

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: P233977

Luminaire Tested: **CTN-6-3-D-E1-T1-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233977
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-6-3-D-E1-T1-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33715 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

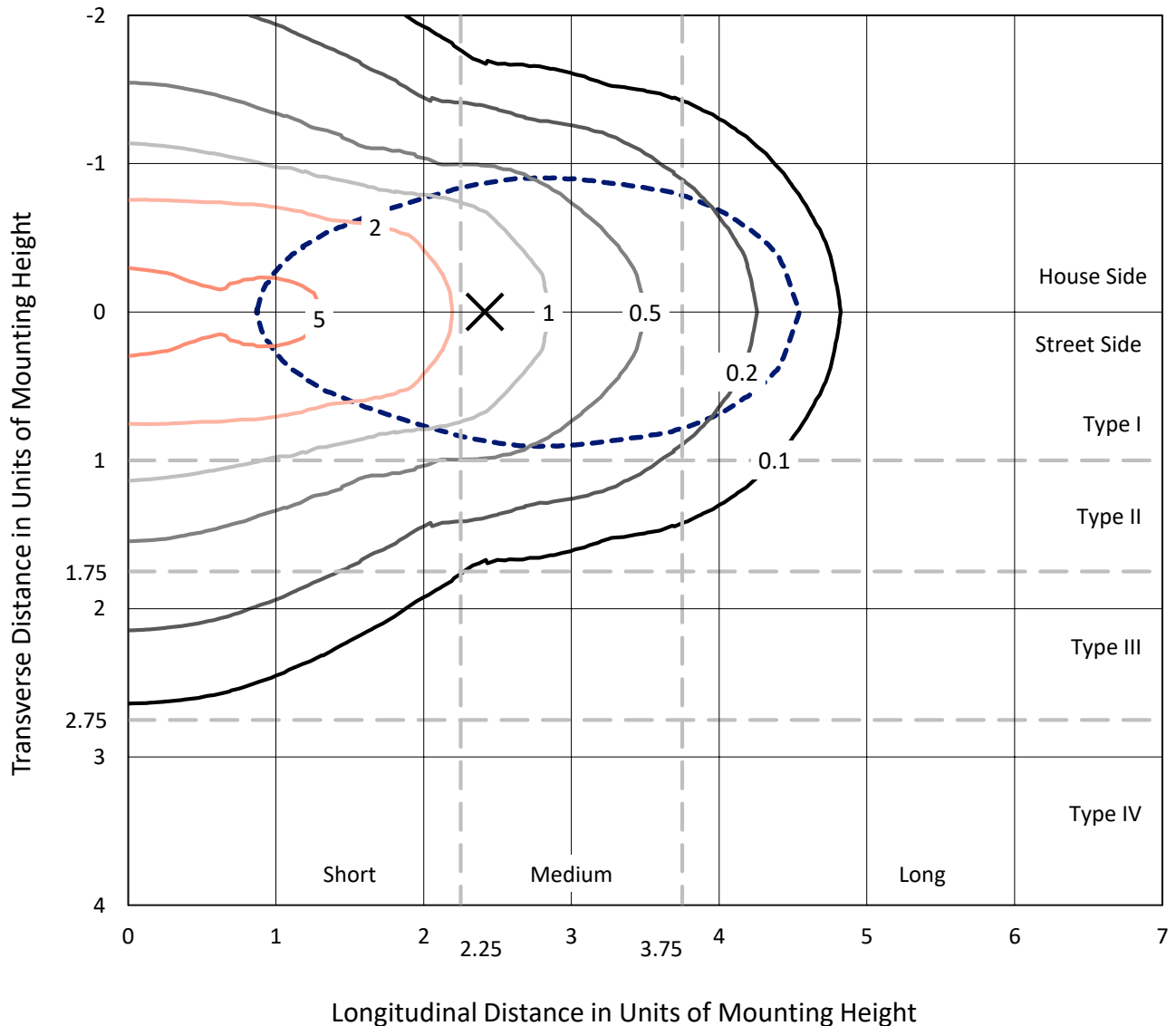
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

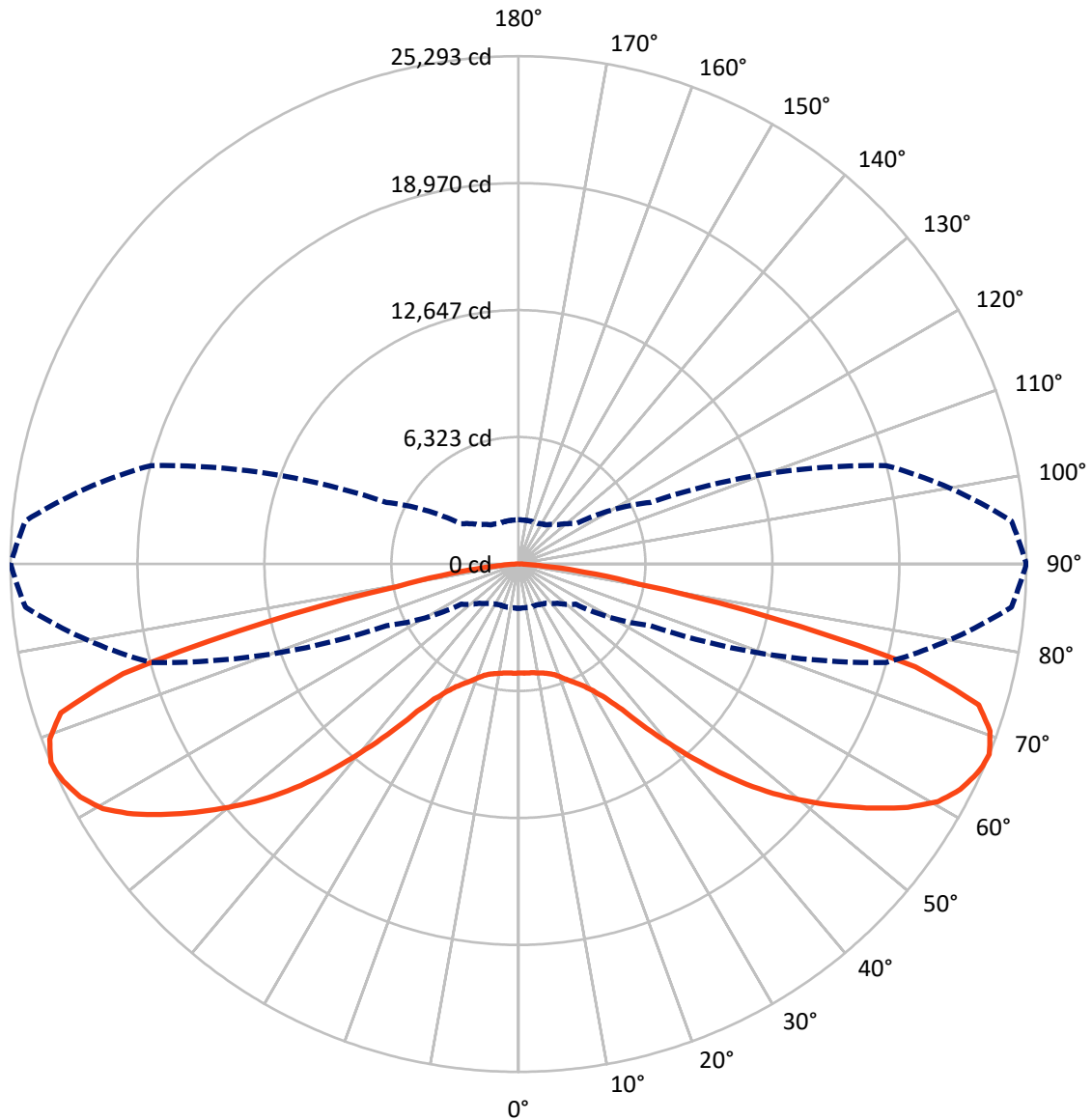


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type I - Short - Semi-Cutoff

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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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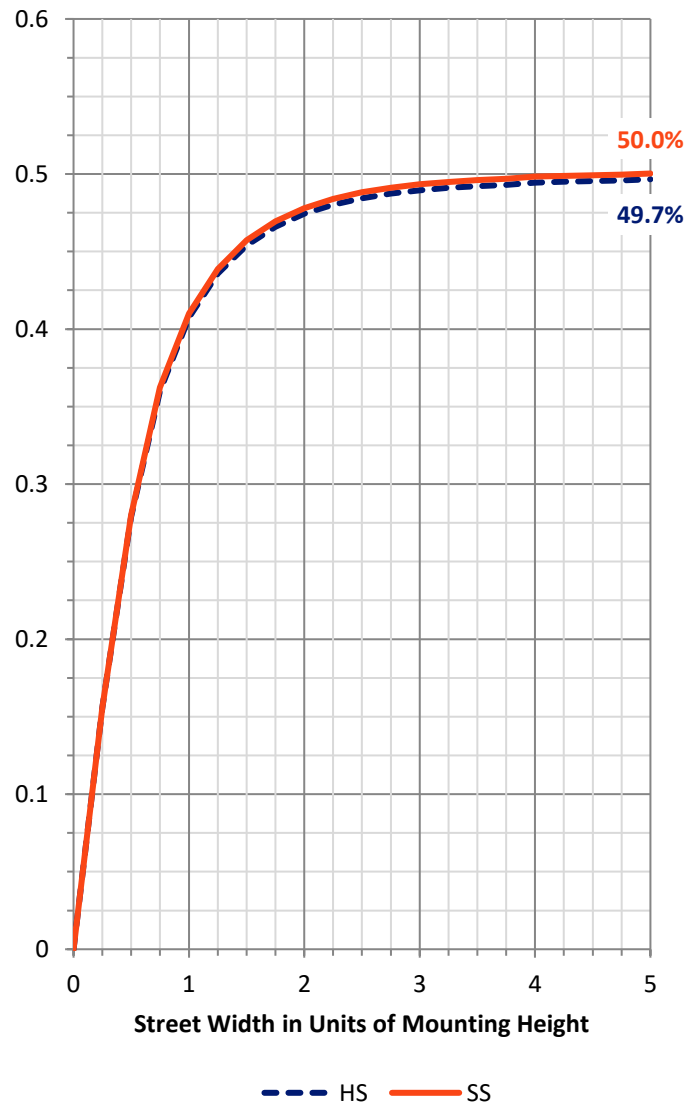
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16857.5	0.0	16857.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16857.5	0.0	16857.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33715.0	0.0	33715.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	1.5
