

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: P232745

Luminaire Tested: **CTN-10-3-D-E1-T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232745
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-10-3-D-E1-T5
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 4000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32245 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

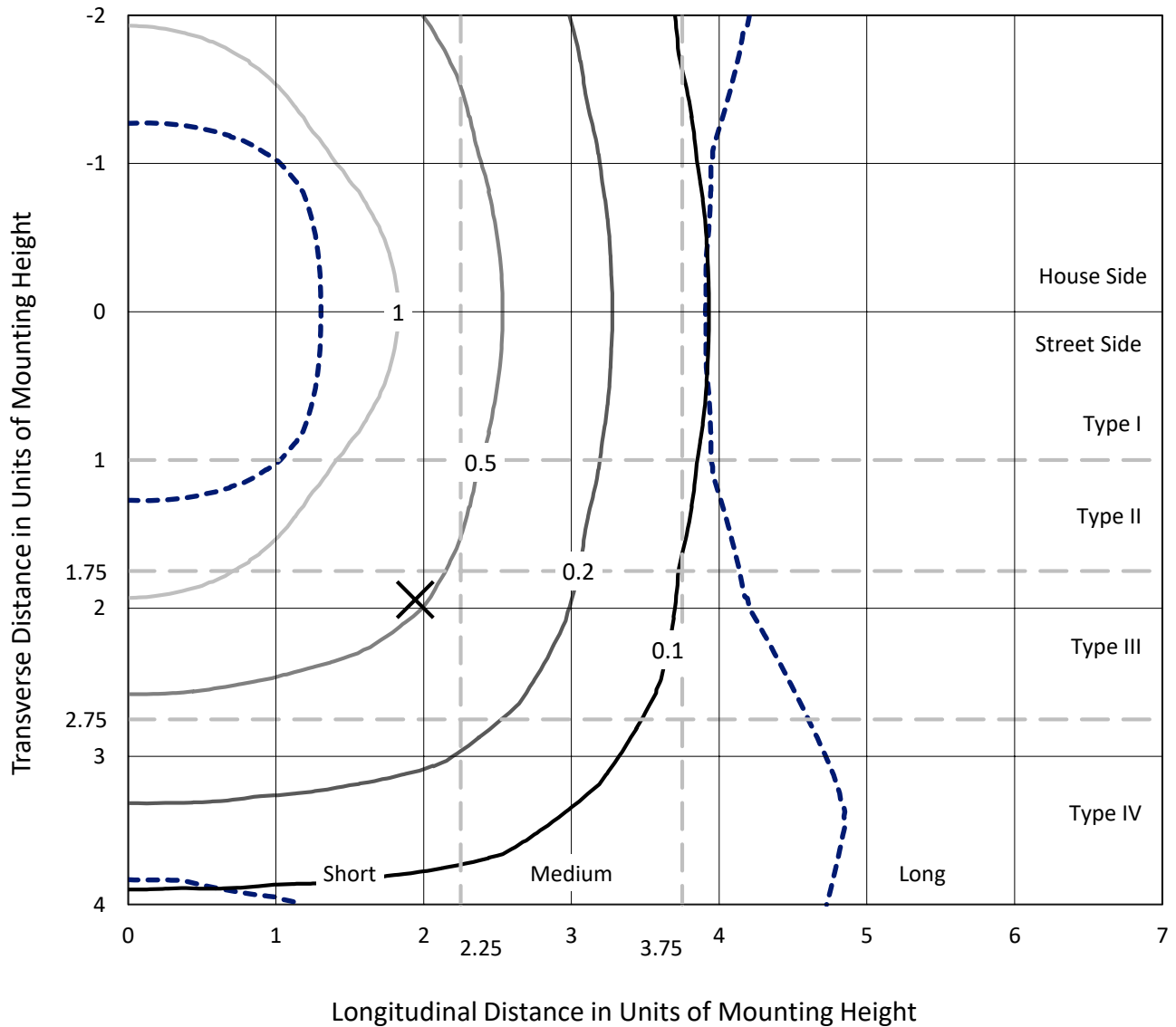
Input Watts (W): 212
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

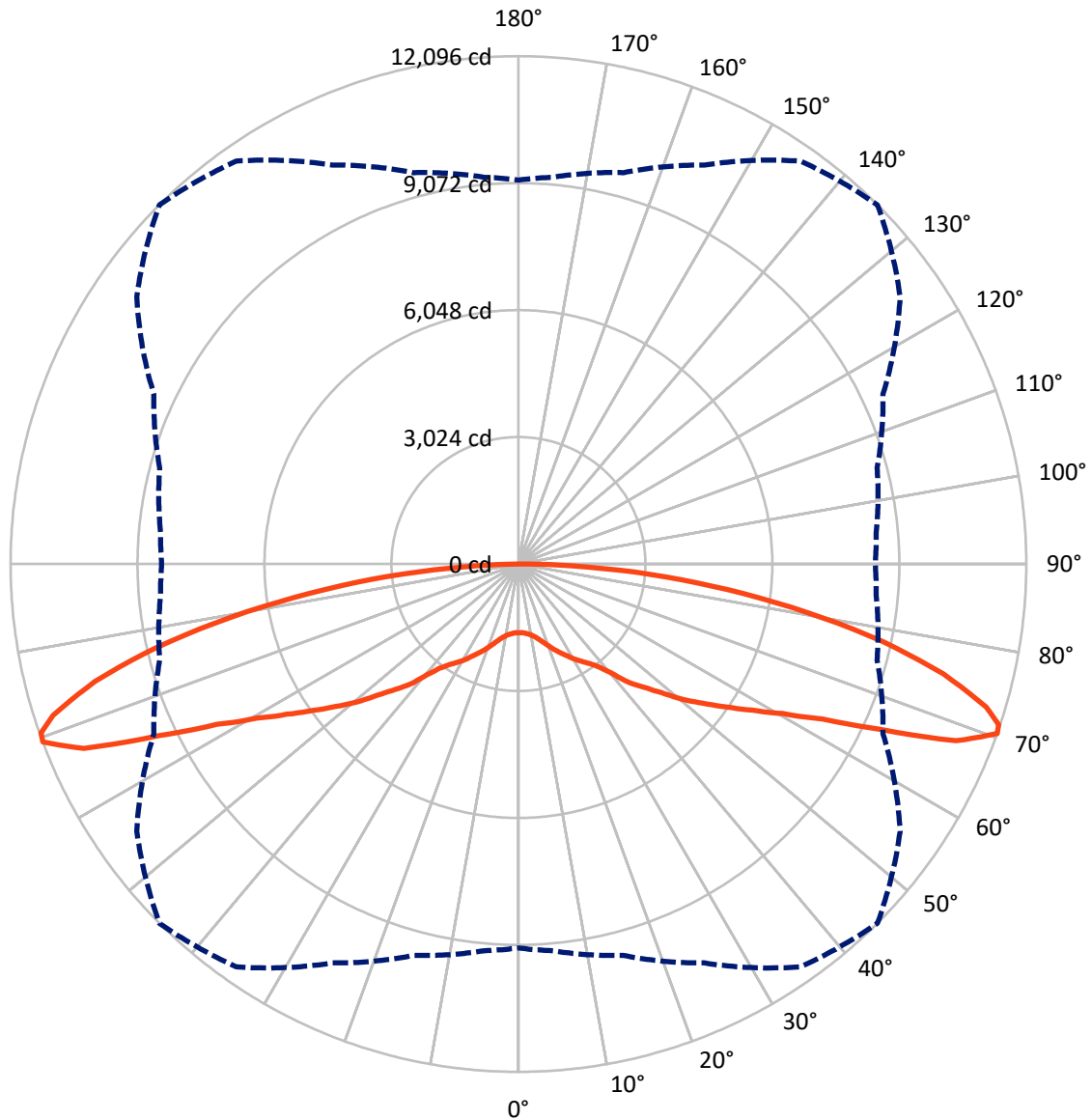
× Max cd
 - - - 1/2 Max cd



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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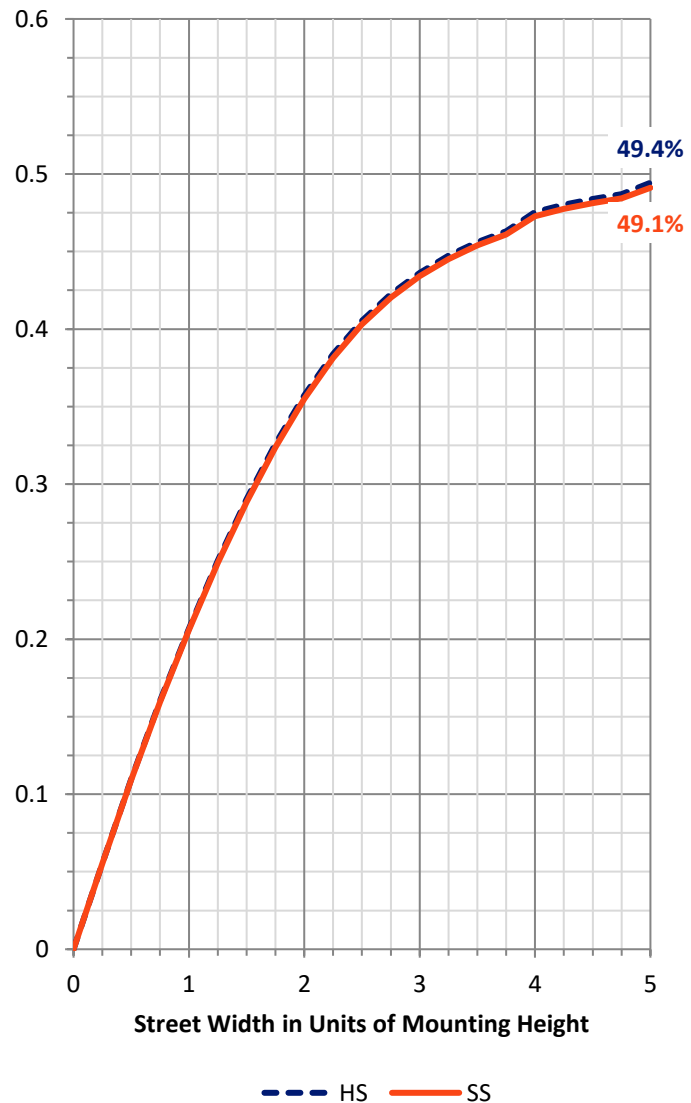
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16122.5	0.0	16122.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16122.5	0.0	16122.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32245.0	0.0	32245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	0.5
