

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: P510432

Luminaire Tested: **CST-CA10-210-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510432
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-CA10-210-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36005 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

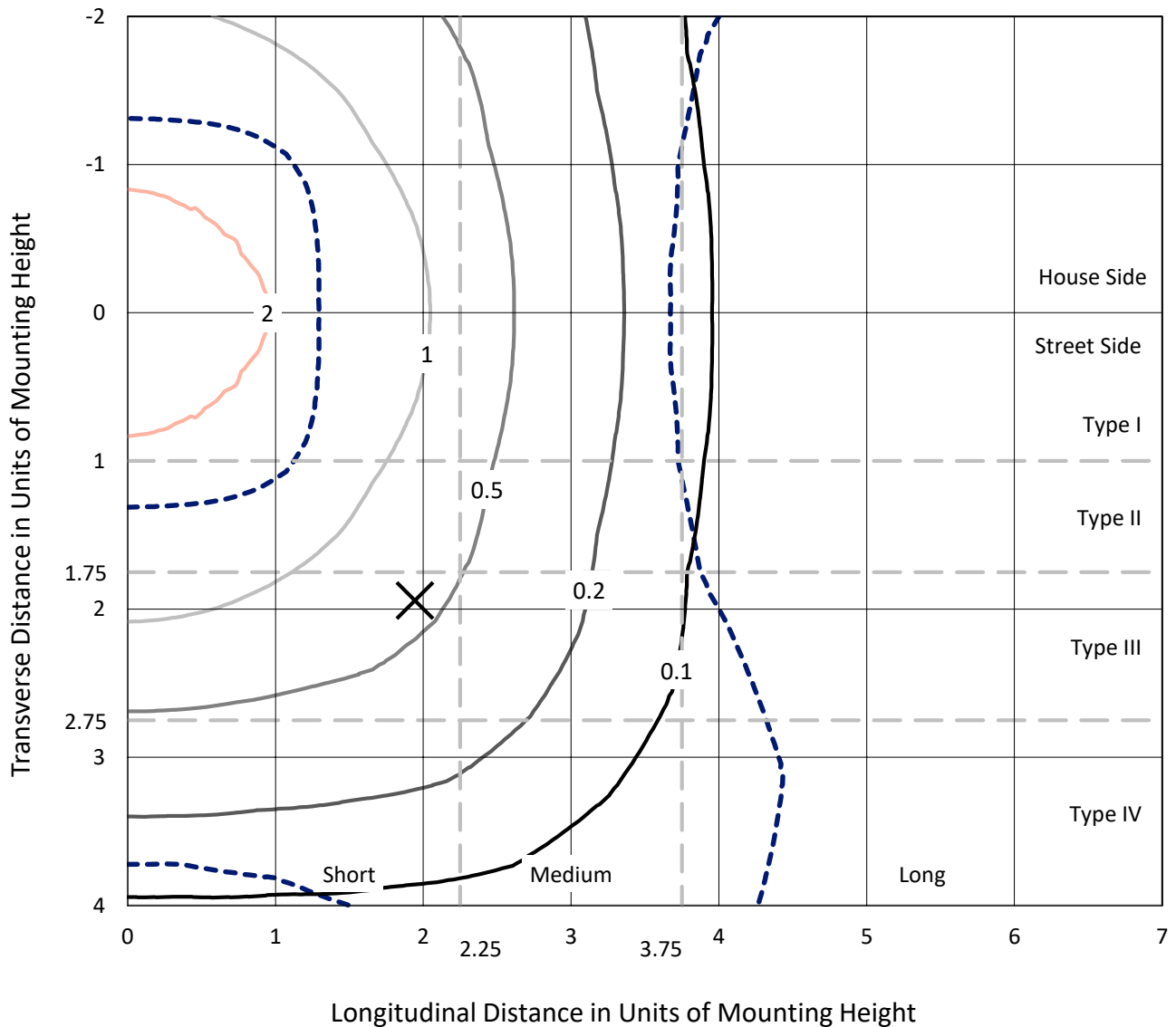
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

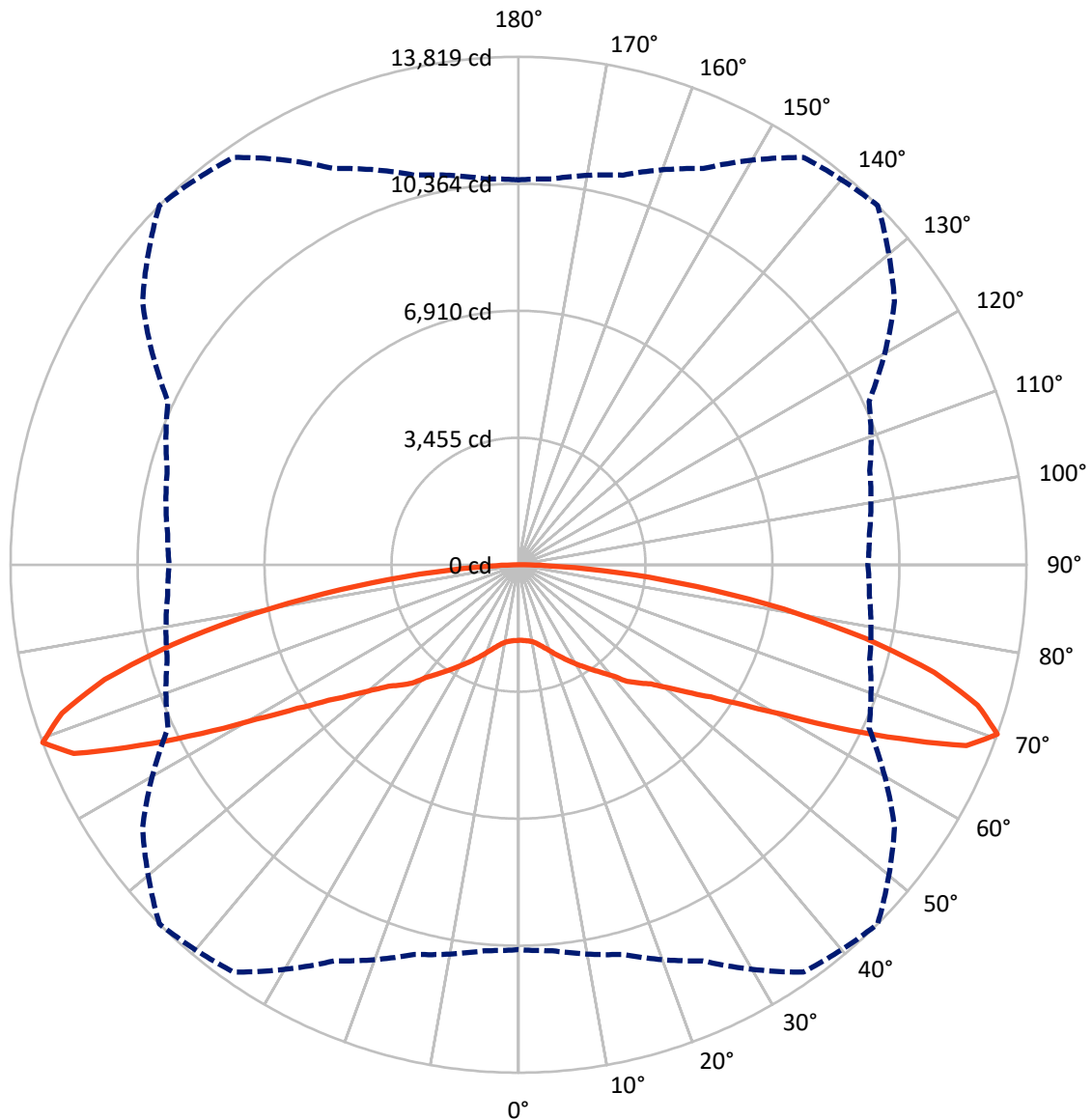
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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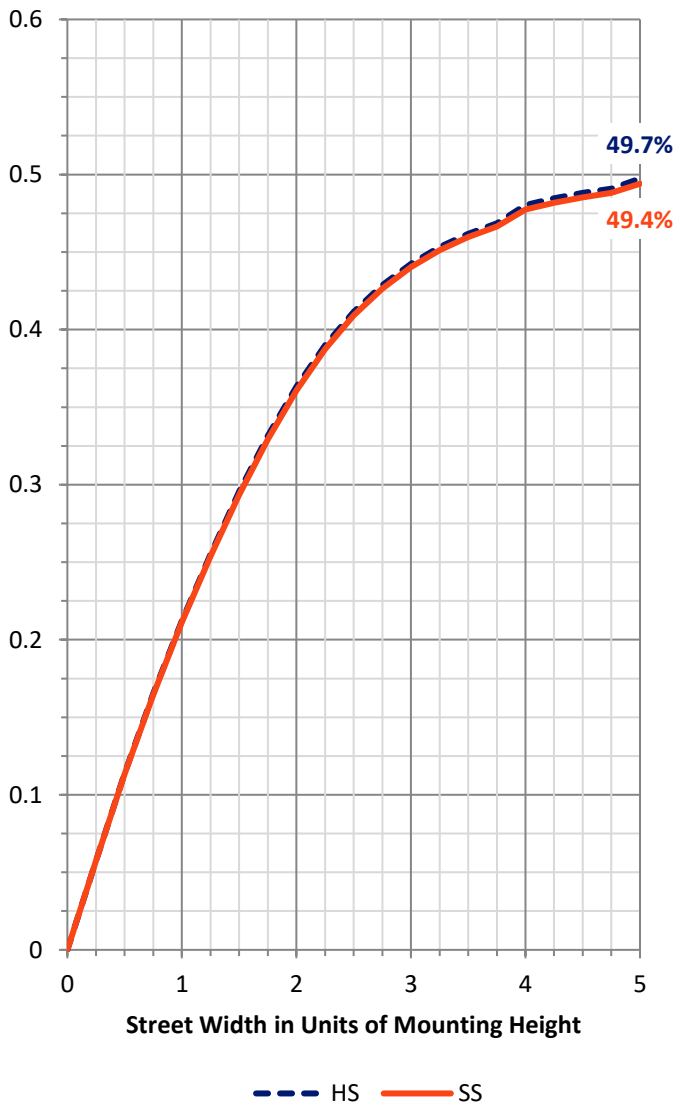
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18002.5	0.0	18002.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18002.5	0.0	18002.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36005.0	0.0	36005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	0.6
10°-20°	651.4	1.8
