

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: P233979

Luminaire Tested: **CTN-10-3-D-E1-T1-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233979
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-10-3-D-E1-T1-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 5000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34201 lumens
Efficiency: N/A
Efficacy: 161.3 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): 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

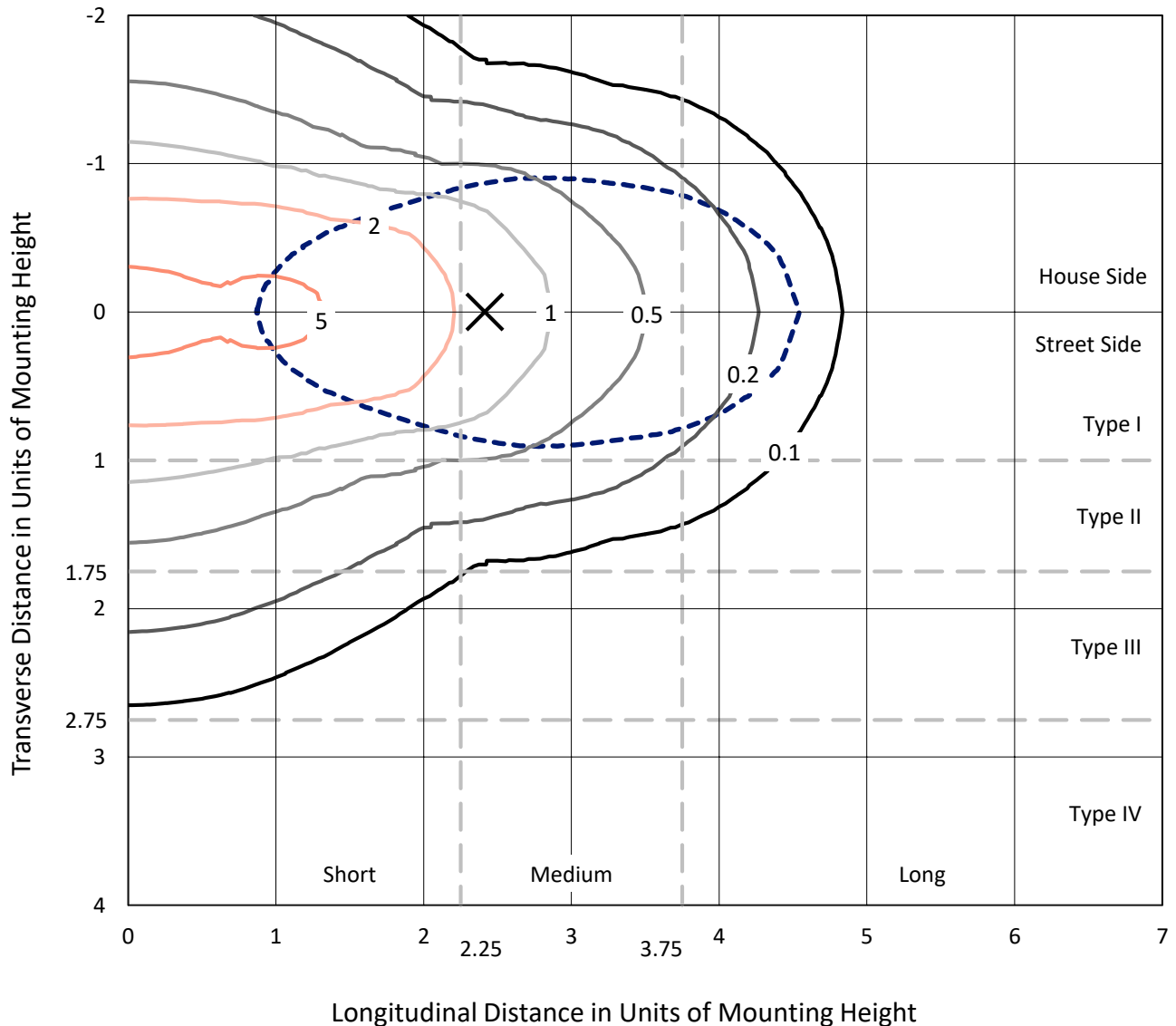


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

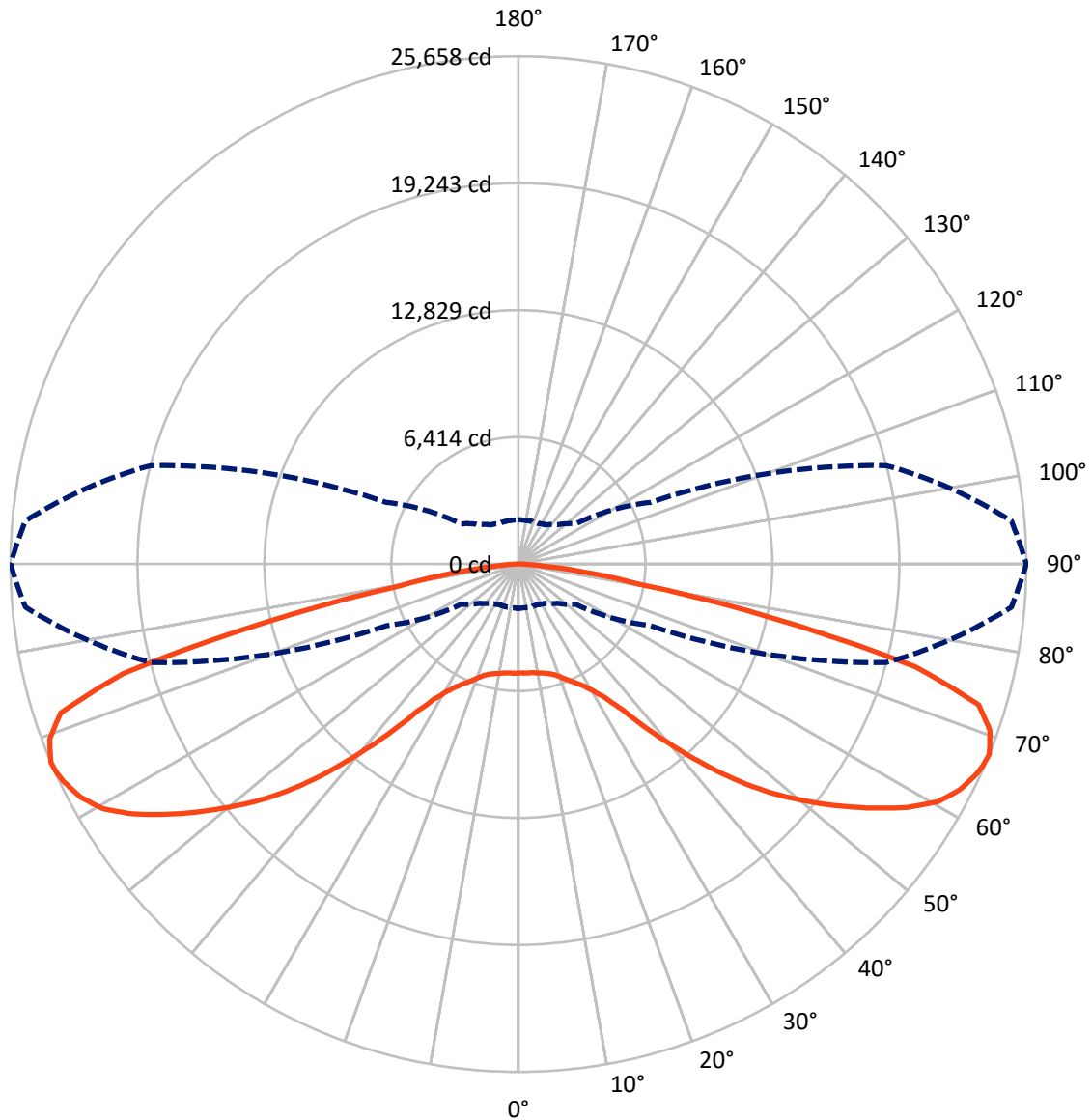


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - Semi-Cutoff

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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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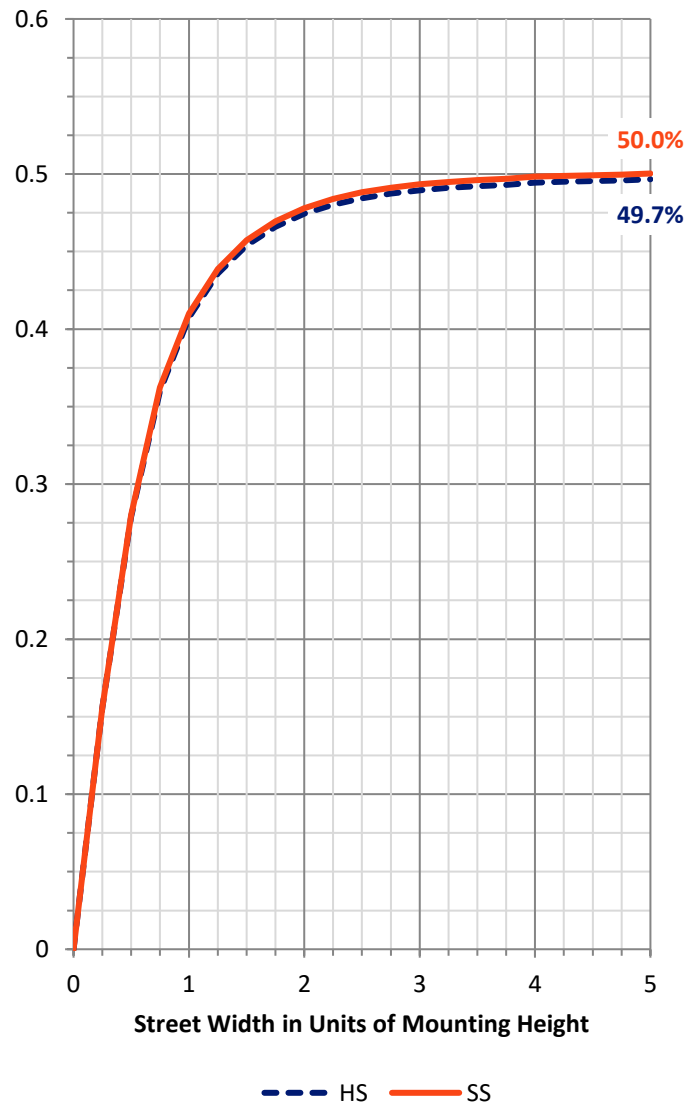
