

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: P510413

Luminaire Tested: **CST-CA10-210-727-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510413
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-CA10-210-727-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31498 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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

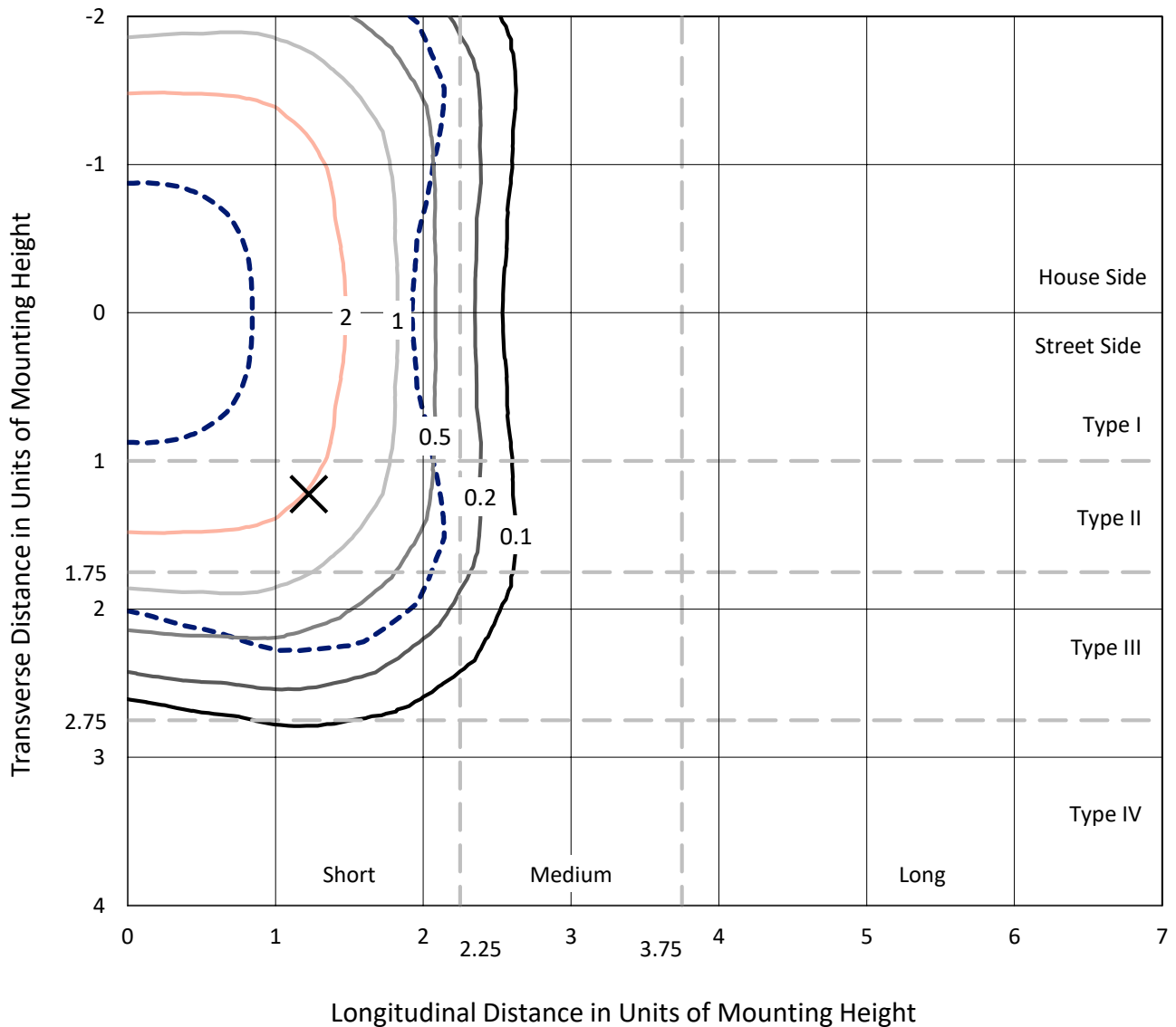




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Iso-Footcandle Lines of Horizontal Illumination

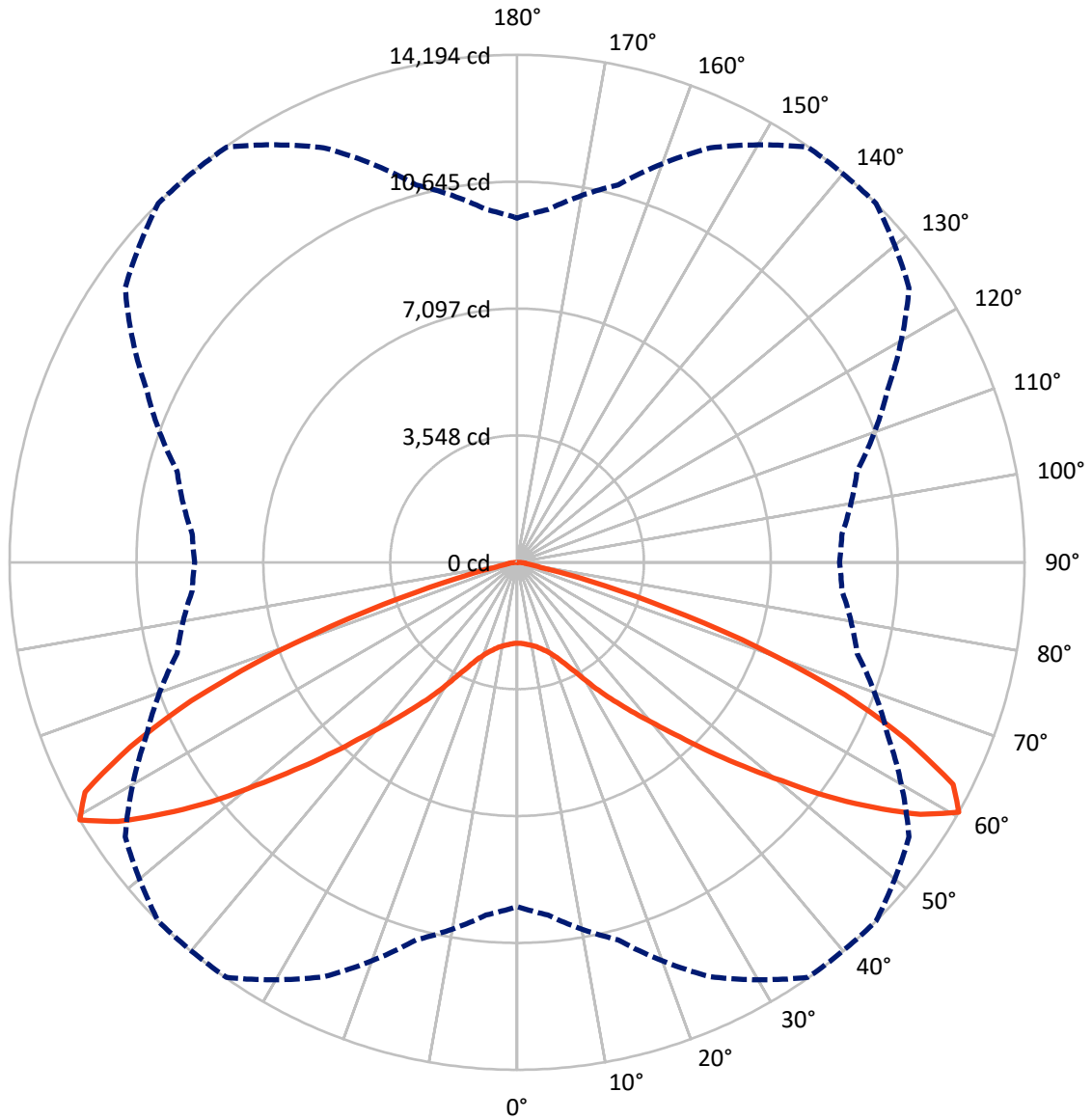
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 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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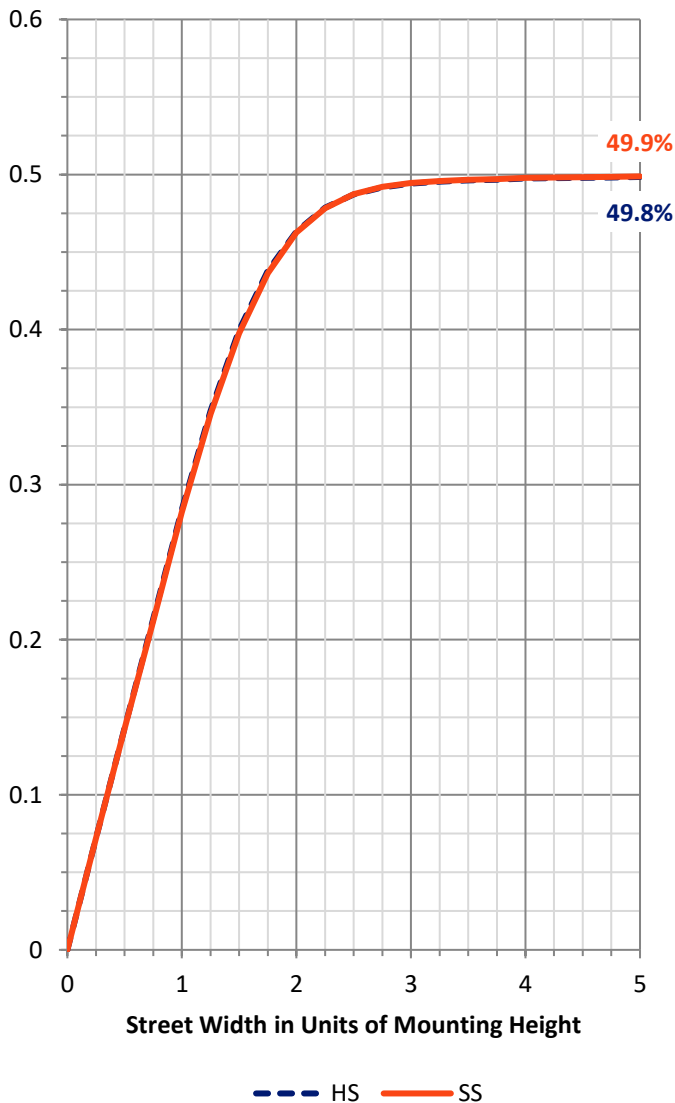
