

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: P510812

Luminaire Tested: **CST-CA8-330-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510812
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-CA8-330-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50332 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

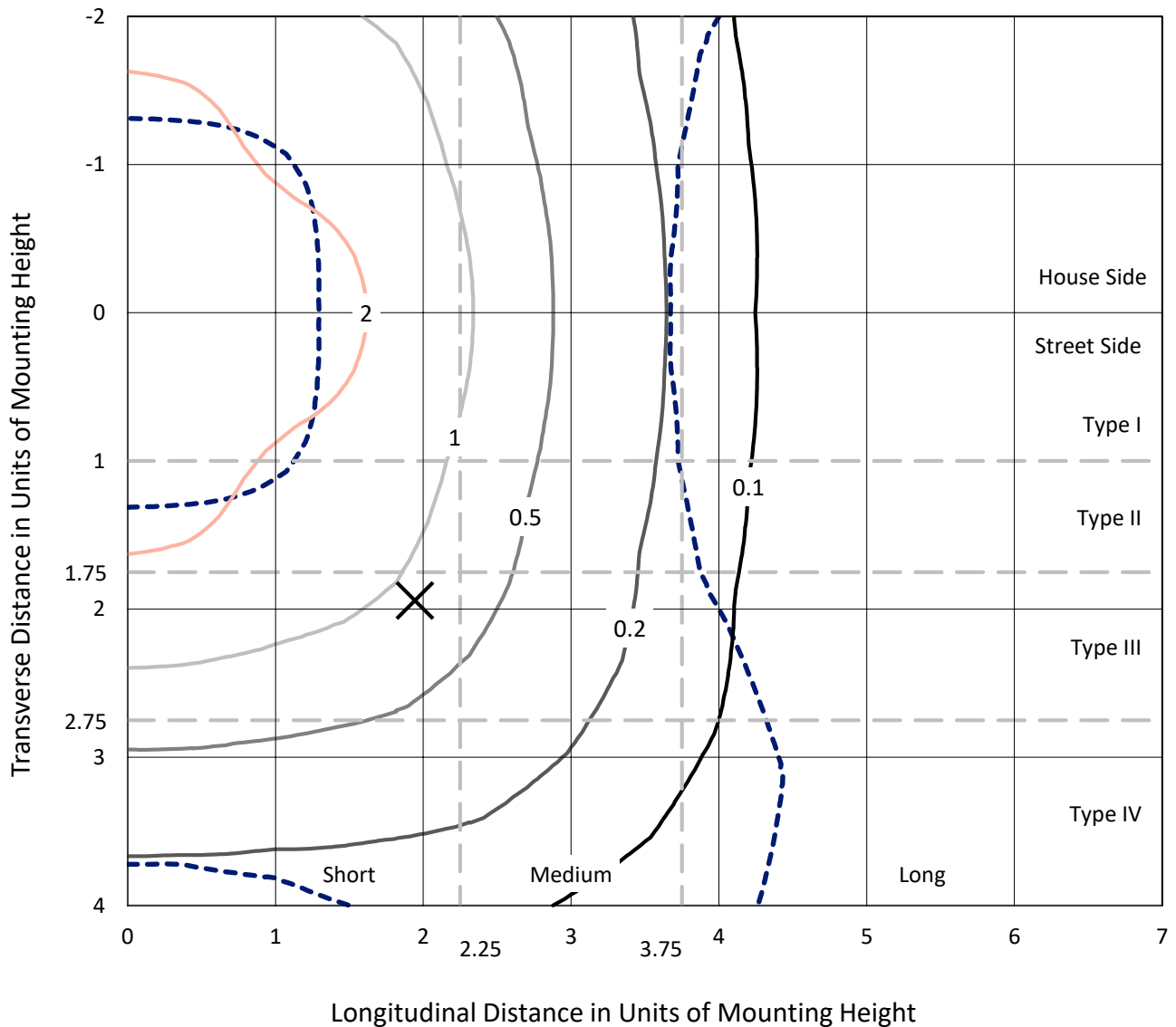
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

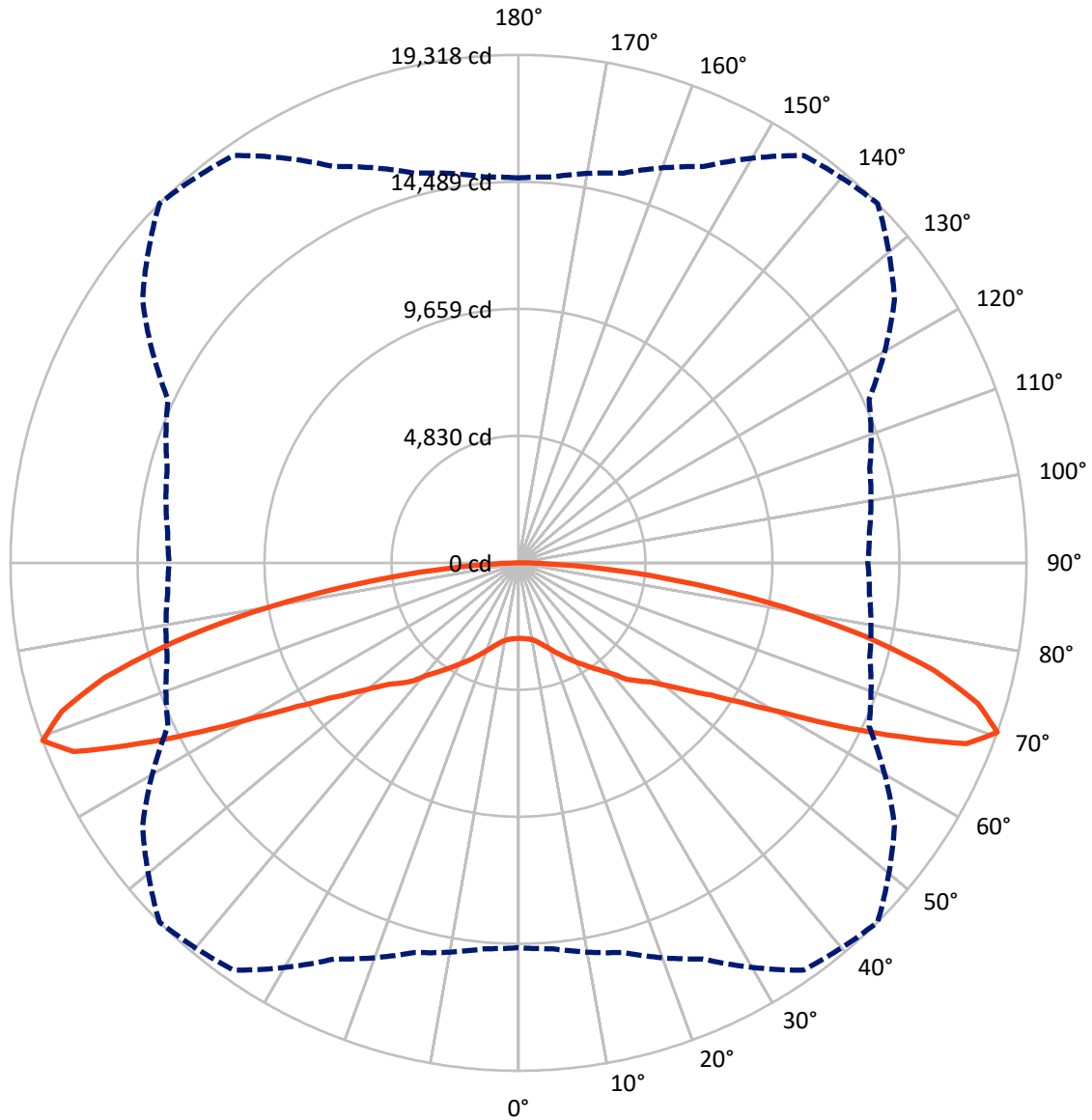
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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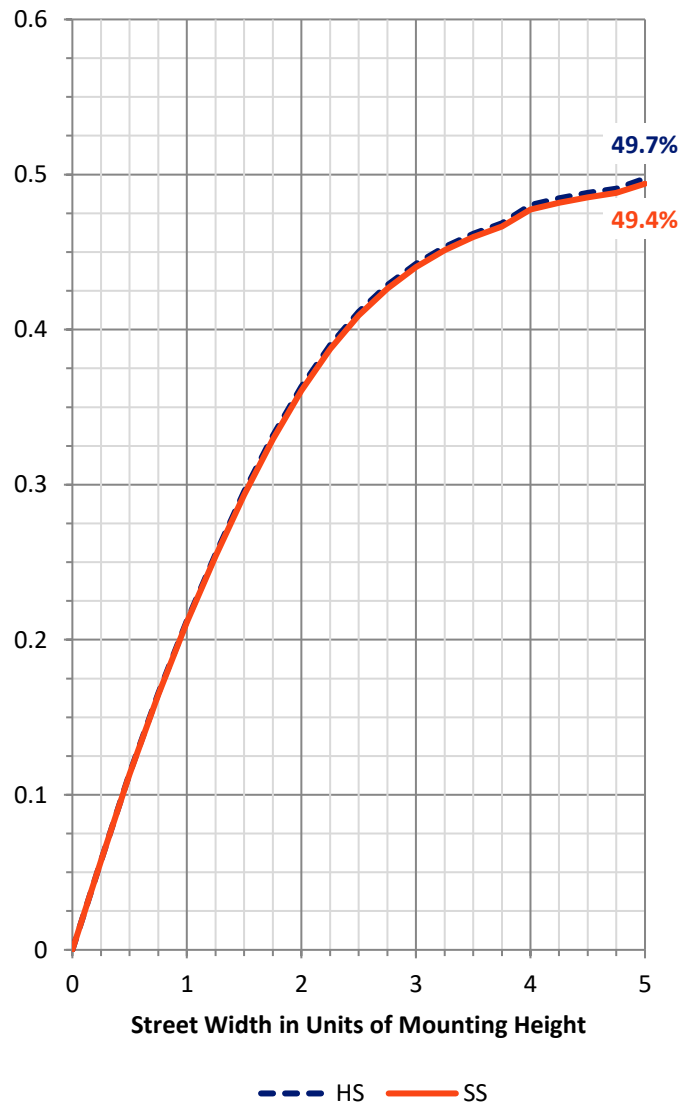
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25166.0	0.0	25166.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25166.0	0.0	25166.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50332.0	0.0	50332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	0.6
10°-20°	910.6	1.8
20°-30°	1802.7	3.6
