

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: P510643

Luminaire Tested: **CST-CA6-230-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510643
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-CA6-230-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29927 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

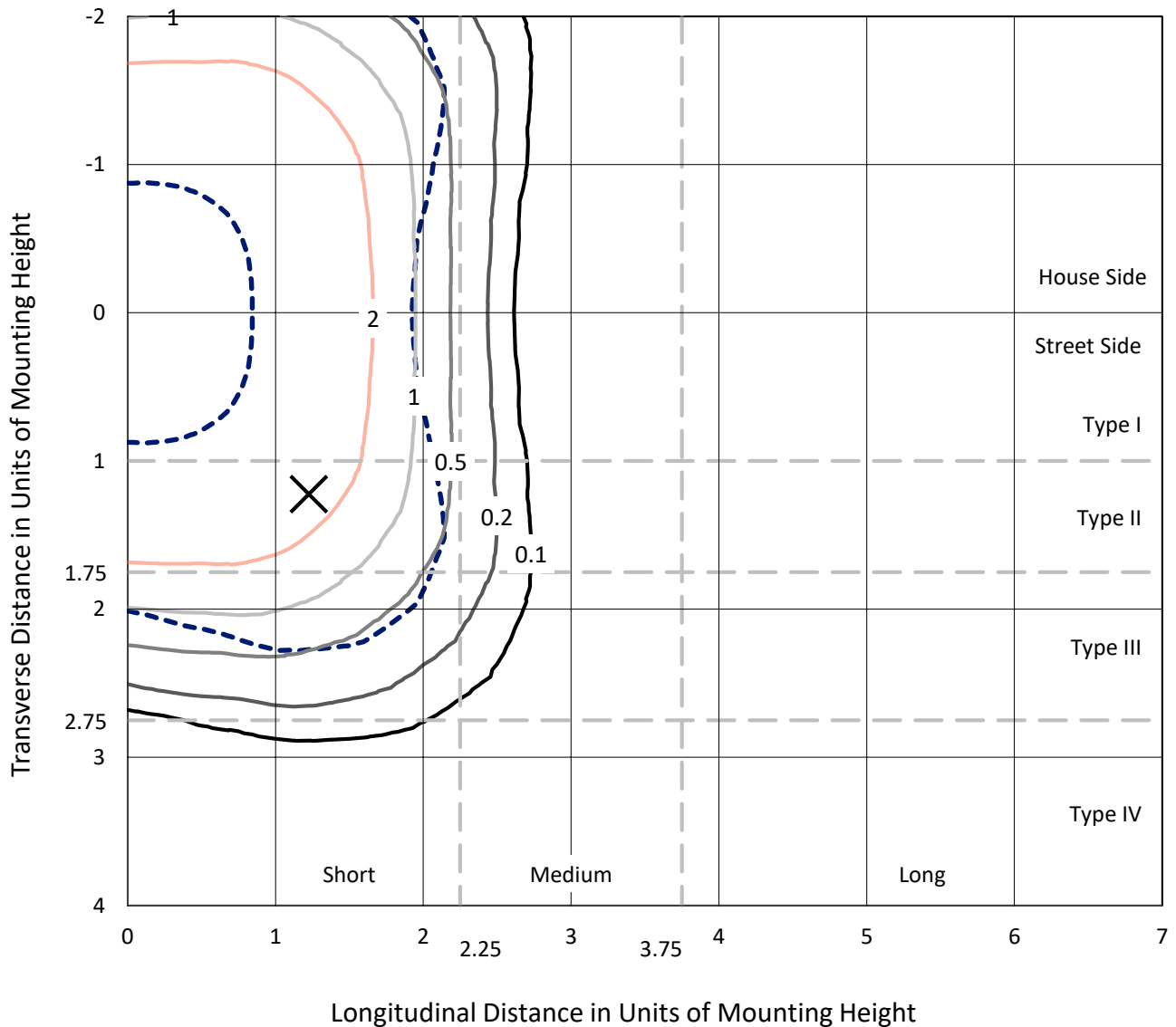
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

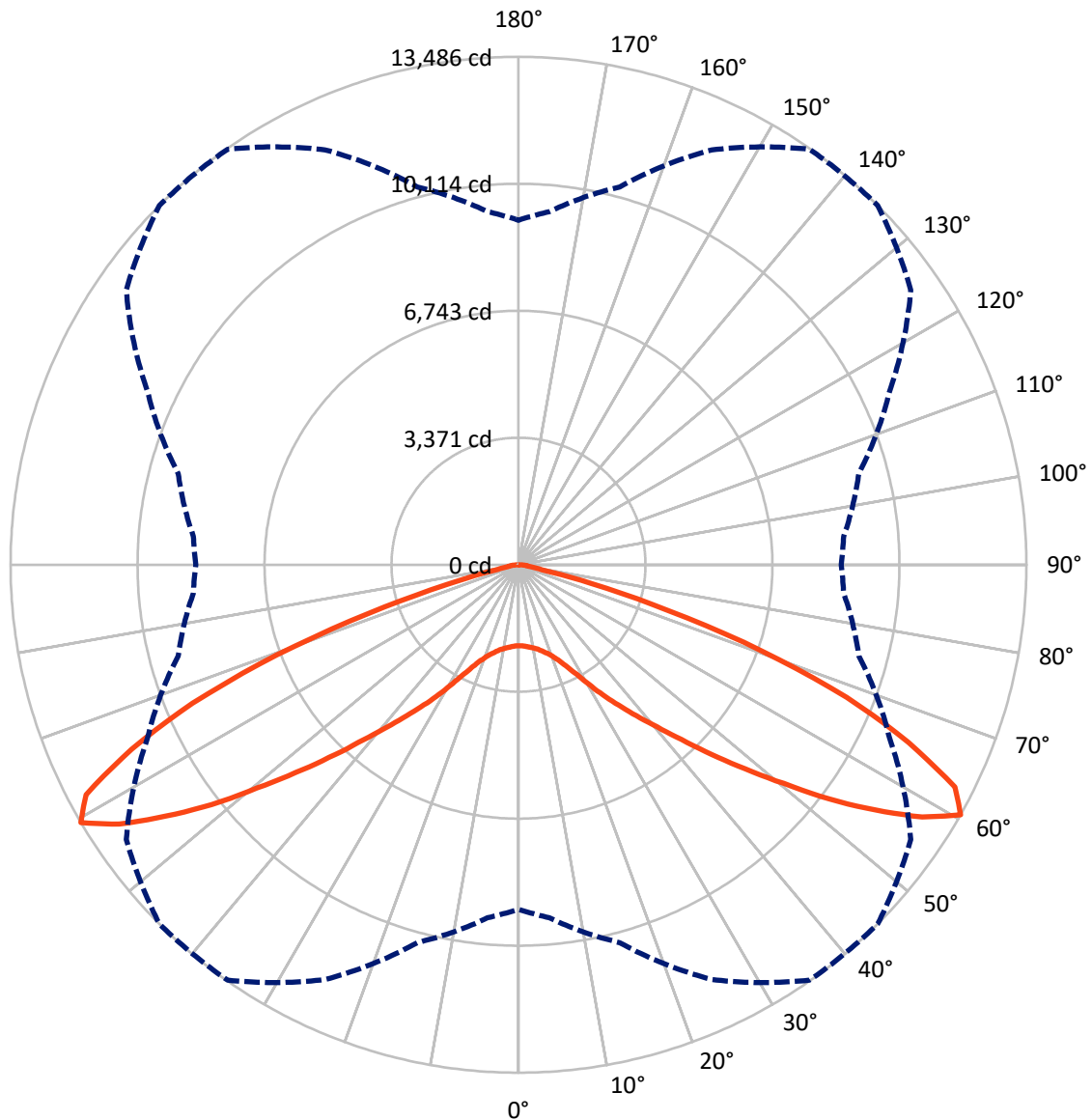
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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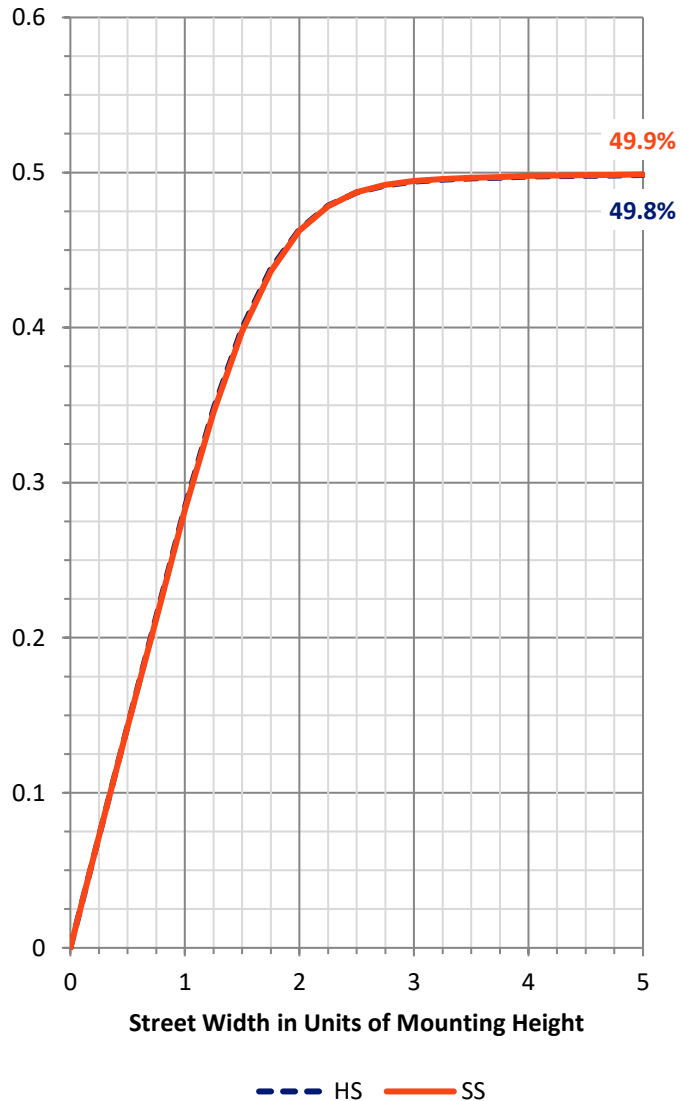
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14963.5	0.0	14963.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14963.5	0.0	14963.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29927.0	0.0	29927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	0.7
