

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: P233968

Luminaire Tested: **CTN-10-9-D-E1-T1-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233968
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-10-9-D-E1-T1-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96430 lumens
Efficiency: N/A
Efficacy: 126.9 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): 760
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

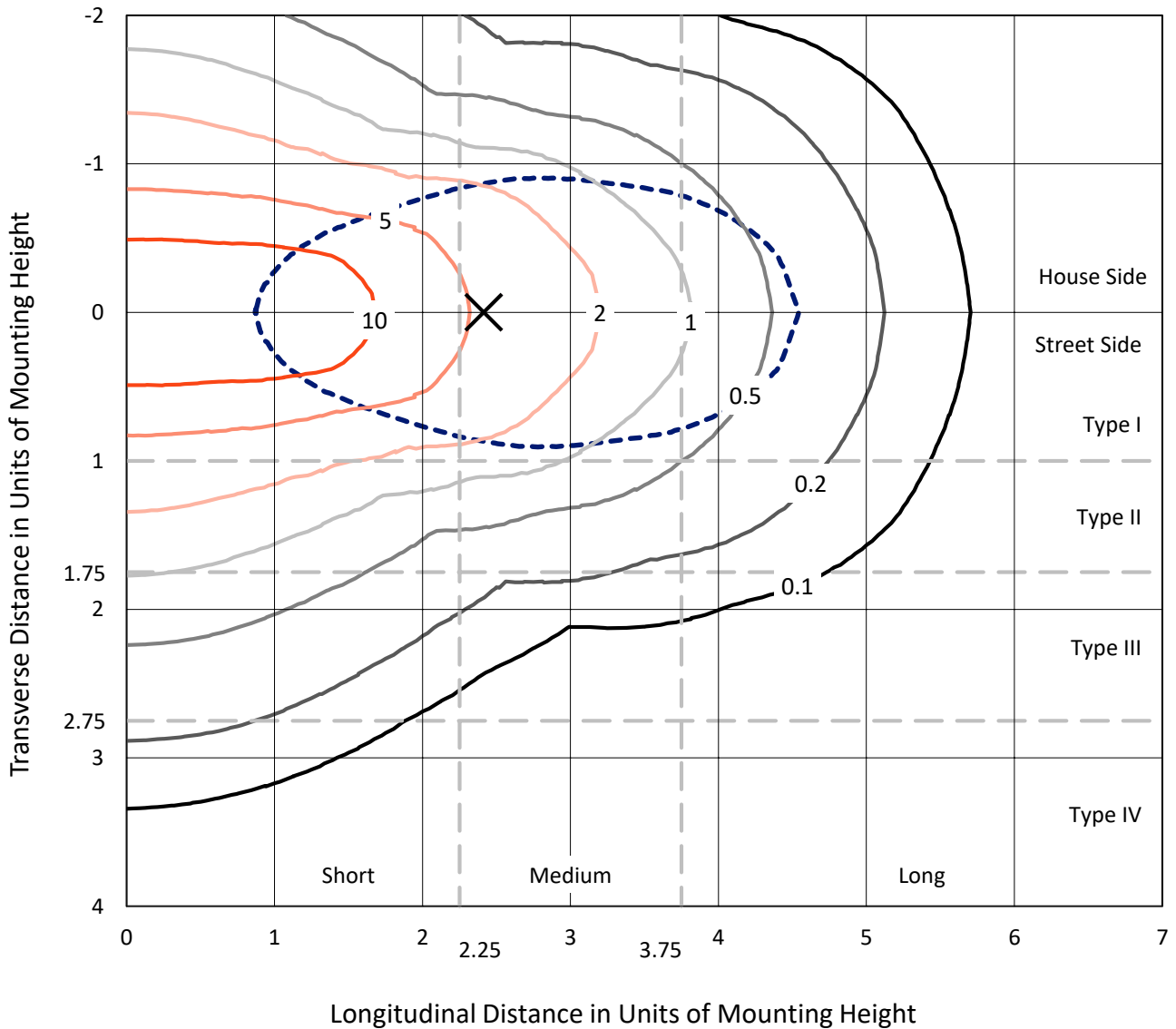


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

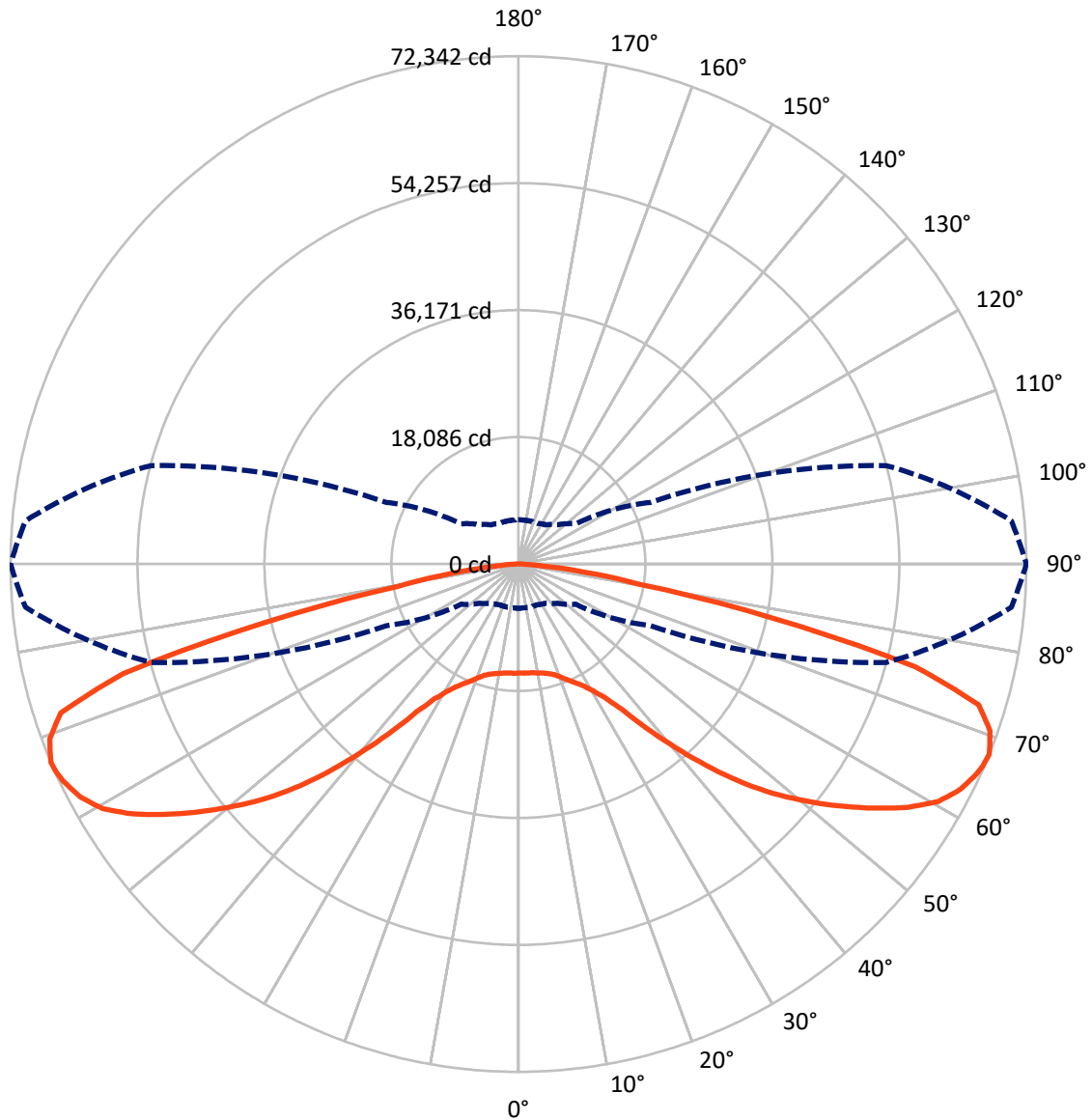


Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type I - Short - Semi-Cutoff

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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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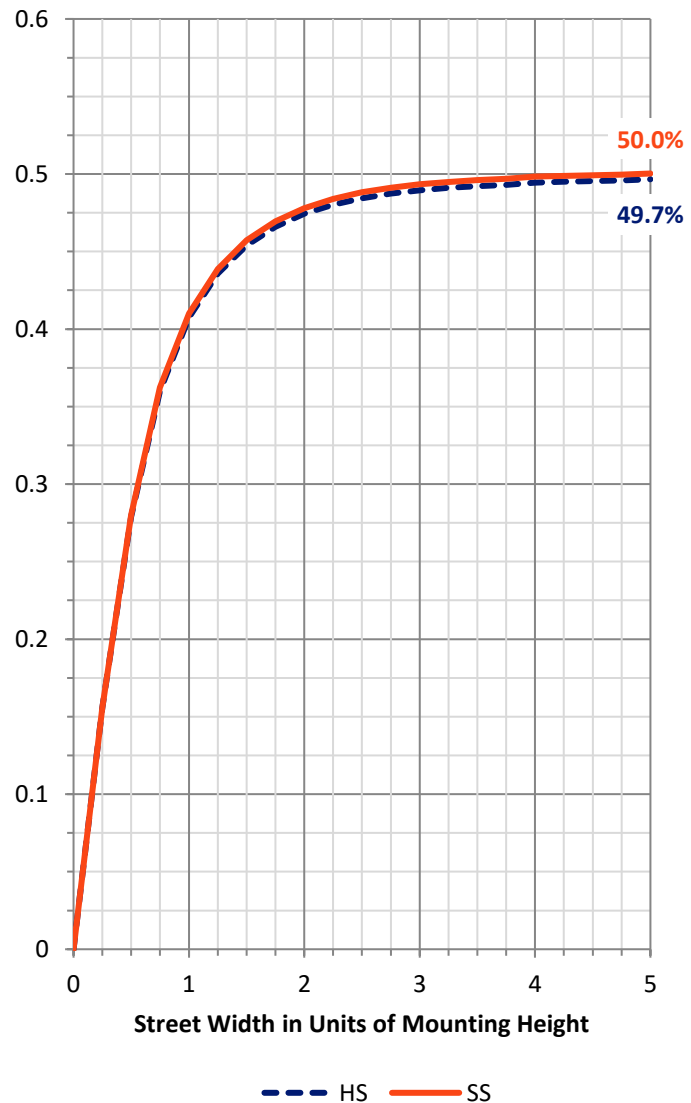
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48215.0	0.0	48215.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48215.0	0.0	48215.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	96430.0	0.0	96430.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1476.0	1.5