20°-30°	1289.6	3.6
30°-40°	2230.8	6.2
40°-50°	3711.8	10.3
50°-60°	6473.9	18.0
60°-70°	10717.2	29.8
70°-80°	8981.9	24.9
80°-90°	1748.5	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°	36005.0	100.0
0°-180°	36005.0	100.0

Coefficient of Utilization

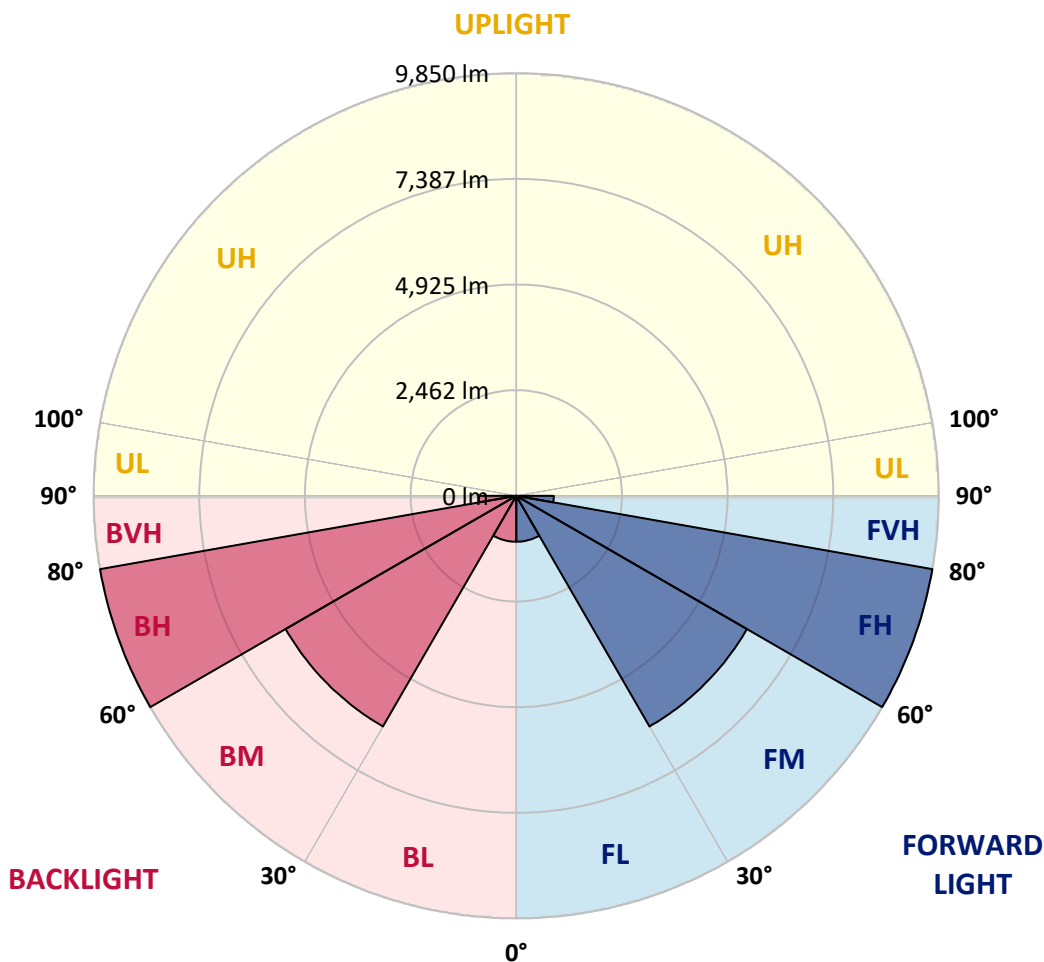


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.5	3.0			
FM (30°-60°)	6208.2	17.2			
FH (60°-80°)	9849.5	27.4			G4/12000
FVH (80°-90°)	874.2	2.4			G5
BL (0°-30°)	1070.5	3.0	B3/2500		
BM (30°-60°)	6208.2	17.2	B4/8500		
BH (60°-80°)	9849.5	27.4	B5		G4/12000
BVH (80°-90°)	874.2	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°	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8	2057.8
2.5°	2070.6	2064.2	2062.1	2059.9	2061.4	2060.7	2064.2	2065.6	2067.1	2073.5	2069.9
5°	2083.5	2078.5	2077.8	2074.9	2074.2	2074.2	2079.2	2079.9	2080.6	2084.9	2080.6
7.5°	2107.0	2102.0	2100.6	2099.2	2098.4	2095.6	2099.2	2097.7	2099.2	2101.3	2096.3