10°-20°	534.7	1.7
20°-30°	1068.5	3.3
30°-40°	1837.4	5.7
40°-50°	3399.2	10.5
50°-60°	5777.6	17.9
60°-70°	9312.8	28.9
70°-80°	8230.9	25.5
80°-90°	1923.3	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°	32245.0	100.0
0°-180°	32245.0	100.0



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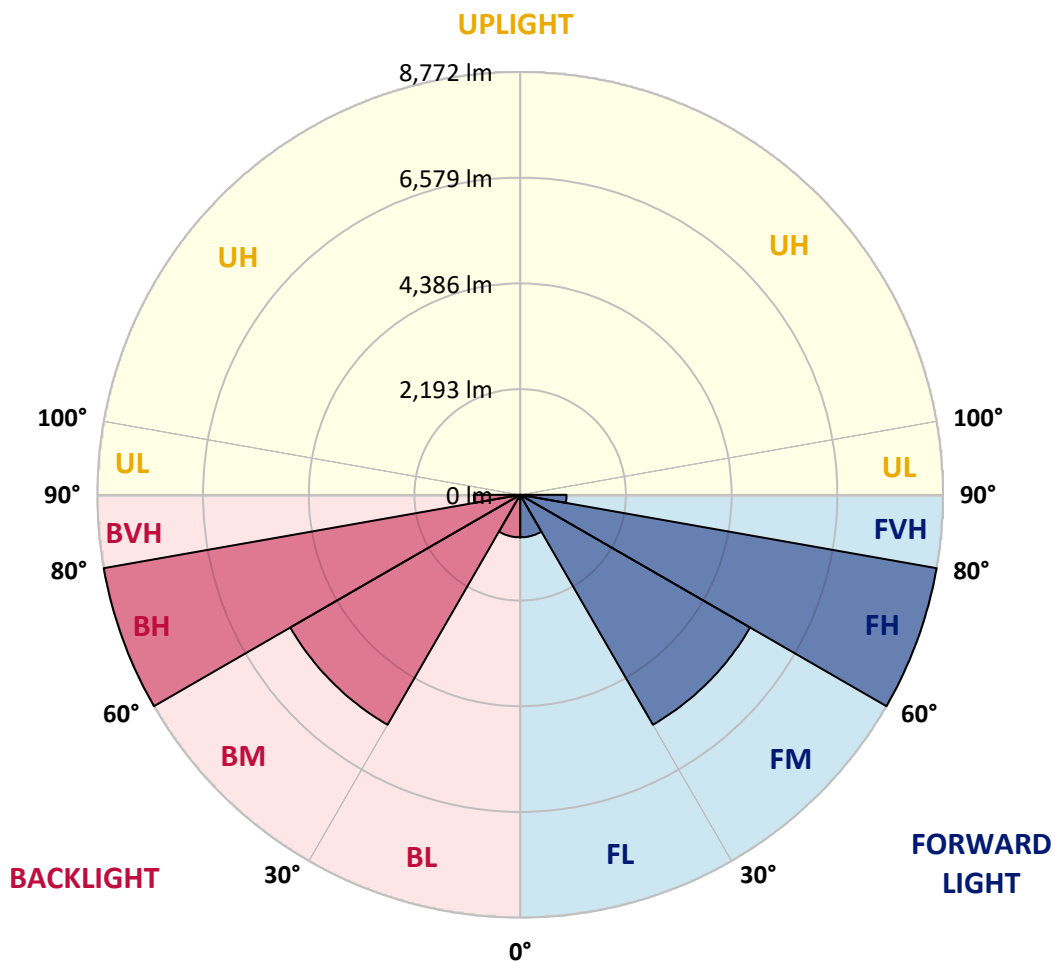
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	881.9	2.7			
FM	(30°-60°)	5507.1	17.1			
FH	(60°-80°)	8771.9	27.2			G4/12000
FVH	(80°-90°)	961.6	3.0			G5
BL	(0°-30°)	881.9	2.7	B2/1000		
BM	(30°-60°)	5507.1	17.1	B4/8500		
BH	(60°-80°)	8771.9	27.2	B5		G4/12000
BVH	(80°-90°)	961.6	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°	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3	1638.3
2.5°	1652.5	1649.4	1650.5	1650.5	1632.2	1636.3	1637.3	1648.4	1648.4	1653.5	1654.5
5°	1668.7	1663.7	1664.7	1668.7	1651.5	1654.5	1654.5	1665.7	1663.7	1669.7	1672.8
