

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: P510442

Luminaire Tested: **CST-CA10-210-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510442
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-CA10-210-750-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36665 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

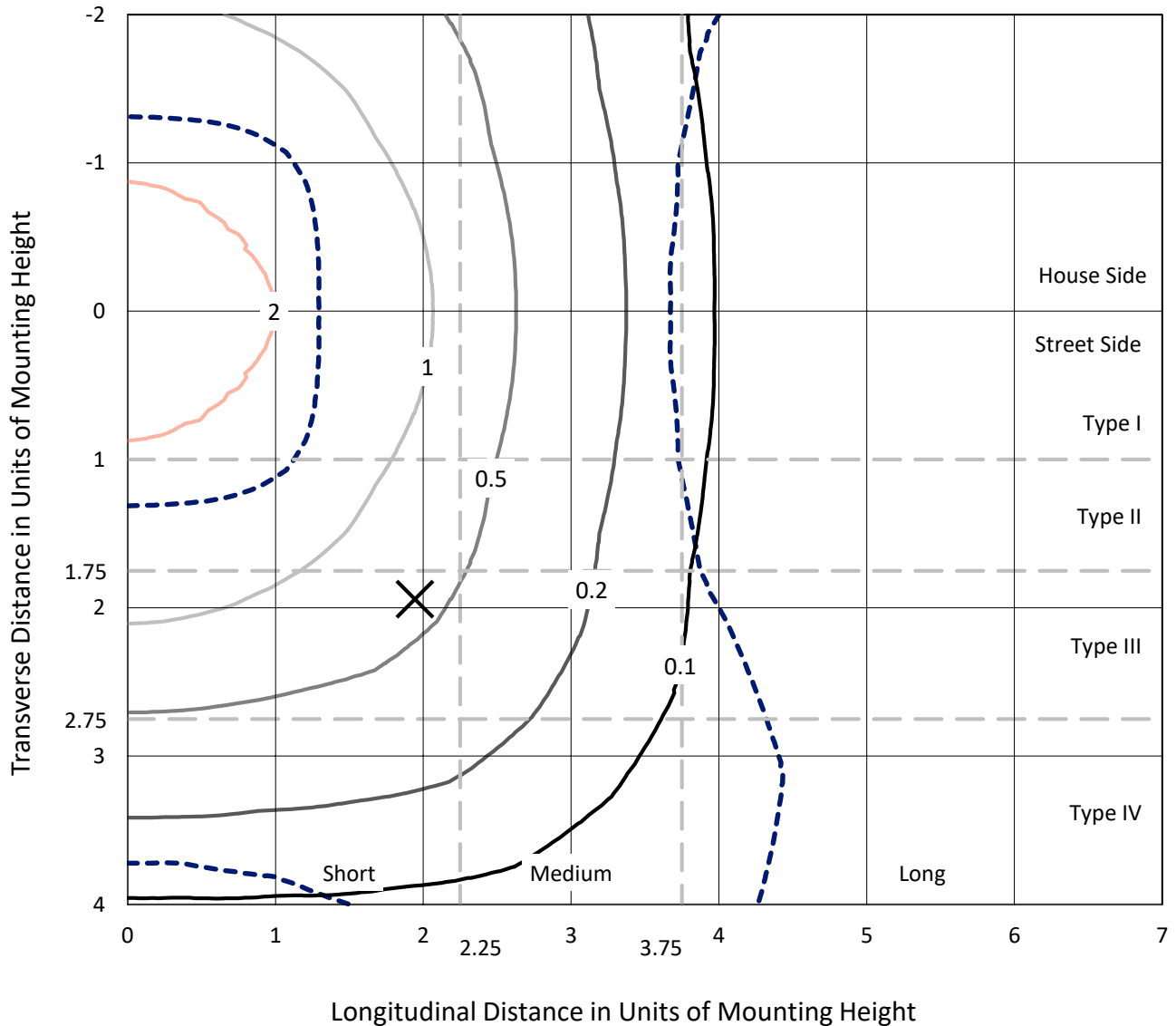
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

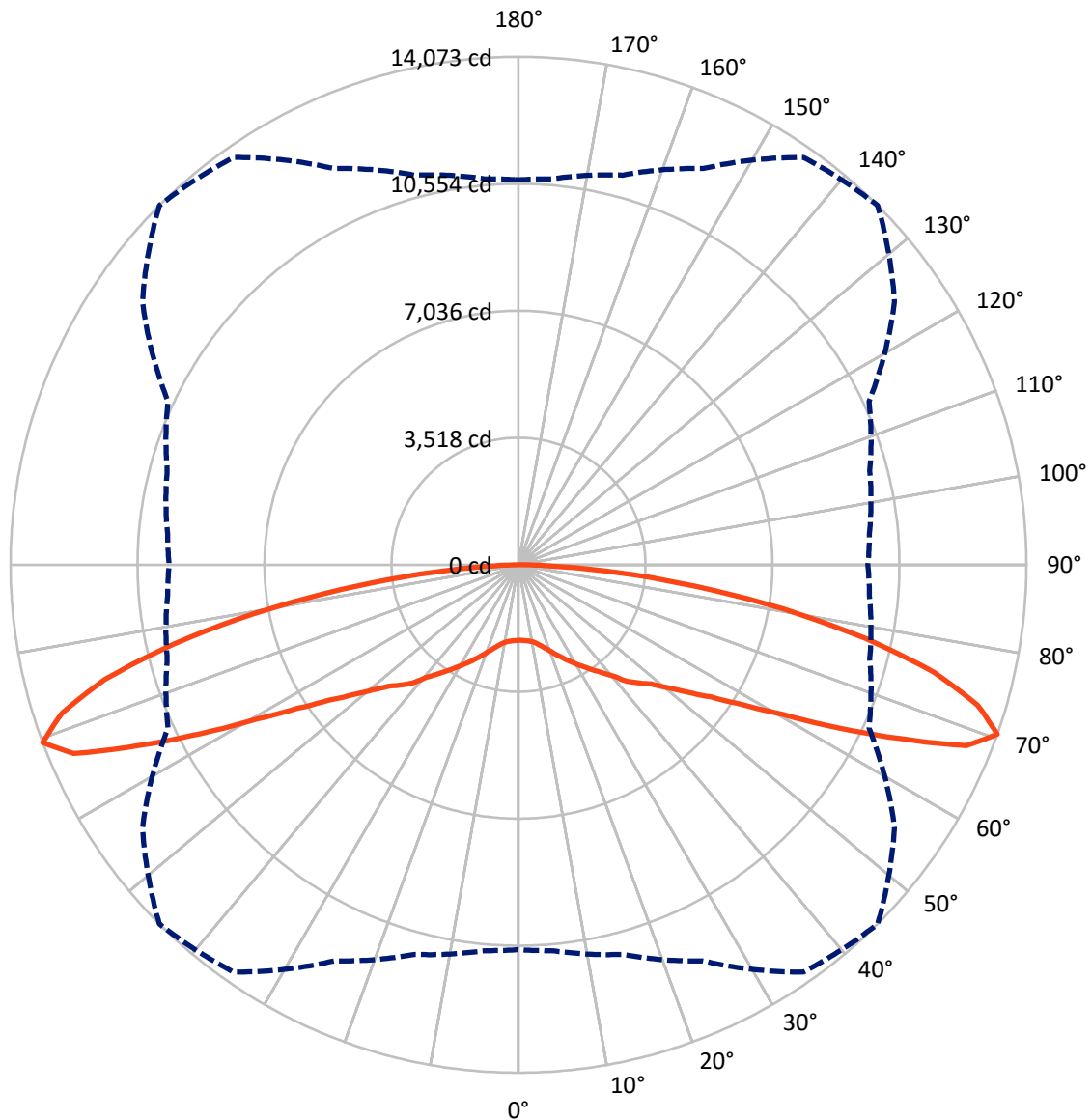
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.4 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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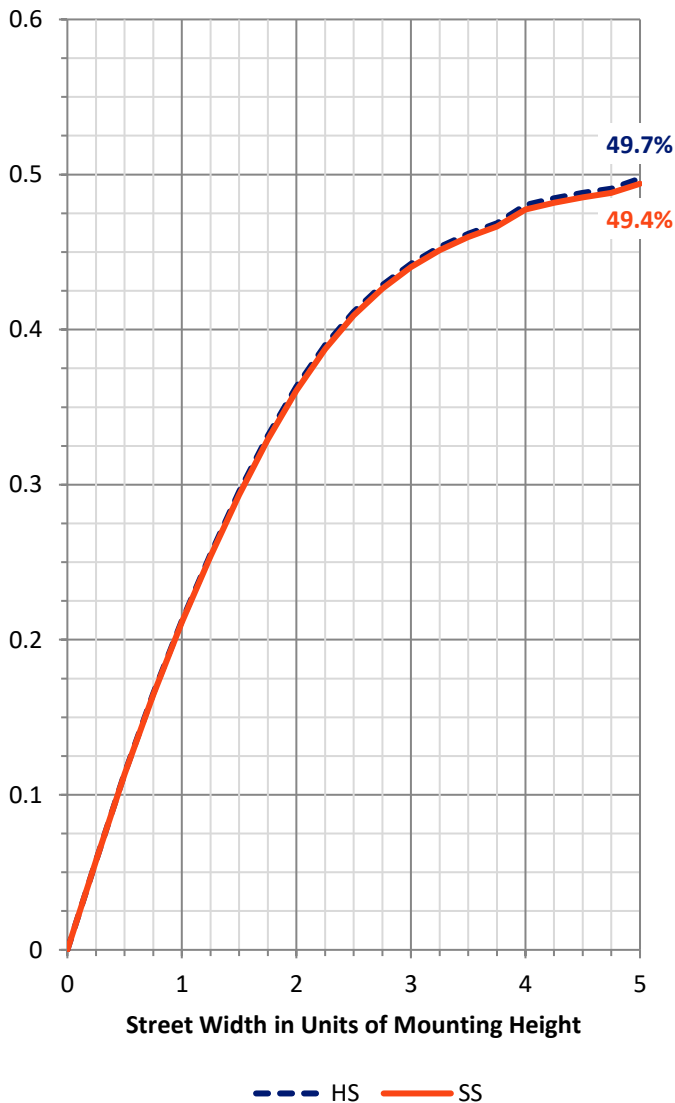
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18332.5	0.0	18332.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18332.5	0.0	18332.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36665.0	0.0	36665.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	0.6