10°	2144.1	2138.4	2136.9	2133.4	2135.5	2131.2	2134.1	2130.5	2124.1	2125.5	2118.4
12.5°	2194.7	2189.7	2191.8	2191.1	2199.7	2197.6	2191.8	2184.7	2174.0	2166.9	2159.1
15°	2269.6	2261.7	2267.4	2273.1	2281.7	2285.3	2281.0	2261.7	2246.0	2234.6	2228.2
17.5°	2360.8	2348.0	2359.4	2370.8	2389.4	2392.9	2377.2	2353.7	2336.6	2331.6	2320.9
20°	2467.1	2464.9	2465.7	2484.2	2512.7	2517.7	2497.0	2469.2	2452.1	2452.8	2440.7
22.5°	2595.4	2584.0	2587.6	2606.1	2646.8	2660.3	2626.1	2595.4	2584.7	2587.6	2586.2
25°	2742.3	2731.6	2726.6	2735.2	2787.9	2811.5	2778.7	2743.0	2738.0	2744.4	2734.5
27.5°	2903.5	2893.5	2887.8	2892.0	2933.4	2977.6	2941.2	2911.3	2910.6	2919.9	2914.1
30°	3086.7	3071.7	3065.3	3070.3	3098.8	3141.6	3112.4	3094.5	3109.5	3115.9	3113.8
32.5°	3272.1	3265.0	3262.8	3261.4	3296.3	3320.6	3306.3	3309.9	3322.0	3351.2	3342.0
35°	3483.1	3462.5	3468.2	3472.4	3518.1	3520.2	3521.6	3528.1	3560.2	3601.5	3577.3