10°-20°	4391.2	4.6
20°-30°	7266.1	7.5
30°-40°	10646.0	11.0
40°-50°	15662.4	16.2
50°-60°	20310.4	21.1
60°-70°	21585.7	22.4
70°-80°	13324.9	13.8
80°-90°	1767.5	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°	96430.0	100.0
0°-180°	96430.0	100.0



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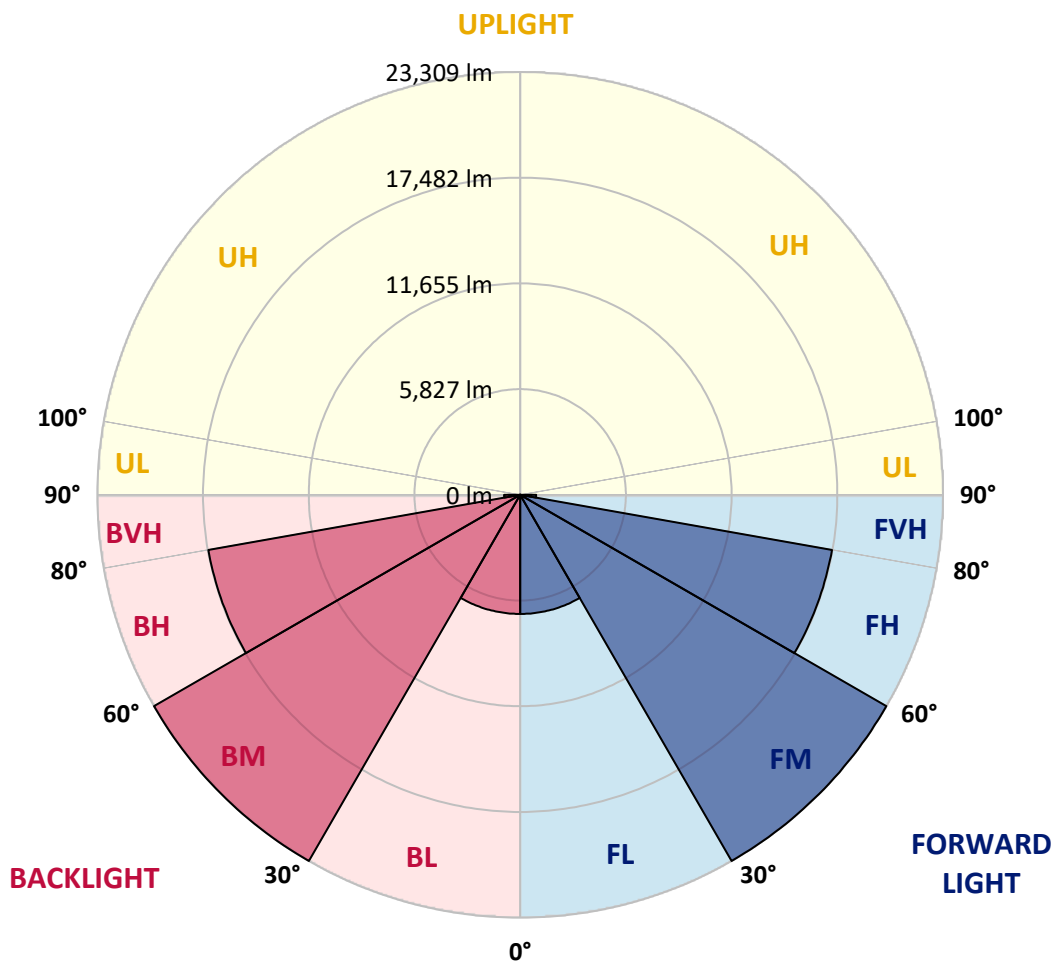
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6566.7	6.8			
FM	(30°-60°)	23309.4	24.2			
FH	(60°-80°)	17455.3	18.1			G5
FVH	(80°-90°)	883.7	0.9			G5
BL	(0°-30°)	6566.7	6.8	B5		
BM	(30°-60°)	23309.4	24.2	B5		
BH	(60°-80°)	17455.3	18.1	B5		G5
BVH	(80°-90°)	883.7	0.9			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3	15529.3
2.5°	15572.7	15523.6	15543.8	15616.0	15353.1	15483.1	15436.9	15552.4	15491.8	15543.8	15569.8
5°	15462.9	15402.2	15431.1	15566.9	15327.1	15460.0	15425.3	15555.3	15477.3	15549.6	15578.5
