

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: McGRAW-EDISON

Report Number: P510642

Luminaire Tested: **CTN-CA6-230-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510642
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: McGRAW-EDISON
Catalog Number: CTN-CA6-230-722-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28968 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

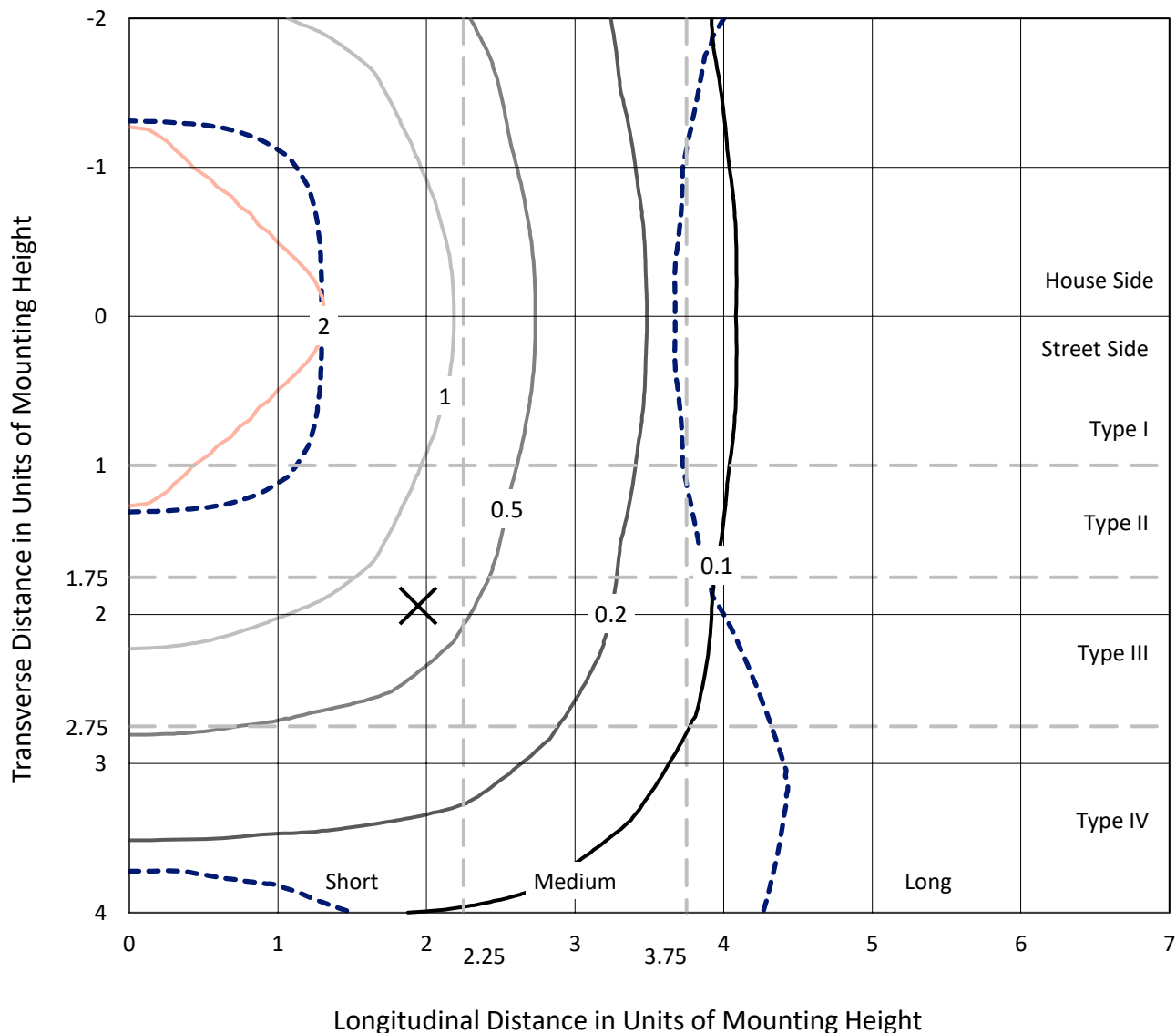
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