30°-40°	3118.5	6.2
40°-50°	5188.7	10.3
50°-60°	9050.0	18.0
60°-70°	14981.8	29.8
70°-80°	12555.9	24.9
80°-90°	2444.2	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°	50332.0	100.0
0°-180°	50332.0	100.0

Coefficient of Utilization

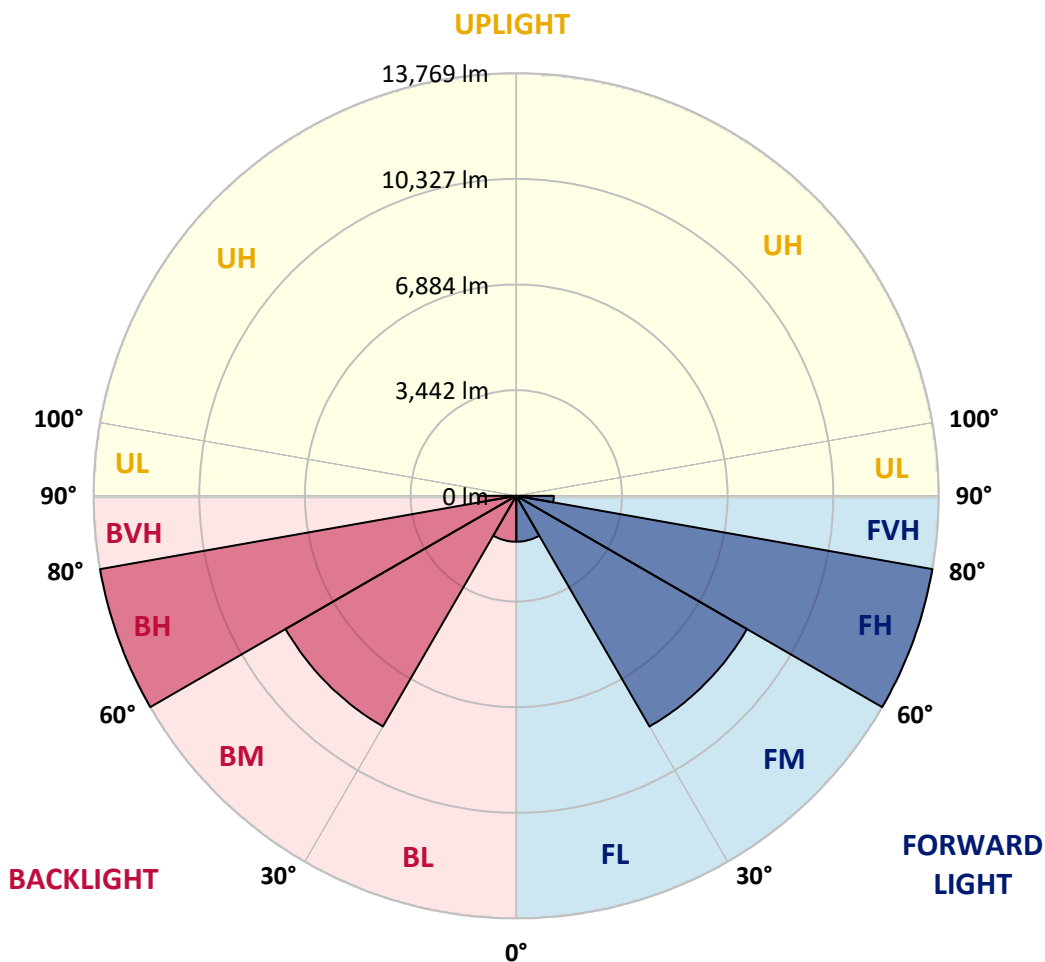


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.5	3.0			
FM (30°-60°)	8678.6	17.2			
FH (60°-80°)	13768.8	27.4			G5
FVH (80°-90°)	1222.1	2.4			G5
BL (0°-30°)	1496.5	3.0	B3/2500		
BM (30°-60°)	8678.6	17.2	B5		
BH (60°-80°)	13768.8	27.4	B5		G5
BVH (80°-90°)	1222.1	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°	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6	2876.6
2.5°	2894.6	2885.6	2882.6	2879.6	2881.6	2880.6	2885.6	2887.6	2889.6	2898.6	2893.6
5°	2912.5	2905.5	2904.5	2900.6	2899.6	2899.6	2906.5	2907.5	2908.5	2914.5	2908.5
7.5°	2945.4	2938.4	2936.4	2934.4	2933.4	2929.5	2934.4	2932.5	2934.4	2937.4	2930.5
