

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: P510702

Luminaire Tested: **CST-CA8-230-722-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510702  
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-CA8-230-722-U-T5  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30138 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

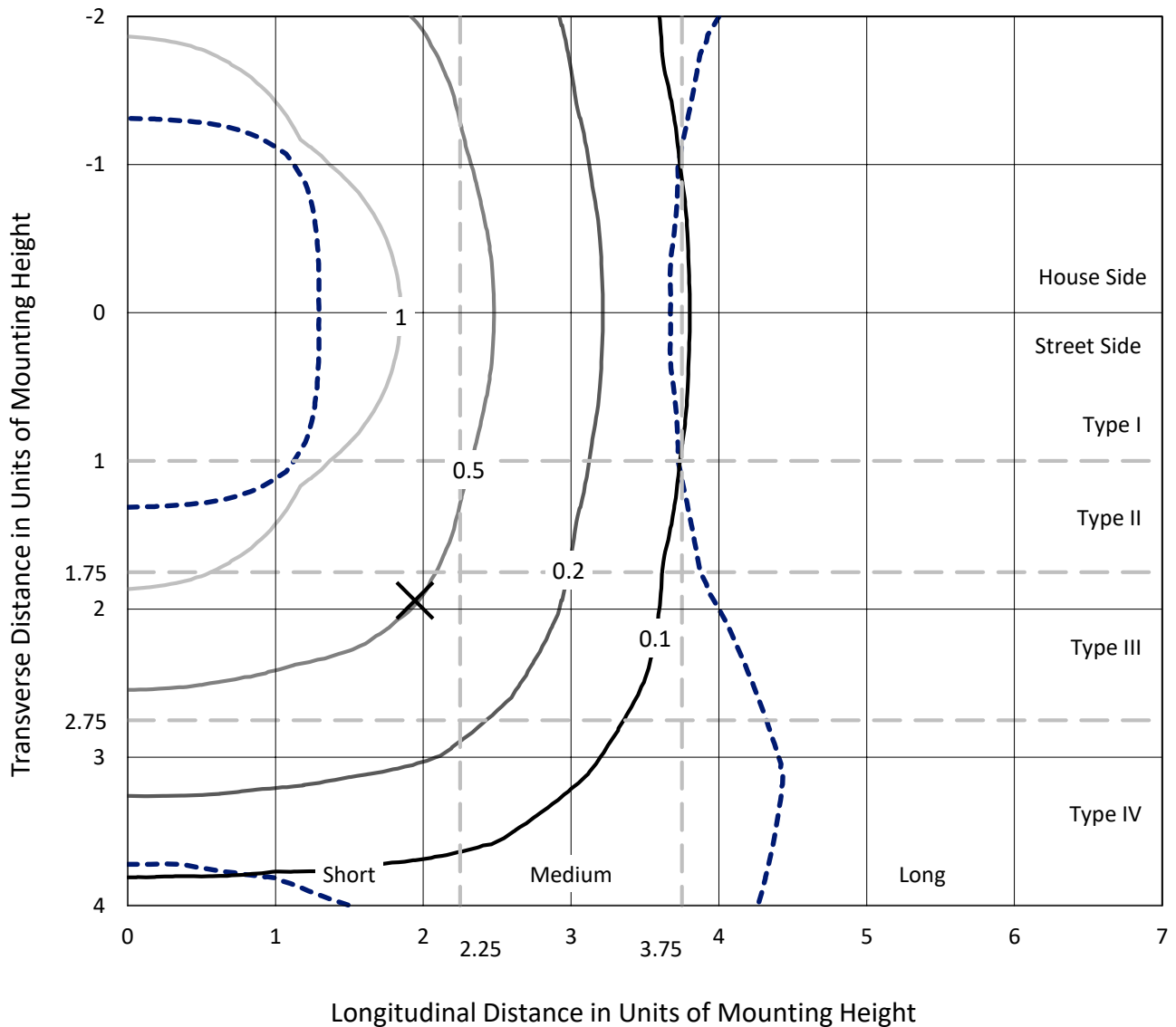
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

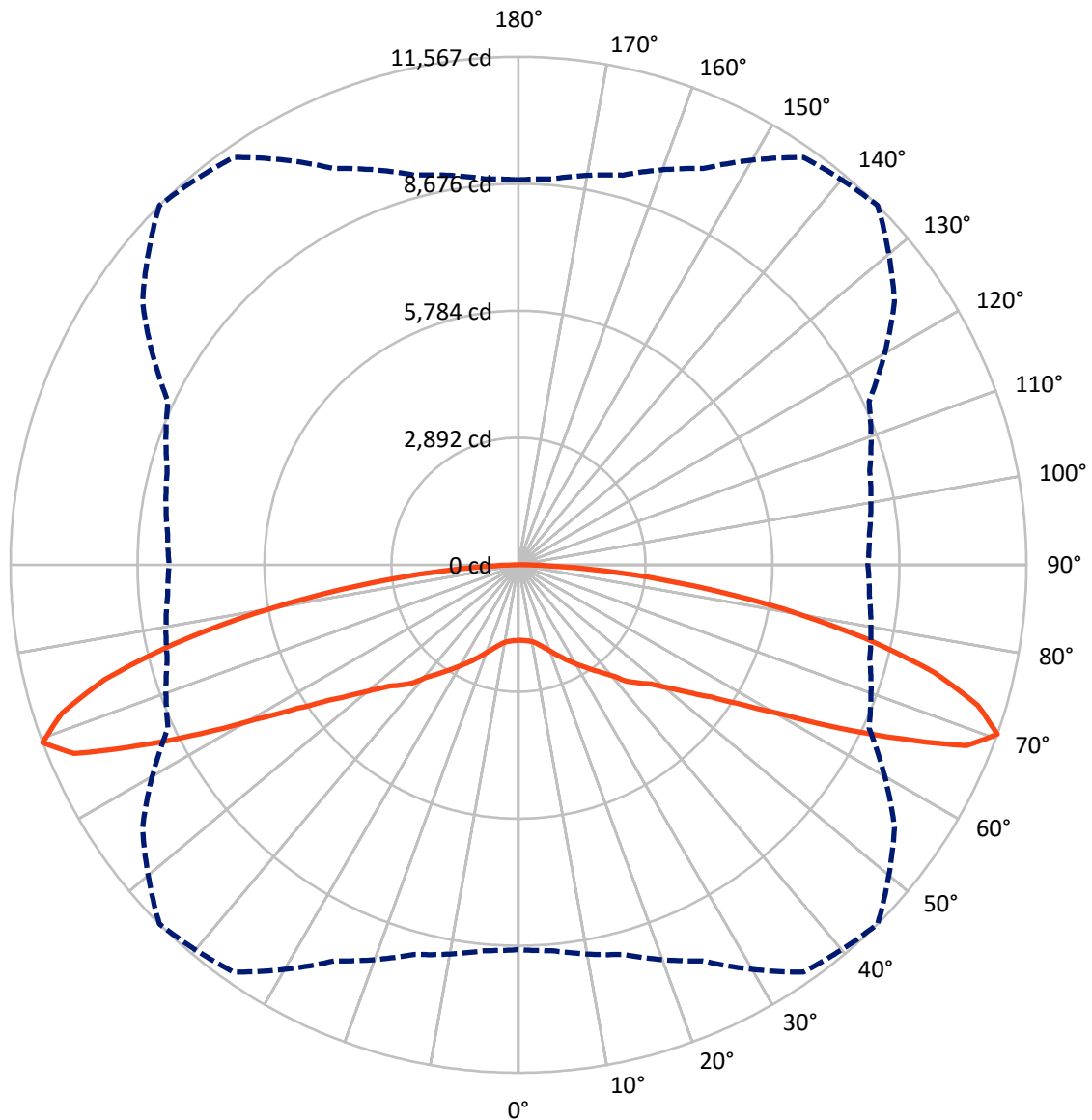
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 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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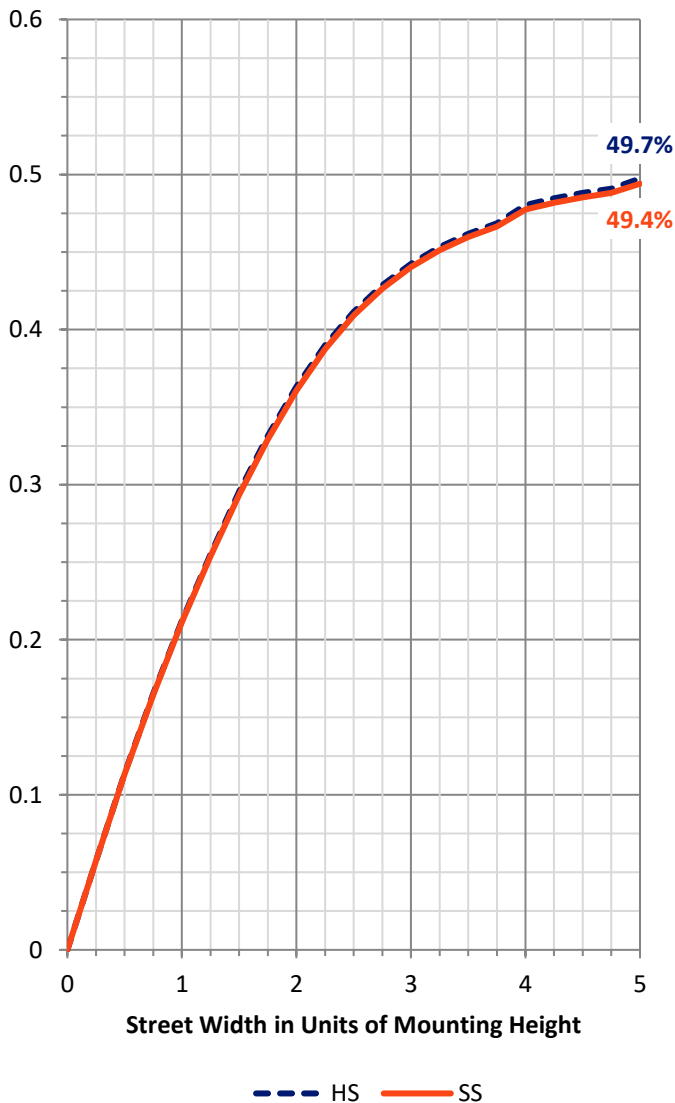
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15069.0	0.0	15069.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15069.0	0.0	15069.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30138.0	0.0	30138.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	0.6
