

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: P232744

Luminaire Tested: **CTN-8-3-D-E1-T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-8-3-D-E1-T5
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 4000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31889 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

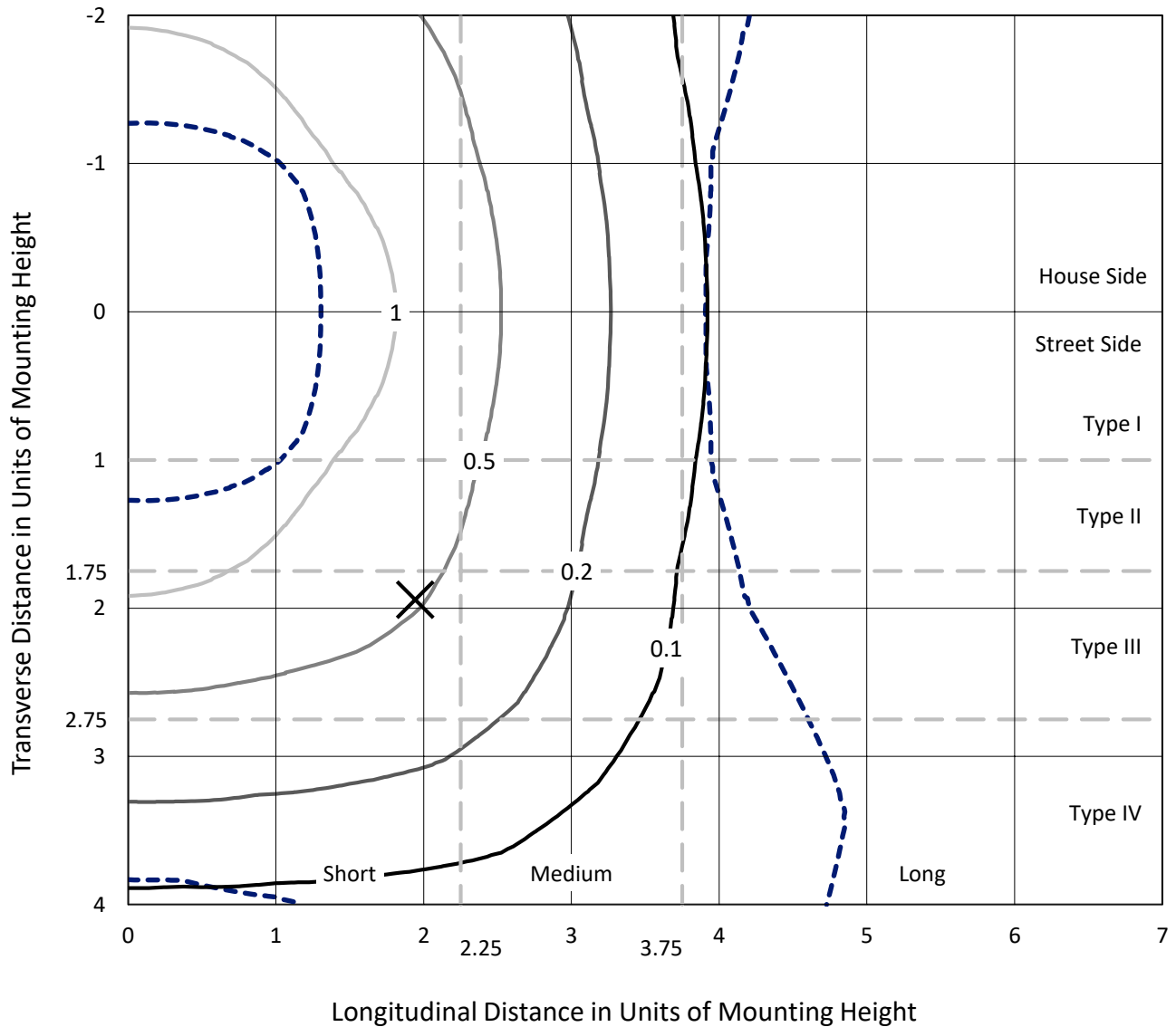
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

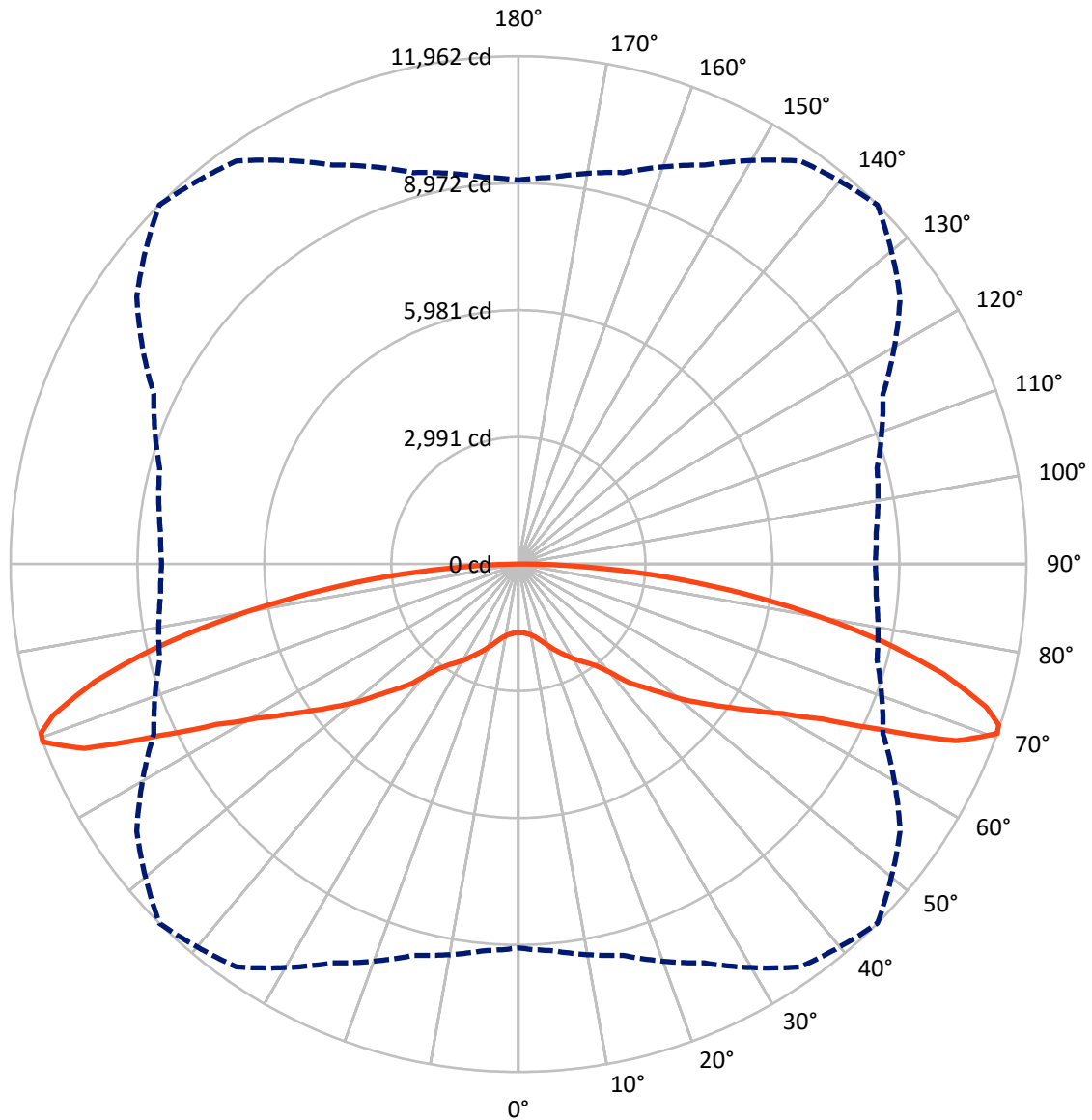
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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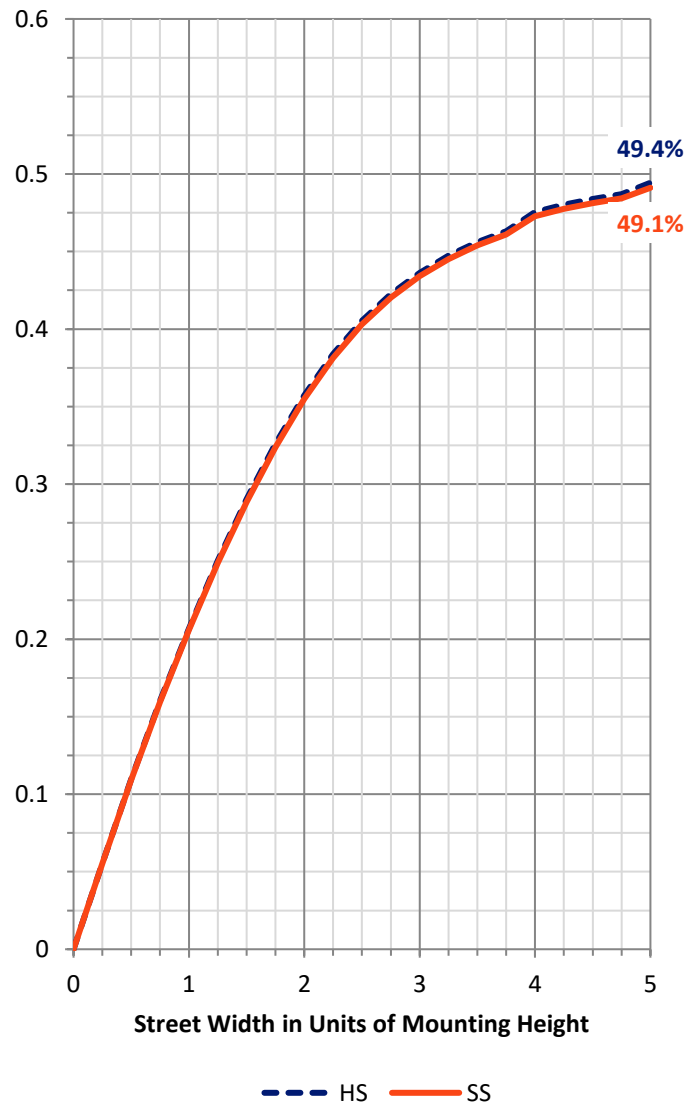
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15944.5	0.0	15944.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15944.5	0.0	15944.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31889.0	0.0	31889.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	0.5
10°-20°	528.8	1.7
20°-30°	1056.7	3.3
