

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: P233982

Luminaire Tested: **CTN-8-6-D-E1-T1-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-24)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-8-6-D-E1-T1-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67753 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

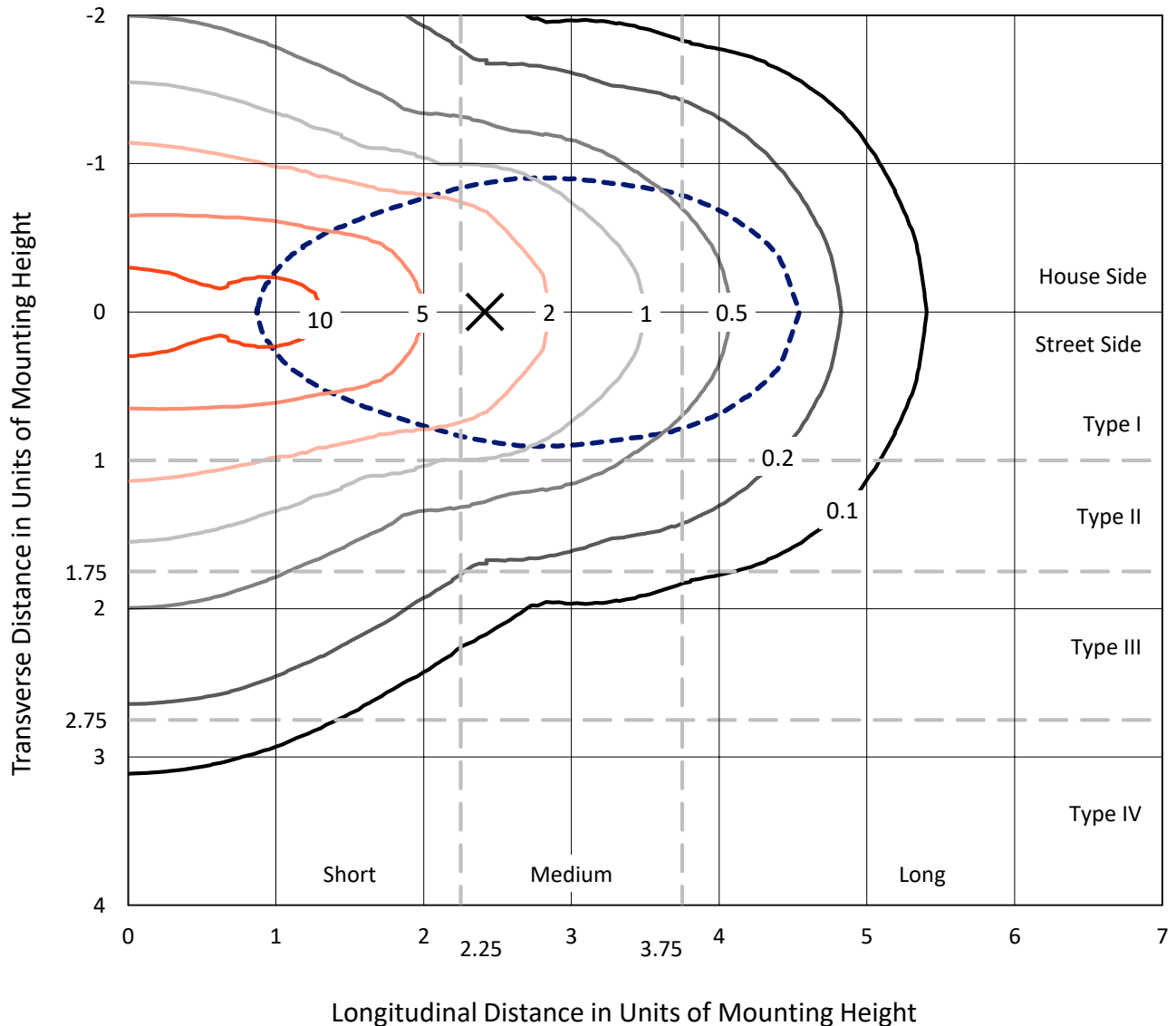
Input Watts (W): 477
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

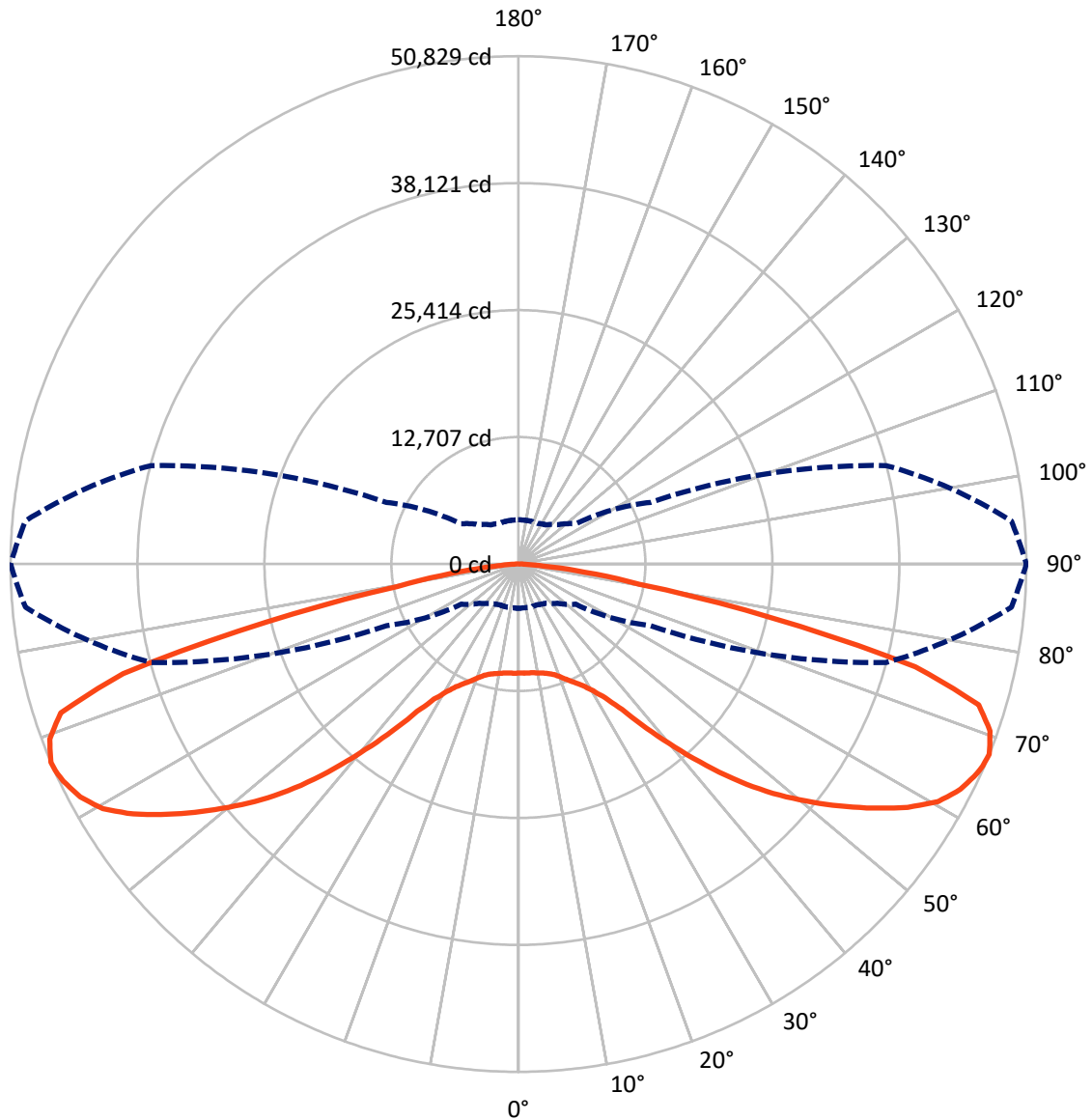
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type I - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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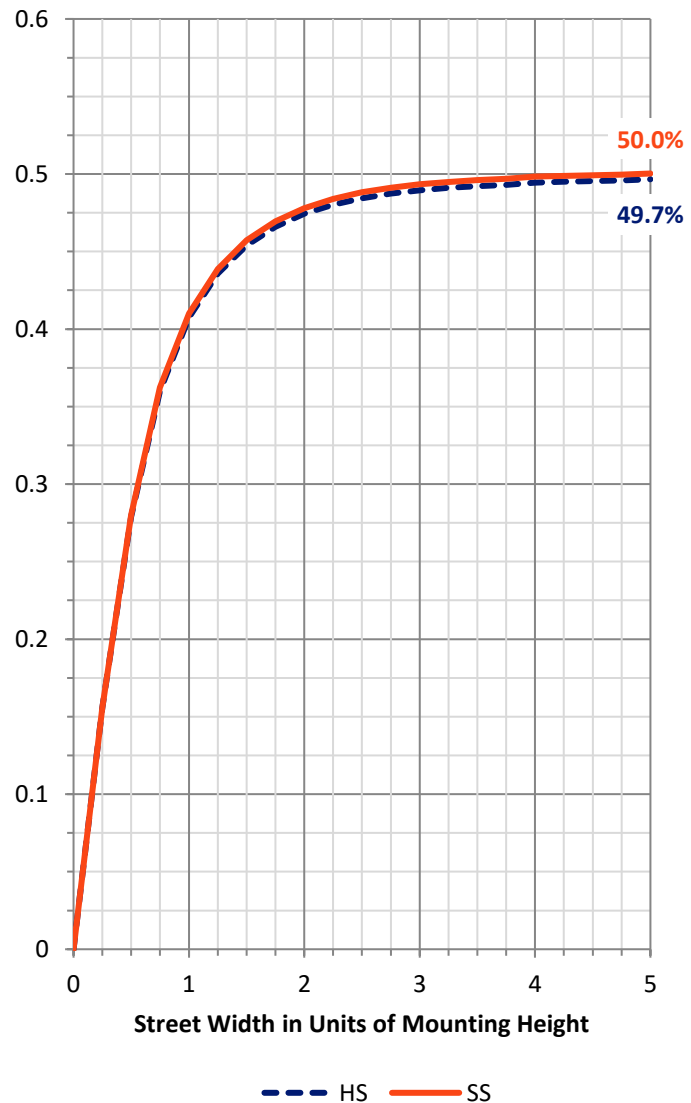
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33876.5	0.0	33876.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33876.5	0.0	33876.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67753.0	0.0	67753.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.0	1.5