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17100.5	0.0	17100.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17100.5	0.0	17100.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34201.0	0.0	34201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.5	1.5
10°-20°	1557.5	4.6
20°-30°	2577.1	7.5
30°-40°	3775.8	11.0
40°-50°	5555.0	16.2
50°-60°	7203.5	21.1
60°-70°	7655.8	22.4
70°-80°	4726.0	13.8
80°-90°	626.9	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°	34201.0	100.0
0°-180°	34201.0	100.0



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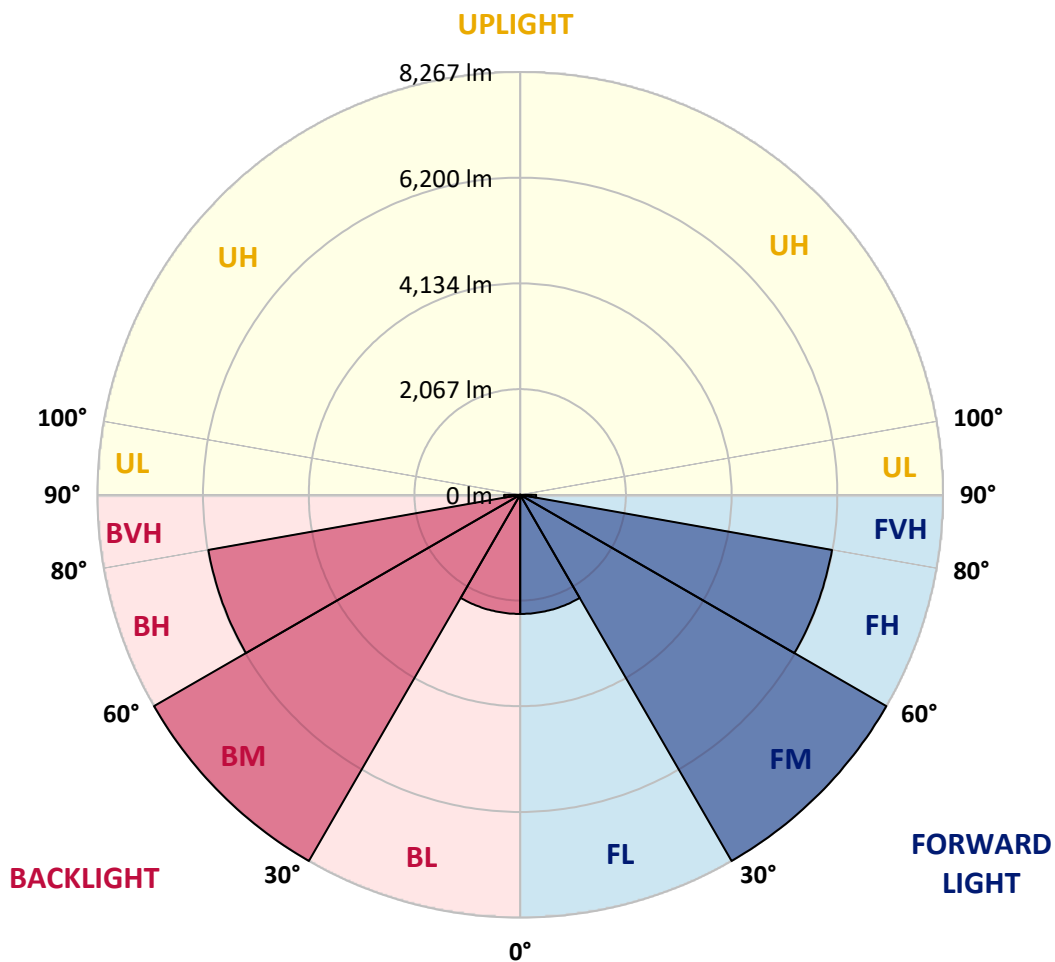
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2329.0	6.8			
FM	(30°-60°)	8267.2	24.2			
FH	(60°-80°)	6190.9	18.1			G3/7500
FVH	(80°-90°)	313.4	0.9			G3/500
BL	(0°-30°)	2329.0	6.8	B3/2500		
BM	(30°-60°)	8267.2	24.2	B4/8500		
BH	(60°-80°)	6190.9	18.1	B5		G5
BVH	(80°-90°)	313.4	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°	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8	5507.8
2.5°	5523.2	5505.8	5512.9	5538.6	5445.3	5491.4	5475.0	5516.0	5494.5	5512.9	5522.2