10°-20°	1535.3	4.6
20°-30°	2540.5	7.5
30°-40°	3722.2	11.0
40°-50°	5476.1	16.2
50°-60°	7101.2	21.1
60°-70°	7547.0	22.4
70°-80°	4658.8	13.8
80°-90°	618.0	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°	33715.0	100.0
0°-180°	33715.0	100.0



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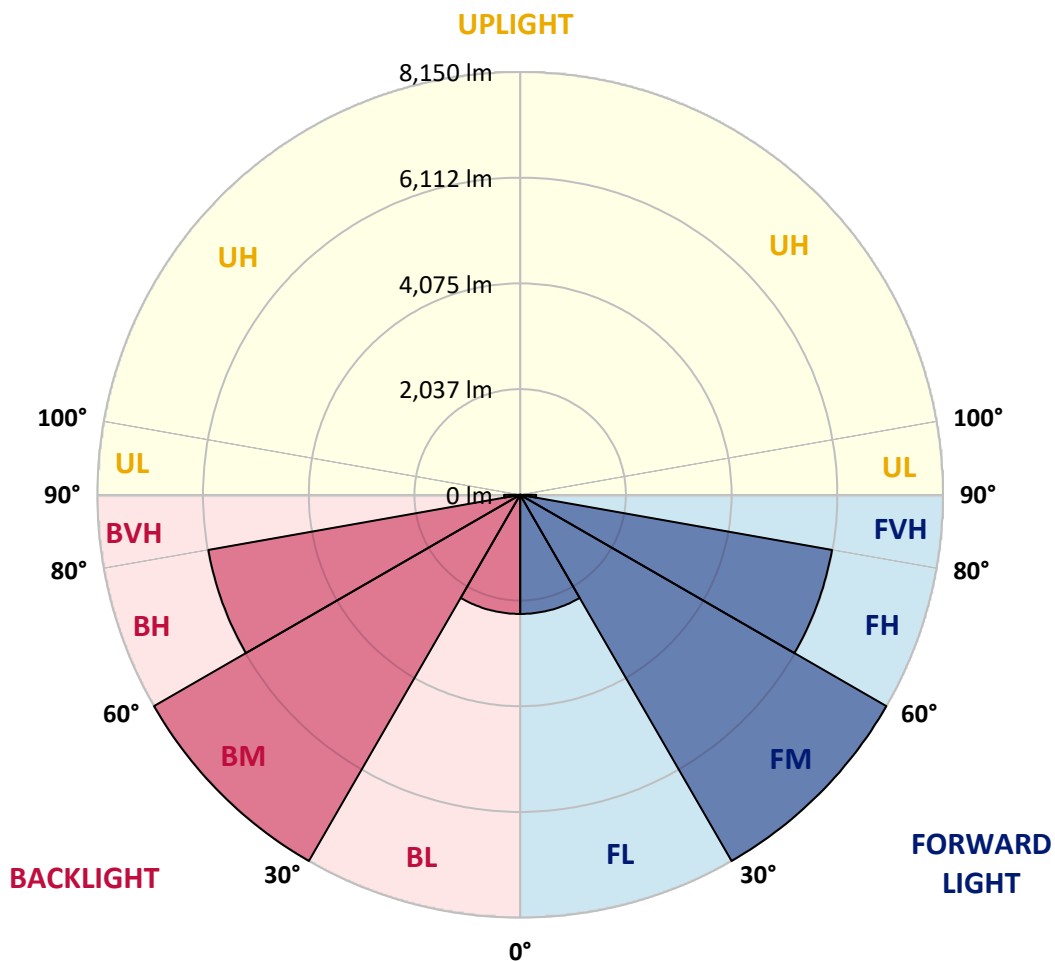
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2295.9	6.8			
FM	(30°-60°)	8149.7	24.2			
FH	(60°-80°)	6102.9	18.1			G3/7500
FVH	(80°-90°)	309.0	0.9			G3/500
BL	(0°-30°)	2295.9	6.8	B3/2500		
BM	(30°-60°)	8149.7	24.2	B4/8500		
BH	(60°-80°)	6102.9	18.1	B5		G5
BVH	(80°-90°)	309.0	0.9			G3/500
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°	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6	5429.6
2.5°	5444.7	5427.5	5434.6	5459.9	5367.9	5413.4	5397.2	5437.6	5416.4	5434.6	5443.7
5°	5406.3	5385.1	5395.2	5442.7	5358.8	5405.3	5393.2	5438.6	5411.4	5436.6	5446.7