10°-20°	685.6	2.3
20°-30°	1456.1	4.9
30°-40°	3087.4	10.3
40°-50°	5871.4	19.6
50°-60°	9314.7	31.1
60°-70°	7873.4	26.3
70°-80°	1295.3	4.3
80°-90°	132.8	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°	29927.0	100.0
0°-180°	29927.0	100.0

Coefficient of Utilization



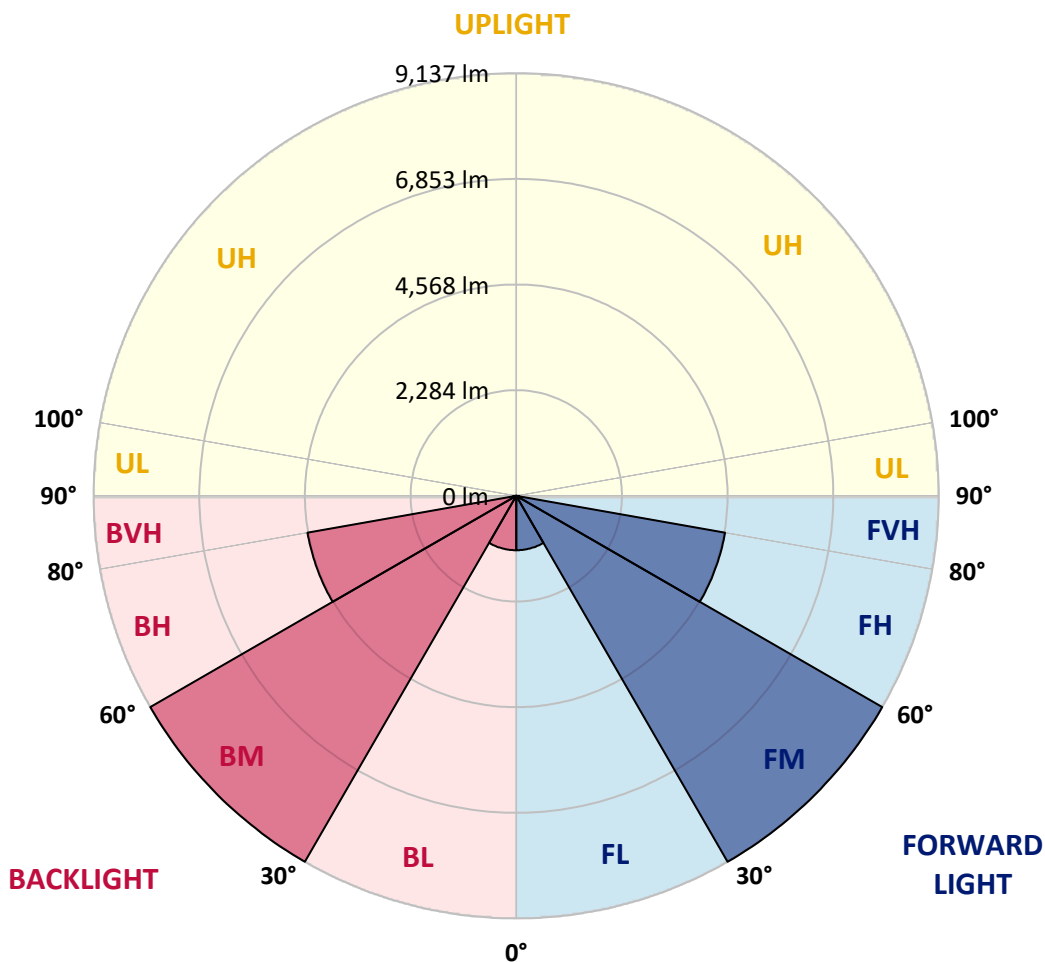
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.0	3.9			
FM (30°-60°)	9136.8	30.5			
FH (60°-80°)	4584.3	15.3			G2/5000
FVH (80°-90°)	66.4	0.2			G1/100
BL (0°-30°)	1176.0	3.9	B3/2500		
BM (30°-60°)	9136.8	30.5	B5		
BH (60°-80°)	4584.3	15.3	B4/5000		G2/5000
BVH (80°-90°)	66.4	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°	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7
2.5°	2164.2	2158.8	2157.1	2154.9	2156.0	2156.5	2159.7	2159.9	2159.9	2162.8	2167.5
5°	2188.4	2181.4	2178.8	2176.0	2177.4	2178.8	2181.7	2183.3	2183.1	2184.8	2189.0