7.5°	15367.5	15304.0	15356.0	15468.7	15286.6	15434.0	15405.1	15581.3	15517.8	15610.2	15639.1
10°	15306.9	15237.5	15286.6	15410.9	15217.3	15448.4	15422.4	15656.5	15624.7	15751.8	15786.5
12.5°	15156.6	15084.4	15119.1	15283.8	15197.1	15436.9	15500.4	15769.1	15760.5	15913.6	15951.2
15°	14887.9	14815.7	14861.9	15081.5	15113.3	15445.5	15642.0	15959.8	16011.8	16165.0	16196.7
17.5°	14549.9	14497.9	14567.2	14859.0	15058.4	15564.0	15847.1	16251.6	16378.8	16534.8	16578.1
20°	14087.6	14058.7	14183.0	14581.7	14963.1	15650.7	16092.7	16661.9	16893.0	17147.3	17179.1
22.5°	13457.8	13423.1	13683.2	14243.7	14792.6	15670.9	16332.5	17086.6	17514.2	17840.7	17924.5
25°	12749.9	12738.4	13093.8	13830.5	14561.5	15656.5	16566.6	17540.2	18193.2	18623.6	18716.1
27.5°	12053.7	12088.3	12518.8	13388.5	14370.8	15688.2	16835.2	18120.9	19042.6	19580.0	19620.4
30°	11461.4	11490.3	11955.4	12952.2	14188.8	15725.8	17167.5	18814.3	20100.0	20825.2	20943.7
32.5°	10903.8	10970.2	11444.0	12478.4	13986.5	15798.0	17598.0	19718.6	21397.3	22541.4	22688.7
