

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: P510443

Luminaire Tested: **CST-CA10-210-750-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510443  
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-CA10-210-750-U-T5N  
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: 37879 lumens  
Efficiency: N/A  
Efficacy: 177.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

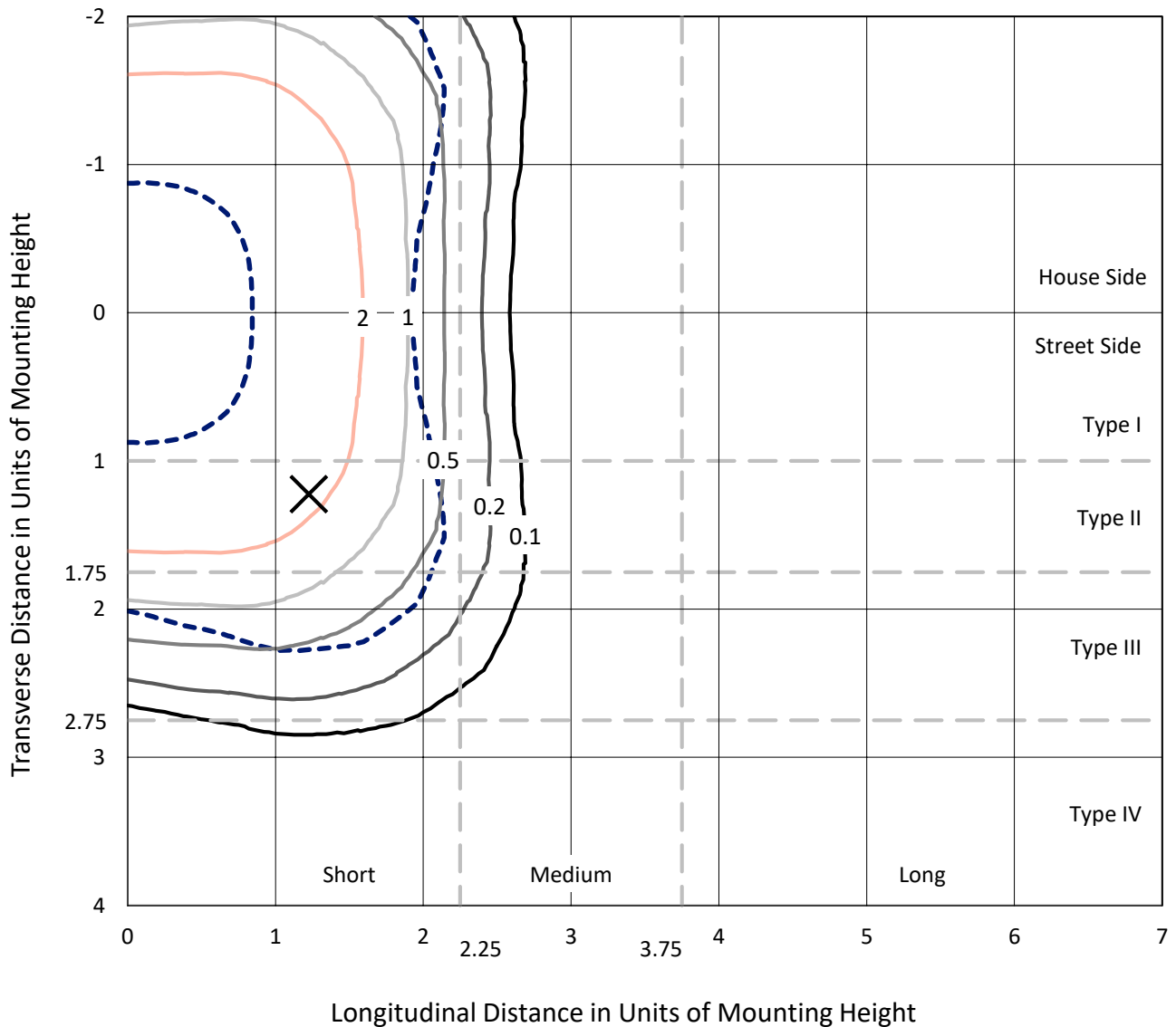
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

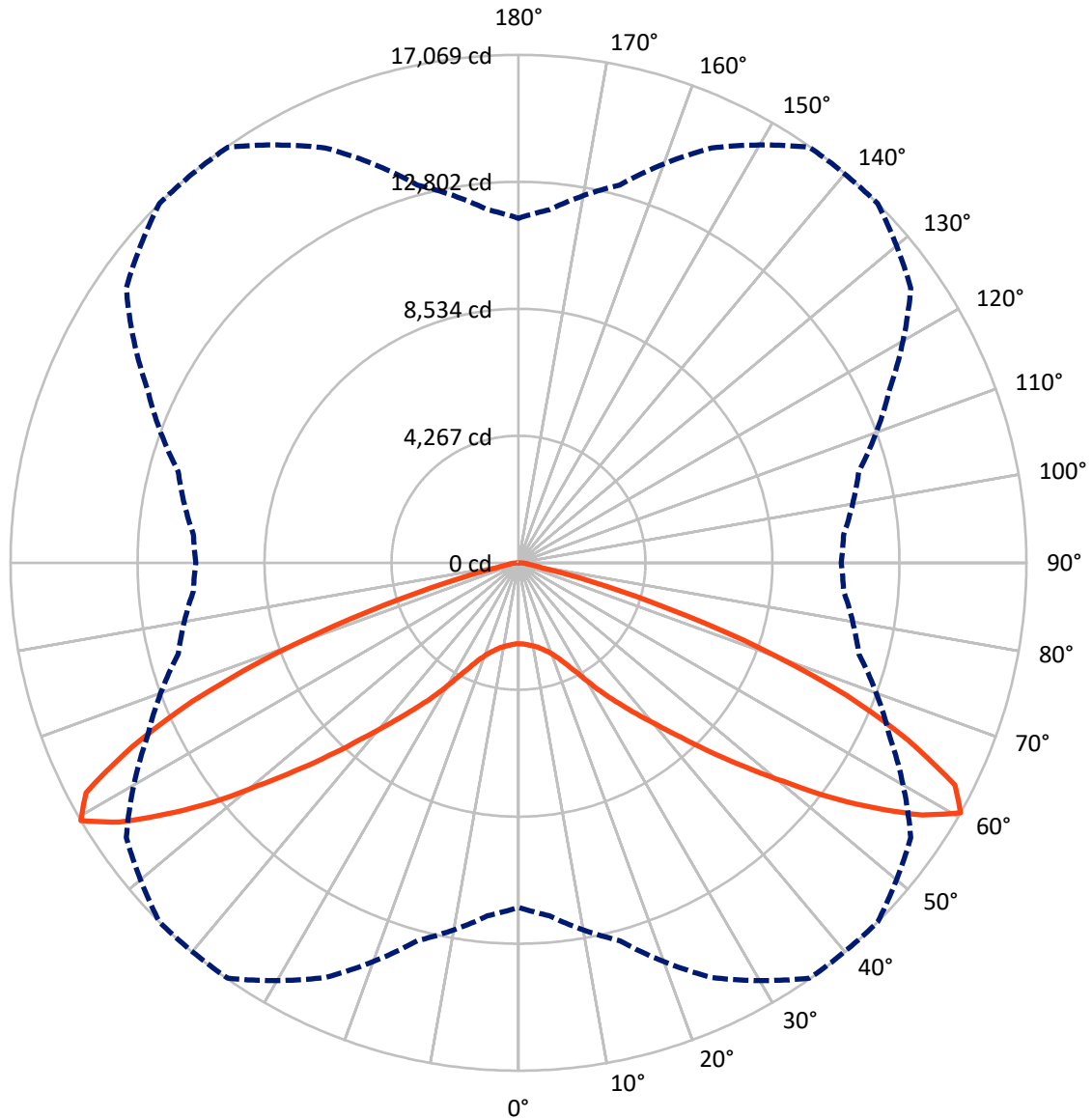
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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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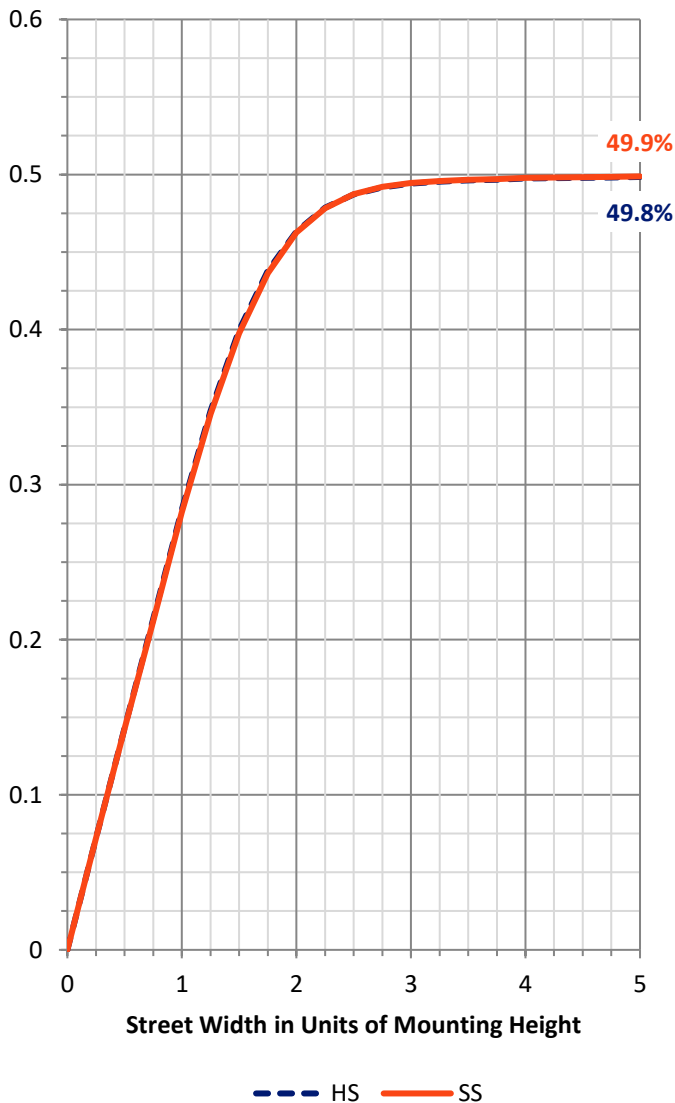
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18939.5	0.0	18939.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18939.5	0.0	18939.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37879.0	0.0	37879.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.2	0.7
