

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: P233978

Luminaire Tested: **CTN-8-3-D-E1-T1-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233978
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-8-3-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: 33824 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

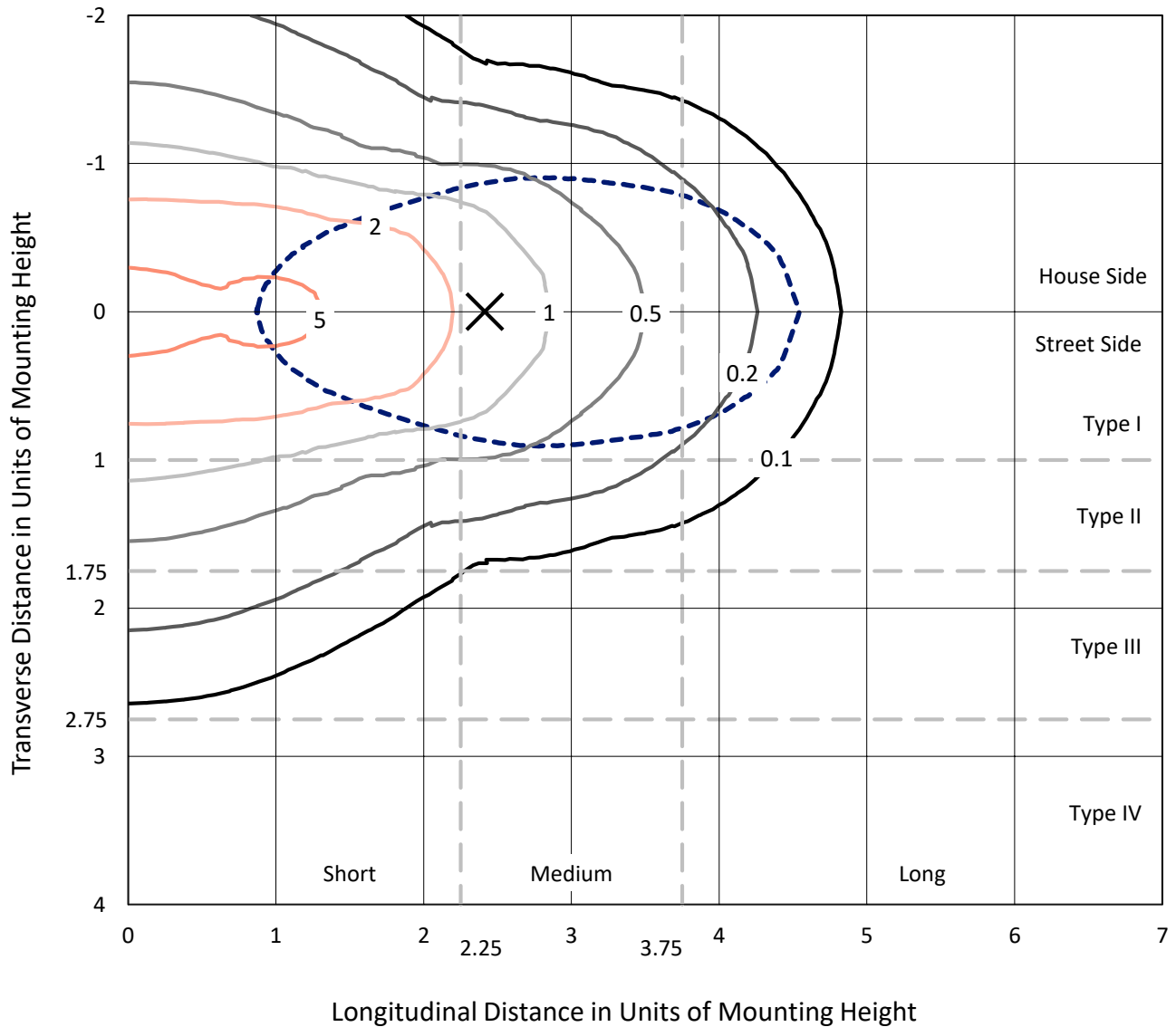
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

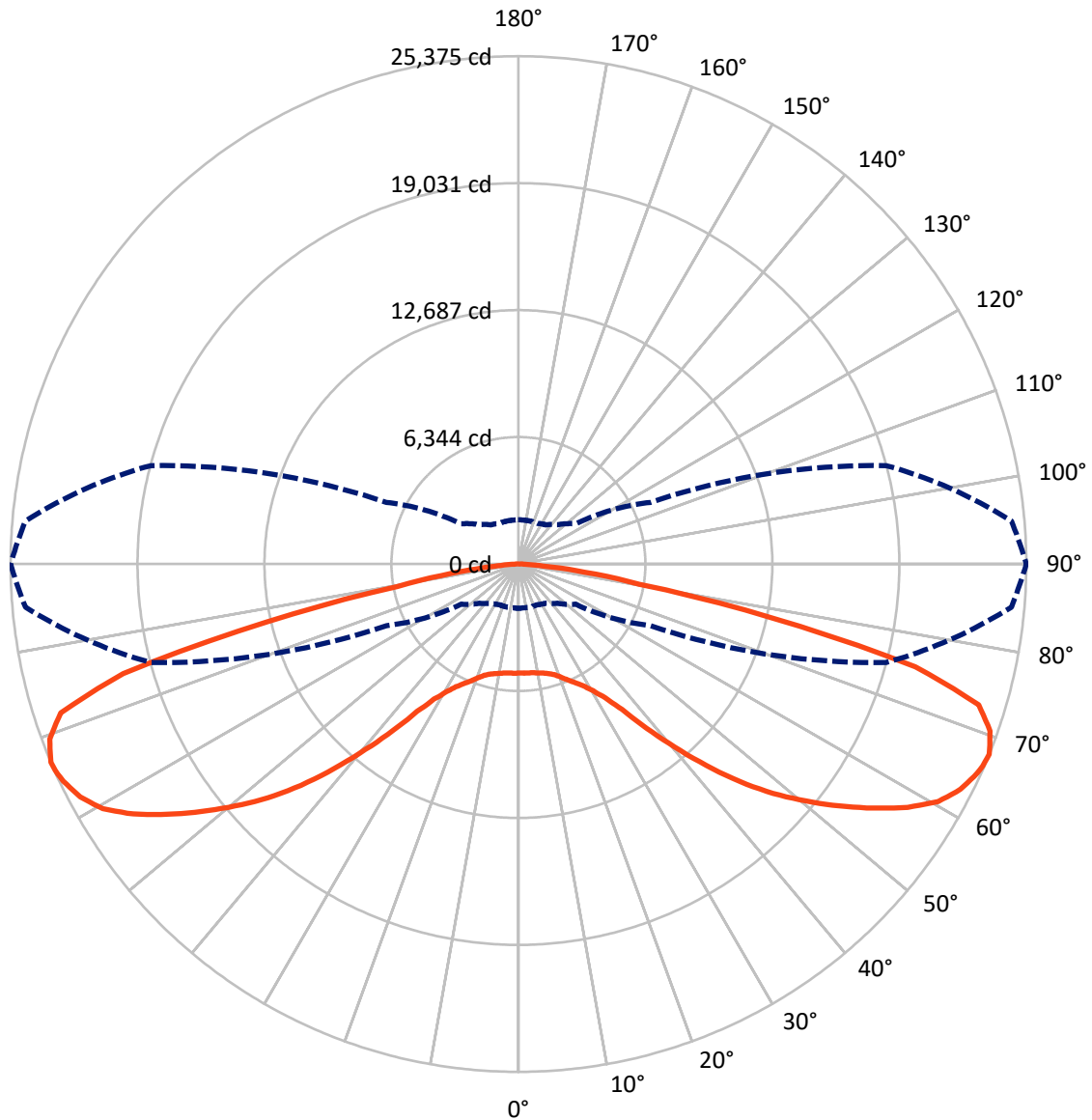
× Max cd
 - - - 1/2 Max cd



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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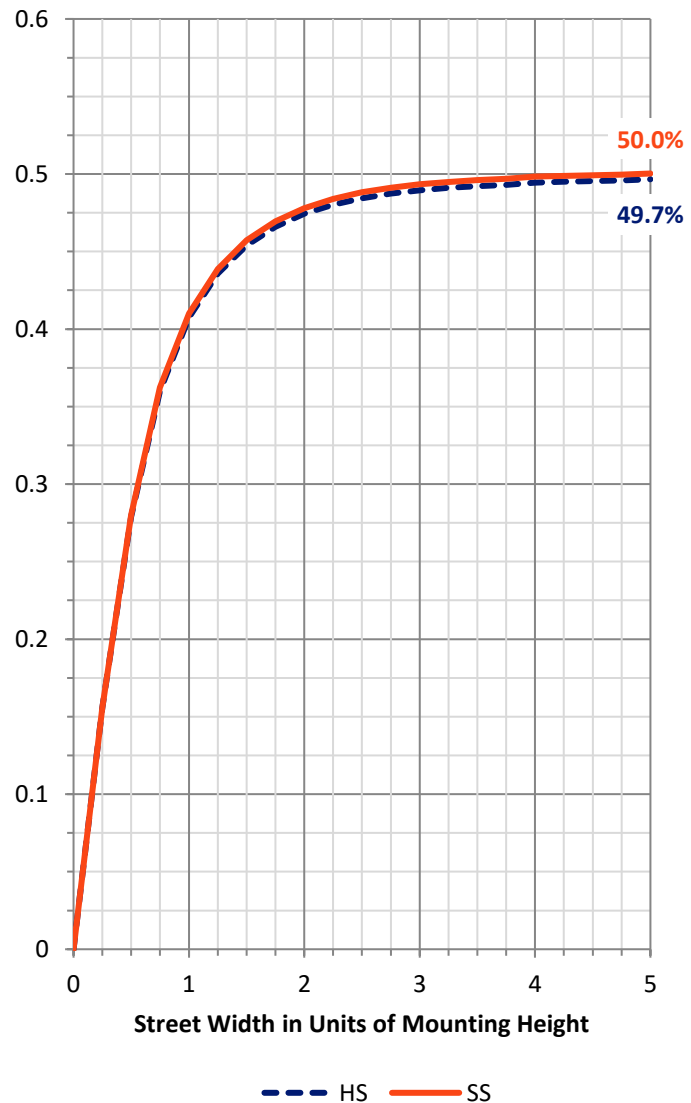
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16912.0	0.0	16912.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16912.0	0.0	16912.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33824.0	0.0	33824.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.7	1.5
10°-20°	1540.3	4.6
