

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: P510403

Luminaire Tested: **CST-CA10-210-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510403
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-CA10-210-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30315 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

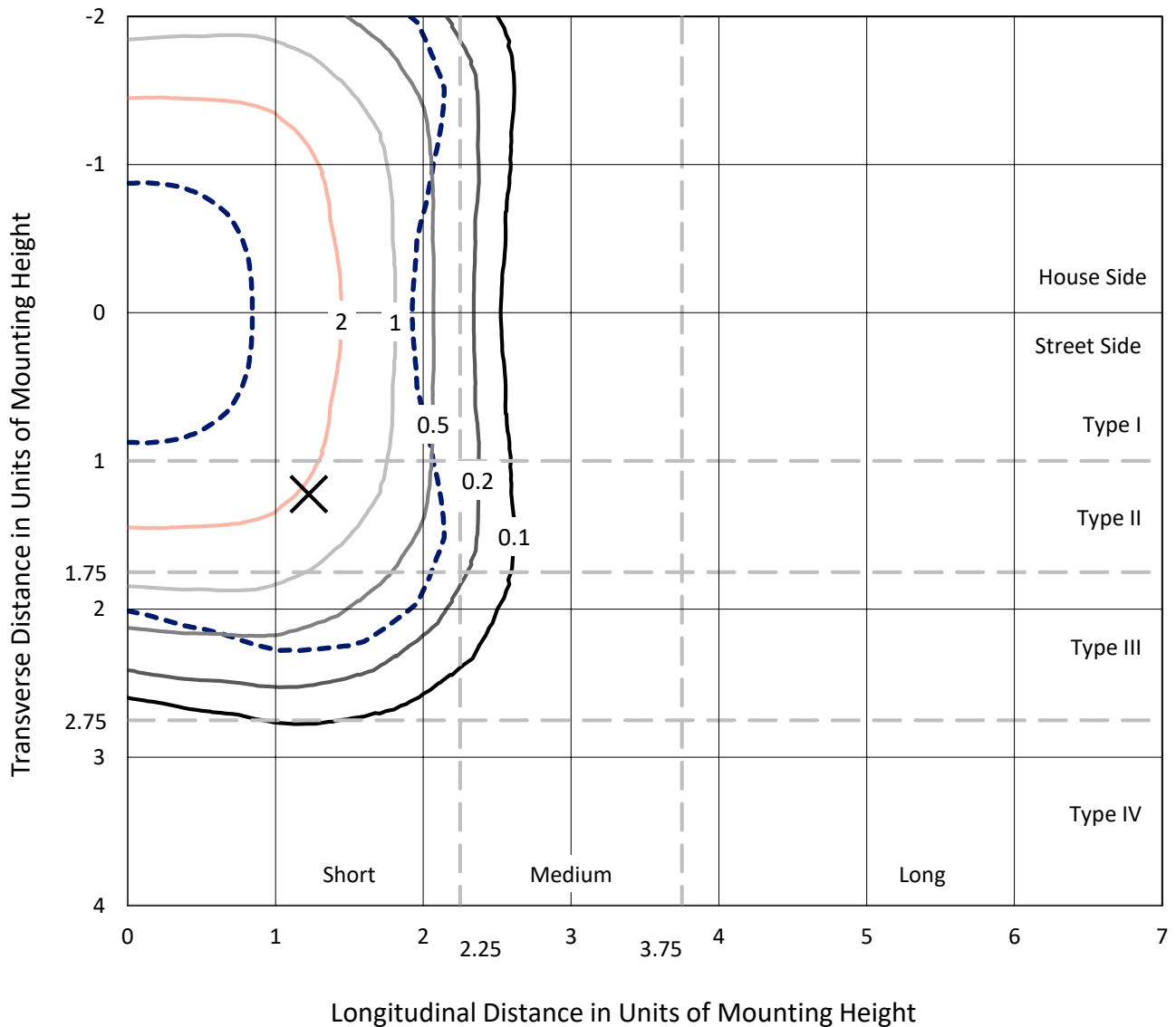
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

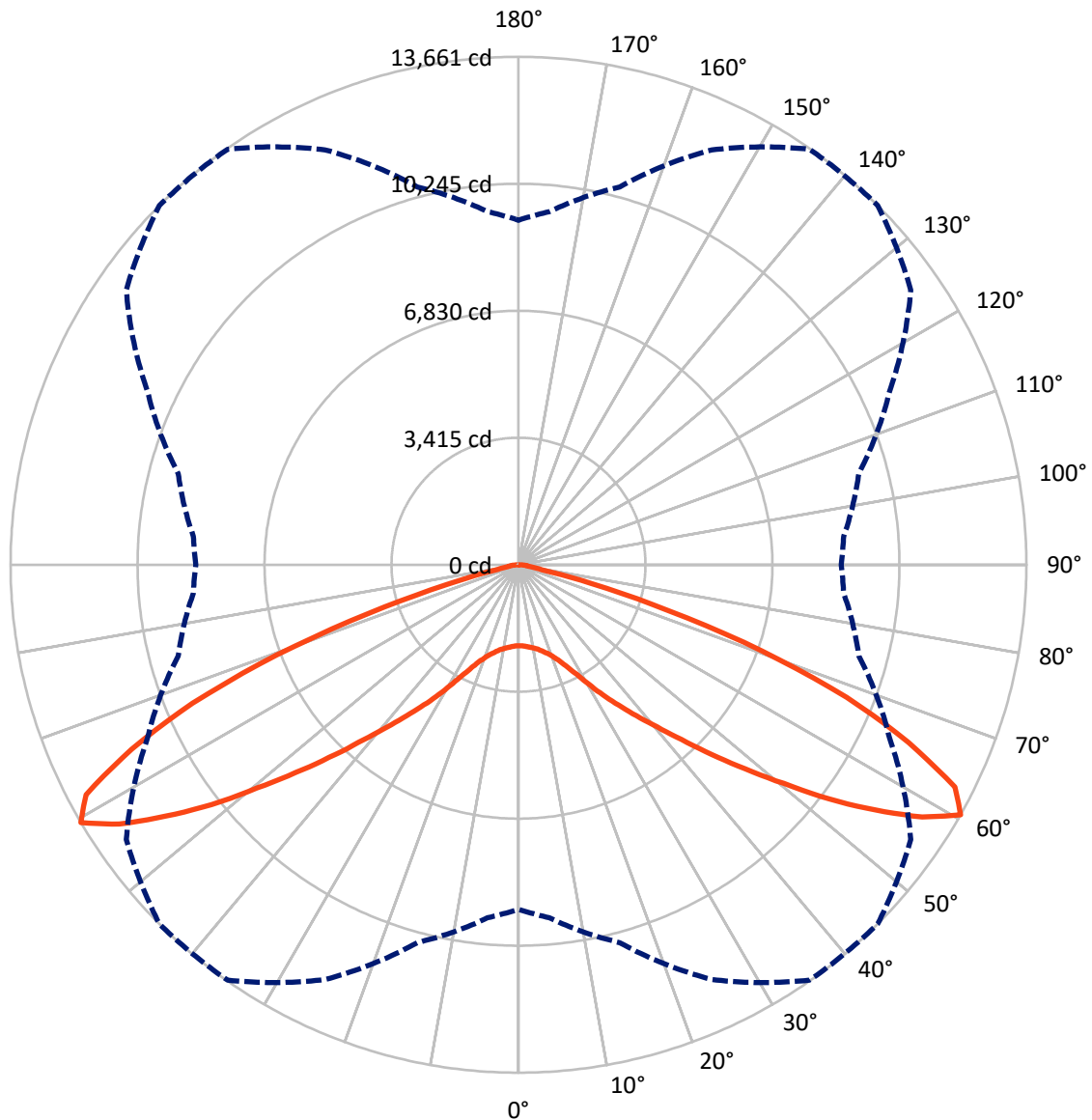
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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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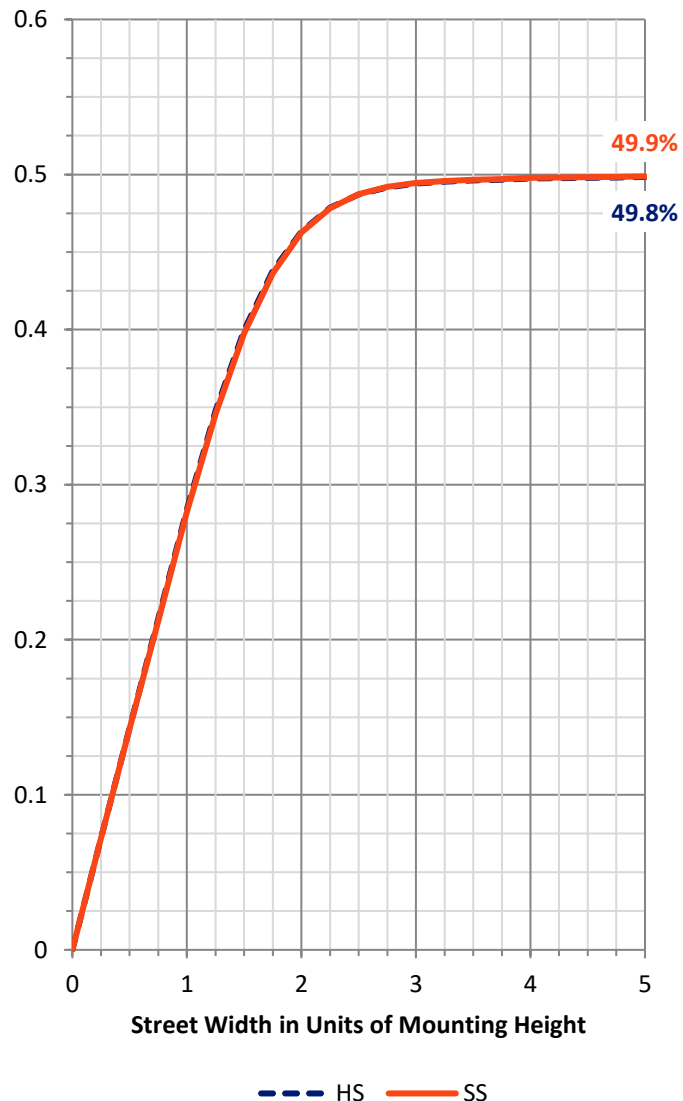
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15157.5	0.0	15157.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15157.5	0.0	15157.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30315.0	0.0	30315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	0.7
