

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: P721834

Luminaire Tested: **CST-CA8-400-722-U-T5**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-400-722-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

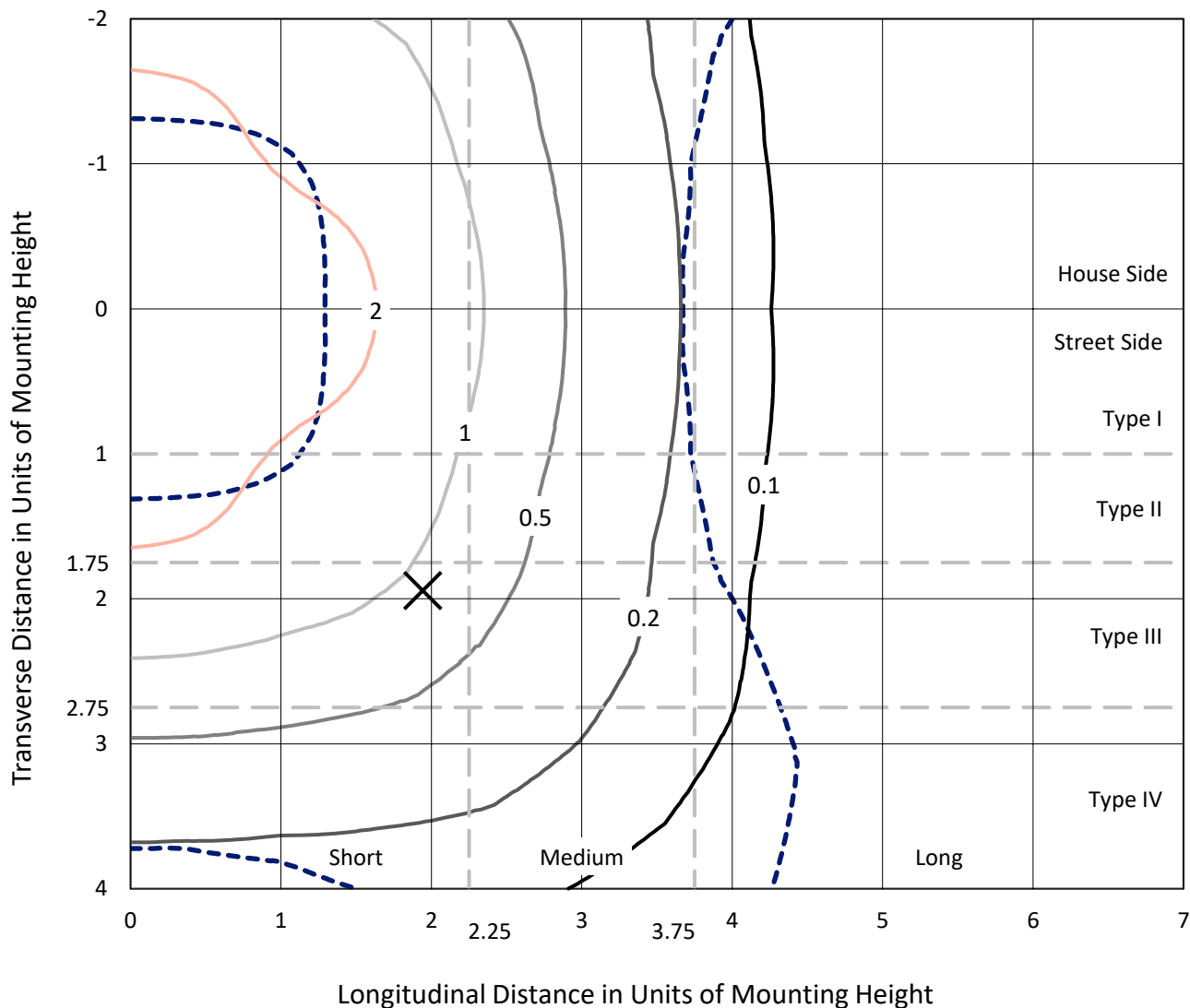
Lumens per Lamp: N/A  
Luminaire Lumens: 51068 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 400.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

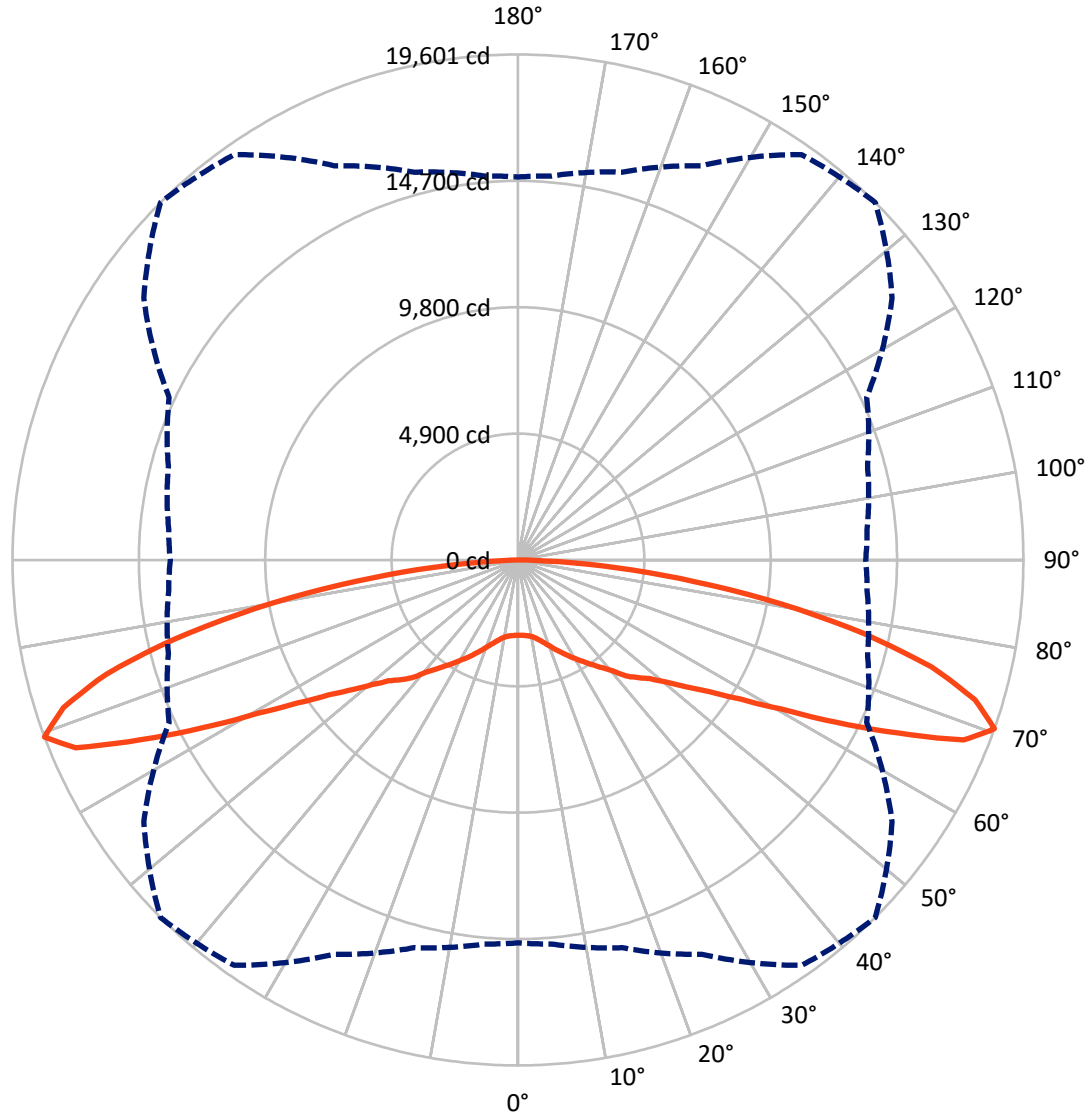
✕ Max cd  
 - - - 1/2 Max cd



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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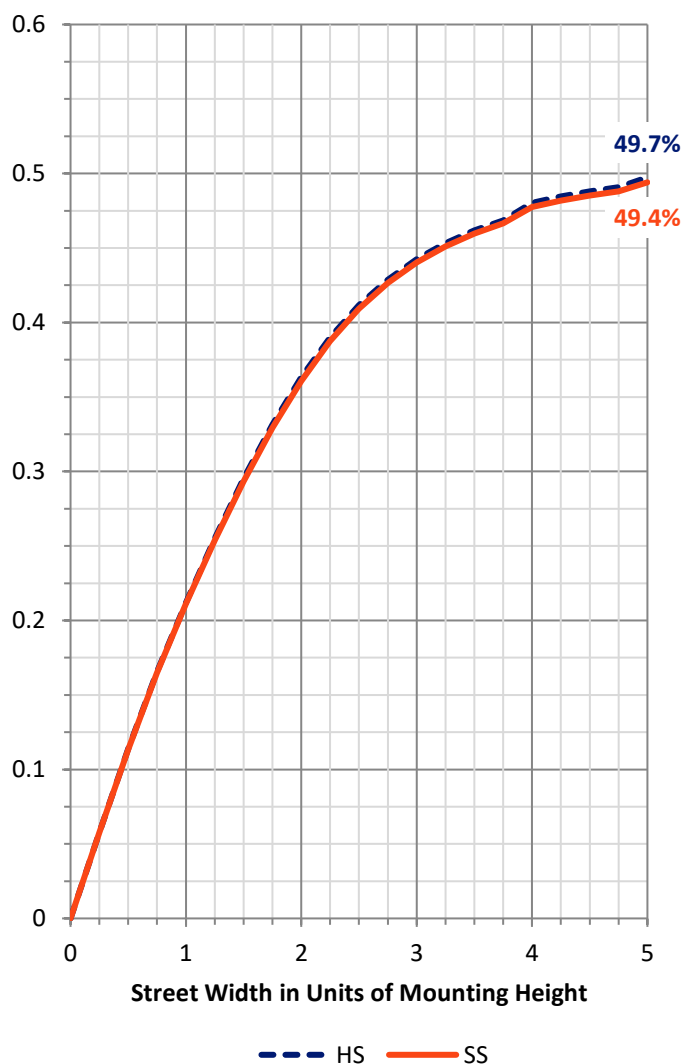
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25534.0	0.0	25534.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25534.0	0.0	25534.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51068.0	0.0	51068.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.7	0.6
10°-20°	923.9	1.8