37.5°	3702.8	3697.8	3701.3	3689.2	3722.7	3736.3	3756.2	3777.6	3828.2	3876.0	3866.0
40°	3974.4	3965.2	3968.7	3954.5	3970.9	3981.6	4022.2	4068.5	4133.4	4184.8	4161.2
42.5°	4334.5	4311.0	4311.0	4315.2	4349.5	4338.1	4425.1	4437.9	4518.5	4562.0	4548.4
45°	4758.0	4749.5	4704.6	4629.0	4586.2	4585.5	4655.4	4759.5	4892.8	4983.4	4982.6
47.5°	5296.4	5270.0	5162.3	4980.5	4872.1	4845.7	4919.2	5121.7	5367.0	5508.1	5506.0
50°	6002.3	5968.8	5805.5	5523.1	5312.1	5247.2	5364.8	5627.2	5957.4	6145.6	6161.3
52.5°	6792.3	6795.2	6610.5	6183.4	5871.1	5754.1	5878.9	6254.0	6665.4	6923.5	6954.2
55°	7710.0	7687.9	7513.2	7029.0	6599.1	6348.1	6537.0	7034.0	7506.8	7703.6	7757.7
57.5°	8665.4	8579.2	8445.1	7992.3	7489.7	7168.8	7395.5	7881.8	8334.6	8585.6	8577.0
60°	9512.5	9455.5	9378.5	9017.7	8631.9	8265.4	8440.1	8851.5	9239.4	9391.3	9397.7
62.5°	10438.0	10390.3	10321.1	10123.6	9911.1	9774.9	9616.6	9807.0	10110.0	10276.2	10330.4