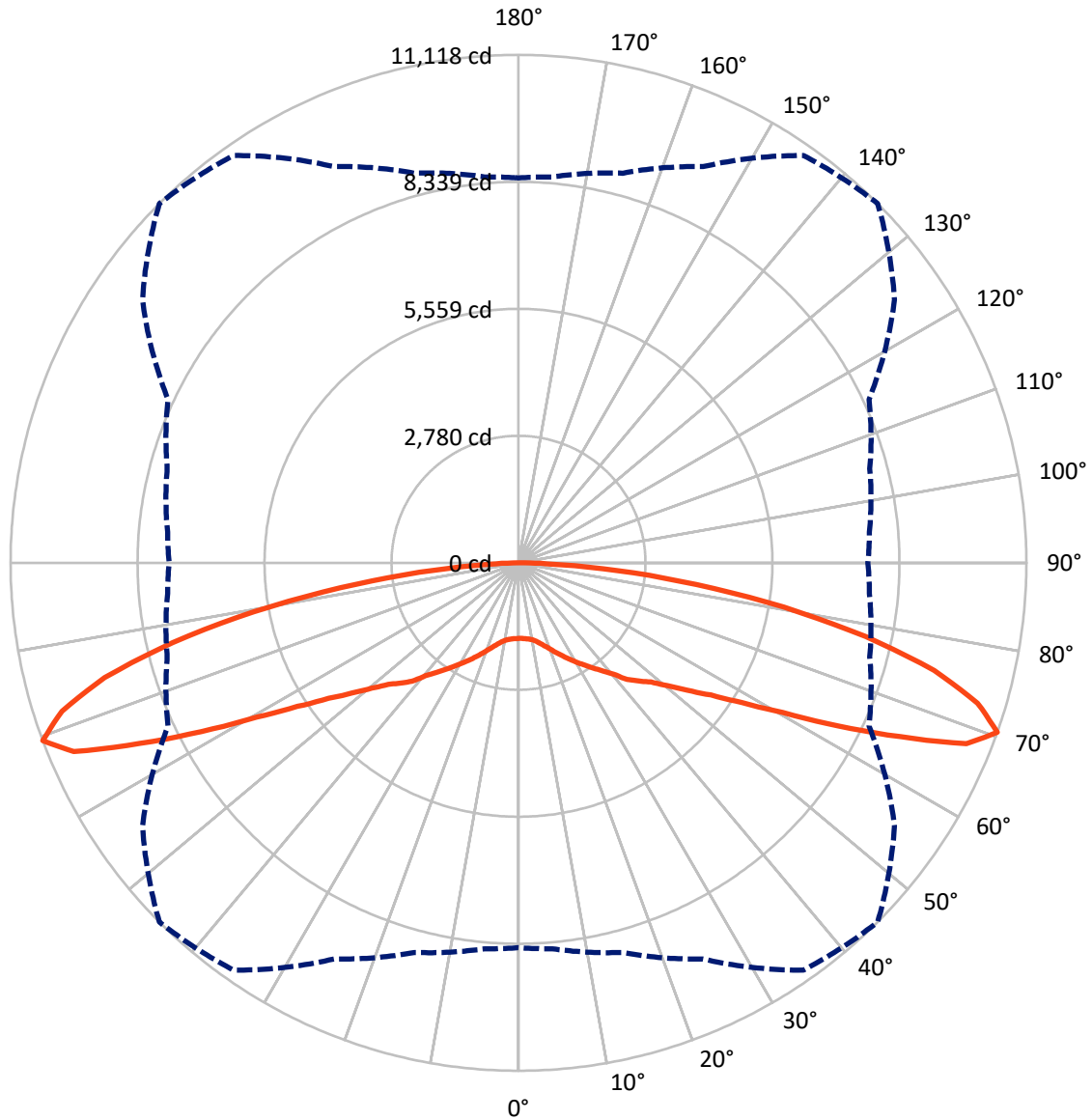
× Max cd
 - - - 1/2 Max cd



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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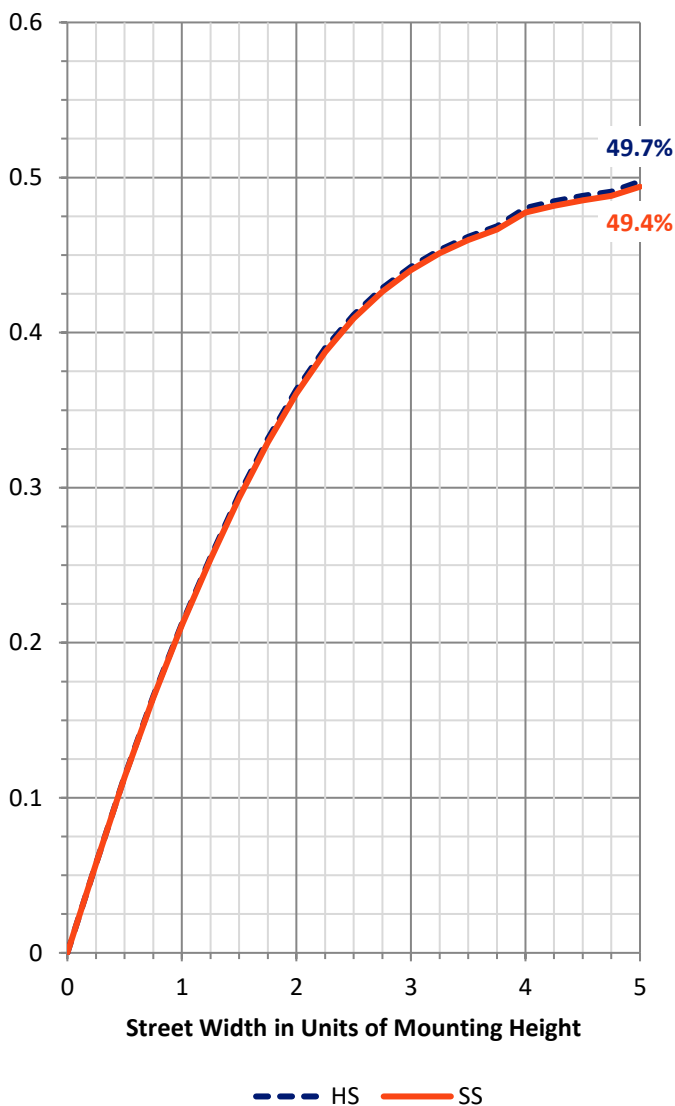
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14484.0	0.0	14484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14484.0	0.0	14484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28968.0	0.0	28968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	0.6
10°-20°	524.1	1.8
20°-30°	1037.5	3.6
30°-40°	1794.8	6.2
40°-50°	2986.3	10.3
50°-60°	5208.6	18.0
60°-70°	8622.6	29.8
70°-80°	7226.4	24.9
80°-90°	1406.7	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°	28968.0	100.0
0°-180°	28968.0	100.0