10°-20°	3085.3	4.6
20°-30°	5105.3	7.5
30°-40°	7480.0	11.0
40°-50°	11004.6	16.2
50°-60°	14270.3	21.1
60°-70°	15166.4	22.4
70°-80°	9362.2	13.8
80°-90°	1241.8	1.8
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°	67753.0	100.0
0°-180°	67753.0	100.0



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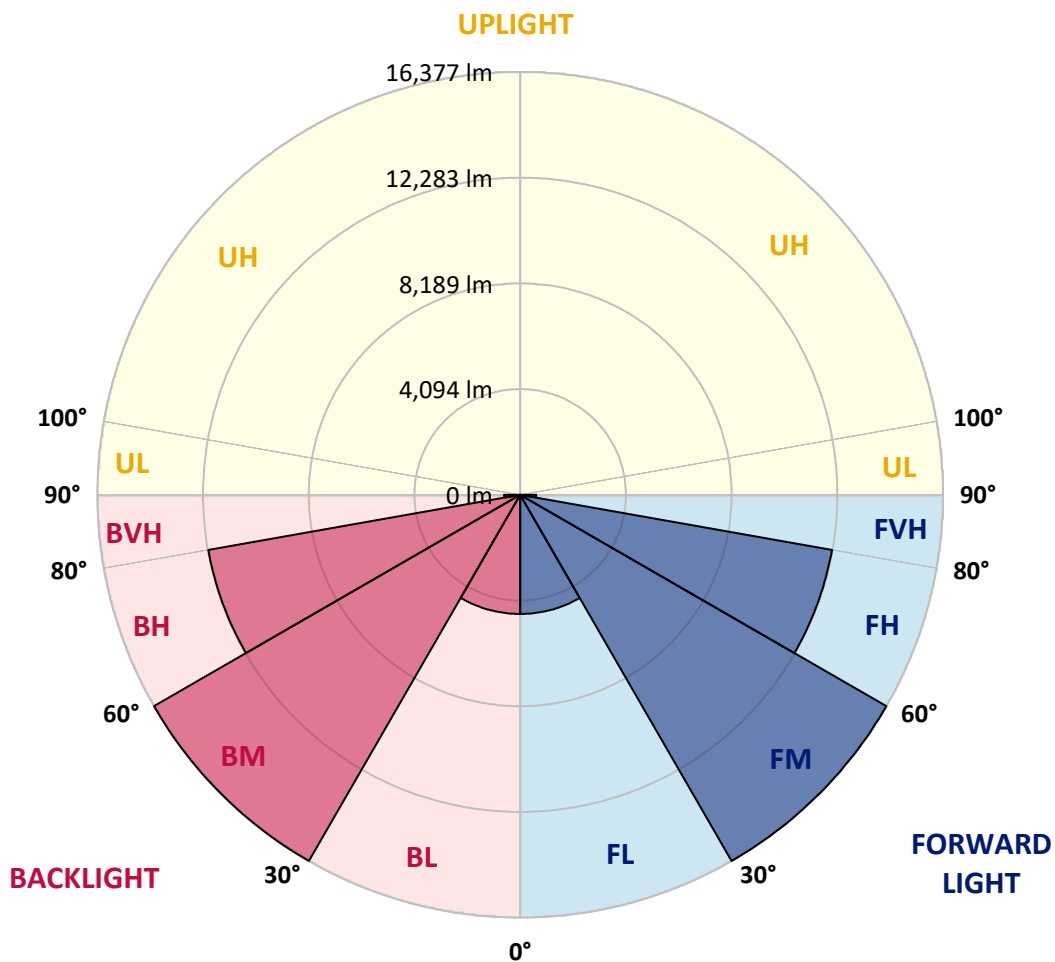
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4613.8	6.8			
FM (30°-60°)	16377.5	24.2			
FH (60°-80°)	12264.3	18.1			G5
FVH (80°-90°)	620.9	0.9			G4/750
BL (0°-30°)	4613.8	6.8	B4/5000		
BM (30°-60°)	16377.5	24.2	B5		
BH (60°-80°)	12264.3	18.1	B5		G5
BVH (80°-90°)	620.9	0.9			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1	10911.1
2.5°	10941.6	10907.1	10921.3	10972.0	10787.3	10878.6	10846.2	10927.4	10884.7	10921.3	10939.5
5°	10864.4	10821.8	10842.1	10937.5	10769.0	10862.4	10838.0	10929.4	10874.6	10925.3	10945.6
7.5°	10797.4	10752.8	10789.3	10868.5	10740.6	10844.1	10823.8	10947.7	10903.0	10968.0	10988.3
