249.6	30.5			
FH (60°-80°)	14174.1	15.3			G5
FVH (80°-90°)	205.3	0.2			G2/225
BL (0°-30°)	3636.0	3.9	B4/5000		
BM (30°-60°)	28249.6	30.5	B5		
BH (60°-80°)	14174.1	15.3	B5		G5
BVH (80°-90°)	205.3	0.2			G2/225
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°	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3	6643.3
2.5°	6691.3	6674.7	6669.5	6662.5	6666.0	6667.7	6677.3	6678.2	6678.2	6686.9	6701.8
5°	6766.3	6744.5	6736.6	6727.9	6732.3	6736.6	6745.4	6750.6	6749.7	6754.9	6768.0
7.5°	6847.4	6839.5	6829.9	6824.7	6824.7	6836.9	6830.8	6840.4	6839.5	6845.6	6853.5
10°	6967.7	6950.3	6949.4	6939.8	6944.2	6954.6	6956.4	6954.6	6956.4	6959.9	6978.2
12.5°	7120.3	7116.0	7118.6	7110.7	7108.1	7119.5	7122.1	7133.4	7136.9	7147.4	7158.7
15°	7366.3	7338.4	7334.9	7334.0	7339.2	7356.7	7361.9	7382.8	7392.4	7407.2	7432.5
17.5°	7644.4	7654.0	7636.6	7634.9	7634.0	7647.9	7661.9	7708.1	7722.9	7756.9	7778.7
20°	8088.3	8070.9	8060.4	8018.6	8008.1	8032.5	8083.1	8144.1	8172.9	8227.0	8268.0
22.5°	8681.3	8651.7	8580.2	8530.5	8509.5	8551.4	8606.3	8704.0	8820.0	8887.1	8905.4
25°	9538.6	9421.7	9332.7	9244.7	9213.3	9275.2	9364.1	9519.4	9665.0	9799.3	9861.2
27.5°	10582.4	10508.3	10331.3	10192.6	10137.7	10190.0	10374.9	10593.7	10860.6	11000.1	11021.0
30°	11907.9	11869.6	11643.7	11383.8	11286.2	11376.8	11594.9	11893.1	12264.6	12551.5	12602.1
32.5°	13549.1	13354.7	13040.7	12743.4	12638.7	12749.5	12968.4	13396.5	13897.1	14214.5	14322.7
35°	15431.0	15211.3	14739.5	14282.5	14147.4	14161.3	14511.9	15115.4	15799.9	16242.9	16364.1
37.5°	17506.5	17282.4	16726.0	16017.1	15704.0	15727.5	16186.2	16971.1	17909.4	18392.5	18553.0
40°	19721.6	19489.6	18915.8	18117.0	17602.5	17497.8	18110.9	19066.6	20019.8	20602.3	20664.2
42.5°	21886.9	21612.2	21150.9	20352.1	19882.9	19602.1	20342.5	21208.4	22169.4	22694.4	22735.4
45°	23821.1	23767.9	23397.3	22818.2	22431.9	22183.4	22711.8	23571.7	24243.2	24575.4	24696.6
47.5°	25690.8	25657.6	25539.0	25336.7	25432.7	25019.3	25273.1	25662.9	26031.8	26275.9	26370.1
50°	27329.4	27364.3	27597.1	27941.6	28635.7	28217.1	28137.8	27718.3	27728.8	27748.0	27845.6
52.5°	28682.8	28867.7	29453.7	30493.2	31992.3	31982.7	30781.8	29674.3	29173.8	28951.4	28971.5
55°	29862.7	30179.3	31147.2	33293.4	35438.6	35545.9	33912.5	31459.4	30521.1	30046.7	30108.6
57.5°	30514.1	30996.4	32635.0	35893.0	38950.4	39079.5	37260.4	33436.4	31287.6	30086.8	30138.3
60°	28278.2	29090.1	32110.9	37569.9	41636.3	41695.6	39307.1	33591.6	28917.4	26792.2	26480.9
62.5°	23140.9	24265.8	28527.6	36270.6	40391.9	40207.9	38026.0	30683.3	23754.8	21177.0	20915.4
65°	17382.7	18440.5	22902.8	31056.5	35441.2	35198.8	32976.8	24250.1	17415.8	14679.3	14357.5
67.5°	9407.7	11005.4	15180.8	23723.4	28252.9	29075.2	25996.9	16902.2	10135.0	7347.9	7065.4
70°	3249.3	4199.0	7740.4	14892.1	20378.2	21203.2	17728.0	9065.0	4435.3	2773.1	2489.7
72.5°	1153.7	1329.9	2910.1	7191.8	11601.8	12855.0	9565.6	3646.1	1413.6	1029.9	1009.0
75°	814.5	840.7	1034.3	2345.0	5023.0	6152.4	3771.6	1210.4	881.6	824.1	818.9
77.5°	727.3	742.1	838.0	954.9	1534.8	1964.7	1160.7	878.2	765.7	733.4	722.1
80°	691.5	702.9	730.8	783.1	870.3	905.2	783.1	750.8	696.8	682.8	678.5
82.5°	604.3	601.7	609.6	631.4	670.6	679.3	628.8	588.6	589.5	572.9	565.1
85°	409.0	433.4	415.1	392.4	486.6	489.2	456.1	341.8	388.1	380.2	348.0
87.5°	123.8	139.5	110.8	76.7	105.5	82.0	74.1	76.7	73.3	63.7	57.6
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)