

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: P510802

Luminaire Tested: **CST-CA8-330-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510802  
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-CA8-330-750-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51422 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

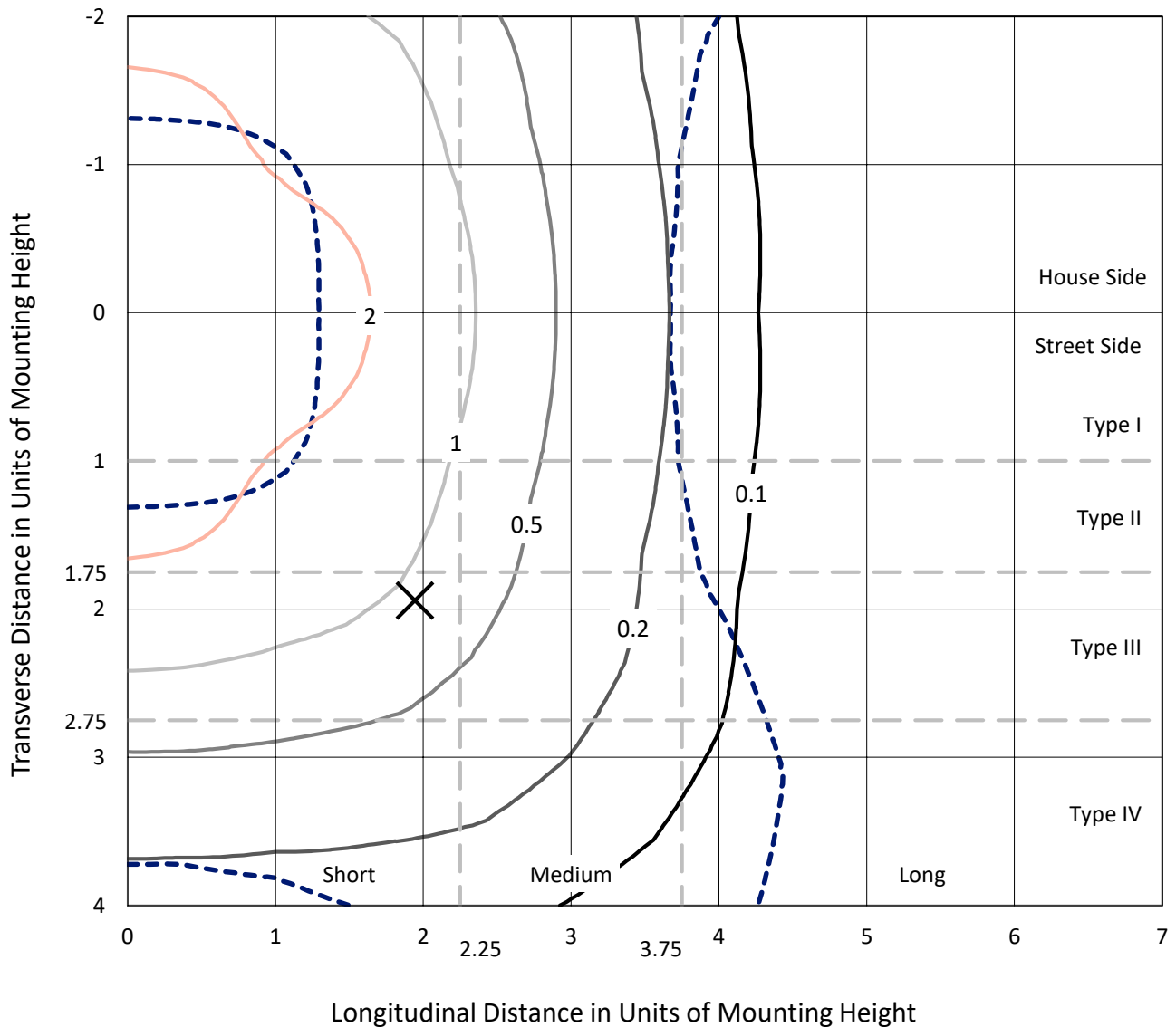
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

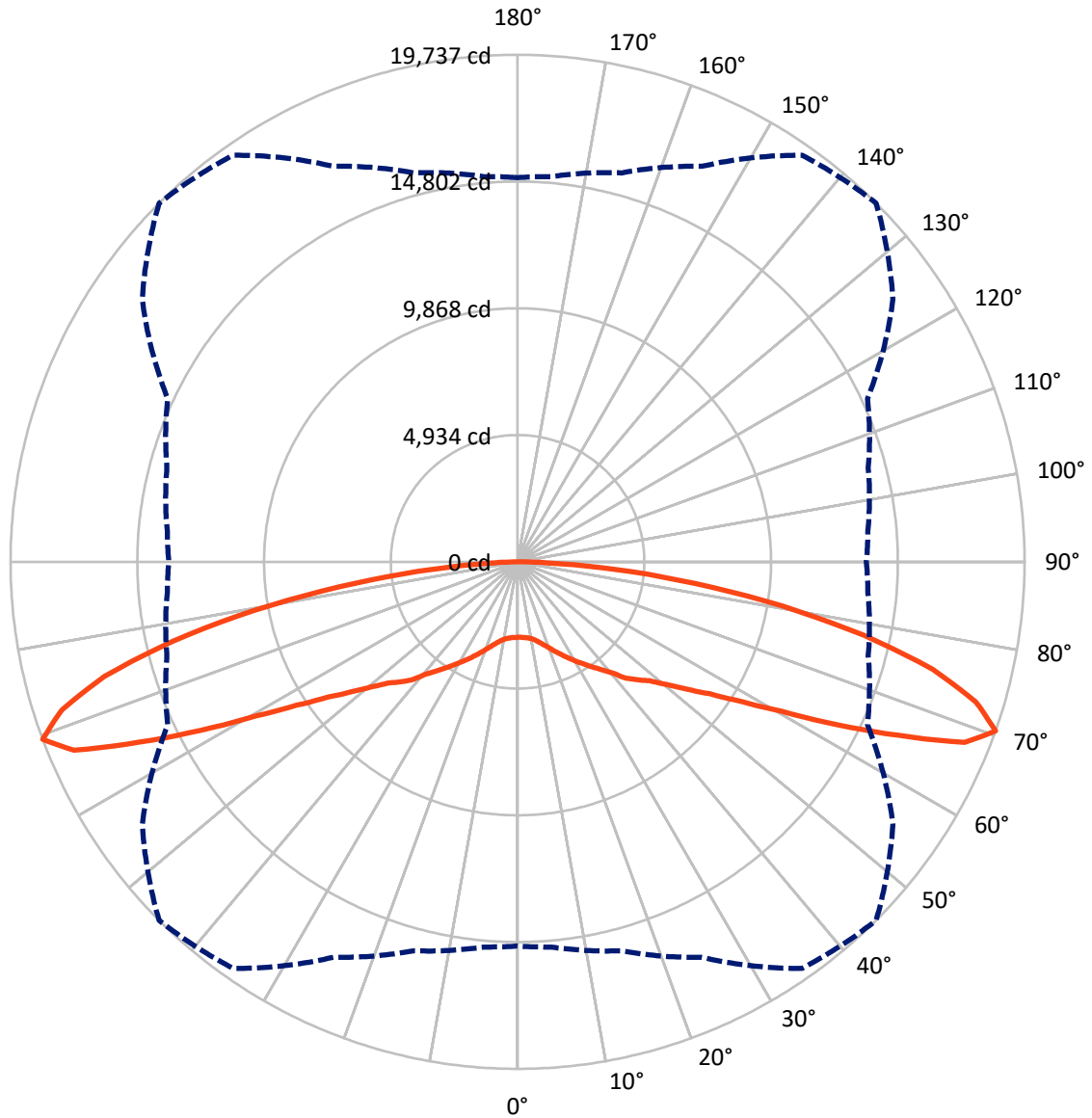
✕ Max cd  
 - - - 1/2 Max cd



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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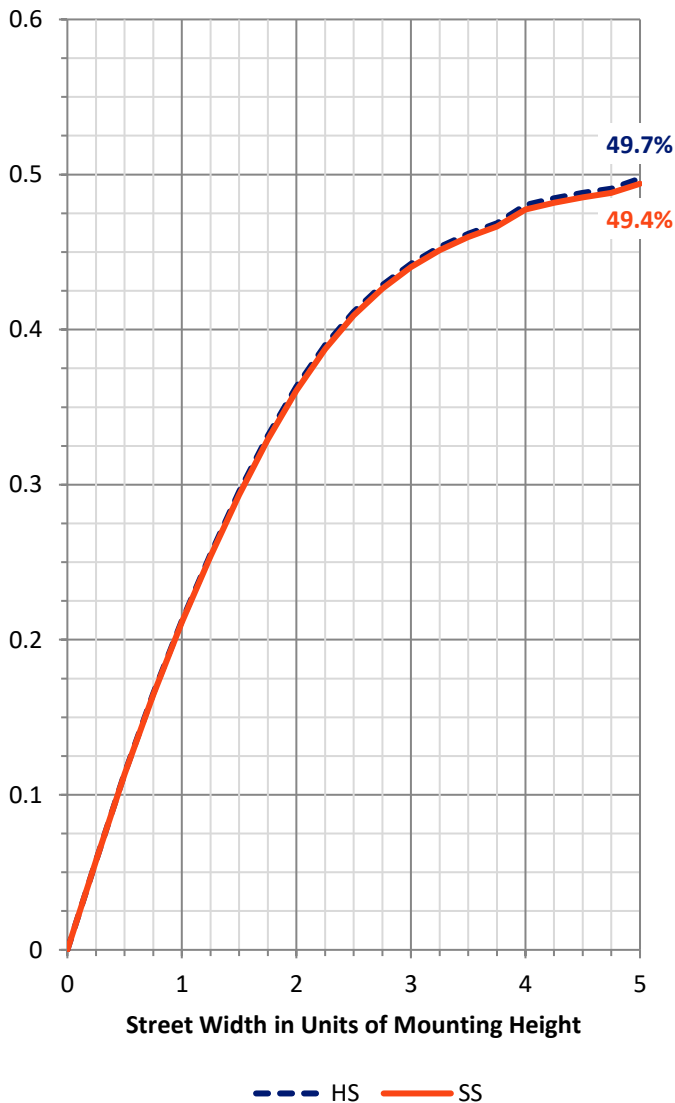
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25711.0	0.0	25711.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25711.0	0.0	25711.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51422.0	0.0	51422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.7	0.6