10°-20°	867.7	2.3
20°-30°	1843.0	4.9
30°-40°	3907.8	10.3
40°-50°	7431.5	19.6
50°-60°	11789.7	31.1
60°-70°	9965.4	26.3
70°-80°	1639.5	4.3
80°-90°	168.1	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°	37879.0	100.0
0°-180°	37879.0	100.0

**Coefficient of Utilization**



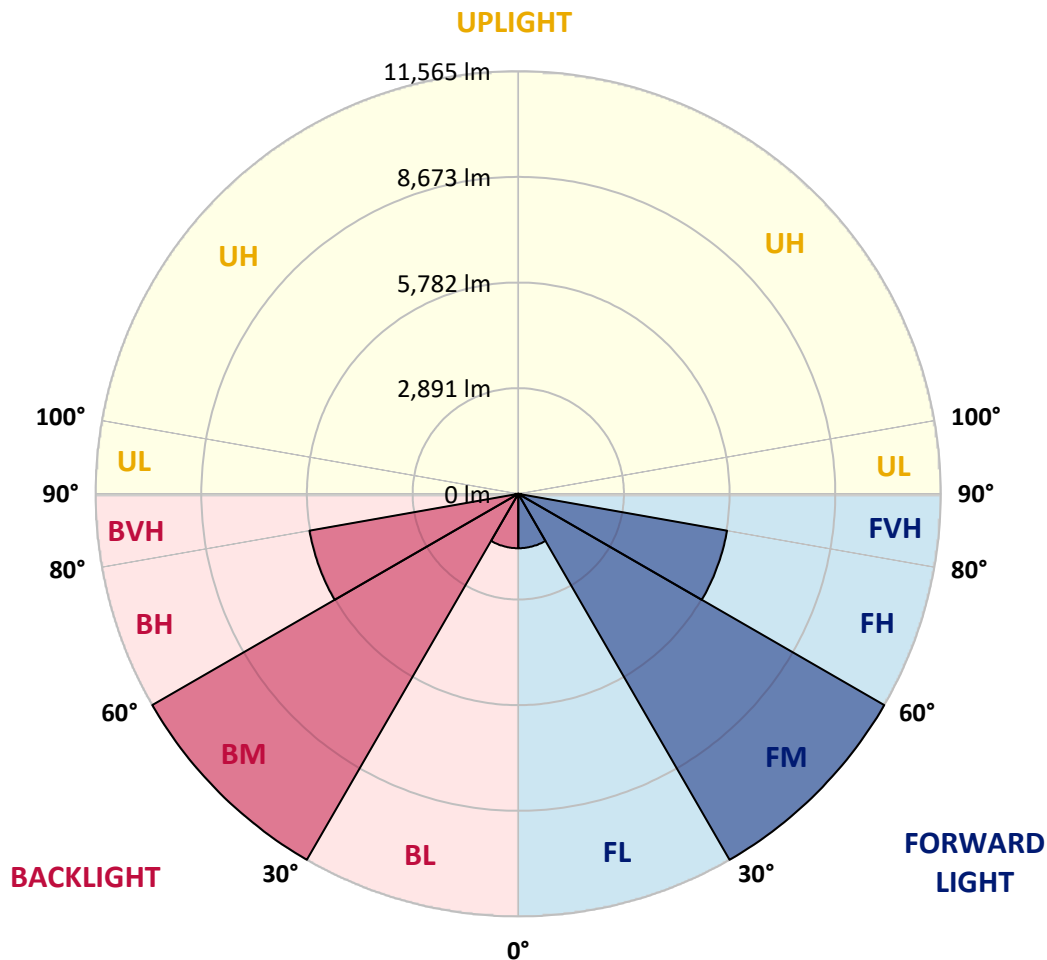
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.5	3.9			
FM (30°-60°)	11564.5	30.5			
FH (60°-80°)	5802.5	15.3			G3/7500
FVH (80°-90°)	84.1	0.2			G1/100
BL (0°-30°)	1488.5	3.9	B3/2500		
BM (30°-60°)	11564.5	30.5	B5		
BH (60°-80°)	5802.5	15.3	B5		G3/7500
BVH (80°-90°)	84.1	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°	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6	2719.6
2.5°	2739.2	2732.4	2730.3	2727.4	2728.9	2729.6	2733.5	2733.9	2733.9	2737.4	2743.5
5°	2769.9	2761.0	2757.8	2754.2	2756.0	2757.8	2761.3	2763.5	2763.1	2765.3	2770.6