5°	5484.2	5462.7	5473.0	5521.1	5436.1	5483.2	5470.9	5517.0	5489.4	5515.0	5525.2
7.5°	5450.4	5427.9	5446.3	5486.3	5421.7	5474.0	5463.8	5526.3	5503.7	5536.5	5546.8
10°	5428.9	5404.3	5421.7	5465.8	5397.1	5479.1	5469.9	5552.9	5541.6	5586.7	5599.0
12.5°	5375.6	5350.0	5362.3	5420.7	5390.0	5475.0	5497.6	5592.9	5589.8	5644.1	5657.4
15°	5280.3	5254.7	5271.1	5349.0	5360.3	5478.1	5547.8	5660.5	5678.9	5733.3	5744.5
17.5°	5160.4	5142.0	5166.6	5270.1	5340.8	5520.1	5620.5	5764.0	5809.1	5864.4	5879.8
20°	4996.5	4986.2	5030.3	5171.7	5307.0	5550.9	5707.6	5909.5	5991.5	6081.7	6092.9
22.5°	4773.1	4760.8	4853.0	5051.8	5246.5	5558.0	5792.7	6060.1	6211.8	6327.6	6357.3
25°	4522.0	4517.9	4644.0	4905.3	5164.5	5552.9	5875.7	6221.0	6452.6	6605.3	6638.1
27.5°	4275.1	4287.4	4440.1	4748.5	5096.9	5564.2	5971.0	6427.0	6753.9	6944.5	6958.8
30°	4065.0	4075.3	4240.3	4593.8	5032.4	5577.5	6088.8	6672.9	7128.9	7386.1	7428.1
32.5°	3867.3	3890.8	4058.9	4425.7	4960.6	5603.1	6241.5	6993.6	7589.0	7994.8	8047.0