10°-20°	930.3	1.8
20°-30°	1841.7	3.6
30°-40°	3186.0	6.2
40°-50°	5301.1	10.3
50°-60°	9245.9	18.0
60°-70°	15306.2	29.8
70°-80°	12827.8	24.9
80°-90°	2497.2	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°	51422.0	100.0
0°-180°	51422.0	100.0

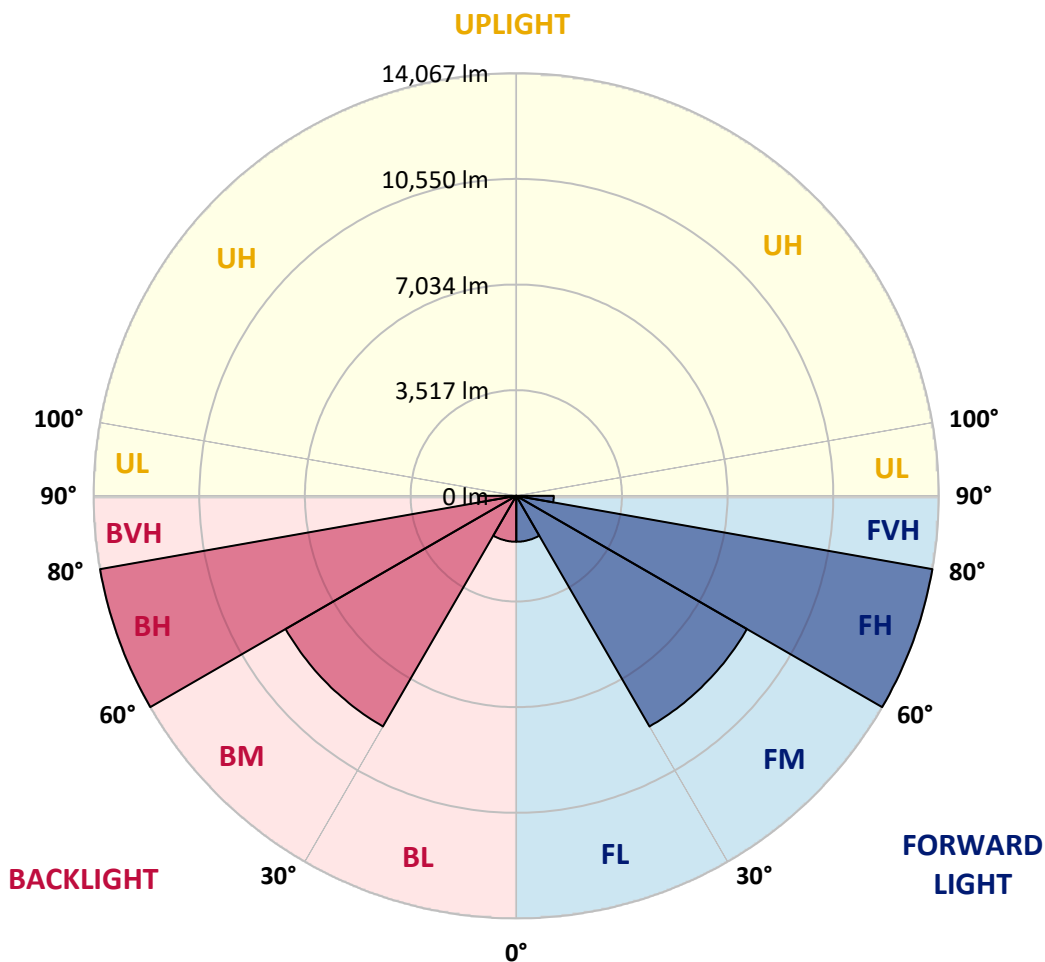


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.9	3.0			
FM (30°-60°)	8866.5	17.2			
FH (60°-80°)	14067.0	27.4			G5
FVH (80°-90°)	1248.6	2.4			G5
BL (0°-30°)	1528.9	3.0	B3/2500		
BM (30°-60°)	8866.5	17.2	B5		
BH (60°-80°)	14067.0	27.4	B5		G5
BVH (80°-90°)	1248.6	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°	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9	2938.9
2.5°	2957.3	2948.1	2945.0	2942.0	2944.0	2943.0	2948.1	2950.1	2952.2	2961.3	2956.2
5°	2975.6	2968.5	2967.4	2963.4	2962.4	2962.4	2969.5	2970.5	2971.5	2977.6	2971.5
7.5°	3009.2	3002.1	3000.0	2998.0	2997.0	2992.9	2998.0	2996.0	2998.0	3001.0	2993.9
