

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: P232737

Luminaire Tested: **CTN-10-3-D-E1-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232737
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-T5-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31378 lumens
Efficiency: N/A
Efficacy: 148.0 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

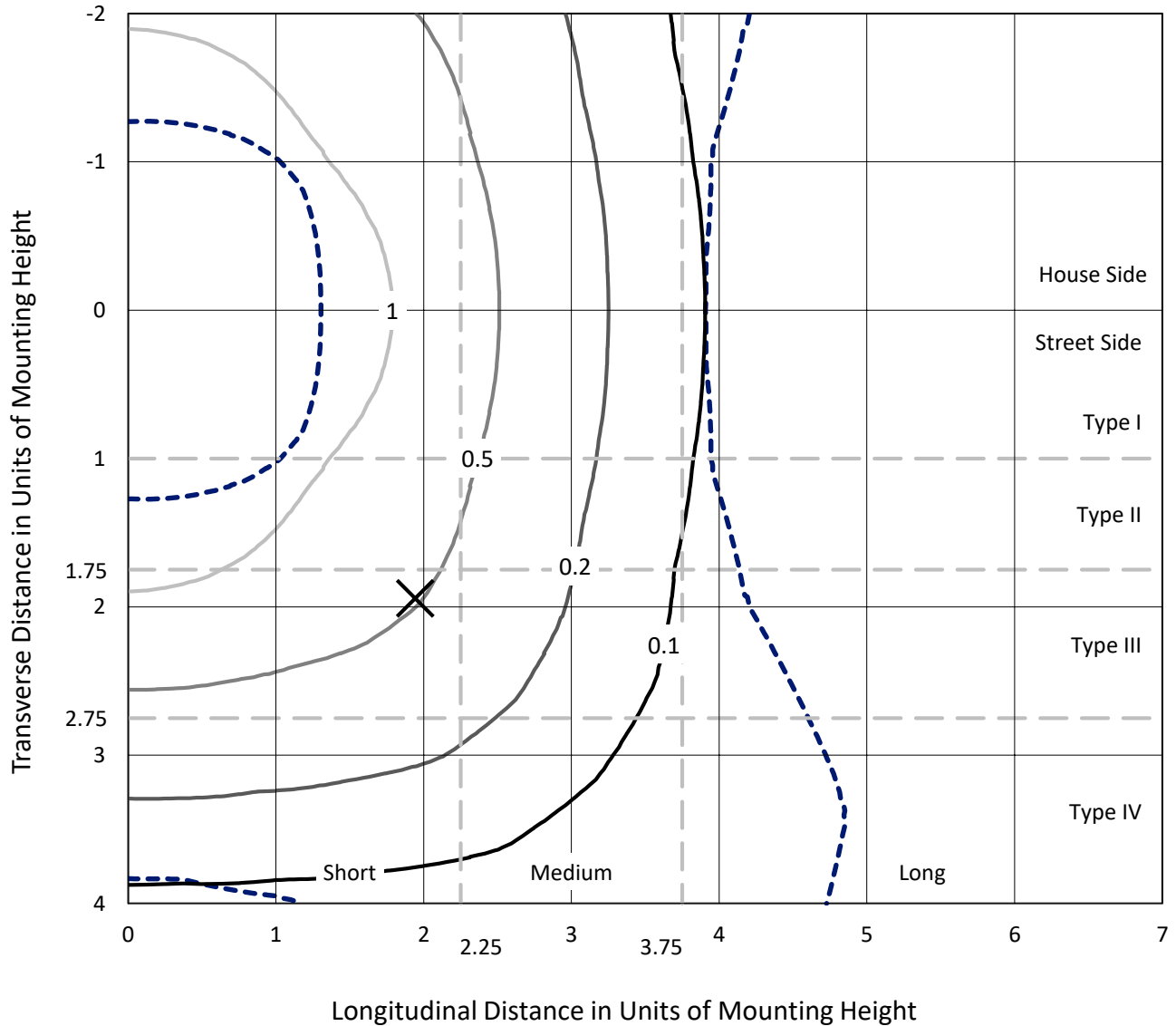


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

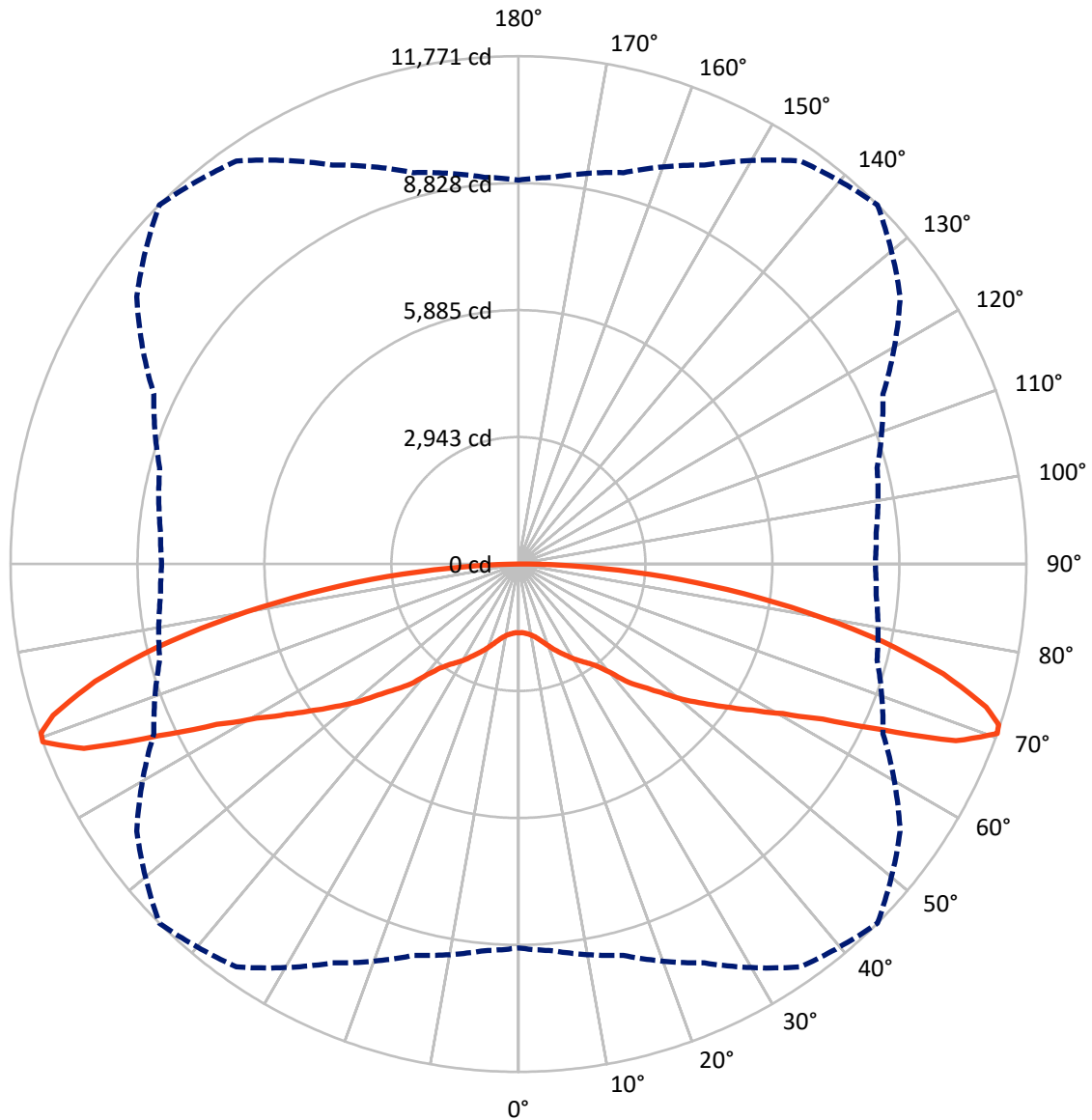


Based on 30 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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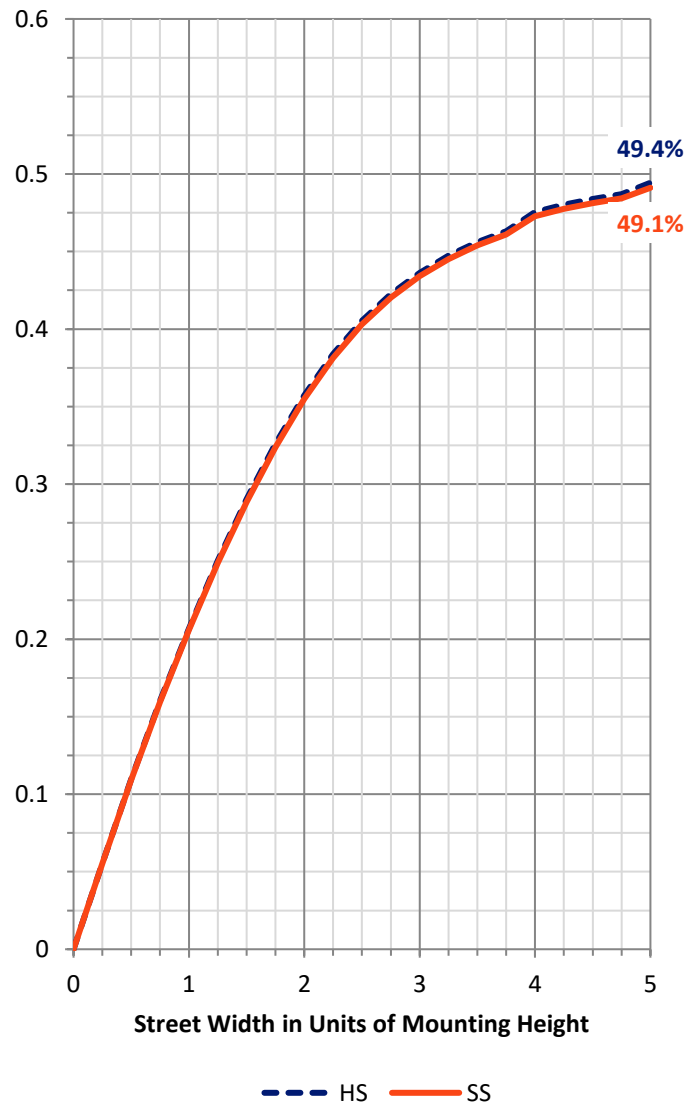
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15689.0	0.0	15689.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15689.0	0.0	15689.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31378.0	0.0	31378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	0.5