7.5°	2803.1	2799.9	2796.0	2793.8	2793.8	2798.8	2796.3	2800.3	2799.9	2802.4	2805.6
10°	2852.4	2845.2	2844.9	2841.0	2842.7	2847.0	2847.7	2847.0	2847.7	2849.2	2856.7
12.5°	2914.9	2913.1	2914.1	2910.9	2909.9	2914.5	2915.6	2920.2	2921.6	2925.9	2930.6
15°	3015.5	3004.1	3002.7	3002.3	3004.5	3011.6	3013.7	3022.3	3026.2	3032.3	3042.7
17.5°	3129.4	3133.3	3126.2	3125.5	3125.1	3130.8	3136.5	3155.5	3161.5	3175.5	3184.4
20°	3311.1	3304.0	3299.7	3282.6	3278.3	3288.3	3309.0	3334.0	3345.7	3367.9	3384.7
22.5°	3553.9	3541.7	3512.5	3492.1	3483.5	3500.7	3523.2	3563.2	3610.6	3638.1	3645.6
25°	3904.8	3857.0	3820.5	3784.5	3771.6	3797.0	3833.4	3896.9	3956.6	4011.5	4036.9
27.5°	4332.1	4301.8	4229.3	4172.5	4150.1	4171.5	4247.2	4336.8	4446.0	4503.1	4511.7
30°	4874.7	4859.0	4766.6	4660.2	4620.2	4657.3	4746.6	4868.7	5020.8	5138.2	5158.9
32.5°	5546.6	5467.0	5338.5	5216.7	5173.9	5219.2	5308.9	5484.1	5689.1	5819.0	5863.3