10°-20°	694.5	2.3
20°-30°	1475.0	4.9
30°-40°	3127.4	10.3
40°-50°	5947.5	19.6
50°-60°	9435.5	31.1
60°-70°	7975.5	26.3
70°-80°	1312.1	4.3
80°-90°	134.5	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°	30315.0	100.0
0°-180°	30315.0	100.0

Coefficient of Utilization



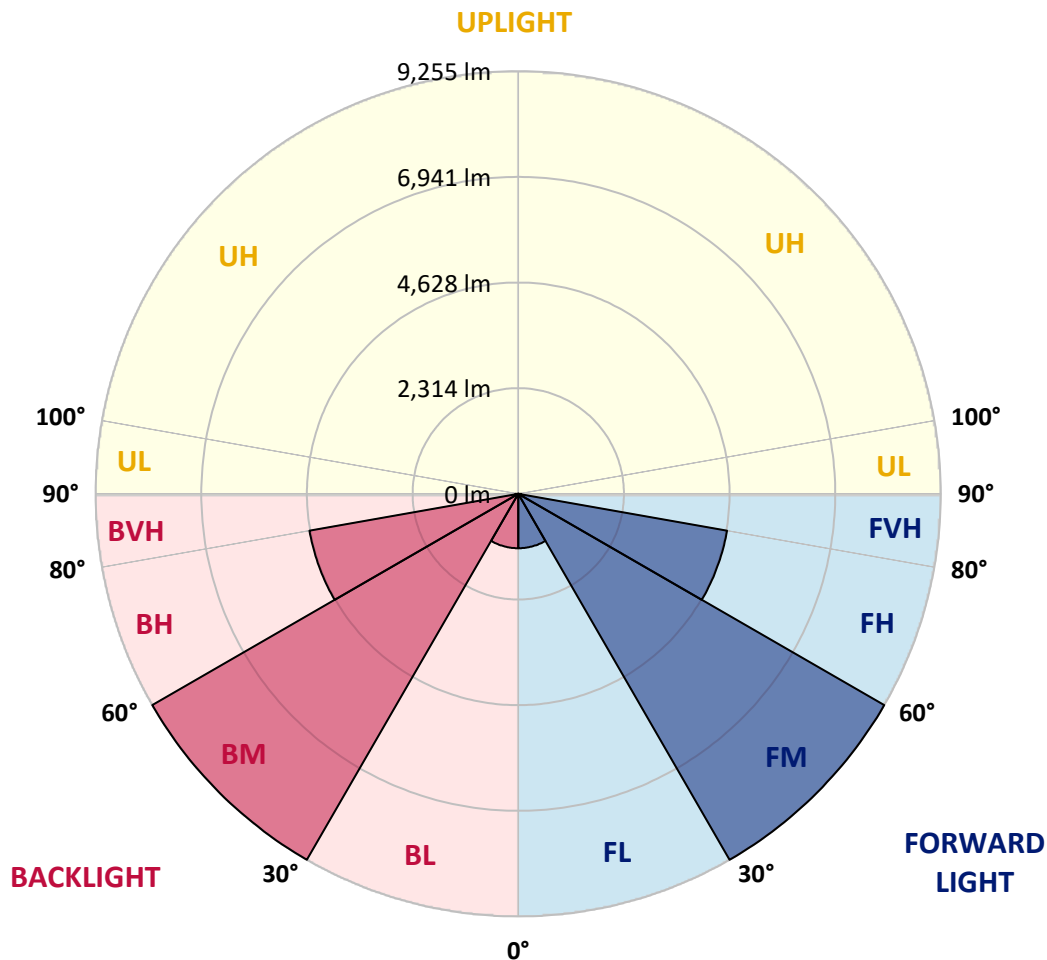
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.2	3.9			
FM (30°-60°)	9255.2	30.5			
FH (60°-80°)	4643.8	15.3			G2/5000
FVH (80°-90°)	67.3	0.2			G1/100
BL (0°-30°)	1191.2	3.9	B3/2500		
BM (30°-60°)	9255.2	30.5	B5		
BH (60°-80°)	4643.8	15.3	B4/5000		G2/5000
BVH (80°-90°)	67.3	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°	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5	2176.5
2.5°	2192.2	2186.8	2185.1	2182.8	2183.9	2184.5	2187.7	2187.9	2187.9	2190.8	2195.7
5°	2216.8	2209.7	2207.1	2204.2	2205.7	2207.1	2209.9	2211.7	2211.4	2213.1	2217.4