7.5°	2214.7	2212.1	2209.0	2207.3	2207.3	2211.3	2209.3	2212.4	2212.1	2214.1	2216.6
10°	2253.6	2247.9	2247.7	2244.5	2246.0	2249.3	2249.9	2249.3	2249.9	2251.0	2257.0
12.5°	2302.9	2301.5	2302.4	2299.8	2299.0	2302.7	2303.5	2307.2	2308.3	2311.7	2315.3
15°	2382.5	2373.4	2372.3	2372.0	2373.7	2379.4	2381.1	2387.8	2390.9	2395.7	2403.9
17.5°	2472.4	2475.5	2469.9	2469.3	2469.1	2473.6	2478.1	2493.0	2497.8	2508.8	2515.9
20°	2616.0	2610.4	2607.0	2593.4	2590.1	2598.0	2614.3	2634.1	2643.4	2660.9	2674.1
22.5°	2807.8	2798.2	2775.1	2759.0	2752.2	2765.8	2783.5	2815.1	2852.6	2874.4	2880.3
25°	3085.1	3047.3	3018.5	2990.0	2979.9	2999.9	3028.6	3078.9	3126.0	3169.4	3189.4
27.5°	3422.7	3398.7	3341.4	3296.6	3278.8	3295.7	3355.5	3426.3	3512.6	3557.8	3564.5
30°	3851.4	3839.0	3765.9	3681.9	3650.3	3679.6	3750.1	3846.6	3966.7	4059.5	4075.9
32.5°	4382.2	4319.3	4217.8	4121.6	4087.7	4123.6	4194.4	4332.8	4494.7	4597.4	4632.4