7.5°	1697.1	1693.1	1693.1	1697.1	1676.8	1681.9	1678.9	1689.0	1685.0	1688.0	1694.1
10°	1742.8	1741.8	1738.7	1740.7	1718.4	1721.5	1715.4	1726.5	1718.4	1719.4	1730.6
12.5°	1795.5	1794.5	1794.5	1797.6	1778.3	1783.4	1773.2	1777.3	1763.1	1765.1	1774.2
15°	1860.4	1862.5	1864.5	1873.6	1861.5	1866.5	1851.3	1849.3	1833.1	1833.1	1844.2
17.5°	1949.7	1949.7	1950.7	1971.0	1963.9	1972.0	1950.7	1936.5	1920.3	1922.3	1924.4
20°	2061.3	2057.2	2059.3	2083.6	2085.7	2091.7	2058.3	2039.0	2021.7	2022.8	2020.7
22.5°	2180.0	2171.9	2170.9	2204.3	2218.5	2220.6	2173.9	2155.6	2133.3	2136.4	2134.3
25°	2293.6	2285.5	2281.4	2308.8	2346.4	2344.3	2293.6	2267.2	2257.1	2257.1	2259.1
27.5°	2406.2	2396.1	2392.0	2408.2	2467.1	2477.2	2410.3	2386.9	2376.8	2385.9	2390.0
30°	2519.8	2511.7	2509.7	2514.8	2581.7	2626.3	2522.9	2512.7	2511.7	2519.8	2529.0
32.5°	2657.8	2656.8	2648.7	2647.6	2697.3	2762.3	2657.8	2663.9	2680.1	2698.4	2710.5
35°	2835.3	2833.3	2811.0	2821.1	2845.5	2906.3	2846.5	2850.5	2894.1	2921.5	2936.7