10°-20°	520.3	1.7
20°-30°	1039.8	3.3
30°-40°	1788.0	5.7
40°-50°	3307.8	10.5
50°-60°	5622.2	17.9
60°-70°	9062.4	28.9
70°-80°	8009.6	25.5
80°-90°	1871.6	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°	31378.0	100.0
0°-180°	31378.0	100.0



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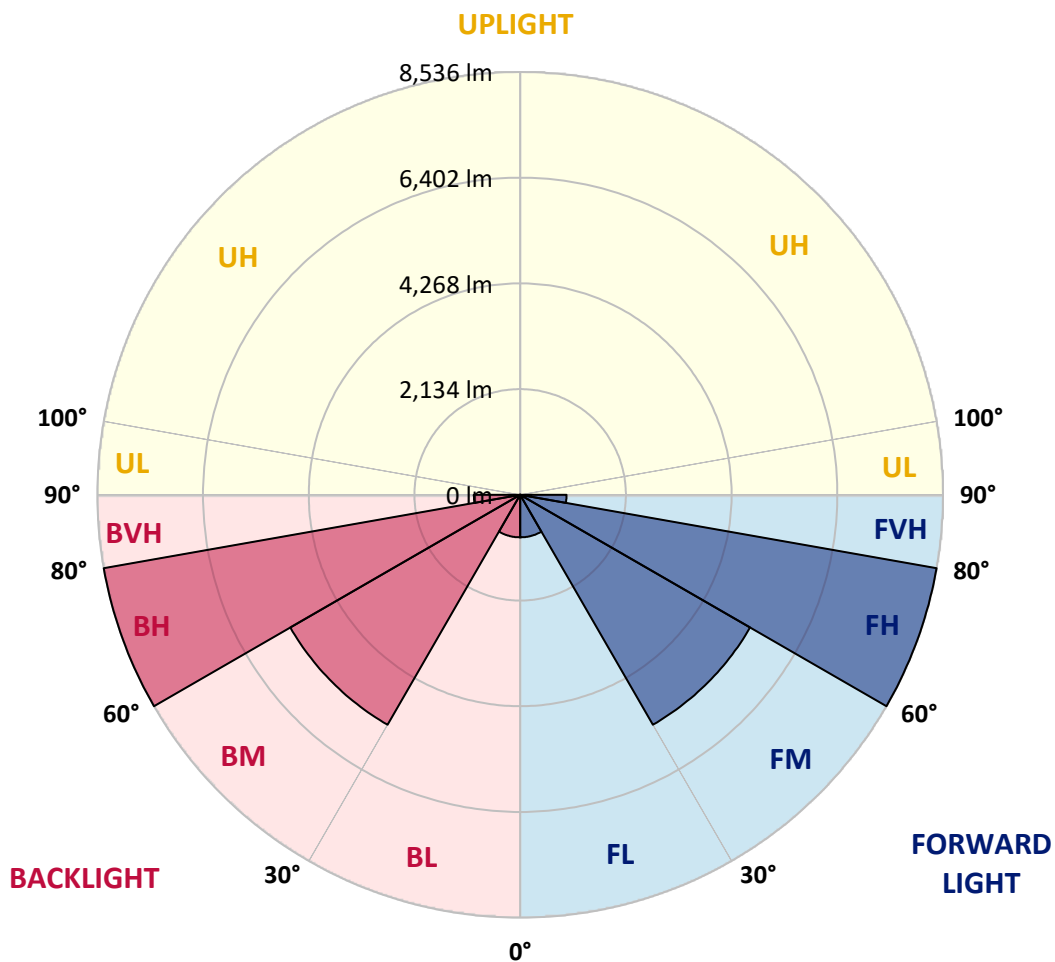
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.2	2.7			
FM	(30°-60°)	5359.0	17.1			
FH	(60°-80°)	8536.0	27.2			G4/12000
FVH	(80°-90°)	935.8	3.0			G5
BL	(0°-30°)	858.2	2.7	B2/1000		
BM	(30°-60°)	5359.0	17.1	B4/8500		
BH	(60°-80°)	8536.0	27.2	B5		G4/12000
BVH	(80°-90°)	935.8	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°	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1608.1	1605.1	1606.1	1606.1	1588.3	1592.3	1593.3	1604.1	1604.1	1609.0	1610.0
5°	1623.9	1618.9	1619.9	1623.9	1607.1	1610.0	1610.0	1620.9	1618.9	1624.8	1627.8