20°-30°	2548.7	7.5
30°-40°	3734.2	11.0
40°-50°	5493.8	16.2
50°-60°	7124.1	21.1
60°-70°	7571.4	22.4
70°-80°	4673.9	13.8
80°-90°	619.9	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°	33824.0	100.0
0°-180°	33824.0	100.0



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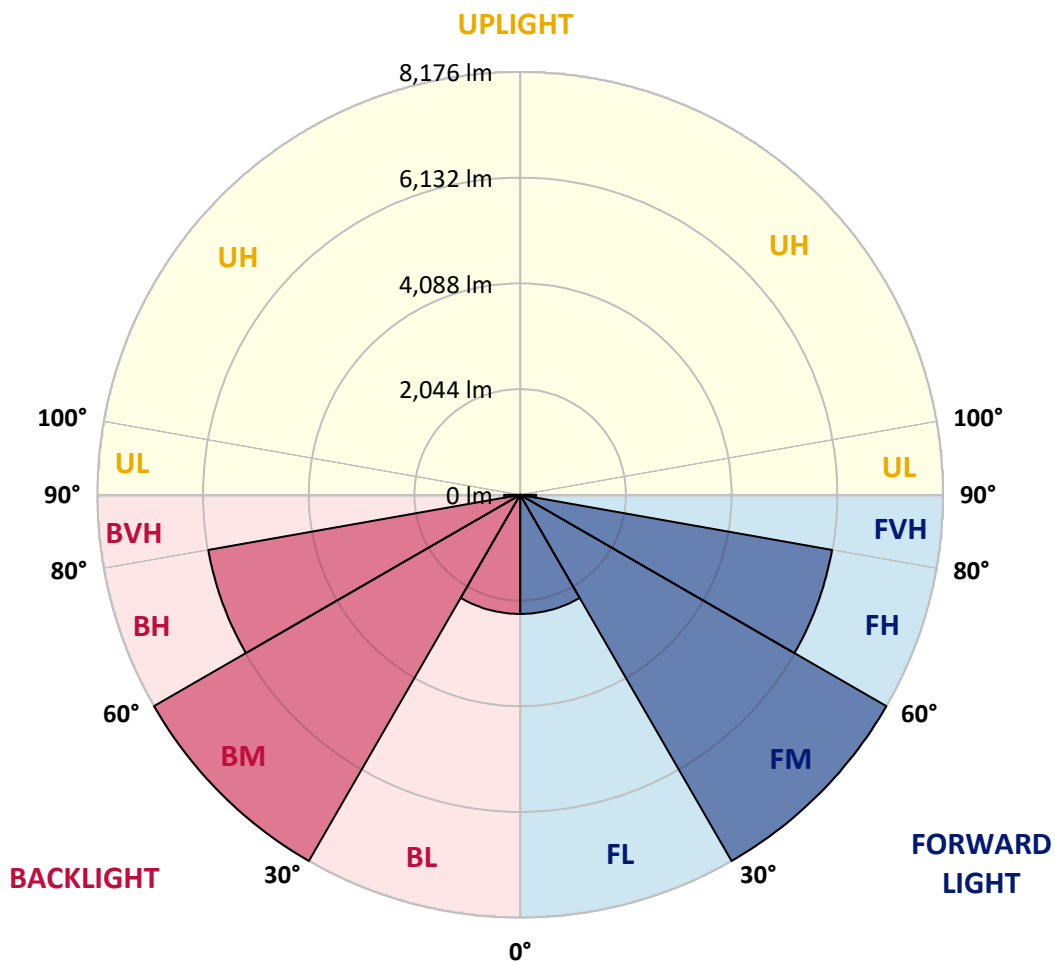
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2303.3	6.8			
FM	(30°-60°)	8176.0	24.2			
FH	(60°-80°)	6122.6	18.1			G3/7500
FVH	(80°-90°)	310.0	0.9			G3/500
BL	(0°-30°)	2303.3	6.8	B3/2500		
BM	(30°-60°)	8176.0	24.2	B4/8500		
BH	(60°-80°)	6122.6	18.1	B5		G5
BVH	(80°-90°)	310.0	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°	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1	5447.1
2.5°	5462.3	5445.1	5452.2	5477.5	5385.3	5430.9	5414.7	5455.2	5433.9	5452.2	5461.3
5°	5423.8	5402.5	5412.6	5460.3	5376.2	5422.8	5410.6	5456.2	5428.9	5454.2	5464.3
7.5°	5390.4	5368.1	5386.3	5425.8	5362.0	5413.7	5403.5	5465.3	5443.1	5475.5	5485.6
