

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: P232752

Luminaire Tested: **CTN-8-3-D-E1-T5-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232752
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-T5-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32213 lumens
Efficiency: N/A
Efficacy: 142.5 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

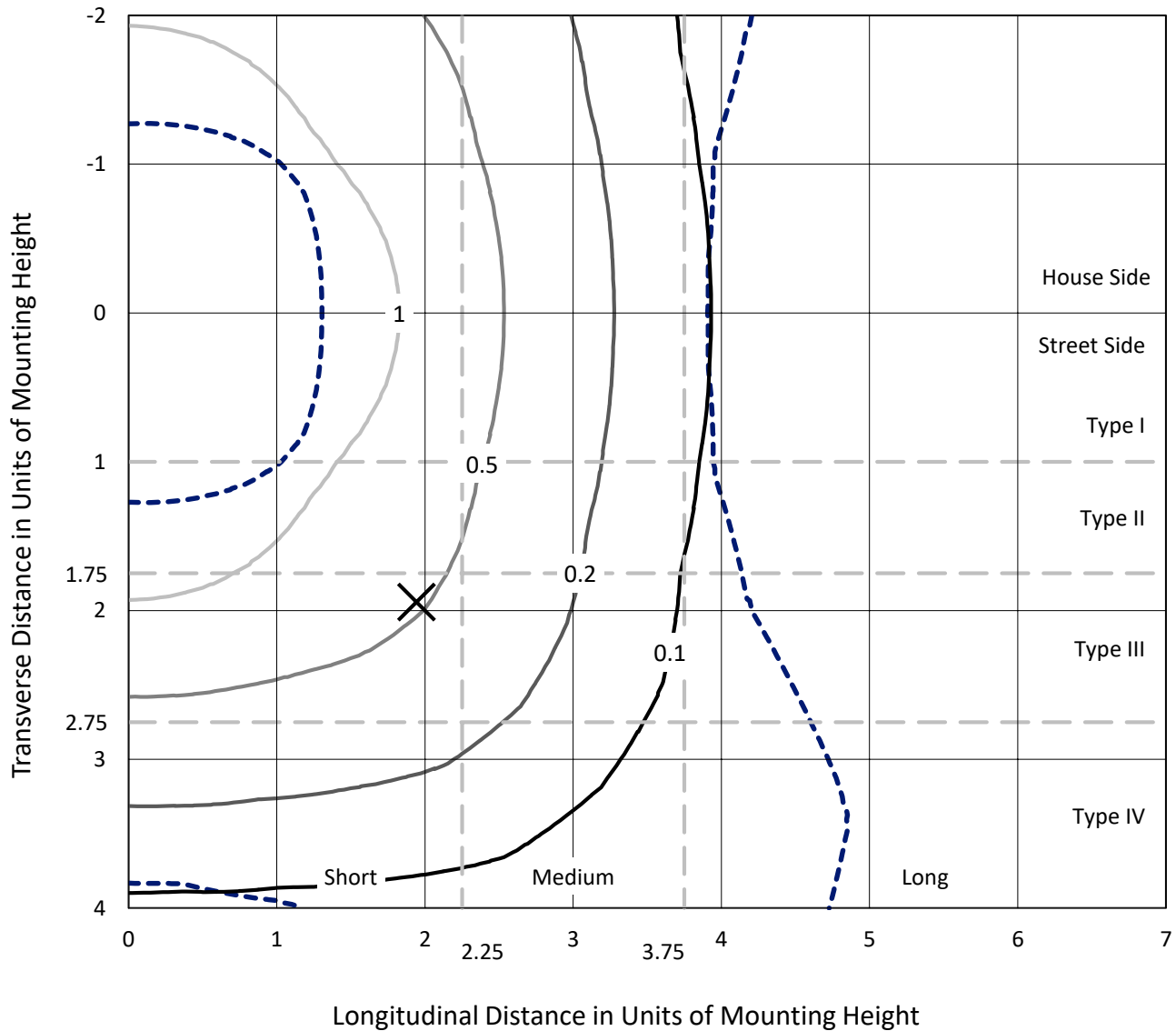


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Iso-Footcandle Lines of Horizontal Illumination

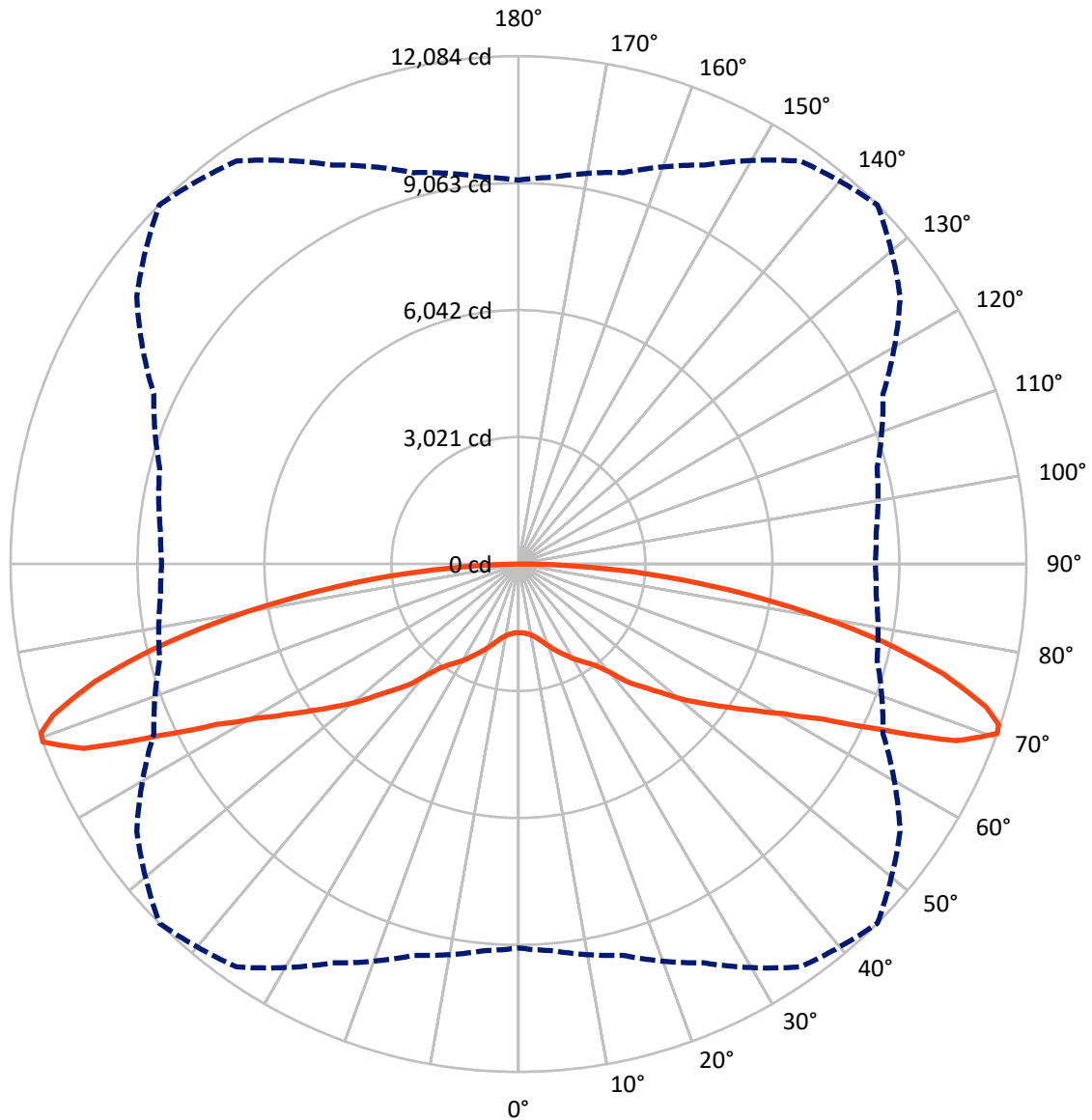
× Max cd
 - - - 1/2 Max cd



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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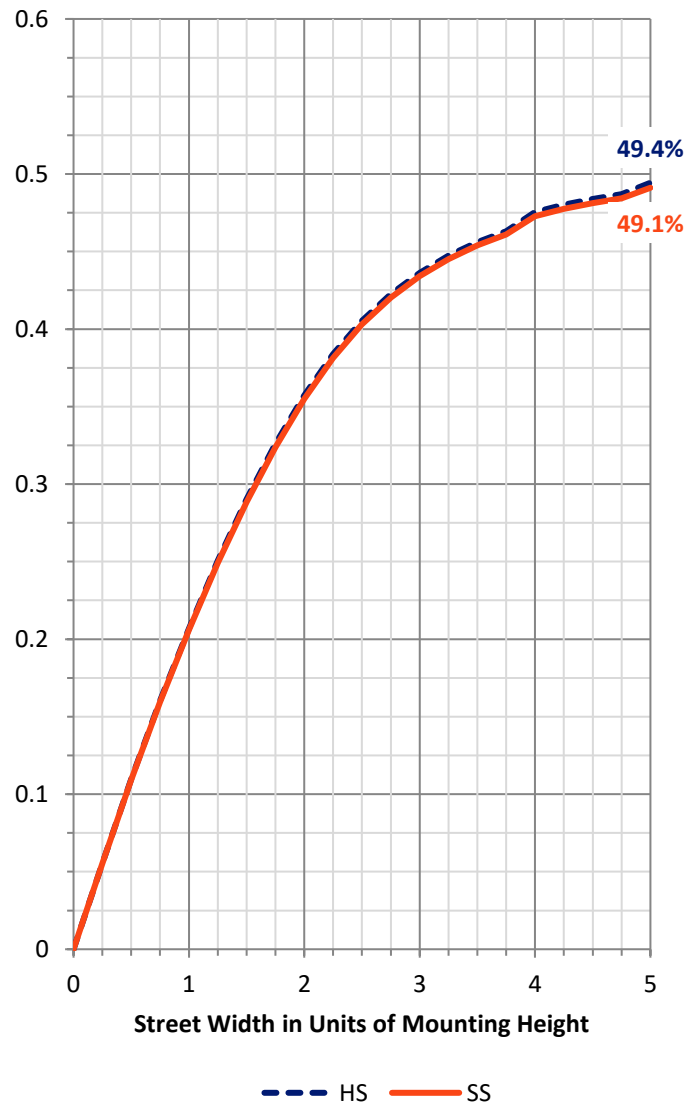
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16106.5	0.0	16106.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16106.5	0.0	16106.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32213.0	0.0	32213.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	0.5