7.5°	5373.0	5350.8	5368.9	5408.3	5344.7	5396.2	5386.1	5447.7	5425.5	5457.8	5467.9
10°	5351.8	5327.5	5344.7	5388.1	5320.5	5401.3	5392.2	5474.0	5462.9	5507.3	5519.5
12.5°	5299.2	5274.0	5286.1	5343.7	5313.4	5397.2	5419.4	5513.4	5510.4	5563.9	5577.0
15°	5205.3	5180.0	5196.2	5273.0	5284.1	5400.3	5468.9	5580.1	5598.2	5651.8	5662.9
17.5°	5087.1	5068.9	5093.2	5195.2	5264.9	5441.7	5540.7	5682.1	5726.5	5781.1	5796.2
20°	4925.5	4915.4	4958.8	5098.2	5231.6	5472.0	5626.5	5825.5	5906.3	5995.2	6006.3
22.5°	4705.3	4693.2	4784.1	4980.0	5172.0	5479.0	5710.4	5974.0	6123.5	6237.7	6267.0
25°	4457.8	4453.7	4578.0	4835.6	5091.2	5474.0	5792.2	6132.6	6360.9	6511.4	6543.7
27.5°	4214.3	4226.5	4377.0	4681.0	5024.5	5485.1	5886.1	6335.7	6657.9	6845.8	6859.9
30°	4007.3	4017.4	4180.0	4528.5	4960.8	5498.2	6002.3	6578.1	7027.6	7281.2	7322.6
32.5°	3812.3	3835.5	4001.2	4362.8	4890.1	5523.5	6152.8	6894.3	7481.2	7881.2	7932.7
