

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: P510402

Luminaire Tested: **CST-CA10-210-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510402
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-CA10-210-722-U-T5
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: 29344 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

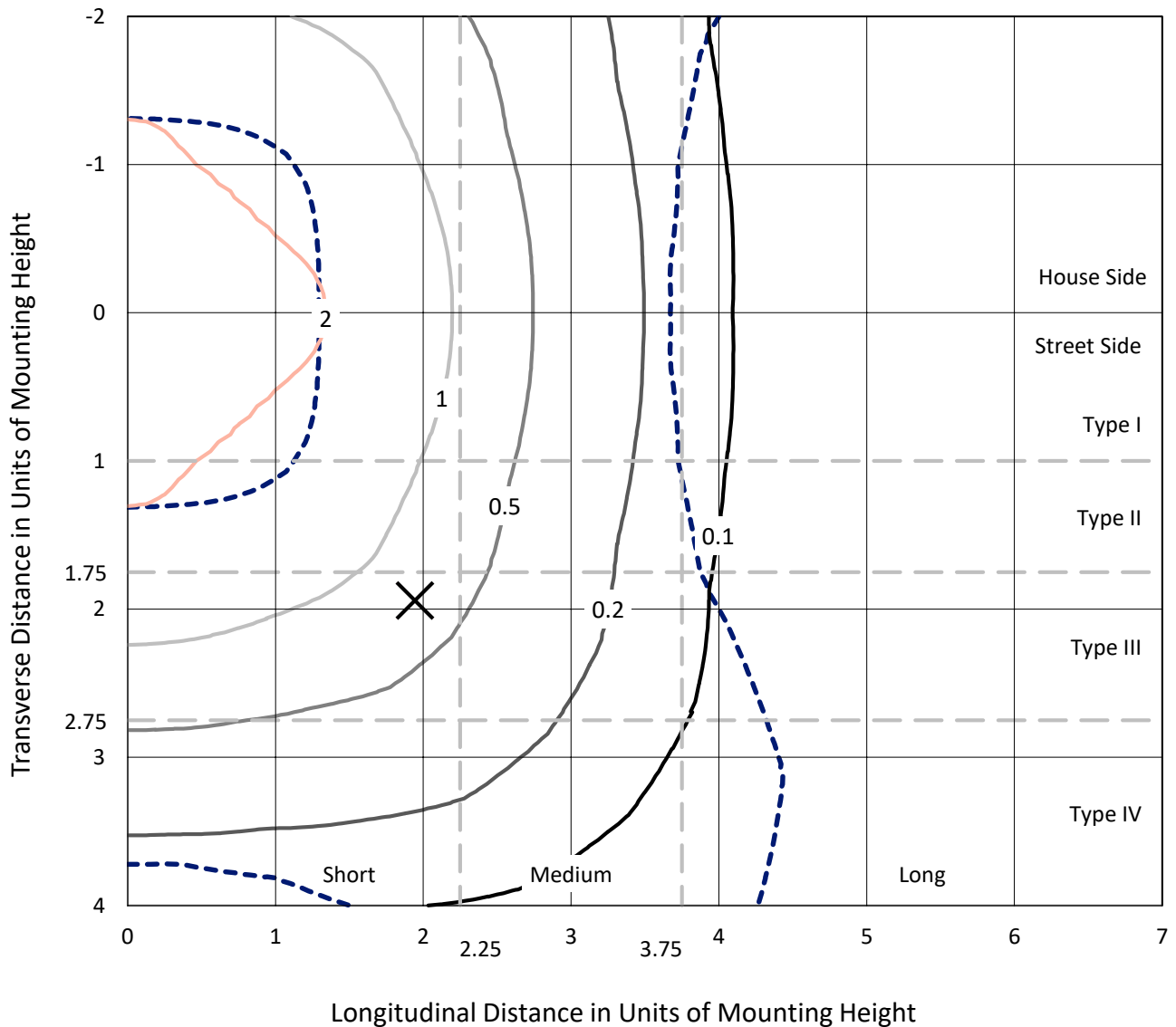
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

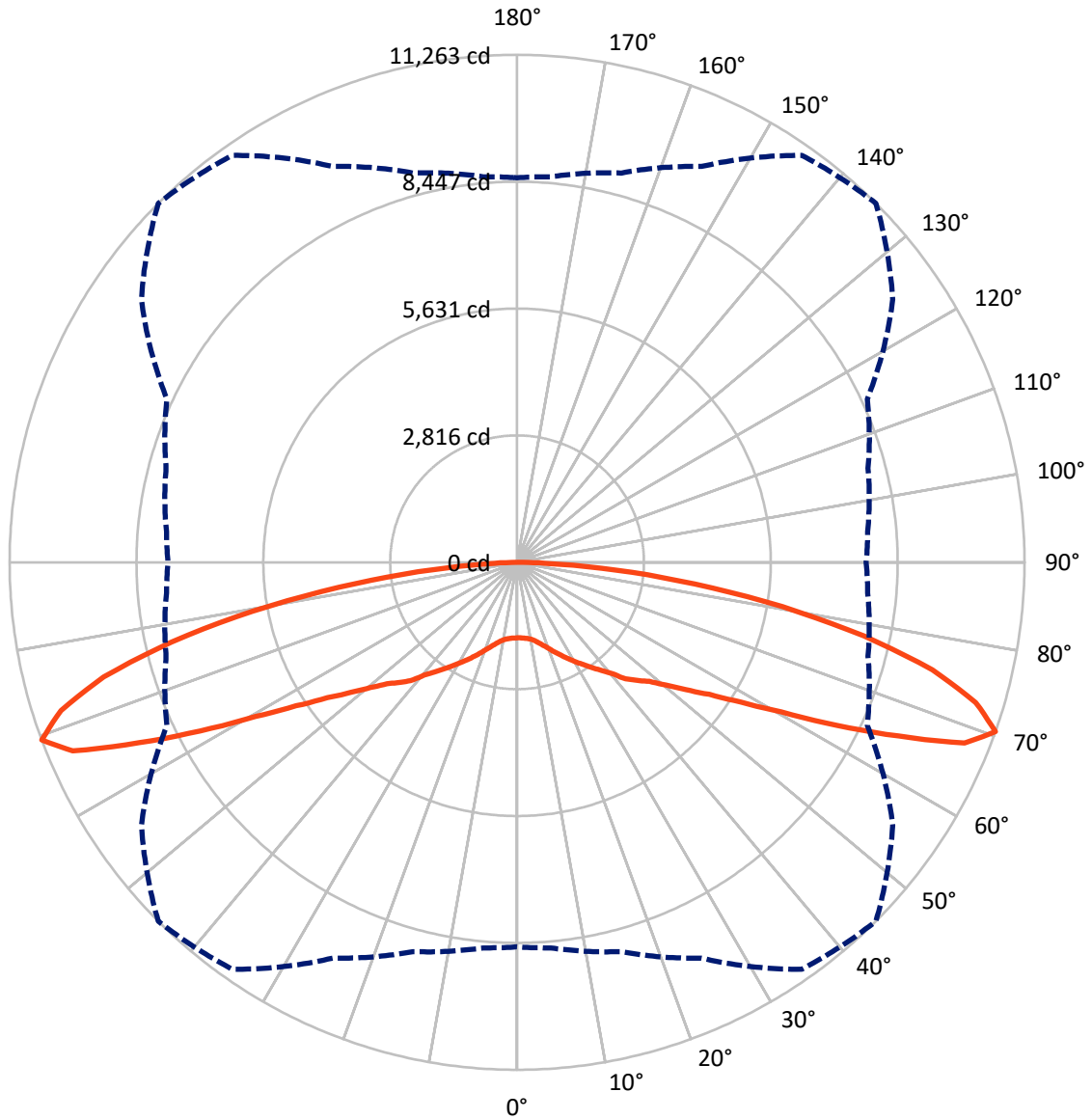
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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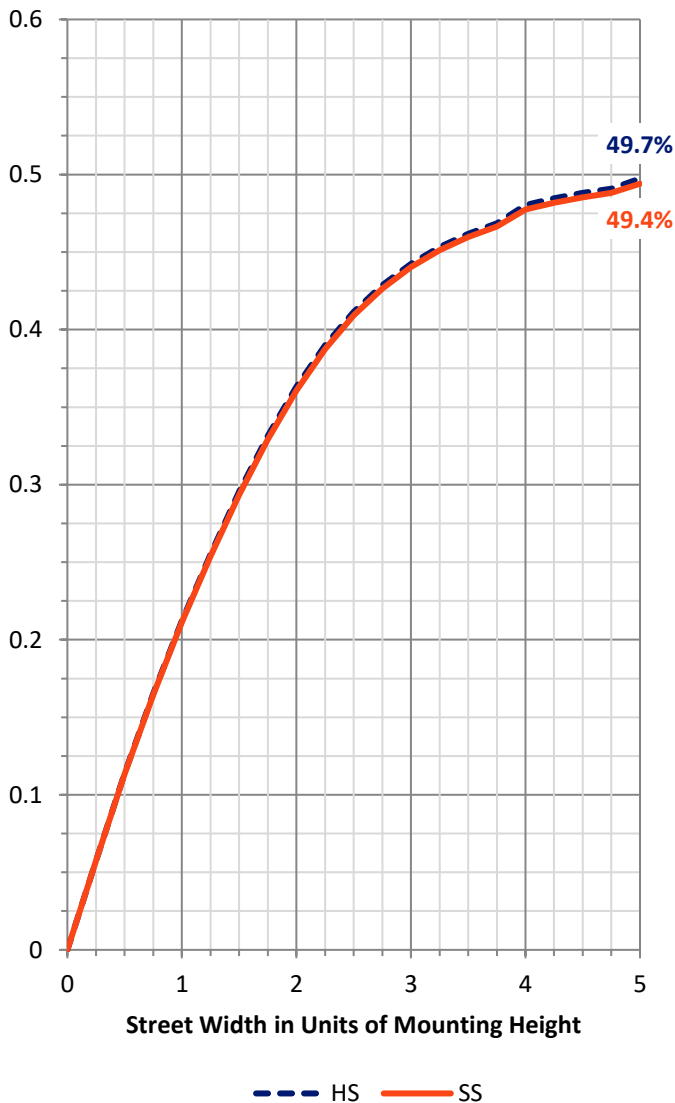
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14672.0	0.0	14672.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14672.0	0.0	14672.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29344.0	0.0	29344.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	0.6