10°-20°	534.2	1.7
20°-30°	1067.4	3.3
30°-40°	1835.6	5.7
40°-50°	3395.8	10.5
50°-60°	5771.9	17.9
60°-70°	9303.6	28.9
70°-80°	8222.7	25.5
80°-90°	1921.4	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°	32213.0	100.0
0°-180°	32213.0	100.0



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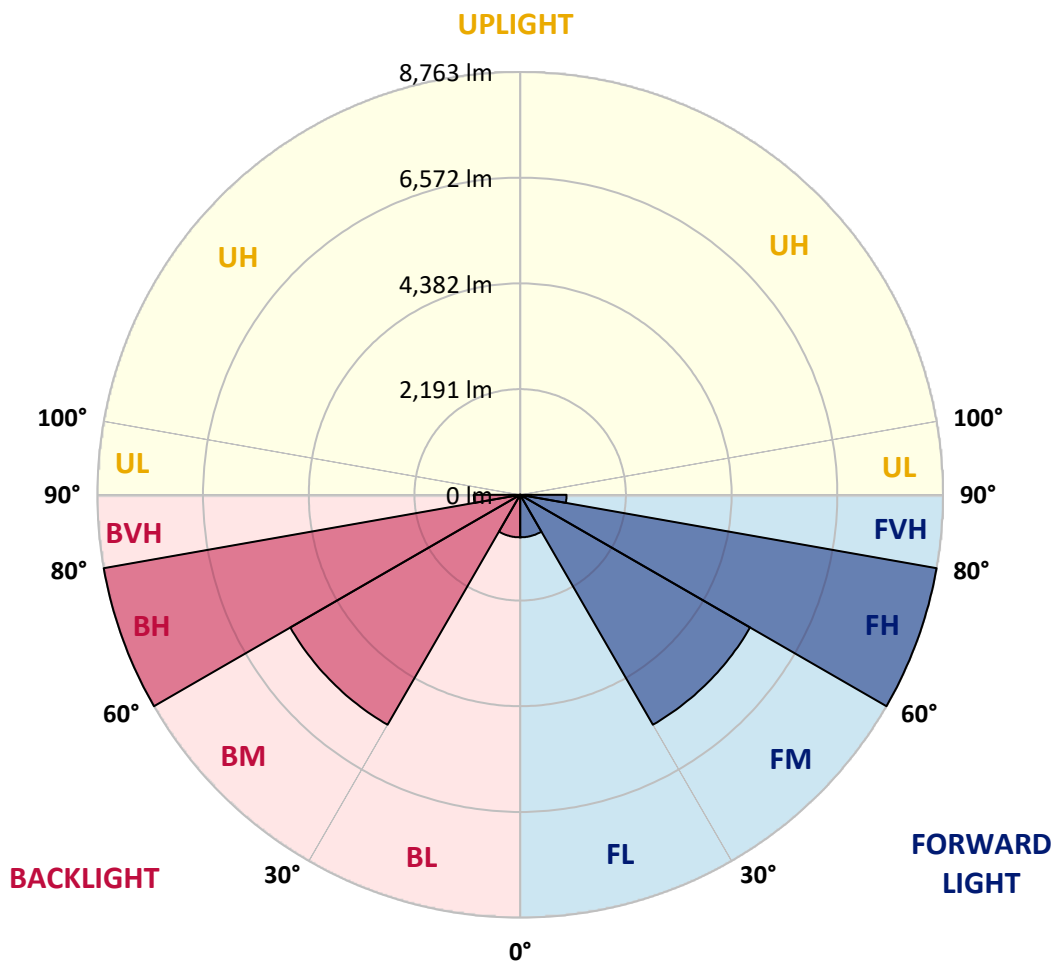
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	881.0	2.7			
FM	(30°-60°)	5501.6	17.1			
FH	(60°-80°)	8763.1	27.2			G4/12000
FVH	(80°-90°)	960.7	3.0			G5
BL	(0°-30°)	881.0	2.7	B2/1000		
BM	(30°-60°)	5501.6	17.1	B4/8500		
BH	(60°-80°)	8763.1	27.2	B5		G4/12000
BVH	(80°-90°)	960.7	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°	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7
2.5°	1650.9	1647.8	1648.8	1648.8	1630.6	1634.6	1635.7	1646.8	1646.8	1651.9	1652.9
5°	1667.1	1662.0	1663.0	1667.1	1649.8	1652.9	1652.9	1664.0	1662.0	1668.1	1671.1