10°	5369.1	5344.7	5362.0	5405.6	5337.7	5418.7	5409.6	5491.7	5480.5	5525.1	5537.3
12.5°	5316.4	5291.0	5303.2	5361.0	5330.6	5414.7	5437.0	5531.2	5528.2	5581.9	5595.1
15°	5222.1	5196.8	5213.0	5290.0	5301.2	5417.7	5486.6	5598.1	5616.3	5670.1	5681.2
17.5°	5103.6	5085.3	5109.6	5212.0	5281.9	5459.3	5558.6	5700.5	5745.0	5799.8	5815.0
20°	4941.4	4931.3	4974.9	5114.7	5248.5	5489.7	5644.7	5844.4	5925.4	6014.6	6025.8
22.5°	4720.5	4708.3	4799.5	4996.1	5188.7	5496.8	5728.8	5993.3	6143.3	6257.8	6287.2
25°	4472.2	4468.1	4592.8	4851.2	5107.6	5491.7	5810.9	6152.4	6381.5	6532.5	6564.9
27.5°	4228.0	4240.1	4391.1	4696.2	5040.7	5502.8	5905.2	6356.1	6679.4	6867.9	6882.1
30°	4020.2	4030.4	4193.5	4543.1	4976.9	5516.0	6021.7	6599.4	7050.3	7304.7	7346.2
32.5°	3824.6	3847.9	4014.1	4376.9	4905.9	5541.4	6172.7	6916.6	7505.3	7906.7	7958.3
35°	3663.5	3683.8	3845.9	4207.7	4793.5	5561.6	6372.4	7317.9	8183.3	8851.2	8931.2