10°-20°	530.9	1.8
20°-30°	1051.0	3.6
30°-40°	1818.1	6.2
40°-50°	3025.1	10.3
50°-60°	5276.2	18.0
60°-70°	8734.5	29.8
70°-80°	7320.2	24.9
80°-90°	1425.0	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°	29344.0	100.0
0°-180°	29344.0	100.0



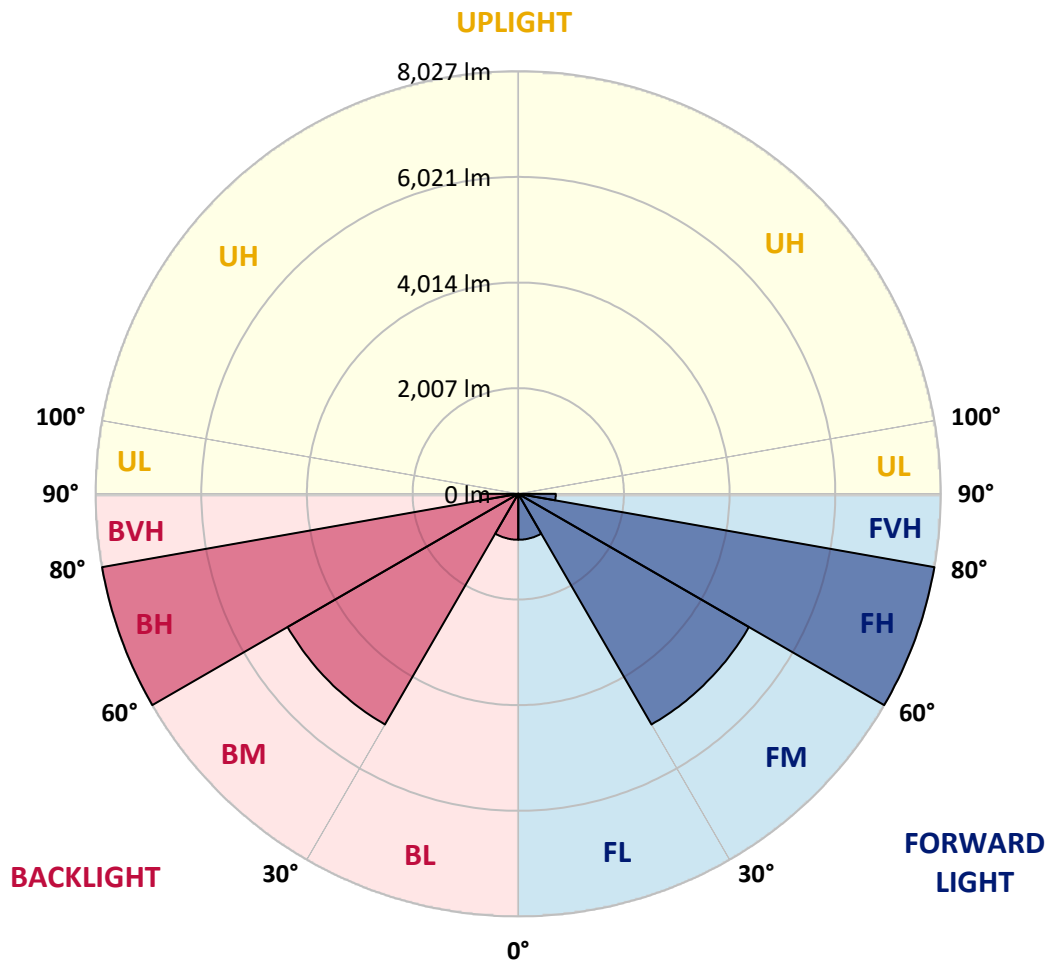
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.5	3.0			
FM (30°-60°)	5059.7	17.2			
FH (60°-80°)	8027.4	27.4			G4/12000
FVH (80°-90°)	712.5	2.4			G4/750
BL (0°-30°)	872.5	3.0	B2/1000		
BM (30°-60°)	5059.7	17.2	B4/8500		
BH (60°-80°)	8027.4	27.4	B5		G4/12000
BVH (80°-90°)	712.5	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1	1677.1
2.5°	1687.6	1682.3	1680.6	1678.8	1680.0	1679.4	1682.3	1683.5	1684.7	1689.9	1687.0
5°	1698.0	1694.0	1693.4	1691.0	1690.5	1690.5	1694.5	1695.1	1695.7	1699.2	1695.7
7.5°	1717.2	1713.1	1712.0	1710.8	1710.2	1707.9	1710.8	1709.6	1710.8	1712.6	1708.5