35°	4990.9	4919.8	4767.2	4619.4	4575.7	4580.2	4693.6	4888.8	5110.2	5253.5	5292.7
37.5°	5662.1	5589.7	5409.7	5180.4	5079.1	5086.8	5235.1	5489.0	5792.4	5948.7	6000.6
40°	6378.5	6303.5	6117.9	5859.6	5693.2	5659.3	5857.6	6166.7	6475.0	6663.4	6683.4
42.5°	7078.9	6990.0	6840.8	6582.5	6430.7	6339.9	6579.4	6859.4	7170.3	7340.1	7353.3
45°	7704.5	7687.3	7567.4	7380.1	7255.2	7174.8	7345.7	7623.8	7841.0	7948.4	7987.6
47.5°	8309.2	8298.5	8260.1	8194.7	8225.7	8092.0	8174.1	8300.2	8419.5	8498.4	8528.9
50°	8839.1	8850.4	8925.7	9037.1	9261.7	9126.3	9100.6	8964.9	8968.3	8974.5	9006.1
52.5°	9276.9	9336.7	9526.2	9862.4	10347.3	10344.2	9955.8	9597.6	9435.7	9363.8	9370.2
55°	9658.5	9760.9	10074.0	10768.1	11461.9	11496.6	10968.3	10174.9	9871.4	9718.0	9738.0
57.5°	9869.2	10025.2	10555.1	11608.9	12597.7	12639.5	12051.1	10814.3	10119.4	9731.0	9747.6
60°	9146.0	9408.6	10385.6	12151.3	13466.4	13485.6	12713.1	10864.5	9352.8	8665.4	8564.7