37.5°	3520.6	3544.9	3684.8	4051.6	4659.7	5568.7	6571.0	7812.4	9101.5	10164.5	10413.8
40°	3417.2	3436.5	3557.1	3895.6	4515.8	5536.3	6798.0	8365.7	10133.1	11732.3	12005.9
42.5°	3332.1	3348.3	3447.6	3742.5	4353.6	5472.4	7009.8	8917.0	11223.6	13393.3	13750.0
45°	3246.0	3250.0	3345.3	3610.8	4189.5	5371.1	7168.9	9445.0	12371.8	15087.7	15505.2
47.5°	3168.9	3163.9	3238.9	3481.1	4013.1	5200.8	7230.7	9882.8	13487.5	16675.7	17131.8
50°	3097.0	3075.7	3140.6	3357.4	3841.9	4956.6	7152.7	10185.8	14661.1	18210.0	18614.4
52.5°	2989.6	2979.4	3041.3	3235.8	3670.6	4664.7	6895.3	10346.0	15912.6	19663.3	20085.9
55°	2893.3	2886.2	2950.1	3112.2	3502.4	4367.8	6451.4	10302.4	17146.0	21064.8	21533.0
57.5°	2786.9	2781.8	2841.6	2977.4	3316.9	4092.2	5902.1	10020.6	18247.5	22274.9	22936.6
60°	2682.5	2685.5	2724.1	2840.6	3128.4	3788.1	5275.8	9530.2	19126.2	23370.4	24092.9
62.5°	2560.9	2557.9	2586.2	2683.5	2912.6	3459.8	4658.7	8850.2	19641.0	24327.0	24789.1