10°	2997.2	2989.3	2987.3	2982.3	2985.3	2979.3	2983.3	2978.3	2969.3	2971.3	2961.4
12.5°	3068.0	3061.0	3064.0	3063.0	3075.0	3072.0	3064.0	3054.1	3039.1	3029.1	3018.2
15°	3172.7	3161.7	3169.7	3177.7	3189.6	3194.6	3188.6	3161.7	3139.8	3123.8	3114.9
17.5°	3300.3	3282.3	3298.3	3314.2	3340.1	3345.1	3323.2	3290.3	3266.4	3259.4	3244.4
20°	3448.8	3445.8	3446.8	3472.7	3512.6	3519.5	3490.6	3451.8	3427.8	3428.8	3411.9
22.5°	3628.2	3612.2	3617.2	3643.1	3700.0	3718.9	3671.0	3628.2	3613.2	3617.2	3615.2
25°	3833.5	3818.6	3811.6	3823.6	3897.3	3930.2	3884.4	3834.5	3827.5	3836.5	3822.6
27.5°	4058.8	4044.8	4036.9	4042.8	4100.6	4162.4	4111.6	4069.7	4068.8	4081.7	4073.7
30°	4315.0	4294.0	4285.0	4292.0	4331.9	4391.7	4350.8	4325.9	4346.8	4355.8	4352.8
32.5°	4574.1	4564.1	4561.1	4559.2	4608.0	4641.9	4622.0	4626.9	4643.9	4684.7	4671.8
35°	4869.1	4840.2	4848.2	4854.2	4918.0	4921.0	4923.0	4931.9	4976.8	5034.6	5000.7
