

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: P232739

Luminaire Tested: **CTN-10-4-D-E1-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-10-4-D-E1-T5-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(10) 70 CRI, 3000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42666 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

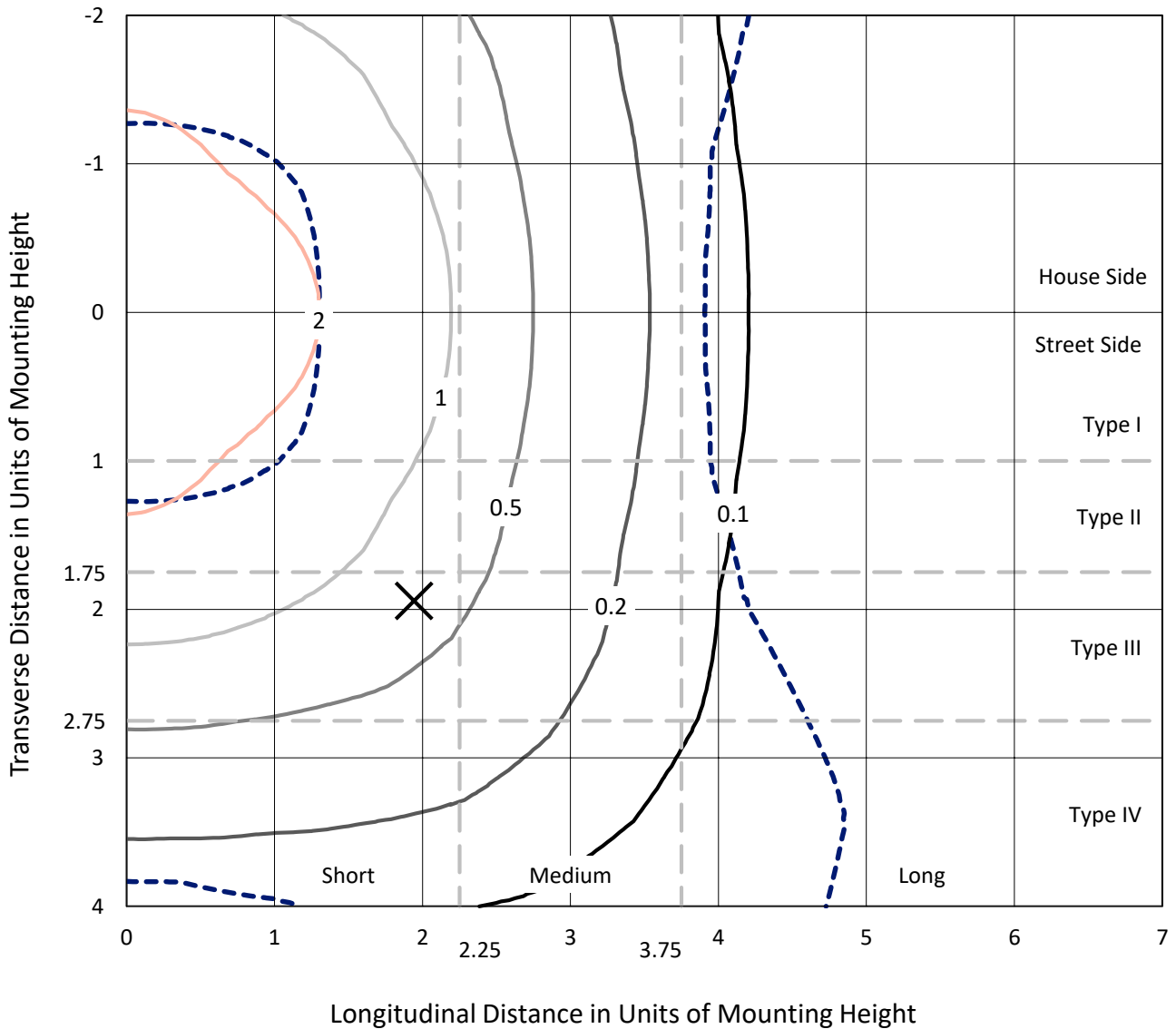
Input Watts (W): 308
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