20°-30°	1829.1	3.6
30°-40°	3164.1	6.2
40°-50°	5264.6	10.3
50°-60°	9182.3	18.0
60°-70°	15200.8	29.8
70°-80°	12739.5	24.9
80°-90°	2480.0	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°	51068.0	100.0
0°-180°	51068.0	100.0

**Coefficient of Utilization**



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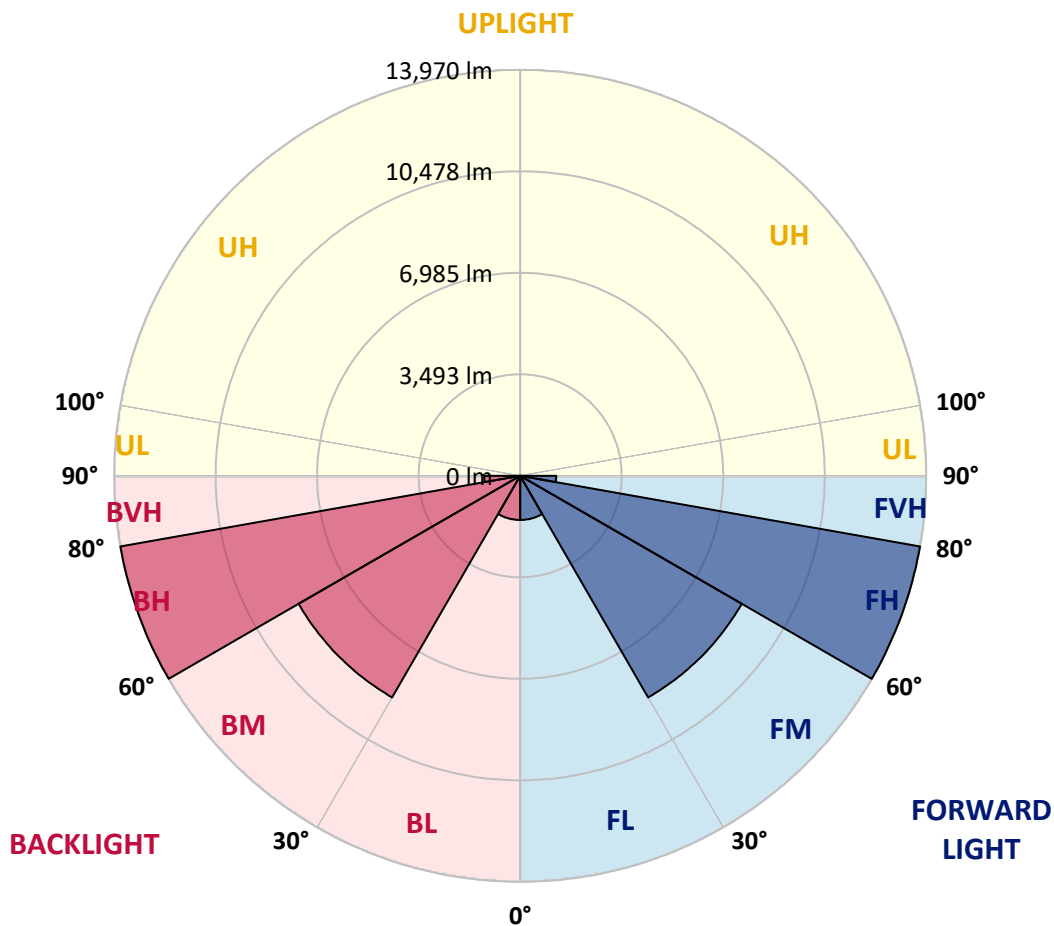
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.4	3.0			
FM (30°-60°)	8805.5	17.2			
FH (60°-80°)	13970.2	27.4			G5
FVH (80°-90°)	1240.0	2.4			G5
BL (0°-30°)	1518.4	3.0	B3/2500		
BM (30°-60°)	8805.5	17.2	B5		
BH (60°-80°)	13970.2	27.4	B5		G5
BVH (80°-90°)	1240.0	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°	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7	2918.7
2.5°	2936.9	2927.8	2924.8	2921.7	2923.8	2922.7	2927.8	2929.8	2931.8	2940.9	2935.9
5°	2955.1	2948.0	2947.0	2943.0	2942.0	2942.0	2949.0	2950.0	2951.1	2957.1	2951.1