7.5°	1651.5	1647.5	1647.5	1651.5	1631.8	1636.7	1633.7	1643.6	1639.6	1642.6	1648.5
10°	1695.9	1694.9	1692.0	1693.9	1672.2	1675.2	1669.3	1680.1	1672.2	1673.2	1684.1
12.5°	1747.2	1746.3	1746.3	1749.2	1730.5	1735.4	1725.5	1729.5	1715.7	1717.6	1726.5
15°	1810.4	1812.4	1814.4	1823.3	1811.4	1816.3	1801.5	1799.6	1783.8	1783.8	1794.6
17.5°	1897.3	1897.3	1898.3	1918.0	1911.1	1919.0	1898.3	1884.5	1868.7	1870.6	1872.6
20°	2005.9	2001.9	2003.9	2027.6	2029.6	2035.5	2002.9	1984.2	1967.4	1968.4	1966.4
22.5°	2121.4	2113.5	2112.5	2145.1	2158.9	2160.9	2115.5	2097.7	2076.0	2078.9	2077.0
25°	2231.9	2224.0	2220.1	2246.7	2283.3	2281.3	2231.9	2206.3	2196.4	2196.4	2198.4
27.5°	2341.5	2331.6	2327.7	2343.5	2400.7	2410.6	2345.5	2322.8	2312.9	2321.8	2325.7
30°	2452.1	2444.2	2442.2	2447.1	2512.3	2555.7	2455.0	2445.2	2444.2	2452.1	2461.0
32.5°	2586.3	2585.3	2577.4	2576.5	2624.8	2688.0	2586.3	2592.2	2608.0	2625.8	2637.7
35°	2759.1	2757.1	2735.4	2745.3	2768.9	2828.2	2769.9	2773.9	2816.3	2843.0	2857.8