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15749.0	0.0	15749.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15749.0	0.0	15749.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31498.0	0.0	31498.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	0.7
10°-20°	721.6	2.3
20°-30°	1532.5	4.9
30°-40°	3249.5	10.3
40°-50°	6179.6	19.6
50°-60°	9803.7	31.1
60°-70°	8286.7	26.3
70°-80°	1363.3	4.3
80°-90°	139.8	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°	31498.0	100.0
0°-180°	31498.0	100.0

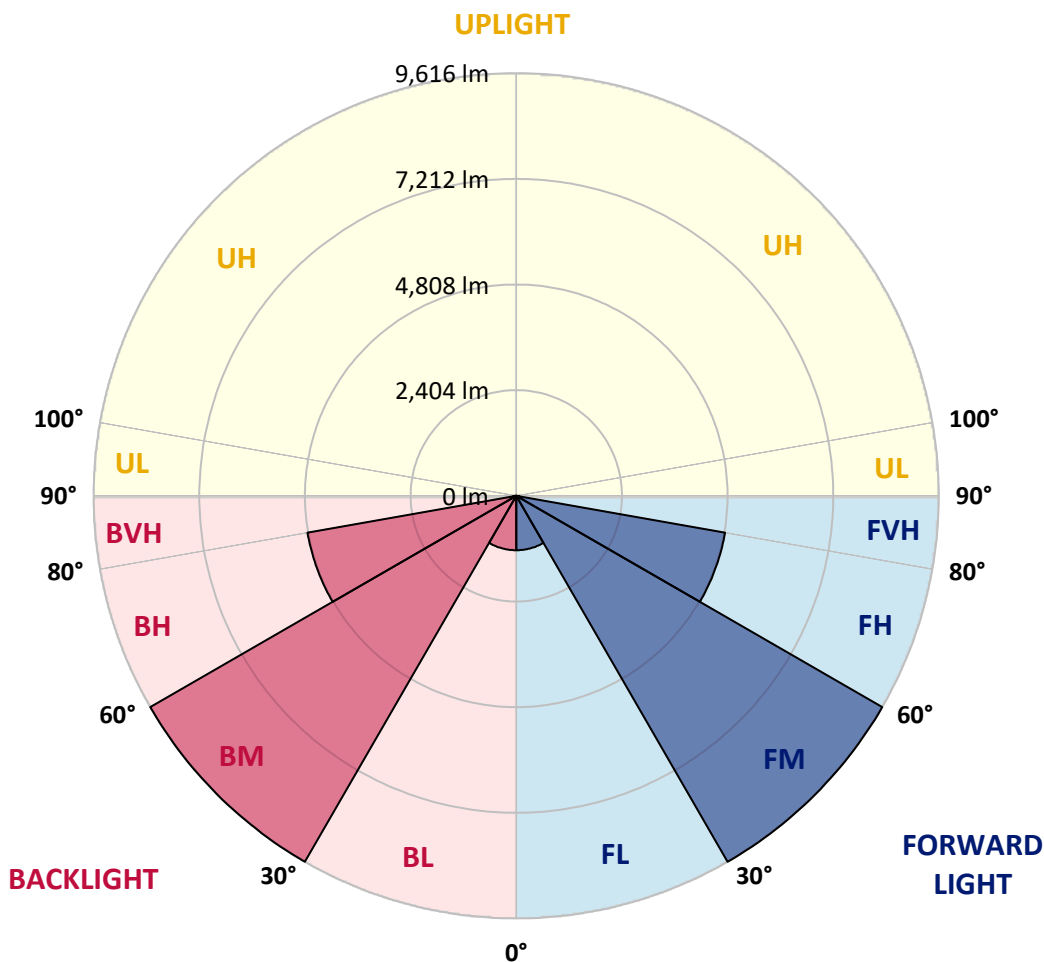


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.7	3.9			
FM (30°-60°)	9616.4	30.5			
FH (60°-80°)	4825.0	15.3			G2/5000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	1237.7	3.9	B3/2500		
BM (30°-60°)	9616.4	30.5	B5		
BH (60°-80°)	4825.0	15.3	B4/5000		G2/5000
BVH (80°-90°)	69.9	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4	2261.4
2.5°	2277.8	2272.1	2270.4	2268.0	2269.2	2269.8	2273.0	2273.3	2273.3	2276.3	2281.3
5°	2303.3	2295.9	2293.2	2290.2	2291.7	2293.2	2296.2	2298.0	2297.7	2299.4	2303.9