7.5°	2988.5	2981.4	2979.4	2977.4	2976.3	2972.3	2977.4	2975.3	2977.4	2980.4	2973.3
10°	3041.1	3033.0	3031.0	3025.9	3028.9	3022.9	3026.9	3021.9	3012.8	3014.8	3004.7
12.5°	3112.9	3105.8	3108.8	3107.8	3120.0	3116.9	3108.8	3098.7	3083.5	3073.4	3062.3
15°	3219.1	3207.9	3216.0	3224.1	3236.3	3241.3	3235.2	3207.9	3185.7	3169.5	3160.4
17.5°	3348.5	3330.3	3346.5	3362.7	3389.0	3394.0	3371.8	3338.4	3314.1	3307.0	3291.9
20°	3499.2	3496.2	3497.2	3523.5	3563.9	3571.0	3541.7	3502.2	3478.0	3479.0	3461.8
22.5°	3681.2	3665.1	3670.1	3696.4	3754.1	3773.3	3724.7	3681.2	3666.1	3670.1	3668.1
25°	3889.6	3874.4	3867.3	3879.5	3954.3	3987.7	3941.2	3890.6	3883.5	3892.6	3878.5
27.5°	4118.1	4104.0	4095.9	4102.0	4160.6	4223.3	4171.7	4129.3	4128.2	4141.4	4133.3
30°	4378.0	4356.8	4347.7	4354.8	4395.2	4455.9	4414.5	4389.2	4410.4	4419.5	4416.5
32.5°	4641.0	4630.9	4627.8	4625.8	4675.4	4709.8	4689.5	4694.6	4711.8	4753.3	4740.1
35°	4940.3	4911.0	4919.1	4925.2	4989.9	4992.9	4995.0	5004.1	5049.6	5108.2	5073.8