65°	2396.7	2385.6	2418.0	2479.8	2651.1	3123.3	4050.6	8027.3	19654.2	24802.3	25195.5
66°	2326.8	2314.6	2344.0	2387.6	2548.7	2987.5	3826.7	7678.6	19452.5	24816.5	25305.0
67.5°	2218.4	2204.2	2223.4	2243.7	2388.6	2770.7	3498.3	7283.4	19010.6	24727.3	25374.9
70°	1948.8	1950.8	1971.1	1964.0	2038.0	2288.3	2889.2	6549.7	16879.4	24366.5	24999.9
72.5°	1517.1	1499.9	1470.5	1442.1	1477.6	1697.5	2188.0	5496.8	13822.0	22811.0	24042.3
75°	979.0	975.9	974.9	1009.4	1014.4	1163.4	1690.4	4434.7	10774.6	18719.8	20492.3
77.5°	612.1	607.0	650.6	734.7	747.9	752.0	1108.7	3370.6	7789.1	11978.6	12907.9
80°	438.8	438.8	441.8	453.0	523.9	535.1	766.1	2116.0	4429.6	5839.3	6135.2
82.5°	332.4	327.3	328.3	333.4	339.5	364.8	461.1	939.4	1769.4	2959.2	3348.3
85°	240.2	247.3	259.4	250.3	226.0	229.0	261.5	323.3	680.0	1146.2	1239.4
87.5°	87.2	100.3	103.4	107.4	103.4	104.4	107.4	101.3	137.8	282.7	326.3
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)