35°	3651.7	3671.9	3833.5	4194.1	4778.0	5543.7	6351.8	7294.3	8157.0	8822.6	8902.4
37.5°	3509.3	3533.5	3672.9	4038.6	4644.7	5550.8	6549.8	7787.2	9072.1	10131.8	10380.3
40°	3406.2	3425.4	3545.6	3883.0	4501.2	5518.4	6776.1	8338.8	10100.5	11694.5	11967.2
42.5°	3321.4	3337.5	3436.5	3730.5	4339.6	5454.8	6987.2	8888.3	11187.4	13350.1	13705.7
45°	3235.5	3239.5	3334.5	3599.2	4176.0	5353.8	7145.8	9414.6	12331.9	15039.1	15455.3
47.5°	3158.7	3153.7	3228.4	3469.9	4000.2	5184.1	7207.4	9851.0	13444.1	16622.0	17076.6
50°	3087.0	3065.8	3130.5	3346.6	3829.5	4940.6	7129.6	10153.0	14613.8	18151.4	18554.4
52.5°	2979.9	2969.8	3031.5	3225.4	3658.8	4649.7	6873.1	10312.6	15861.4	19599.9	20021.2
55°	2884.0	2876.9	2940.5	3102.2	3491.1	4353.7	6430.6	10269.2	17090.7	20997.0	21463.6
57.5°	2777.9	2772.9	2832.5	2967.8	3306.2	4079.0	5883.1	9988.4	18188.7	22203.1	22862.7
60°	2673.9	2676.9	2715.3	2831.4	3118.3	3775.9	5258.8	9499.4	19064.5	23295.0	24015.3
62.5°	2552.6	2549.6	2577.9	2674.9	2903.2	3448.6	4643.7	8821.6	19577.7	24248.6	24709.3