7.5°	1695.4	1691.4	1691.4	1695.4	1675.2	1680.2	1677.2	1687.3	1683.3	1686.3	1692.4
10°	1741.0	1740.0	1737.0	1739.0	1716.7	1719.8	1713.7	1724.8	1716.7	1717.7	1728.9
12.5°	1793.7	1792.7	1792.7	1795.8	1776.5	1781.6	1771.4	1775.5	1761.3	1763.3	1772.5
15°	1858.6	1860.6	1862.7	1871.8	1859.6	1864.7	1849.5	1847.5	1831.2	1831.2	1842.4
17.5°	1947.8	1947.8	1948.8	1969.1	1962.0	1970.1	1948.8	1934.6	1918.4	1920.4	1922.4
20°	2059.3	2055.2	2057.2	2081.6	2083.6	2089.7	2056.2	2037.0	2019.7	2020.7	2018.7
22.5°	2177.8	2169.7	2168.7	2202.2	2216.3	2218.4	2171.7	2153.5	2131.2	2134.3	2132.2
25°	2291.3	2283.2	2279.2	2306.5	2344.0	2342.0	2291.3	2265.0	2254.8	2254.8	2256.9
27.5°	2403.8	2393.7	2389.6	2405.8	2464.6	2474.8	2407.9	2384.6	2374.4	2383.6	2387.6
30°	2517.3	2509.2	2507.2	2512.3	2579.1	2623.7	2520.4	2510.2	2509.2	2517.3	2526.4
32.5°	2655.1	2654.1	2646.0	2645.0	2694.7	2759.5	2655.1	2661.2	2677.4	2695.7	2707.8
35°	2832.5	2830.5	2808.2	2818.3	2842.6	2903.4	2843.6	2847.7	2891.3	2918.6	2933.8