10°	1747.4	1742.8	1741.6	1738.7	1740.4	1737.0	1739.3	1736.4	1731.1	1732.3	1726.5
12.5°	1788.7	1784.6	1786.4	1785.8	1792.7	1791.0	1786.4	1780.5	1771.8	1766.0	1759.6
15°	1849.7	1843.3	1848.0	1852.6	1859.6	1862.5	1859.0	1843.3	1830.5	1821.2	1816.0
17.5°	1924.1	1913.6	1922.9	1932.2	1947.3	1950.2	1937.4	1918.3	1904.3	1900.3	1891.5
20°	2010.7	2008.9	2009.5	2024.6	2047.9	2051.9	2035.1	2012.4	1998.5	1999.0	1989.2
22.5°	2115.3	2106.0	2108.9	2124.0	2157.1	2168.1	2140.3	2115.3	2106.5	2108.9	2107.7
25°	2235.0	2226.3	2222.2	2229.2	2272.2	2291.3	2264.6	2235.6	2231.5	2236.7	2228.6
27.5°	2366.3	2358.2	2353.5	2357.0	2390.7	2426.7	2397.1	2372.7	2372.1	2379.7	2375.0
30°	2515.7	2503.5	2498.2	2502.3	2525.5	2560.4	2536.6	2522.0	2534.3	2539.5	2537.7
32.5°	2666.7	2660.9	2659.2	2658.0	2686.5	2706.3	2694.6	2697.5	2707.4	2731.2	2723.7
35°	2838.8	2821.9	2826.6	2830.0	2867.2	2869.0	2870.1	2875.4	2901.5	2935.2	2915.5