10°-20°	663.4	1.8
20°-30°	1313.2	3.6
30°-40°	2271.7	6.2
40°-50°	3779.8	10.3
50°-60°	6592.6	18.0
60°-70°	10913.7	29.8
70°-80°	9146.5	24.9
80°-90°	1780.5	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°	36665.0	100.0
0°-180°	36665.0	100.0

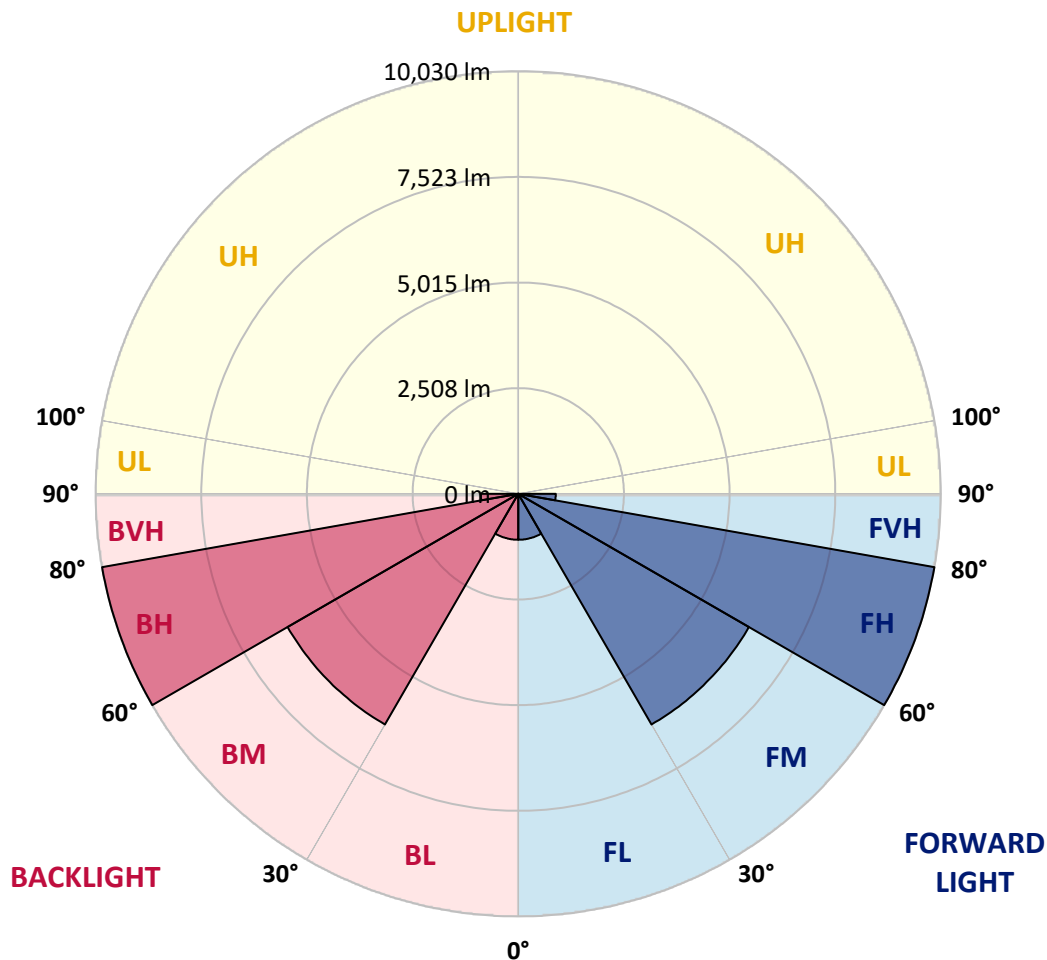


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.1	3.0			
FM (30°-60°)	6322.0	17.2			
FH (60°-80°)	10030.1	27.4			G4/12000
FVH (80°-90°)	890.3	2.4			G5
BL (0°-30°)	1090.1	3.0	B3/2500		
BM (30°-60°)	6322.0	17.2	B4/8500		
BH (60°-80°)	10030.1	27.4	B5		G4/12000
BVH (80°-90°)	890.3	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°	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5	2095.5
2.5°	2108.6	2102.1	2099.9	2097.7	2099.2	2098.4	2102.1	2103.5	2105.0	2111.5	2107.9
5°	2121.7	2116.6	2115.9	2112.9	2112.2	2112.2	2117.3	2118.0	2118.8	2123.1	2118.8