65°	11346.4	11329.3	11369.2	11339.3	11429.1	11409.2	11029.8	10910.0	10915.0	10868.0	10843.7
67.5°	11292.9	11286.5	11521.8	11991.0	12886.6	13140.4	12167.1	11083.3	10594.9	10470.8	10453.0
70°	10469.4	10538.6	10974.2	11892.6	13526.9	13819.2	12486.6	10519.3	9894.7	9583.8	9506.8
72.5°	8885.0	9020.5	9688.6	11041.2	12994.9	13062.0	11683.7	9670.8	8751.0	8380.2	8325.3
75°	6855.8	6872.9	7556.7	9275.8	11597.4	11681.5	10422.3	8111.4	7206.6	6745.2	6731.0
77.5°	4175.5	4418.6	5416.2	6954.9	9219.5	9657.3	8716.8	6460.8	5384.8	4976.2	4748.1
80°	2048.5	2159.8	2878.5	4397.2	6589.8	7323.5	6468.6	4468.5	3321.3	2802.9	2745.9
82.5°	932.6	991.8	1361.9	2298.8	3976.6	4885.7	3992.2	2559.1	1773.3	1386.8	1374.0
85°	362.2	360.1	551.2	964.7	1903.8	2705.2	2021.4	1220.7	811.4	603.2	569.0
87.5°	105.5	112.7	161.9	316.6	564.0	760.1	623.2	422.1	249.6	160.4	147.6
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)