62.5°	7484.5	7848.3	9226.7	11731.0	13064.0	13004.5	12298.8	9923.9	7683.0	6849.3	6764.7
65°	5622.1	5964.2	7407.5	10044.6	11462.8	11384.4	10665.7	7843.2	5632.8	4747.7	4643.7
67.5°	3042.7	3559.5	4909.9	7672.9	9137.8	9403.8	8408.2	5466.7	3278.0	2376.5	2285.2
70°	1050.9	1358.1	2503.5	4816.6	6590.9	6857.7	5733.8	2931.9	1434.5	896.9	805.3
72.5°	373.2	430.1	941.2	2326.1	3752.4	4157.7	3093.8	1179.2	457.2	333.1	326.3
75°	263.4	271.9	334.5	758.4	1624.6	1989.9	1219.9	391.5	285.2	266.5	264.8
77.5°	235.2	240.0	271.0	308.8	496.4	635.5	375.4	284.0	247.6	237.2	233.5
80°	223.7	227.3	236.4	253.3	281.5	292.8	253.3	242.8	225.4	220.8	219.4
82.5°	195.5	194.6	197.2	204.2	216.9	219.7	203.4	190.4	190.7	185.3	182.8
85°	132.3	140.2	134.3	126.9	157.4	158.2	147.5	110.6	125.5	123.0	112.5
87.5°	40.1	45.1	35.8	24.8	34.1	26.5	24.0	24.8	23.7	20.6	18.6
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)