7.5°	2145.6	2140.5	2139.1	2137.6	2136.9	2134.0	2137.6	2136.2	2137.6	2139.8	2134.7
10°	2183.4	2177.6	2176.1	2172.5	2174.7	2170.3	2173.2	2169.6	2163.0	2164.5	2157.2
12.5°	2234.9	2229.8	2232.0	2231.3	2240.0	2237.8	2232.0	2224.8	2213.9	2206.6	2198.6
15°	2311.2	2303.2	2309.0	2314.8	2323.5	2327.1	2322.8	2303.2	2287.2	2275.6	2269.1
17.5°	2404.1	2391.0	2402.7	2414.3	2433.2	2436.8	2420.8	2396.9	2379.4	2374.3	2363.5
20°	2512.3	2510.1	2510.8	2529.7	2558.8	2563.9	2542.8	2514.5	2497.1	2497.8	2485.4
22.5°	2643.0	2631.4	2635.0	2653.9	2695.3	2709.1	2674.2	2643.0	2632.1	2635.0	2633.6
25°	2792.6	2781.7	2776.6	2785.3	2839.0	2863.0	2829.6	2793.3	2788.2	2794.8	2784.6
27.5°	2956.7	2946.5	2940.7	2945.1	2987.2	3032.2	2995.2	2964.7	2963.9	2973.4	2967.6
30°	3143.3	3128.0	3121.5	3126.6	3155.6	3199.2	3169.4	3151.3	3166.5	3173.1	3170.9
32.5°	3332.1	3324.8	3322.6	3321.2	3356.8	3381.4	3366.9	3370.6	3382.9	3412.7	3403.2
35°	3547.0	3525.9	3531.7	3536.1	3582.6	3584.7	3586.2	3592.7	3625.4	3667.5	3642.8