37.5°	3068.6	3053.4	3025.0	3026.1	3038.2	3100.0	3076.7	3108.1	3187.2	3237.9	3232.8
40°	3403.0	3378.7	3336.2	3324.0	3322.0	3410.1	3432.4	3503.4	3628.0	3703.0	3698.0
42.5°	3881.4	3856.0	3791.2	3774.0	3781.1	3850.0	3914.8	4027.3	4135.7	4222.9	4217.8
45°	4371.9	4339.4	4235.1	4176.3	4125.6	4178.3	4279.7	4456.0	4585.7	4700.2	4698.2
47.5°	4939.4	4888.7	4763.0	4650.6	4549.2	4568.5	4676.9	4878.6	5035.7	5150.2	5143.1
50°	5555.5	5504.9	5367.0	5197.8	5040.7	5053.9	5106.6	5319.4	5475.5	5587.0	5589.0
52.5°	6214.3	6177.8	6019.7	5795.7	5579.9	5505.9	5539.3	5735.9	5915.3	6020.7	6029.8
55°	6924.7	6889.2	6723.0	6464.6	6168.7	6002.5	6001.4	6199.1	6380.5	6472.7	6486.9
57.5°	7637.1	7617.8	7471.9	7190.2	6817.2	6562.9	6505.1	6710.8	6914.5	7009.8	7029.0
60°	8370.8	8344.5	8222.8	7986.7	7577.3	7228.7	7131.4	7337.1	7567.2	7665.5	7677.6
62.5°	9201.8	9175.5	9082.2	8832.9	8530.9	8127.6	7986.7	8176.2	8389.0	8546.1	8529.9
