

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: P510753

Luminaire Tested: **CST-CA8-230-760-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510753
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-CA8-230-760-U-T5N
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: 38079 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

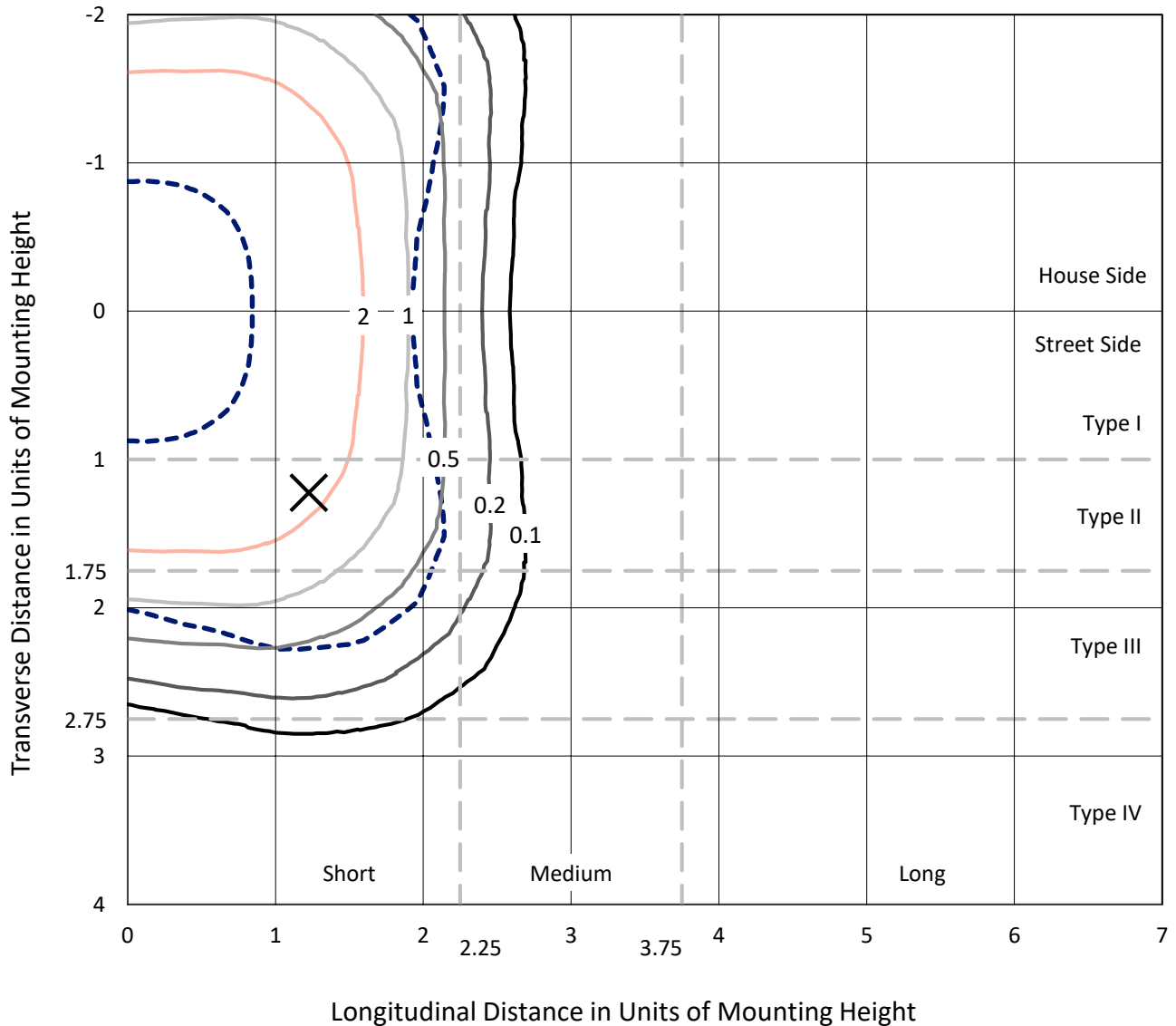
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

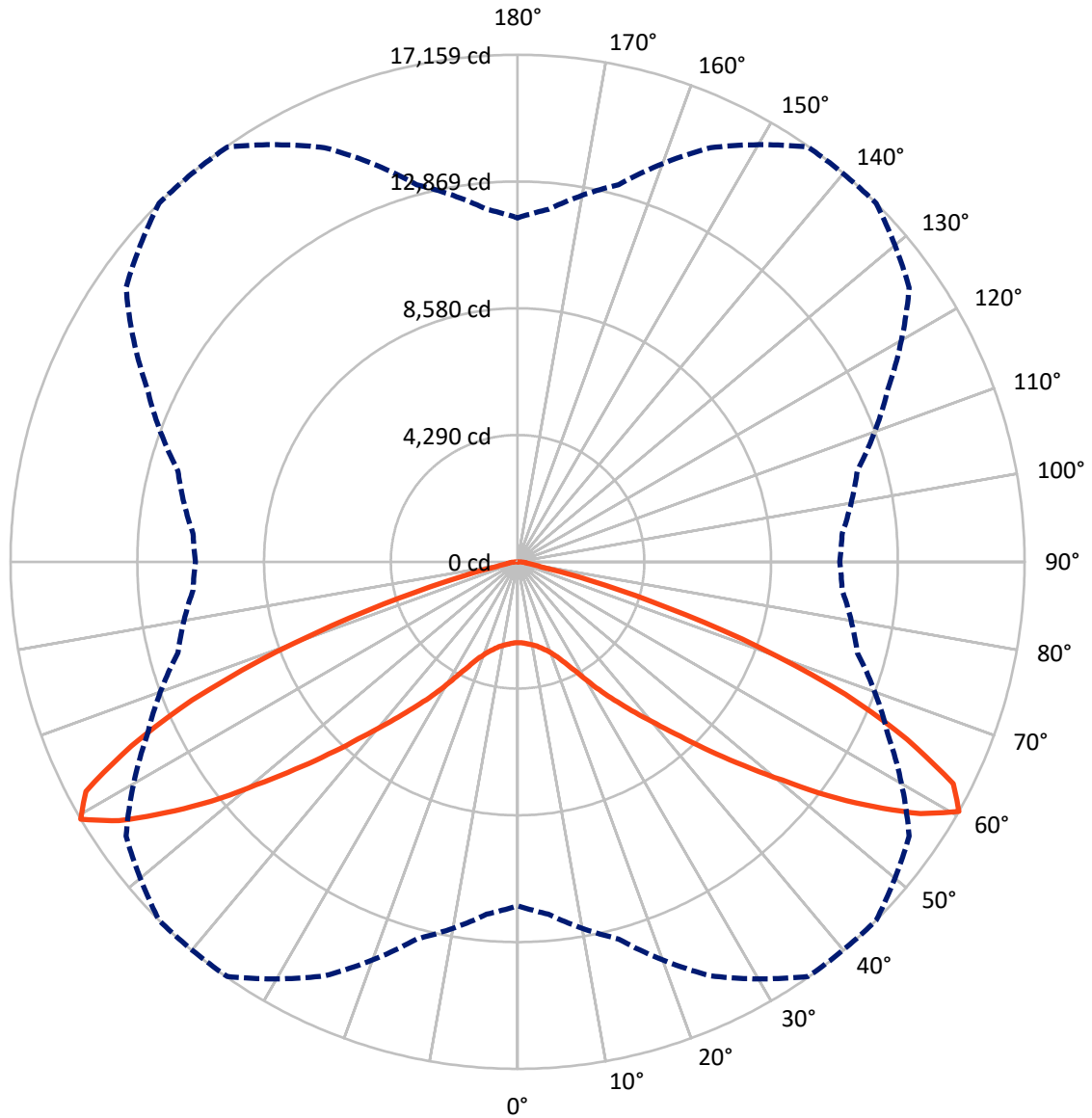
✕ Max cd
 - - - 1/2 Max cd



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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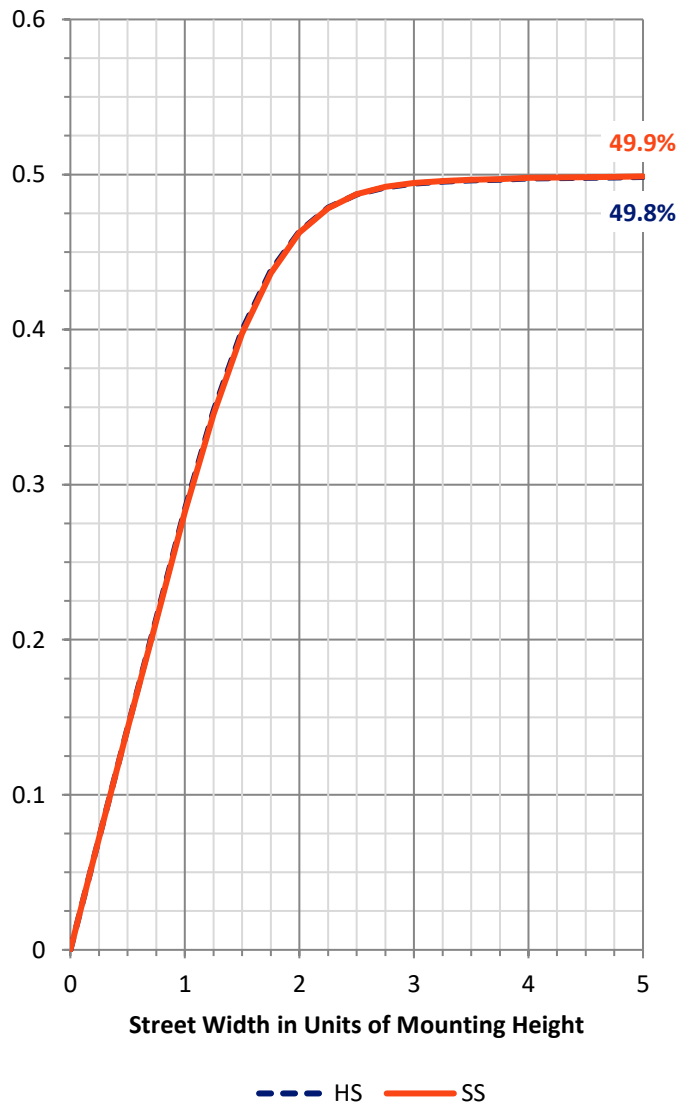
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19039.5	0.0	19039.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19039.5	0.0	19039.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38079.0	0.0	38079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	0.7