35°	3704.3	3724.8	3888.8	4254.6	4846.9	5623.6	6443.4	7399.4	8274.5	8949.8	9030.8
37.5°	3559.8	3584.4	3725.8	4096.8	4711.6	5630.8	6644.2	7899.5	9202.9	10277.8	10529.9
40°	3455.3	3474.8	3596.7	3939.0	4566.1	5598.0	6873.8	8459.0	10246.1	11863.1	12139.7
42.5°	3369.2	3385.6	3486.1	3784.3	4402.2	5533.4	7087.9	9016.4	11348.7	13542.6	13903.3
45°	3282.1	3286.2	3382.6	3651.0	4236.2	5431.0	7248.8	9550.3	12509.7	15255.9	15678.1
47.5°	3204.3	3199.1	3275.0	3519.9	4057.9	5258.8	7311.3	9993.0	13637.9	16861.6	17322.7
50°	3131.5	3110.0	3175.6	3394.9	3884.7	5011.9	7232.4	10299.4	14824.5	18413.0	18821.9
52.5°	3022.9	3012.6	3075.2	3271.9	3711.5	4716.7	6972.1	10461.3	16090.0	19882.5	20309.8
55°	2925.5	2918.4	2982.9	3146.9	3541.4	4416.5	6523.3	10417.2	17337.1	21299.6	21773.0
57.5°	2818.0	2812.8	2873.3	3010.6	3353.9	4137.8	5967.9	10132.3	18450.9	22523.1	23192.3
60°	2712.4	2715.5	2754.4	2872.3	3163.3	3830.4	5334.6	9636.4	19339.4	23630.8	24361.5