37.5°	5251.8	5244.8	5249.8	5232.6	5280.2	5299.4	5327.7	5358.0	5429.8	5497.6	5483.4
40°	5637.2	5624.0	5629.1	5608.8	5632.1	5647.3	5704.9	5770.6	5862.7	5935.5	5902.1
42.5°	6147.9	6114.5	6114.5	6120.6	6169.1	6152.9	6276.3	6294.5	6408.8	6470.5	6451.3
45°	6748.6	6736.5	6672.8	6565.6	6504.9	6503.9	6603.0	6750.6	6939.7	7068.2	7067.2
47.5°	7512.2	7474.7	7322.0	7064.1	6910.4	6873.0	6977.2	7264.4	7612.3	7812.5	7809.5
50°	8513.4	8465.8	8234.2	7833.8	7534.4	7442.4	7609.2	7981.4	8449.7	8716.7	8738.9
52.5°	9633.9	9638.0	9376.0	8770.3	8327.3	8161.4	8338.4	8870.4	9453.9	9820.0	9863.5
55°	10935.5	10904.2	10656.4	9969.7	9359.9	9003.9	9271.9	9976.8	10647.3	10926.4	11003.3
57.5°	12290.7	12168.3	11978.2	11336.0	10623.0	10167.9	10489.5	11179.2	11821.4	12177.4	12165.3
60°	13492.2	13411.2	13302.0	12790.3	12243.2	11723.3	11971.1	12554.7	13104.8	13320.2	13329.3
62.5°	14804.9	14737.1	14639.0	14358.9	14057.5	13864.3	13639.8	13909.8	14339.6	14575.3	14652.1