30°-40°	1817.2	5.7
40°-50°	3361.6	10.5
50°-60°	5713.8	17.9
60°-70°	9210.0	28.9
70°-80°	8140.0	25.5
80°-90°	1902.0	6.0
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°	31889.0	100.0
0°-180°	31889.0	100.0



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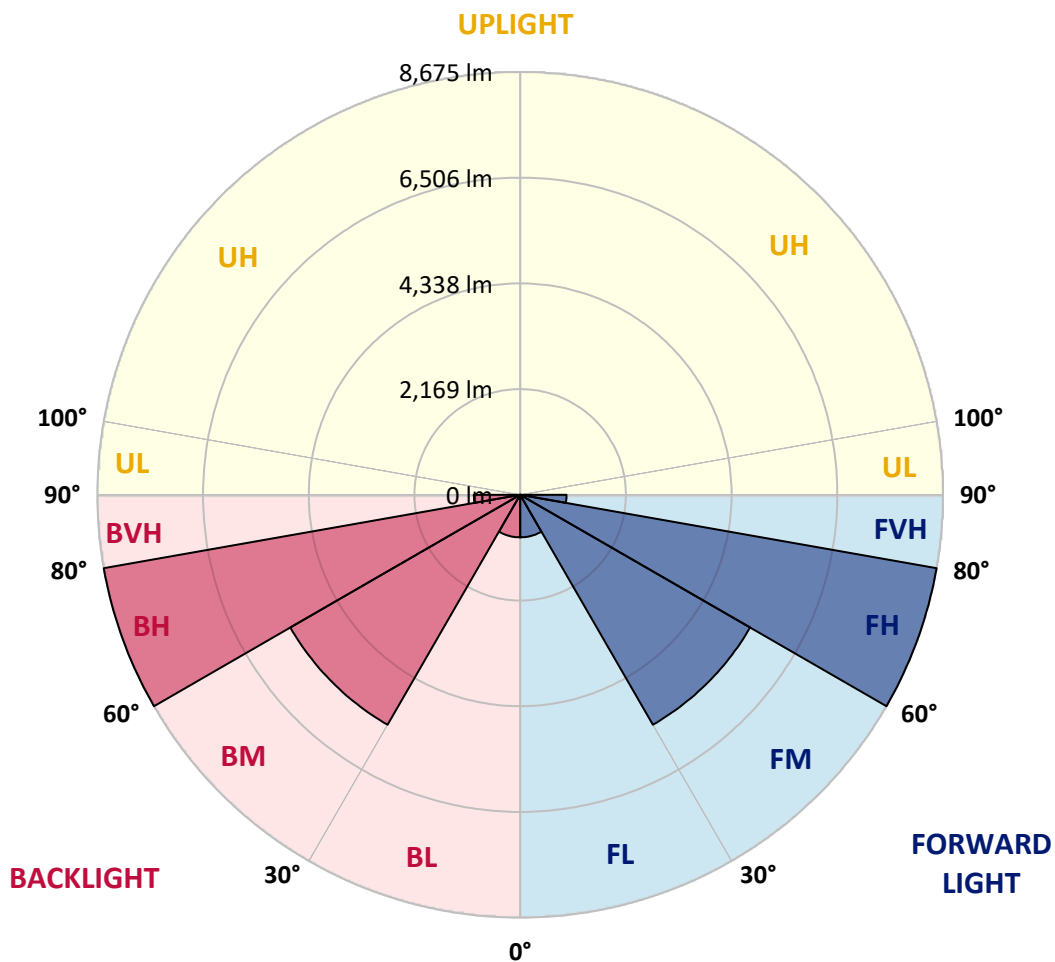
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.2	2.7			
FM	(30°-60°)	5446.3	17.1			
FH	(60°-80°)	8675.0	27.2			G4/12000
FVH	(80°-90°)	951.0	3.0			G5
BL	(0°-30°)	872.2	2.7	B2/1000		
BM	(30°-60°)	5446.3	17.1	B4/8500		
BH	(60°-80°)	8675.0	27.2	B5		G4/12000
BVH	(80°-90°)	951.0	3.0			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°	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1634.2	1631.2	1632.2	1632.2	1614.2	1618.2	1619.2	1630.2	1630.2	1635.3	1636.3
5°	1650.3	1645.3	1646.3	1650.3	1633.2	1636.3	1636.3	1647.3	1645.3	1651.3	1654.3
7.5°	1678.4	1674.4	1674.4	1678.4	1658.3	1663.3	1660.3	1670.4	1666.4	1669.4	1675.4