37.5°	3770.6	3765.5	3769.2	3756.8	3791.0	3804.8	3825.1	3846.9	3898.4	3947.1	3936.9
40°	4047.3	4037.8	4041.5	4026.9	4043.6	4054.5	4095.9	4143.1	4209.2	4261.5	4237.5
42.5°	4414.0	4390.0	4390.0	4394.4	4429.2	4417.6	4506.2	4519.2	4601.3	4645.6	4631.8
45°	4845.3	4836.5	4790.8	4713.8	4670.3	4669.5	4740.7	4846.7	4982.5	5074.7	5074.0
47.5°	5393.5	5366.6	5257.0	5071.8	4961.4	4934.6	5009.4	5215.6	5465.3	5609.1	5606.9
50°	6112.3	6078.2	5911.9	5624.4	5409.4	5343.4	5463.2	5730.4	6066.6	6258.2	6274.2
52.5°	6916.8	6919.7	6731.7	6296.7	5978.7	5859.6	5986.7	6368.6	6787.6	7050.4	7081.6
55°	7851.3	7828.8	7650.9	7157.9	6720.0	6464.5	6656.9	7163.0	7644.4	7844.8	7900.0
57.5°	8824.3	8736.4	8599.9	8138.8	7626.9	7300.2	7531.1	8026.3	8487.4	8743.0	8734.2
60°	9686.9	9628.8	9550.4	9183.0	8790.2	8416.9	8594.8	9013.8	9408.8	9563.4	9570.0
62.5°	10629.4	10580.7	10510.3	10309.2	10092.8	9954.1	9792.9	9986.8	10295.4	10464.5	10519.7