10°-20°	872.3	2.3
20°-30°	1852.7	4.9
30°-40°	3928.4	10.3
40°-50°	7470.8	19.6
50°-60°	11852.0	31.1
60°-70°	10018.1	26.3
70°-80°	1648.1	4.3
80°-90°	169.0	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°	38079.0	100.0
0°-180°	38079.0	100.0

Coefficient of Utilization



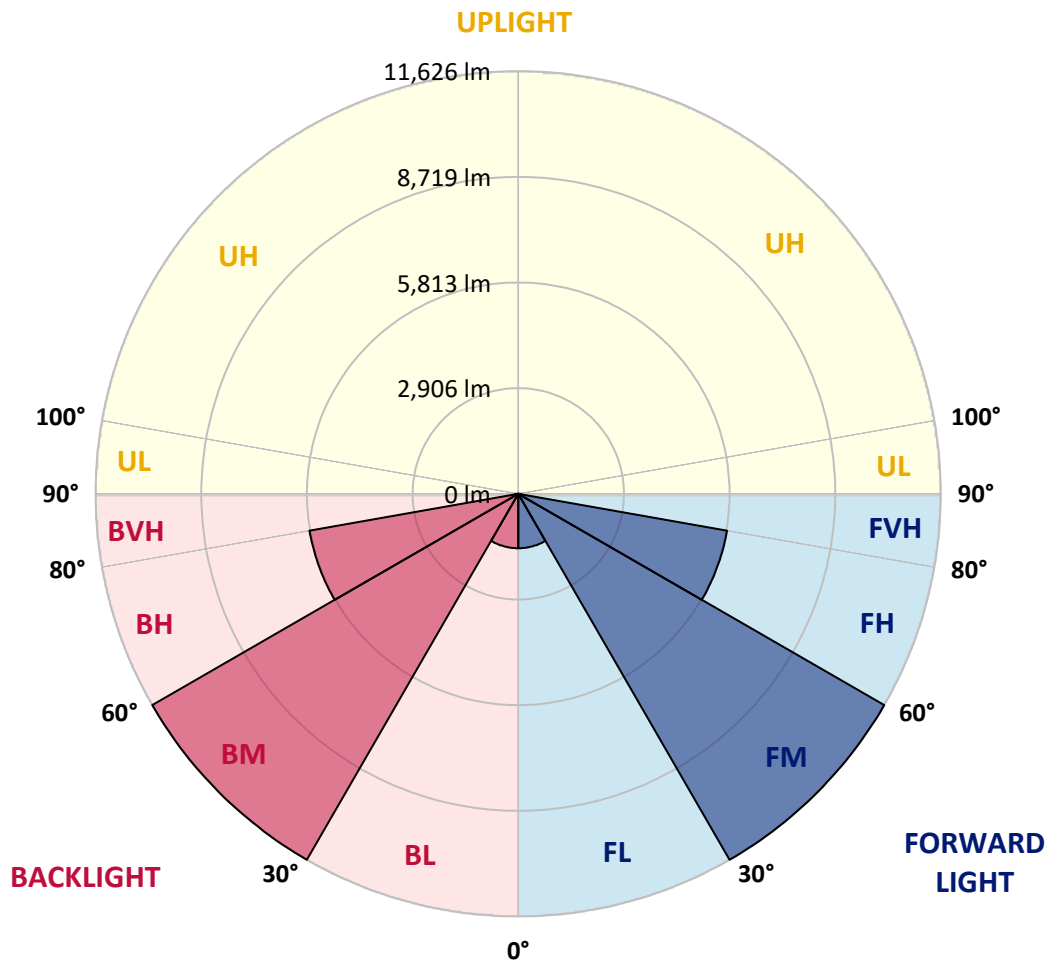
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.3	3.9			
FM (30°-60°)	11625.6	30.5			
FH (60°-80°)	5833.1	15.3			G3/7500
FVH (80°-90°)	84.5	0.2			G1/100
BL (0°-30°)	1496.3	3.9	B3/2500		
BM (30°-60°)	11625.6	30.5	B5		
BH (60°-80°)	5833.1	15.3	B5		G3/7500
BVH (80°-90°)	84.5	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°	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9	2733.9
2.5°	2753.7	2746.9	2744.7	2741.8	2743.3	2744.0	2747.9	2748.3	2748.3	2751.9	2758.0
5°	2784.5	2775.6	2772.3	2768.7	2770.5	2772.3	2775.9	2778.1	2777.7	2779.9	2785.3