10°	10754.8	10706.1	10740.6	10827.9	10691.9	10854.3	10836.0	11000.4	10978.1	11067.4	11091.8
12.5°	10649.3	10598.5	10622.9	10738.6	10677.7	10846.2	10890.8	11079.6	11073.5	11181.1	11207.5
15°	10460.5	10409.7	10442.2	10596.5	10618.8	10852.2	10990.3	11213.6	11250.1	11357.7	11380.0
17.5°	10223.0	10186.4	10235.1	10440.2	10580.2	10935.5	11134.4	11418.6	11507.9	11617.5	11648.0
20°	9898.2	9877.9	9965.1	10245.3	10513.2	10996.4	11307.0	11706.9	11869.3	12047.9	12070.2
22.5°	9455.6	9431.3	9614.0	10007.8	10393.5	11010.6	11475.5	12005.3	12305.7	12535.1	12594.0
25°	8958.3	8950.2	9199.8	9717.5	10231.1	11000.4	11639.9	12324.0	12782.8	13085.2	13150.2
27.5°	8469.1	8493.4	8795.9	9406.9	10097.1	11022.8	11828.7	12732.0	13379.6	13757.1	13785.6
30°	8052.9	8073.2	8400.0	9100.4	9969.2	11049.2	12062.1	13219.2	14122.5	14632.1	14715.3
32.5°	7661.1	7707.8	8040.7	8767.5	9827.1	11099.9	12364.6	13854.6	15034.0	15837.9	15941.4
35°	7338.4	7379.0	7703.8	8428.5	9601.8	11140.5	12764.5	14658.5	16392.1	17729.8	17890.2