35°	6317.0	6227.0	6033.9	5846.8	5791.5	5797.2	5940.7	6187.8	6468.0	6649.4	6699.0
37.5°	7166.6	7074.9	6847.1	6556.9	6428.7	6438.4	6626.2	6947.5	7331.6	7529.4	7595.0
40°	8073.4	7978.5	7743.5	7416.5	7205.9	7163.1	7414.0	7805.3	8195.5	8434.0	8459.3
42.5°	8959.8	8847.4	8658.5	8331.5	8139.5	8024.5	8327.6	8682.1	9075.5	9290.4	9307.2
45°	9751.6	9729.9	9578.1	9341.1	9182.9	9081.2	9297.5	9649.5	9924.4	10060.4	10110.1
47.5°	10517.0	10503.5	10454.9	10372.1	10411.4	10242.1	10346.0	10505.6	10656.6	10756.6	10795.1
50°	11187.8	11202.1	11297.4	11438.4	11722.6	11551.2	11518.8	11347.0	11351.3	11359.2	11399.2
52.5°	11741.9	11817.6	12057.5	12483.0	13096.7	13092.7	12601.2	12147.8	11942.9	11851.8	11860.0
55°	12224.9	12354.5	12750.7	13629.3	14507.5	14551.4	13882.8	12878.5	12494.4	12300.2	12325.6
57.5°	12491.6	12689.0	13359.8	14693.5	15945.1	15998.0	15253.3	13687.9	12808.2	12316.6	12337.7
60°	11576.2	11908.6	13145.2	15380.0	17044.7	17068.9	16091.1	13751.4	11837.9	10967.9	10840.5