37.5°	3071.7	3056.5	3028.0	3029.1	3041.2	3103.1	3079.8	3111.2	3190.4	3241.1	3236.0
40°	3406.4	3382.1	3339.5	3327.3	3325.3	3413.5	3435.8	3506.9	3631.6	3706.7	3701.6
42.5°	3885.2	3859.9	3795.0	3777.7	3784.8	3853.8	3918.7	4031.3	4139.9	4227.1	4222.0
45°	4376.2	4343.8	4239.3	4180.4	4129.7	4182.5	4283.9	4460.4	4590.3	4704.9	4702.9
47.5°	4944.3	4893.6	4767.8	4655.2	4553.7	4573.0	4681.6	4883.4	5040.7	5155.3	5148.2
50°	5561.1	5510.3	5372.4	5203.0	5045.7	5058.9	5111.7	5324.7	5480.9	5592.5	5594.5
52.5°	6220.4	6183.9	6025.7	5801.5	5585.4	5511.4	5544.8	5741.6	5921.2	6026.7	6035.8
55°	6931.5	6896.0	6729.7	6471.0	6174.8	6008.4	6007.4	6205.2	6386.8	6479.1	6493.3
57.5°	7644.7	7625.4	7479.3	7197.3	6824.0	6569.4	6511.6	6717.5	6921.4	7016.8	7036.0
60°	8379.1	8352.7	8231.0	7994.7	7584.8	7235.9	7138.5	7344.4	7574.7	7673.1	7685.3
62.5°	9210.9	9184.6	9091.2	8841.7	8539.4	8135.7	7994.7	8184.4	8397.4	8554.6	8538.4