37.5°	7052.1	7100.9	7381.0	8115.8	9333.8	11154.7	13162.4	15649.1	18231.2	20360.7	20860.0
40°	6845.1	6883.6	7125.2	7803.2	9045.6	11089.8	13617.1	16757.4	20297.7	23501.0	24049.1
42.5°	6674.6	6707.0	6906.0	7496.7	8720.8	10961.9	14041.3	17861.8	22482.0	26828.2	27542.7
45°	6502.0	6510.1	6700.9	7232.8	8391.9	10758.9	14360.0	18919.4	24781.9	30222.3	31058.6
47.5°	6347.7	6337.6	6487.8	6973.0	8038.7	10417.8	14483.9	19796.3	27016.9	33403.2	34316.7
50°	6203.6	6161.0	6290.9	6725.3	7695.6	9928.6	14327.6	20403.3	29367.7	36476.6	37286.6
52.5°	5988.4	5968.1	6092.0	6481.7	7352.6	9344.0	13812.0	20724.0	31874.7	39387.6	40234.1
55°	5795.6	5781.4	5909.3	6234.1	7015.6	8749.2	12922.8	20636.7	34345.2	42195.1	43132.9
57.5°	5582.4	5572.3	5692.1	5964.1	6644.1	8197.0	11822.6	20072.4	36551.7	44618.9	45944.4
60°	5373.3	5379.4	5456.6	5690.0	6266.5	7588.0	10568.1	19089.9	38311.7	46813.3	48260.6
62.5°	5129.7	5123.7	5180.5	5375.4	5834.1	6930.3	9331.8	17727.8	39343.0	48729.6	49655.2