10°	3062.1	3054.0	3052.0	3046.9	3049.9	3043.8	3047.9	3042.8	3033.6	3035.7	3025.5
12.5°	3134.5	3127.3	3130.4	3129.4	3141.6	3138.5	3130.4	3120.2	3104.9	3094.7	3083.5
15°	3241.4	3230.2	3238.3	3246.5	3258.7	3263.8	3257.7	3230.2	3207.8	3191.5	3182.3
17.5°	3371.7	3353.4	3369.7	3386.0	3412.5	3417.6	3395.1	3361.5	3337.1	3330.0	3314.7
20°	3523.5	3520.4	3521.4	3547.9	3588.6	3595.8	3566.2	3526.5	3502.1	3503.1	3485.8
22.5°	3706.8	3690.5	3695.6	3722.0	3780.1	3799.4	3750.5	3706.8	3691.5	3695.6	3693.5
25°	3916.5	3901.3	3894.1	3906.4	3981.7	4015.3	3968.5	3917.6	3910.4	3919.6	3905.3
27.5°	4146.7	4132.4	4124.3	4130.4	4189.5	4252.6	4200.7	4157.9	4156.9	4170.1	4162.0
30°	4408.4	4387.0	4377.8	4385.0	4425.7	4486.8	4445.1	4419.6	4441.0	4450.1	4447.1
32.5°	4673.2	4663.0	4659.9	4657.9	4707.8	4742.4	4722.0	4727.1	4744.4	4786.2	4773.0
35°	4974.6	4945.1	4953.2	4959.3	5024.5	5027.5	5029.6	5038.7	5084.6	5143.6	5109.0