7.5°	2243.4	2240.8	2237.7	2235.9	2235.9	2239.9	2237.9	2241.1	2240.8	2242.8	2245.4
10°	2282.8	2277.1	2276.8	2273.6	2275.1	2278.5	2279.1	2278.5	2279.1	2280.2	2286.2
12.5°	2332.8	2331.4	2332.2	2329.6	2328.8	2332.5	2333.4	2337.1	2338.2	2341.6	2345.4
15°	2413.4	2404.2	2403.1	2402.8	2404.5	2410.2	2411.9	2418.8	2421.9	2426.8	2435.1
17.5°	2504.5	2507.6	2501.9	2501.4	2501.1	2505.6	2510.2	2525.4	2530.2	2541.4	2548.5
20°	2649.9	2644.2	2640.8	2627.1	2623.6	2631.6	2648.2	2668.2	2677.6	2695.4	2708.8
22.5°	2844.2	2834.5	2811.1	2794.8	2787.9	2801.6	2819.6	2851.6	2889.6	2911.6	2917.6
25°	3125.1	3086.8	3057.6	3028.8	3018.5	3038.8	3067.9	3118.8	3166.5	3210.5	3230.8
27.5°	3467.0	3442.8	3384.8	3339.3	3321.3	3338.5	3399.0	3470.8	3558.2	3603.9	3610.8
30°	3901.3	3888.7	3814.7	3729.6	3697.6	3727.3	3798.7	3896.5	4018.2	4112.2	4128.7
32.5°	4439.0	4375.3	4272.4	4175.0	4140.7	4177.0	4248.7	4389.0	4553.0	4657.0	4692.4