Coefficient of Utilization

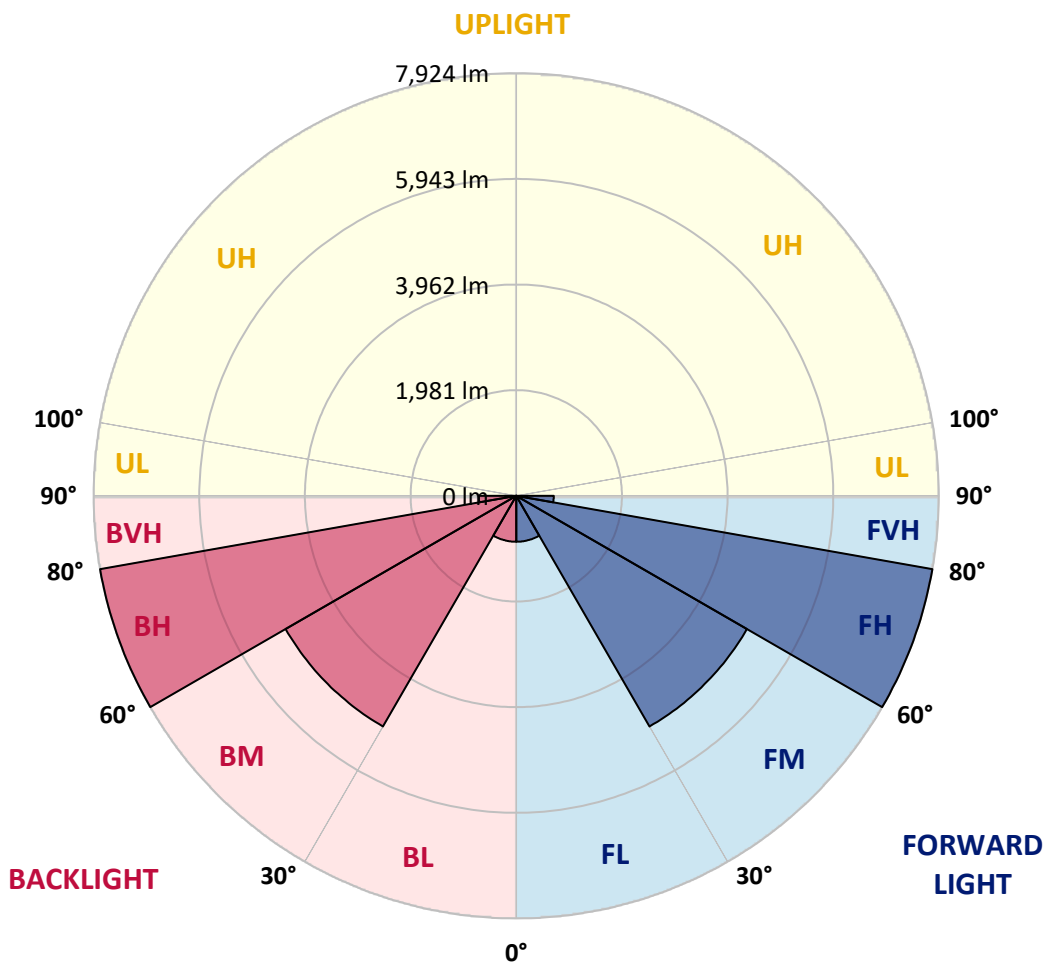


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.3	3.0			
FM (30°-60°)	4994.9	17.2			
FH (60°-80°)	7924.5	27.4			G4/12000
FVH (80°-90°)	703.4	2.4			G4/750
BL (0°-30°)	861.3	3.0	B2/1000		
BM (30°-60°)	4994.9	17.2	B3/5000		
BH (60°-80°)	7924.5	27.4	B5		G4/12000
BVH (80°-90°)	703.4	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°	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6	1655.6
2.5°	1665.9	1660.8	1659.1	1657.3	1658.5	1657.9	1660.8	1661.9	1663.1	1668.2	1665.4
5°	1676.3	1672.2	1671.7	1669.4	1668.8	1668.8	1672.8	1673.4	1674.0	1677.4	1674.0
7.5°	1695.2	1691.2	1690.0	1688.9	1688.3	1686.0	1688.9	1687.7	1688.9	1690.6	1686.6
10°	1725.0	1720.4	1719.3	1716.4	1718.1	1714.7	1717.0	1714.1	1709.0	1710.1	1704.4
12.5°	1765.8	1761.7	1763.5	1762.9	1769.8	1768.1	1763.5	1757.7	1749.1	1743.4	1737.1
15°	1826.0	1819.7	1824.3	1828.9	1835.7	1838.6	1835.2	1819.7	1807.1	1797.9	1792.7
17.5°	1899.4	1889.1	1898.3	1907.5	1922.4	1925.2	1912.6	1893.7	1879.9	1875.9	1867.3
20°	1984.9	1983.2	1983.8	1998.7	2021.6	2025.6	2009.0	1986.6	1972.9	1973.4	1963.7
22.5°	2088.2	2079.0	2081.9	2096.8	2129.5	2140.4	2112.8	2088.2	2079.6	2081.9	2080.7
25°	2206.3	2197.7	2193.7	2200.6	2243.1	2262.0	2235.6	2206.9	2202.9	2208.1	2200.0
27.5°	2336.0	2328.0	2323.4	2326.8	2360.1	2395.6	2366.4	2342.3	2341.7	2349.2	2344.6
30°	2483.4	2471.4	2466.2	2470.2	2493.2	2527.6	2504.1	2489.7	2501.8	2506.9	2505.2
32.5°	2632.6	2626.8	2625.1	2624.0	2652.1	2671.6	2660.1	2663.0	2672.7	2696.3	2688.8
35°	2802.4	2785.7	2790.3	2793.8	2830.5	2832.2	2833.4	2838.5	2864.3	2897.6	2878.1
37.5°	2979.1	2975.1	2977.9	2968.2	2995.1	3006.0	3022.1	3039.3	3080.0	3118.5	3110.4