35°	10444.4	10502.2	10964.4	11995.9	13665.8	15855.8	18167.2	20862.8	23330.1	25234.1	25462.3
37.5°	10037.0	10106.3	10505.1	11550.9	13284.4	15876.0	18733.4	22272.7	25947.7	28978.5	29689.2
40°	9742.3	9797.2	10141.0	11106.0	12874.2	15783.6	19380.6	23850.2	28888.9	33448.0	34228.1
42.5°	9499.6	9545.8	9829.0	10669.7	12411.9	15601.6	19984.4	25421.9	31997.7	38183.4	39200.4
45°	9254.0	9265.6	9537.2	10294.1	11943.9	15312.6	20438.1	26927.1	35271.1	43014.1	44204.4
47.5°	9034.5	9020.0	9233.8	9924.3	11441.1	14827.3	20614.3	28175.3	38452.1	47541.4	48841.6
50°	8829.3	8768.7	8953.6	9571.8	10952.9	14131.0	20391.8	29039.1	41797.7	51915.7	53068.4
52.5°	8523.1	8494.2	8670.4	9225.1	10464.6	13298.9	19658.0	29495.6	45365.9	56058.7	57263.5
55°	8248.6	8228.4	8410.4	8872.7	9985.0	12452.4	18392.5	29371.4	48882.0	60054.5	61389.3
57.5°	7945.2	7930.8	8101.3	8488.4	9456.3	11666.5	16826.6	28568.2	52022.6	63504.1	65390.8
60°	7647.7	7656.3	7766.1	8098.4	8918.9	10799.8	15041.1	27169.8	54527.5	66627.4	68687.3