7.5°	2330.9	2328.2	2325.0	2323.2	2323.2	2327.3	2325.3	2328.5	2328.2	2330.3	2333.0
10°	2371.9	2365.9	2365.6	2362.4	2363.9	2367.4	2368.0	2367.4	2368.0	2369.2	2375.4
12.5°	2423.8	2422.3	2423.2	2420.6	2419.7	2423.5	2424.4	2428.3	2429.5	2433.0	2436.9
15°	2507.5	2498.0	2496.9	2496.6	2498.3	2504.3	2506.1	2513.2	2516.4	2521.5	2530.1
17.5°	2602.2	2605.5	2599.6	2599.0	2598.7	2603.4	2608.2	2623.9	2629.0	2640.5	2648.0
20°	2753.3	2747.4	2743.8	2729.6	2726.0	2734.3	2751.6	2772.3	2782.1	2800.5	2814.5
22.5°	2955.2	2945.1	2920.8	2903.8	2896.7	2911.0	2929.7	2962.9	3002.4	3025.3	3031.5
25°	3247.0	3207.2	3176.9	3147.0	3136.3	3157.4	3187.6	3240.5	3290.0	3335.8	3356.8
27.5°	3602.3	3577.1	3516.8	3469.6	3450.9	3468.8	3531.7	3606.2	3697.0	3744.5	3751.7
30°	4053.6	4040.5	3963.6	3875.2	3841.9	3872.8	3947.0	4048.5	4175.0	4272.6	4289.9
32.5°	4612.2	4546.0	4439.2	4337.9	4302.3	4340.0	4414.5	4560.3	4730.7	4838.7	4875.6