7.5°	2817.9	2814.7	2810.7	2808.6	2808.6	2813.6	2811.1	2815.0	2814.7	2817.2	2820.4
10°	2867.4	2860.3	2859.9	2856.0	2857.8	2862.1	2862.8	2862.1	2862.8	2864.2	2871.7
12.5°	2930.2	2928.4	2929.5	2926.3	2925.2	2929.9	2931.0	2935.6	2937.1	2941.4	2946.0
15°	3031.4	3020.0	3018.5	3018.2	3020.3	3027.5	3029.7	3038.3	3042.2	3048.3	3058.7
17.5°	3145.9	3149.9	3142.7	3142.0	3141.6	3147.4	3153.1	3172.1	3178.2	3192.2	3201.2
20°	3328.6	3321.4	3317.1	3299.9	3295.6	3305.6	3326.4	3351.6	3363.4	3385.7	3402.5
22.5°	3572.6	3560.4	3531.0	3510.6	3501.9	3519.2	3541.8	3582.0	3629.7	3657.3	3664.9
25°	3925.4	3877.3	3840.7	3804.5	3791.6	3817.0	3853.6	3917.5	3977.5	4032.7	4058.2
27.5°	4355.0	4324.5	4251.6	4194.6	4172.0	4193.5	4269.6	4359.7	4469.5	4526.9	4535.5
30°	4900.5	4884.7	4791.7	4684.8	4644.6	4681.9	4771.6	4894.4	5047.3	5165.3	5186.2
32.5°	5575.9	5495.9	5366.7	5244.3	5201.2	5246.8	5336.9	5513.1	5719.1	5849.7	5894.2