62.5°	7301.0	7292.3	7373.2	7650.5	8303.5	9863.7	13281.6	25231.2	55995.2	69354.7	70672.2
65°	6832.9	6801.1	6893.6	7069.8	7558.1	8904.4	11548.0	22885.2	56032.7	70709.8	71830.8
66°	6633.6	6598.9	6682.7	6806.9	7266.3	8517.3	10909.5	21891.3	55457.8	70750.2	72142.8
67.5°	6324.4	6284.0	6338.9	6396.6	6809.8	7899.0	9973.4	20764.5	54198.1	70496.0	72342.1
70°	5555.9	5561.7	5619.5	5599.2	5810.1	6523.8	8237.0	18672.8	48122.2	69467.4	71273.2
72.5°	4325.1	4276.0	4192.2	4111.3	4212.4	4839.4	6237.7	15670.9	39405.5	65032.5	68542.9
75°	2790.9	2782.3	2779.4	2877.6	2892.1	3316.8	4819.2	12643.0	30717.7	53368.9	58422.1
77.5°	1745.1	1730.6	1854.9	2094.7	2132.2	2143.8	3160.8	9609.4	22206.2	34150.1	36799.5
80°	1251.0	1251.0	1259.7	1291.5	1493.7	1525.5	2184.2	6032.6	12628.6	16647.4	17491.1
82.5°	947.7	933.2	936.1	950.5	967.9	1040.1	1314.6	2678.3	5044.5	8436.4	9545.8
85°	684.7	705.0	739.6	713.6	644.3	653.0	745.4	921.6	1938.6	3267.7	3533.5
87.5°	248.5	286.0	294.7	306.3	294.7	297.6	306.3	288.9	392.9	806.1	930.3
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)