10°-20°	545.3	1.8
20°-30°	1079.4	3.6
30°-40°	1867.3	6.2
40°-50°	3106.9	10.3
50°-60°	5419.0	18.0
60°-70°	8970.8	29.8
70°-80°	7518.3	24.9
80°-90°	1463.6	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°	30138.0	100.0
0°-180°	30138.0	100.0

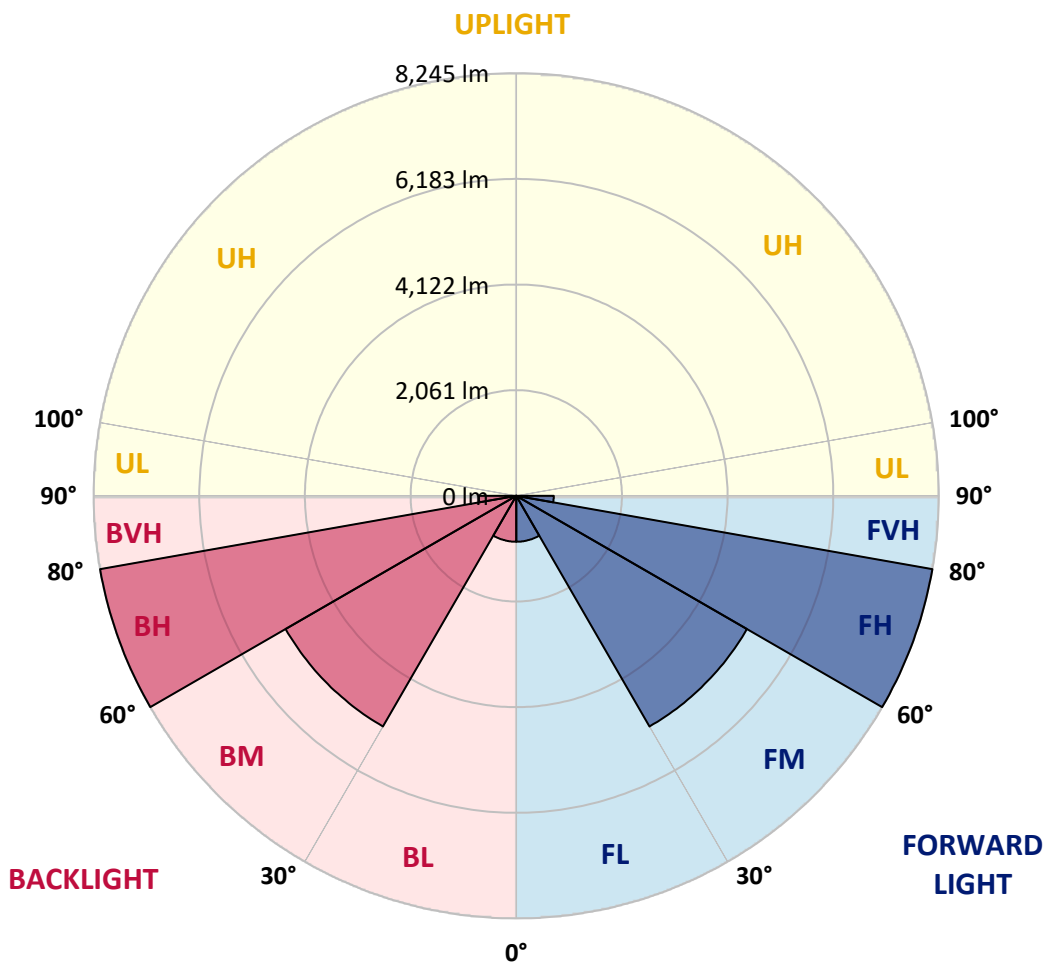


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.1	3.0			
FM (30°-60°)	5196.6	17.2			
FH (60°-80°)	8244.6	27.4			G4/12000
FVH (80°-90°)	731.8	2.4			G4/750
BL (0°-30°)	896.1	3.0	B2/1000		
BM (30°-60°)	5196.6	17.2	B4/8500		
BH (60°-80°)	8244.6	27.4	B5		G4/12000
BVH (80°-90°)	731.8	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°	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5	1722.5
2.5°	1733.2	1727.9	1726.1	1724.3	1725.5	1724.9	1727.9	1729.0	1730.2	1735.6	1732.6
5°	1744.0	1739.8	1739.2	1736.8	1736.2	1736.2	1740.4	1741.0	1741.6	1745.2	1741.6