10°	1723.5	1722.5	1719.5	1721.5	1699.5	1702.5	1696.4	1707.5	1699.5	1700.5	1711.5
12.5°	1775.7	1774.7	1774.7	1777.7	1758.6	1763.7	1753.6	1757.6	1743.6	1745.6	1754.6
15°	1839.9	1841.9	1843.9	1853.0	1840.9	1845.9	1830.9	1828.9	1812.8	1812.8	1823.9
17.5°	1928.2	1928.2	1929.2	1949.3	1942.2	1950.3	1929.2	1915.2	1899.1	1901.1	1903.1
20°	2038.5	2034.5	2036.5	2060.6	2062.6	2068.6	2035.5	2016.5	1999.4	2000.4	1998.4
22.5°	2155.9	2147.9	2146.9	2180.0	2194.0	2196.1	2149.9	2131.8	2109.8	2112.8	2110.8
25°	2268.3	2260.3	2256.2	2283.3	2320.5	2318.4	2268.3	2242.2	2232.2	2232.2	2234.2
27.5°	2379.6	2369.6	2365.6	2381.6	2439.8	2449.9	2383.7	2360.6	2350.5	2359.6	2363.6
30°	2492.0	2484.0	2482.0	2487.0	2553.2	2597.3	2495.0	2485.0	2484.0	2492.0	2501.0
32.5°	2628.4	2627.4	2619.4	2618.4	2667.6	2731.8	2628.4	2634.5	2650.5	2668.6	2680.6
35°	2804.0	2802.0	2779.9	2790.0	2814.0	2874.2	2815.0	2819.1	2862.2	2889.3	2904.3