35°	5252.9	5178.0	5017.5	4861.9	4815.9	4820.6	4940.0	5145.4	5378.4	5529.2	5570.5
37.5°	5959.4	5883.1	5693.7	5452.3	5345.8	5353.8	5509.9	5777.1	6096.5	6261.0	6315.6
40°	6713.4	6634.4	6439.1	6167.2	5992.0	5956.4	6165.1	6490.4	6814.9	7013.2	7034.3
42.5°	7450.5	7357.0	7199.9	6928.0	6768.3	6672.7	6924.7	7219.5	7546.7	7725.4	7739.3
45°	8108.9	8090.8	7964.6	7767.5	7636.0	7551.4	7731.3	8024.0	8252.6	8365.7	8406.9
47.5°	8745.4	8734.1	8693.7	8624.8	8657.5	8516.8	8603.2	8735.9	8861.4	8944.6	8976.6
50°	9303.2	9315.0	9394.3	9511.5	9747.8	9605.4	9578.3	9435.5	9439.1	9445.6	9478.9
52.5°	9763.9	9826.8	10026.3	10380.1	10890.4	10887.2	10478.4	10101.4	9931.0	9855.3	9862.1
55°	10165.5	10273.3	10602.8	11333.3	12063.6	12100.1	11544.1	10709.1	10389.6	10228.2	10249.2
57.5°	10387.3	10551.4	11109.2	12218.3	13259.0	13303.0	12683.7	11382.0	10650.6	10241.8	10259.3
60°	9626.1	9902.5	10930.8	12789.1	14173.4	14193.5	13380.5	11434.9	9843.7	9120.3	9014.3