65°	10042.8	10036.7	10076.2	9963.6	9732.4	9501.1	9223.1	9431.1	9588.3	9573.1	9568.0
67.5°	9909.9	9948.4	10222.3	10612.9	11100.8	11238.8	10596.6	10014.4	9671.5	9472.7	9409.8
70°	9145.0	9244.4	9650.2	10483.0	11713.5	12096.0	11097.8	9580.2	8843.7	8553.6	8497.8
71°	8723.0	8801.1	9268.8	10286.2	11717.6	12062.5	10979.1	9253.6	8504.9	8107.3	8068.7
72.5°	7901.3	8022.0	8538.4	9747.6	11361.5	11651.6	10461.7	8644.9	7860.8	7473.2	7451.9
75°	6316.8	6353.3	7019.8	8393.3	10230.4	10460.7	9287.0	7501.6	6693.2	6428.4	6413.2
77.5°	4458.4	4459.4	5098.5	6543.0	8481.6	8854.9	8043.3	6184.9	5368.3	5035.6	4961.5
80°	2361.6	2457.9	3092.0	4496.9	6353.3	6968.1	6391.9	4676.5	3774.7	3288.8	3220.8
82.5°	1076.3	1145.3	1556.1	2549.2	4178.4	5018.3	4385.3	3036.2	2022.8	1498.3	1454.7
85°	417.9	428.1	642.1	1211.2	2336.2	3147.7	2553.3	1423.2	704.0	430.1	398.7
87.5°	136.9	146.1	209.0	466.6	994.1	1256.9	987.0	428.1	136.9	85.2	82.2
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)