37.5°	3017.7	3013.7	3016.6	3006.7	3034.0	3045.1	3061.3	3078.8	3120.0	3159.0	3150.8
40°	3239.1	3231.6	3234.5	3222.9	3236.2	3245.0	3278.1	3315.9	3368.7	3410.6	3391.4
42.5°	3532.6	3513.4	3513.4	3516.9	3544.8	3535.5	3606.4	3616.9	3682.5	3718.0	3706.9
45°	3877.8	3870.8	3834.2	3772.6	3737.7	3737.2	3794.1	3879.0	3987.6	4061.4	4060.8
47.5°	4316.5	4295.0	4207.3	4059.1	3970.8	3949.3	4009.1	4174.2	4374.1	4489.1	4487.4
50°	4891.8	4864.5	4731.5	4501.3	4329.3	4276.4	4372.3	4586.2	4855.2	5008.6	5021.4
52.5°	5535.7	5538.0	5387.5	5039.4	4784.9	4689.6	4791.3	5097.0	5432.3	5642.6	5667.6
55°	6283.6	6265.6	6123.2	5728.6	5378.2	5173.7	5327.7	5732.7	6118.0	6278.4	6322.5
57.5°	7062.3	6992.0	6882.7	6513.7	6104.1	5842.5	6027.3	6423.7	6792.7	6997.2	6990.3
60°	7752.7	7706.2	7643.4	7349.4	7035.0	6736.3	6878.7	7214.0	7530.1	7653.9	7659.1
62.5°	8507.0	8468.0	8411.7	8250.7	8077.5	7966.5	7837.5	7992.7	8239.7	8375.1	8419.2