35°	6350.4	6259.9	6065.8	5877.7	5822.1	5827.8	5972.1	6220.4	6502.2	6684.5	6734.4
37.5°	7204.5	7112.3	6883.3	6591.5	6462.7	6472.4	6661.1	6984.1	7370.3	7569.1	7635.1
40°	8116.0	8020.6	7784.4	7455.7	7244.0	7200.9	7453.2	7846.5	8238.8	8478.5	8504.0
42.5°	9007.1	8894.1	8704.2	8375.5	8182.4	8066.9	8371.6	8727.9	9123.4	9339.5	9356.3
45°	9803.1	9781.2	9628.7	9390.4	9231.4	9129.2	9346.6	9700.5	9976.8	10113.6	10163.4
47.5°	10572.6	10558.9	10510.1	10426.9	10466.3	10296.2	10400.7	10561.1	10712.9	10813.4	10852.1
50°	11246.9	11261.3	11357.1	11498.8	11784.5	11612.2	11579.6	11407.0	11411.3	11419.2	11459.4
52.5°	11803.9	11880.0	12121.1	12548.9	13165.8	13161.9	12667.7	12211.9	12005.9	11914.4	11922.7
55°	12289.4	12419.7	12818.1	13701.3	14584.1	14628.3	13956.1	12946.5	12560.4	12365.2	12390.6
57.5°	12557.5	12756.0	13430.3	14771.1	16029.3	16082.4	15333.8	13760.1	12875.8	12381.7	12402.8
60°	11637.4	11971.5	13214.6	15461.2	17134.7	17159.1	16176.1	13824.0	11900.4	11025.8	10897.7