37.5°	5288.2	5281.1	5286.2	5268.9	5316.8	5336.1	5364.6	5395.2	5467.5	5535.7	5521.4
40°	5676.2	5663.0	5668.1	5647.7	5671.1	5686.4	5744.5	5810.7	5903.3	5976.6	5943.0
42.5°	6190.5	6156.9	6156.9	6163.0	6211.9	6195.6	6319.8	6338.2	6453.2	6515.3	6496.0
45°	6795.4	6783.2	6719.0	6611.1	6550.0	6548.9	6648.7	6797.4	6987.9	7117.2	7116.2
47.5°	7564.2	7526.6	7372.8	7113.1	6958.3	6920.6	7025.5	7314.7	7665.0	7866.7	7863.6
50°	8572.4	8524.5	8291.3	7888.1	7586.6	7494.0	7662.0	8036.7	8508.2	8777.1	8799.5
52.5°	9700.7	9704.8	9441.0	8831.0	8385.0	8218.0	8396.2	8931.9	9519.4	9888.1	9931.9
55°	11011.3	10979.7	10730.3	10038.8	9424.7	9066.3	9336.1	10045.9	10721.1	11002.2	11079.5
57.5°	12375.9	12252.7	12061.2	11414.6	10696.6	10238.4	10562.2	11256.7	11903.4	12261.8	12249.6
60°	13585.7	13504.2	13394.2	12879.0	12328.0	11804.6	12054.1	12641.7	13195.7	13412.6	13421.7
62.5°	14907.5	14839.3	14740.5	14458.4	14154.9	13960.4	13734.4	14006.3	14439.1	14676.3	14753.7