65°	10032.8	10026.7	10066.2	9953.8	9722.7	9491.6	9214.0	9421.7	9578.8	9563.6	9558.5
67.5°	9900.0	9938.6	10212.2	10602.3	11089.8	11227.6	10586.1	10004.4	9661.9	9463.3	9400.4
70°	9135.9	9235.2	9640.6	10472.6	11701.9	12084.0	11086.8	9570.7	8834.9	8545.1	8489.4
71°	8714.4	8792.4	9259.6	10276.0	11706.0	12050.5	10968.2	9244.4	8496.5	8099.2	8060.7
72.5°	7893.5	8014.1	8529.9	9737.9	11350.2	11640.1	10451.3	8636.3	7853.0	7465.8	7444.5
75°	6310.5	6347.0	7012.8	8385.0	10220.3	10450.3	9277.8	7494.2	6686.5	6422.0	6406.8
77.5°	4454.0	4455.0	5093.4	6536.5	8473.2	8846.1	8035.4	6178.8	5363.0	5030.6	4956.6
80°	2359.2	2455.5	3088.9	4492.5	6347.0	6961.1	6385.5	4671.8	3770.9	3285.5	3217.6
82.5°	1075.2	1144.1	1554.6	2546.7	4174.3	5013.4	4381.0	3033.2	2020.7	1496.8	1453.2
85°	417.5	427.7	641.5	1210.0	2333.9	3144.6	2550.8	1421.8	703.3	429.7	398.3
87.5°	136.8	145.9	208.8	466.2	993.1	1255.6	986.1	427.7	136.8	85.1	82.1
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)