62.5°	7877.4	8260.3	9711.0	12346.8	13749.7	13687.1	12944.4	10444.9	8086.3	7208.8	7119.8
65°	5917.2	6277.3	7796.3	10571.9	12064.5	11982.0	11225.6	8255.0	5928.5	4997.0	4887.4
67.5°	3202.5	3746.3	5167.7	8075.7	9617.5	9897.5	8849.6	5753.7	3450.1	2501.3	2405.1
70°	1106.1	1429.4	2634.9	5069.4	6936.9	7217.7	6034.8	3085.8	1509.8	944.0	847.5
72.5°	392.7	452.7	990.6	2448.2	3949.4	4375.9	3256.2	1241.2	481.2	350.6	343.5
75°	277.3	286.2	352.1	798.2	1709.9	2094.3	1283.9	412.0	300.1	280.5	278.7
77.5°	247.6	252.6	285.3	325.1	522.5	668.8	395.1	298.9	260.6	249.7	245.8
80°	235.4	239.3	248.8	266.6	296.3	308.1	266.6	255.6	237.2	232.4	231.0
82.5°	205.7	204.8	207.5	214.9	228.3	231.3	214.0	200.4	200.7	195.0	192.4
85°	139.2	147.5	141.3	133.6	165.6	166.5	155.3	116.4	132.1	129.4	118.4
87.5°	42.2	47.5	37.7	26.1	35.9	27.9	25.2	26.1	24.9	21.7	19.6
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)