37.5°	2989.1	2974.3	2946.6	2947.6	2959.5	3019.7	2997.0	3027.6	3104.6	3153.9	3149.0
40°	3314.8	3291.1	3249.7	3237.8	3235.9	3321.7	3343.5	3412.6	3534.0	3607.0	3602.1
42.5°	3780.8	3756.1	3692.9	3676.1	3683.0	3750.2	3813.3	3922.9	4028.5	4113.4	4108.5
45°	4258.5	4227.0	4125.3	4068.0	4018.7	4070.0	4168.7	4340.5	4466.8	4578.4	4576.4
47.5°	4811.3	4762.0	4639.6	4530.0	4431.3	4450.1	4555.7	4752.1	4905.1	5016.7	5009.8
50°	5411.5	5362.2	5227.9	5063.1	4910.1	4922.9	4974.2	5181.5	5333.5	5442.1	5444.1
52.5°	6053.2	6017.6	5863.6	5645.5	5435.2	5363.2	5395.7	5587.2	5762.0	5864.6	5873.5
55°	6745.2	6710.6	6548.7	6297.0	6008.8	5846.9	5845.9	6038.4	6215.1	6304.9	6318.7
57.5°	7439.1	7420.4	7278.2	7003.8	6640.5	6392.8	6336.5	6536.9	6735.3	6828.1	6846.8
60°	8153.8	8128.2	8009.7	7779.7	7380.9	7041.3	6946.5	7146.9	7371.0	7466.8	7478.6
62.5°	8963.3	8937.6	8846.8	8604.0	8309.8	7916.9	7779.7	7964.3	8171.6	8324.6	8308.8