7.5°	1763.7	1759.5	1758.3	1757.1	1756.5	1754.1	1757.1	1755.9	1757.1	1758.9	1754.7
10°	1794.7	1789.9	1788.7	1785.7	1787.5	1784.0	1786.3	1783.4	1778.0	1779.2	1773.2
12.5°	1837.1	1832.9	1834.7	1834.1	1841.3	1839.5	1834.7	1828.7	1819.8	1813.8	1807.2
15°	1899.7	1893.2	1898.0	1902.7	1909.9	1912.9	1909.3	1893.2	1880.0	1870.5	1865.1
17.5°	1976.1	1965.4	1974.9	1984.5	2000.0	2003.0	1989.9	1970.2	1955.8	1951.7	1942.7
20°	2065.1	2063.3	2063.9	2079.4	2103.3	2107.4	2090.1	2066.9	2052.5	2053.1	2043.0
22.5°	2172.5	2163.0	2165.9	2181.5	2215.5	2226.8	2198.2	2172.5	2163.5	2165.9	2164.7
25°	2295.4	2286.5	2282.3	2289.5	2333.6	2353.3	2325.9	2296.0	2291.9	2297.2	2288.9
27.5°	2430.3	2422.0	2417.2	2420.8	2455.4	2492.4	2462.0	2436.9	2436.3	2444.1	2439.3
30°	2583.7	2571.2	2565.8	2570.0	2593.9	2629.7	2605.2	2590.3	2602.8	2608.2	2606.4
32.5°	2738.9	2732.9	2731.1	2729.9	2759.2	2779.5	2767.6	2770.5	2780.7	2805.2	2797.4