40°	3197.6	3190.2	3193.1	3181.6	3194.8	3203.4	3236.1	3273.4	3325.6	3366.9	3347.9
42.5°	3487.3	3468.4	3468.4	3471.9	3499.4	3490.2	3560.2	3570.5	3635.4	3670.3	3659.4
45°	3828.1	3821.2	3785.1	3724.3	3689.8	3689.3	3745.5	3829.3	3936.5	4009.4	4008.8
47.5°	4261.2	4240.0	4153.4	4007.1	3919.9	3898.7	3957.8	4120.7	4318.0	4431.6	4429.9
50°	4829.2	4802.2	4670.8	4443.7	4273.8	4221.6	4316.3	4527.4	4793.0	4944.5	4957.1
52.5°	5464.8	5467.1	5318.5	4974.9	4723.6	4629.5	4729.9	5031.7	5362.7	5570.3	5595.0
55°	6203.1	6185.3	6044.8	5655.2	5309.3	5107.4	5259.4	5659.3	6039.6	6197.9	6241.5
57.5°	6971.8	6902.4	6794.6	6430.3	6025.8	5767.7	5950.1	6341.4	6705.6	6907.6	6900.7
60°	7653.3	7607.4	7545.5	7255.2	6944.9	6650.0	6790.5	7121.5	7433.6	7555.8	7561.0
62.5°	8398.0	8359.5	8303.9	8145.0	7974.0	7864.4	7737.1	7890.3	8134.1	8267.7	8311.3
65°	9128.8	9115.1	9147.2	9123.1	9195.4	9179.3	8874.1	8777.7	8781.7	8743.9	8724.4
67.5°	9085.8	9080.6	9269.9	9647.4	10367.9	10572.2	9789.1	8917.1	8524.2	8424.4	8410.0
70°	8423.2	8478.9	8829.4	9568.3	10883.1	11118.3	10046.1	8463.4	7960.8	7710.7	7648.7
72.5°	7148.5	7257.5	7795.0	8883.3	10455.1	10509.1	9400.2	7780.7	7040.7	6742.4	6698.2
75°	5515.8	5529.6	6079.8	7462.9	9330.8	9398.4	8385.3	6526.1	5798.1	5426.9	5415.5
77.5°	3359.4	3555.0	4357.6	5595.6	7417.6	7769.8	7013.1	5198.0	4332.4	4003.6	3820.1
80°	1648.2	1737.6	2315.9	3537.8	5301.9	5892.2	5204.3	3595.2	2672.2	2255.1	2209.2
82.5°	750.4	798.0	1095.7	1849.5	3199.4	3930.8	3212.0	2058.9	1426.7	1115.8	1105.5
85°	291.4	289.7	443.4	776.2	1531.7	2176.5	1626.4	982.1	652.8	485.3	457.8
87.5°	84.9	90.6	130.2	254.7	453.8	611.5	501.4	339.6	200.8	129.1	118.7
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)