35°	5055.6	4983.6	4829.0	4679.3	4635.0	4639.6	4754.4	4952.1	5176.4	5321.6	5361.3
37.5°	5735.6	5662.1	5479.8	5247.6	5145.0	5152.7	5303.0	5560.1	5867.5	6025.8	6078.4
40°	6461.2	6385.2	6197.3	5935.5	5767.0	5732.7	5933.5	6246.7	6559.0	6749.8	6770.1
42.5°	7170.7	7080.7	6929.5	6667.8	6514.1	6422.1	6664.7	6948.4	7263.2	7435.2	7448.6
45°	7804.3	7786.9	7665.5	7475.8	7349.2	7267.8	7440.9	7722.6	7942.6	8051.5	8091.2
47.5°	8416.9	8406.0	8367.2	8300.9	8332.3	8196.9	8280.0	8407.8	8528.6	8608.6	8639.5
50°	8953.7	8965.2	9041.5	9154.3	9381.7	9244.6	9218.6	9081.2	9084.6	9090.9	9122.9
52.5°	9397.2	9457.7	9649.7	9990.3	10481.4	10478.3	10084.9	9722.0	9558.0	9485.2	9491.7
55°	9783.7	9887.4	10204.6	10907.7	11610.5	11645.7	11110.5	10306.8	9999.4	9844.0	9864.3
57.5°	9997.1	10155.1	10692.0	11759.4	12761.1	12803.3	12207.4	10954.5	10250.6	9857.1	9874.0
60°	9264.6	9530.6	10520.3	12308.8	13641.0	13660.5	12877.9	11005.4	9474.0	8777.8	8675.8