65°	16093.3	16069.0	16125.7	16083.2	16210.6	16182.3	15644.3	15474.4	15481.4	15414.7	15380.3
67.5°	16017.4	16008.3	16342.1	17007.5	18277.8	18637.8	17257.3	15720.1	15027.4	14851.4	14826.1
70°	14849.4	14947.5	15565.4	16868.0	19185.9	19600.6	17710.4	14920.2	14034.2	13593.3	13484.1
72.5°	12602.2	12794.3	13742.0	15660.4	18431.5	18526.6	16571.7	13716.7	12412.1	11886.2	11808.3
75°	9723.9	9748.2	10718.1	13156.4	16449.3	16568.6	14782.6	11504.9	10221.5	9567.2	9547.0
77.5°	5922.3	6267.2	7682.1	9864.5	13076.5	13697.5	12363.5	9163.7	7637.6	7058.1	6734.4
80°	2905.6	3063.3	4082.7	6236.9	9346.7	10387.4	9174.8	6338.0	4710.8	3975.5	3894.6
82.5°	1322.8	1406.8	1931.6	3260.5	5640.2	6929.6	5662.4	3629.7	2515.2	1967.0	1948.8
85°	513.8	510.7	781.8	1368.3	2700.3	3837.0	2867.1	1731.4	1150.9	855.6	807.0
87.5°	149.7	159.8	229.6	449.0	800.0	1078.1	883.9	598.7	354.0	227.5	209.3
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)