65°	4800.9	4778.6	4843.5	4967.3	5310.4	6256.4	8113.8	16079.4	39369.3	49681.6	50469.2
66°	4660.8	4636.5	4695.3	4782.6	5105.4	5984.4	7665.2	15381.1	38965.4	49710.0	50688.5
67.5°	4443.6	4415.2	4453.8	4494.4	4784.7	5550.0	7007.5	14589.4	38080.3	49531.4	50828.6
70°	3903.6	3907.7	3948.3	3934.1	4082.3	4583.7	5787.5	13119.7	33811.3	48808.7	50077.5
72.5°	3038.9	3004.4	2945.5	2888.7	2959.7	3400.2	4382.7	11010.6	27686.8	45692.7	48159.1
75°	1961.0	1954.9	1952.8	2021.9	2032.0	2330.4	3386.0	8883.2	21582.7	37497.7	41048.1
77.5°	1226.1	1216.0	1303.2	1471.7	1498.1	1506.2	2220.8	6751.7	15602.4	23994.3	25855.8
80°	879.0	879.0	885.1	907.4	1049.5	1071.8	1534.7	4238.6	8873.0	11696.7	12289.5
82.5°	665.8	655.7	657.7	667.9	680.0	730.8	923.6	1881.8	3544.3	5927.5	6707.0
85°	481.1	495.3	519.7	501.4	452.7	458.8	523.7	647.6	1362.1	2295.9	2482.7
87.5°	174.6	201.0	207.1	215.2	207.1	209.1	215.2	203.0	276.1	566.4	653.7
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)