62.5°	9473.2	9933.7	11678.3	14848.1	16535.2	16459.9	15566.7	12560.8	9724.5	8669.2	8562.1
65°	7116.0	7549.0	9375.7	12713.6	14508.6	14409.3	13499.7	9927.3	7129.5	6009.3	5877.5
67.5°	3851.2	4505.3	6214.5	9711.7	11565.9	11902.5	10642.3	6919.3	4149.0	3008.0	2892.4
70°	1330.2	1718.9	3168.7	6096.4	8342.2	8679.9	7257.3	3710.9	1815.7	1135.2	1019.2
72.5°	472.3	544.4	1191.3	2944.1	4749.4	5262.4	3915.9	1492.6	578.7	421.6	413.0
75°	333.4	344.1	423.4	960.0	2056.3	2518.6	1544.0	495.5	360.9	337.4	335.2
77.5°	297.7	303.8	343.1	390.9	628.3	804.3	475.2	359.5	313.4	300.2	295.6
80°	283.1	287.7	299.2	320.6	356.3	370.6	320.6	307.4	285.2	279.5	277.7
82.5°	247.4	246.3	249.5	258.5	274.5	278.1	257.4	241.0	241.3	234.5	231.3
85°	167.4	177.4	169.9	160.6	199.2	200.3	186.7	139.9	158.9	155.6	142.4
87.5°	50.7	57.1	45.3	31.4	43.2	33.6	30.3	31.4	30.0	26.1	23.6
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)