35°	2915.6	2898.3	2903.0	2906.6	2944.8	2946.6	2947.8	2953.2	2980.0	3014.6	2994.4
37.5°	3099.4	3095.2	3098.2	3088.1	3116.1	3127.4	3144.2	3162.1	3204.4	3244.4	3236.1
40°	3326.8	3319.0	3322.0	3310.1	3323.8	3332.8	3366.8	3405.6	3459.9	3502.9	3483.2
42.5°	3628.2	3608.5	3608.5	3612.1	3640.7	3631.2	3704.0	3714.7	3782.2	3818.6	3807.2
45°	3982.7	3975.6	3938.0	3874.7	3838.9	3838.3	3896.8	3983.9	4095.5	4171.3	4170.7
47.5°	4433.3	4411.3	4321.1	4168.9	4078.2	4056.1	4117.6	4287.1	4492.4	4610.6	4608.8
50°	5024.2	4996.2	4859.5	4623.1	4446.5	4392.2	4490.6	4710.3	4986.6	5144.2	5157.3
52.5°	5685.5	5687.9	5533.3	5175.8	4914.4	4816.5	4921.0	5234.9	5579.3	5795.3	5821.0
55°	6453.6	6435.1	6288.9	5883.7	5523.8	5313.7	5471.8	5887.8	6283.5	6448.3	6493.6
57.5°	7253.4	7181.2	7069.0	6690.0	6269.2	6000.6	6190.4	6597.5	6976.5	7186.6	7179.4
60°	7962.5	7914.7	7850.2	7548.2	7225.4	6918.6	7064.8	7409.2	7733.9	7861.0	7866.4