37.5°	5176.1	5169.2	5174.2	5157.2	5204.1	5223.0	5250.9	5280.8	5351.6	5418.4	5404.4
40°	5555.9	5543.0	5547.9	5528.0	5550.9	5565.9	5622.7	5687.5	5778.2	5850.0	5817.1
42.5°	6059.3	6026.4	6026.4	6032.4	6080.2	6064.3	6185.9	6203.8	6316.4	6377.2	6358.3
45°	6651.3	6639.4	6576.6	6470.9	6411.1	6410.1	6507.8	6653.3	6839.7	6966.3	6965.3
47.5°	7403.9	7367.0	7216.5	6962.3	6810.8	6773.9	6876.6	7159.7	7502.6	7699.9	7696.9
50°	8390.7	8343.8	8115.6	7720.9	7425.8	7335.1	7499.6	7866.4	8327.9	8591.0	8613.0
52.5°	9495.1	9499.1	9240.9	8643.9	8207.3	8043.8	8218.2	8742.5	9317.7	9678.5	9721.3
55°	10777.9	10747.0	10502.8	9826.0	9225.0	8874.1	9138.2	9833.0	10493.8	10768.9	10844.7
57.5°	12113.6	11993.0	11805.6	11172.6	10469.9	10021.4	10338.3	11018.1	11651.1	12001.9	11990.0
60°	13297.7	13218.0	13110.3	12606.0	12066.7	11554.4	11798.6	12373.7	12915.9	13128.3	13137.2
62.5°	14591.5	14524.7	14428.0	14151.9	13854.9	13664.5	13443.2	13709.4	14133.0	14365.2	14441.0