37.5°	3037.8	3022.7	2994.6	2995.6	3007.7	3068.9	3045.8	3076.9	3155.1	3205.3	3200.3
40°	3368.8	3344.7	3302.6	3290.6	3288.6	3375.8	3397.9	3468.1	3591.5	3665.8	3660.8
42.5°	3842.3	3817.3	3753.1	3736.0	3743.0	3811.2	3875.4	3986.8	4094.1	4180.4	4175.4
45°	4327.9	4295.8	4192.5	4134.3	4084.1	4136.3	4236.6	4411.2	4539.6	4652.9	4650.9
47.5°	4889.7	4839.5	4715.1	4603.8	4503.5	4522.5	4629.9	4829.5	4985.0	5098.4	5091.4
50°	5499.7	5449.5	5313.1	5145.5	4990.0	5003.1	5055.2	5265.9	5420.4	5530.8	5532.8
52.5°	6151.8	6115.6	5959.1	5737.4	5523.7	5450.5	5483.6	5678.2	5855.8	5960.1	5969.2
55°	6855.0	6819.9	6655.4	6399.6	6106.6	5942.1	5941.1	6136.7	6316.3	6407.6	6421.6
57.5°	7560.3	7541.2	7396.8	7117.9	6748.7	6496.9	6439.7	6643.3	6845.0	6939.3	6958.3
60°	8286.6	8260.5	8140.1	7906.4	7501.1	7156.0	7059.7	7263.3	7491.1	7588.4	7600.4
62.5°	9109.3	9083.2	8990.9	8744.1	8445.1	8045.8	7906.4	8094.0	8304.7	8460.2	8444.1