62.5°	8737.2	8697.2	8639.3	8473.9	8296.1	8182.1	8049.6	8208.9	8462.6	8601.7	8647.0
65°	9497.5	9483.2	9516.6	9491.6	9566.8	9550.0	9232.5	9132.3	9136.4	9097.0	9076.8
67.5°	9452.8	9447.4	9644.4	10037.1	10786.7	10999.2	10184.5	9277.3	8868.5	8764.6	8749.7
70°	8763.4	8821.3	9186.0	9954.7	11322.7	11567.4	10451.9	8805.2	8282.4	8022.1	7957.7
72.5°	7437.2	7550.6	8109.9	9242.1	10877.4	10933.5	9779.8	8095.0	7325.0	7014.7	6968.7
75°	5738.6	5752.9	6325.3	7764.3	9707.6	9778.0	8724.0	6789.7	6032.3	5646.1	5634.2
77.5°	3495.1	3698.6	4533.6	5821.6	7717.2	8083.6	7296.4	5408.0	4507.3	4165.4	3974.4
80°	1714.7	1807.8	2409.4	3680.7	5516.0	6130.2	5414.5	3740.4	2780.1	2346.2	2298.4
82.5°	780.7	830.2	1140.0	1924.2	3328.6	4089.6	3341.7	2142.1	1484.3	1160.9	1150.1
85°	303.2	301.4	461.4	807.5	1593.6	2264.4	1692.0	1021.8	679.2	504.9	476.3
87.5°	88.3	94.3	135.5	265.0	472.1	636.2	521.6	353.3	208.9	134.3	123.5
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)