62.5°	7581.5	7950.1	9346.3	11883.1	13233.3	13173.1	12458.2	10052.6	7782.6	6938.1	6852.4
65°	5695.0	6041.5	7503.5	10174.9	11611.4	11532.0	10804.0	7944.9	5705.8	4809.3	4703.9
67.5°	3082.2	3605.6	4973.6	7772.4	9256.3	9525.7	8517.2	5537.6	3320.5	2407.4	2314.8
70°	1064.5	1375.7	2535.9	4879.0	6676.4	6946.7	5808.1	2969.9	1453.1	908.5	815.7
72.5°	378.0	435.7	953.4	2356.2	3801.0	4211.6	3133.9	1194.5	463.1	337.4	330.6
75°	266.8	275.4	338.8	768.3	1645.7	2015.7	1235.7	396.6	288.8	270.0	268.3
77.5°	238.3	243.1	274.6	312.8	502.8	643.7	380.3	287.7	250.8	240.3	236.6
80°	226.6	230.3	239.4	256.6	285.1	296.6	256.6	246.0	228.3	223.7	222.3
82.5°	198.0	197.1	199.7	206.9	219.7	222.6	206.0	192.9	193.1	187.7	185.1
85°	134.0	142.0	136.0	128.6	159.4	160.3	149.4	112.0	127.1	124.6	114.0
87.5°	40.6	45.7	36.3	25.1	34.6	26.9	24.3	25.1	24.0	20.9	18.9
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)