65°	15861.4	15837.4	15893.3	15851.4	15977.0	15949.1	15418.8	15251.3	15258.3	15192.5	15158.6
67.5°	15786.6	15777.6	16106.6	16762.4	18014.3	18369.2	17008.6	15493.6	14810.8	14637.3	14612.4
70°	14635.3	14732.0	15341.0	16624.9	18909.4	19318.1	17455.2	14705.1	13832.0	13397.4	13289.7
72.5°	12420.6	12609.9	13543.9	15434.7	18165.9	18259.5	16332.8	13519.0	12233.2	11714.9	11638.1
75°	9583.8	9607.7	10563.6	12966.8	16212.2	16329.8	14569.6	11339.1	10074.2	9429.3	9409.4
77.5°	5837.0	6176.9	7571.3	9722.3	12888.0	13500.0	12185.3	9031.6	7527.5	6956.4	6637.4
80°	2863.7	3019.2	4023.9	6147.0	9212.0	10237.7	9042.6	6246.7	4642.9	3918.2	3838.5
82.5°	1303.8	1386.5	1903.8	3213.5	5558.9	6829.8	5580.8	3577.4	2478.9	1938.7	1920.7
85°	506.4	503.4	770.5	1348.6	2661.3	3781.7	2825.8	1706.4	1134.3	843.3	795.4
87.5°	147.5	157.5	226.3	442.6	788.4	1062.5	871.2	590.1	348.9	224.3	206.3
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)