62.5°	2589.4	2586.4	2615.1	2713.4	2945.0	3498.4	4710.6	8948.8	19859.9	24598.2	25065.4
65°	2423.4	2412.2	2445.0	2507.5	2680.6	3158.2	4095.8	8116.7	19873.2	25078.8	25476.3
66°	2352.7	2340.4	2370.2	2414.2	2577.1	3020.8	3869.3	7764.2	19669.3	25093.1	25587.0
67.5°	2243.1	2228.7	2248.2	2268.7	2415.2	2801.6	3537.3	7364.6	19222.5	25002.9	25657.7
70°	1970.5	1972.6	1993.1	1985.9	2060.7	2313.8	2921.4	6622.7	17067.6	24638.1	25278.6
72.5°	1534.0	1516.6	1486.9	1458.2	1494.0	1716.4	2212.3	5558.0	13976.0	23065.2	24310.2
75°	989.9	986.8	985.8	1020.6	1025.7	1176.4	1709.2	4484.1	10894.7	18928.4	20720.7
77.5°	618.9	613.8	657.9	742.9	756.2	760.3	1121.0	3408.2	7875.9	12112.1	13051.7
80°	443.7	443.7	446.8	458.0	529.8	541.0	774.7	2139.6	4479.0	5904.4	6203.6
82.5°	336.1	331.0	332.0	337.1	343.3	368.9	466.2	949.9	1789.1	2992.2	3385.6
85°	242.9	250.0	262.3	253.1	228.5	231.6	264.4	326.9	687.6	1158.9	1253.2
87.5°	88.1	101.4	104.5	108.6	104.5	105.5	108.6	102.5	139.4	285.9	330.0
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)