65°	9247.3	9233.4	9265.9	9241.5	9314.7	9298.4	8989.3	8891.7	8895.7	8857.4	8837.6
67.5°	9203.7	9198.5	9390.3	9772.6	10502.5	10709.4	9916.2	9032.9	8634.8	8533.7	8519.2
70°	8532.5	8588.9	8944.0	9692.4	11024.4	11262.6	10176.5	8573.2	8064.2	7810.8	7748.0
72.5°	7241.3	7351.7	7896.2	8998.6	10590.9	10645.5	9522.2	7881.7	7132.0	6829.9	6785.1
75°	5587.4	5601.4	6158.7	7559.7	9451.9	9520.4	8494.2	6610.8	5873.3	5497.4	5485.7
77.5°	3403.0	3601.2	4414.2	5668.2	7513.8	7870.6	7104.2	5265.5	4388.6	4055.6	3869.7
80°	1669.5	1760.2	2346.0	3583.7	5370.7	5968.6	5271.9	3641.9	2706.8	2284.4	2237.9
82.5°	760.1	808.3	1109.9	1873.5	3240.9	3981.8	3253.7	2085.6	1445.2	1130.3	1119.8
85°	295.2	293.5	449.2	786.3	1551.6	2204.8	1647.5	994.9	661.3	491.6	463.7
87.5°	86.0	91.8	131.9	258.0	459.7	619.5	507.9	344.0	203.4	130.8	120.3
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)