65°	9931.9	9925.9	9965.0	9853.6	9624.9	9396.2	9121.3	9327.0	9482.5	9467.4	9462.4
67.5°	9800.5	9838.6	10109.5	10495.7	10978.3	11114.7	10479.7	9903.8	9564.7	9368.1	9305.9
70°	9044.0	9142.4	9543.6	10367.3	11584.2	11962.4	10975.2	9474.4	8746.1	8459.2	8404.0
71°	8626.7	8704.0	9166.4	10172.7	11588.2	11929.3	10857.9	9151.4	8411.0	8017.7	7979.6
72.5°	7814.1	7933.5	8444.1	9640.0	11236.1	11523.0	10346.2	8549.5	7774.0	7390.7	7369.7
75°	6247.1	6283.2	6942.3	8300.7	10117.5	10345.2	9184.5	7418.8	6619.3	6357.4	6342.4
77.5°	4409.2	4410.2	5042.2	6470.8	8387.9	8757.1	7954.5	6116.6	5309.0	4980.0	4906.8
80°	2335.5	2430.8	3057.8	4447.3	6283.2	6891.1	6321.3	4624.9	3733.0	3252.4	3185.2
82.5°	1064.4	1132.6	1538.9	2521.1	4132.3	4962.9	4336.9	3002.6	2000.4	1481.8	1438.6
85°	413.3	423.4	635.0	1197.8	2310.4	3113.0	2525.1	1407.5	696.2	425.4	394.3
87.5°	135.4	144.5	206.7	461.5	983.2	1243.0	976.1	423.4	135.4	84.3	81.3
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)