65°	16204.9	16180.4	16237.4	16194.7	16323.0	16294.5	15752.7	15581.6	15588.8	15521.5	15486.9
67.5°	16128.5	16119.3	16455.4	17125.4	18404.5	18767.0	17377.0	15829.1	15131.5	14954.3	14928.9
70°	14952.3	15051.1	15673.3	16984.9	19318.9	19736.5	17833.2	15023.6	14131.5	13687.5	13577.5
72.5°	12689.5	12883.0	13837.2	15769.0	18559.3	18655.0	16686.5	13811.8	12498.1	11968.6	11890.1
75°	9791.3	9815.8	10792.4	13247.6	16563.3	16683.5	14885.1	11584.6	10292.4	9633.5	9613.1
77.5°	5963.4	6310.7	7735.3	9932.9	13167.1	13792.4	12449.2	9227.2	7690.5	7107.0	6781.1
80°	2925.7	3084.6	4111.0	6280.1	9411.5	10459.4	9238.4	6381.9	4743.4	4003.1	3921.6
82.5°	1332.0	1416.5	1945.0	3283.1	5679.3	6977.7	5701.7	3654.8	2532.6	1980.7	1962.3
85°	517.3	514.3	787.2	1377.8	2719.0	3863.6	2887.0	1743.4	1158.9	861.5	812.6
87.5°	150.7	160.9	231.2	452.1	805.5	1085.6	890.0	602.9	356.4	229.1	210.8
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)