65°	9772.7	9766.8	9805.3	9695.7	9470.7	9245.6	8975.1	9177.5	9330.5	9315.7	9310.8
67.5°	9643.4	9680.9	9947.5	10327.5	10802.3	10936.6	10311.7	9745.1	9411.4	9218.0	9156.8
70°	8899.1	8995.9	9390.7	10201.2	11398.6	11770.7	10799.4	9322.6	8605.9	8323.6	8269.3
71°	8488.5	8564.5	9019.6	10009.7	11402.5	11738.2	10683.9	9004.7	8276.2	7889.3	7851.8
72.5°	7688.9	7806.3	8308.8	9485.5	11056.0	11338.4	10180.4	8412.5	7649.4	7272.3	7251.6
75°	6147.0	6182.5	6831.0	8167.6	9955.4	10179.4	9037.3	7299.9	6513.2	6255.5	6240.7
77.5°	4338.5	4339.5	4961.4	6367.1	8253.5	8616.8	7827.1	6018.6	5224.0	4900.2	4828.1
80°	2298.1	2391.9	3008.8	4376.0	6182.5	6780.7	6220.0	4550.7	3673.2	3200.3	3134.2
82.5°	1047.4	1114.5	1514.3	2480.7	4066.1	4883.4	4267.4	2954.5	1968.4	1458.0	1415.6
85°	406.7	416.6	624.9	1178.7	2273.4	3063.1	2484.6	1385.0	685.1	418.5	387.9
87.5°	133.3	142.1	203.4	454.1	967.4	1223.1	960.5	416.6	133.3	82.9	80.0
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)