65°	11554.4	11537.0	11577.6	11547.1	11638.6	11618.3	11232.0	11110.0	11115.1	11067.2	11042.5
67.5°	11500.0	11493.4	11733.0	12210.8	13122.8	13381.3	12390.2	11286.5	10789.1	10662.8	10644.6
70°	10661.3	10731.7	11175.4	12110.6	13774.8	14072.5	12715.4	10712.1	10076.1	9759.5	9681.1
72.5°	9047.9	9185.9	9866.2	11243.6	13233.2	13301.4	11897.9	9848.1	8911.4	8533.8	8477.9
75°	6981.4	6998.9	7695.2	9445.8	11810.0	11895.7	10613.4	8260.1	7338.7	6868.9	6854.4
77.5°	4252.0	4499.6	5515.4	7082.4	9388.5	9834.3	8876.6	6579.2	5483.5	5067.4	4835.1
80°	2086.1	2199.4	2931.3	4477.9	6710.6	7457.8	6587.2	4550.5	3382.2	2854.3	2796.2
82.5°	949.7	1010.0	1386.8	2340.9	4049.5	4975.2	4065.4	2606.0	1805.8	1412.3	1399.2
85°	368.9	366.7	561.3	982.4	1938.7	2754.8	2058.5	1243.1	826.3	614.3	579.4
87.5°	107.5	114.7	164.8	322.4	574.3	774.0	634.6	429.9	254.1	163.4	150.3
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)