62.5°	9523.2	9986.2	11740.0	14926.5	16622.5	16546.8	15648.9	12627.1	9775.9	8715.0	8607.3
65°	7153.5	7588.8	9425.2	12780.7	14585.2	14485.4	13571.0	9979.7	7167.2	6041.0	5908.6
67.5°	3871.6	4529.0	6247.4	9762.9	11626.9	11965.4	10698.5	6955.8	4170.9	3023.9	2907.6
70°	1337.2	1728.0	3185.4	6128.6	8386.3	8725.8	7295.6	3730.5	1825.3	1141.2	1024.6
72.5°	474.8	547.3	1197.6	2959.7	4774.5	5290.2	3936.5	1500.5	581.7	423.8	415.2
75°	335.2	346.0	425.6	965.0	2067.1	2531.9	1552.1	498.1	362.8	339.1	337.0
77.5°	299.3	305.4	344.9	393.0	631.6	808.6	477.7	361.4	315.1	301.8	297.2
80°	284.6	289.3	300.7	322.3	358.2	372.5	322.3	309.0	286.7	281.0	279.2
82.5°	248.7	247.6	250.9	259.8	276.0	279.6	258.8	242.2	242.6	235.8	232.6
85°	168.3	178.4	170.8	161.5	200.3	201.3	187.7	140.7	159.7	156.5	143.2
87.5°	51.0	57.4	45.6	31.6	43.4	33.7	30.5	31.6	30.1	26.2	23.7
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)