65°	2389.0	2377.9	2410.2	2471.8	2642.5	3113.3	4037.6	8001.4	19590.8	24722.4	25114.3
66°	2319.3	2307.2	2336.5	2379.9	2540.5	2977.9	3814.3	7653.9	19389.8	24736.5	25223.4
67.5°	2211.2	2197.1	2216.3	2236.5	2380.9	2761.7	3487.0	7259.9	18949.4	24647.6	25293.1
70°	1942.5	1944.5	1964.7	1957.7	2031.4	2280.9	2879.9	6528.6	16825.0	24288.0	24919.4
72.5°	1512.2	1495.0	1465.7	1437.4	1472.8	1692.0	2180.9	5479.0	13777.4	22737.4	23964.8
75°	975.8	972.8	971.8	1006.1	1011.2	1159.7	1684.9	4420.4	10739.9	18659.5	20426.2
77.5°	610.1	605.1	648.5	732.4	745.5	749.5	1105.1	3359.8	7764.0	11940.0	12866.3
80°	437.4	437.4	440.4	451.5	522.2	533.4	763.7	2109.2	4415.4	5820.5	6115.4
82.5°	331.3	326.3	327.3	332.3	338.4	363.7	459.6	936.4	1763.7	2949.6	3337.5
85°	239.4	246.5	258.6	249.5	225.3	228.3	260.6	322.2	677.8	1142.5	1235.4
87.5°	86.9	100.0	103.0	107.1	103.0	104.0	107.1	101.0	137.4	281.8	325.3
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)