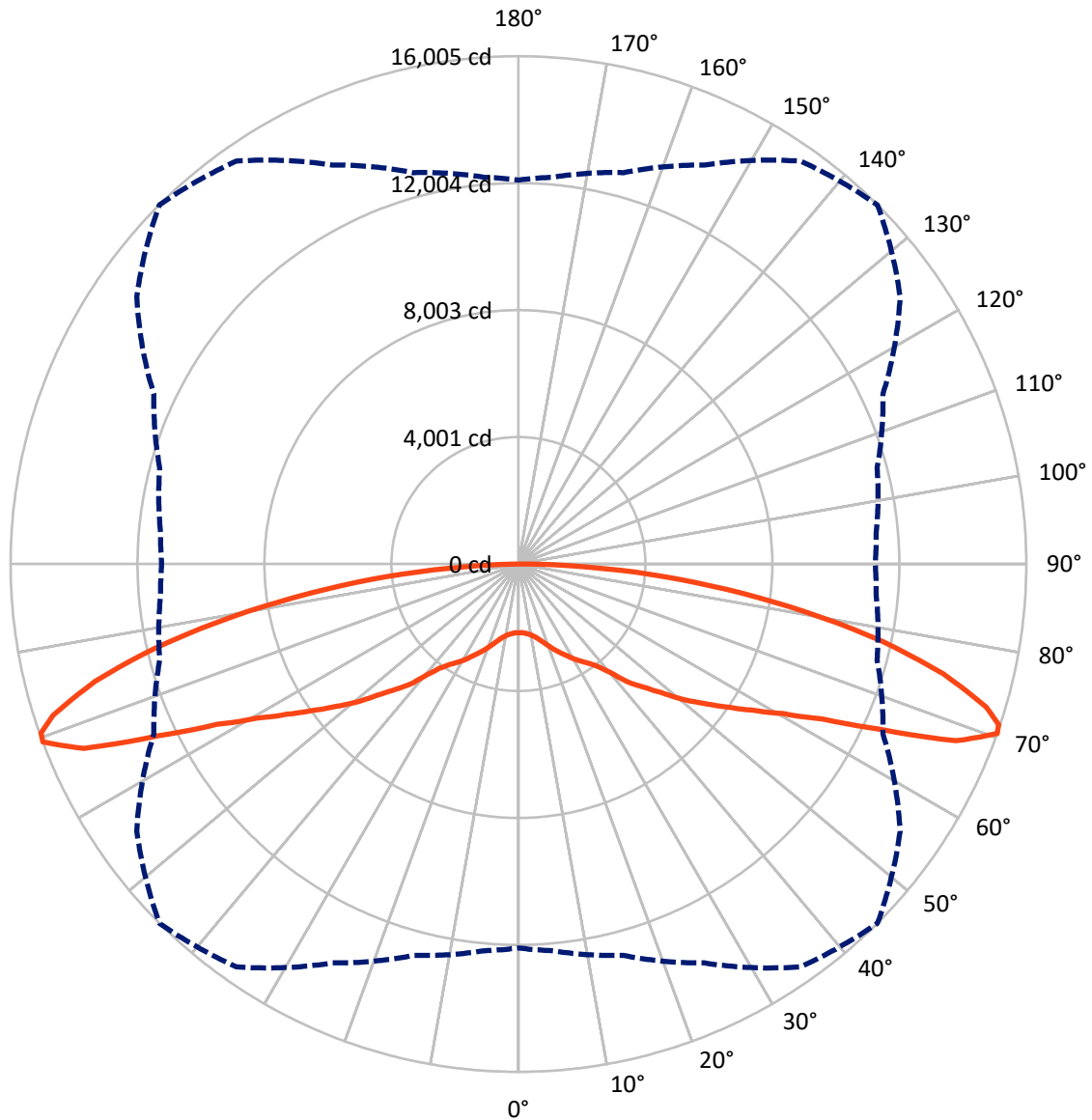


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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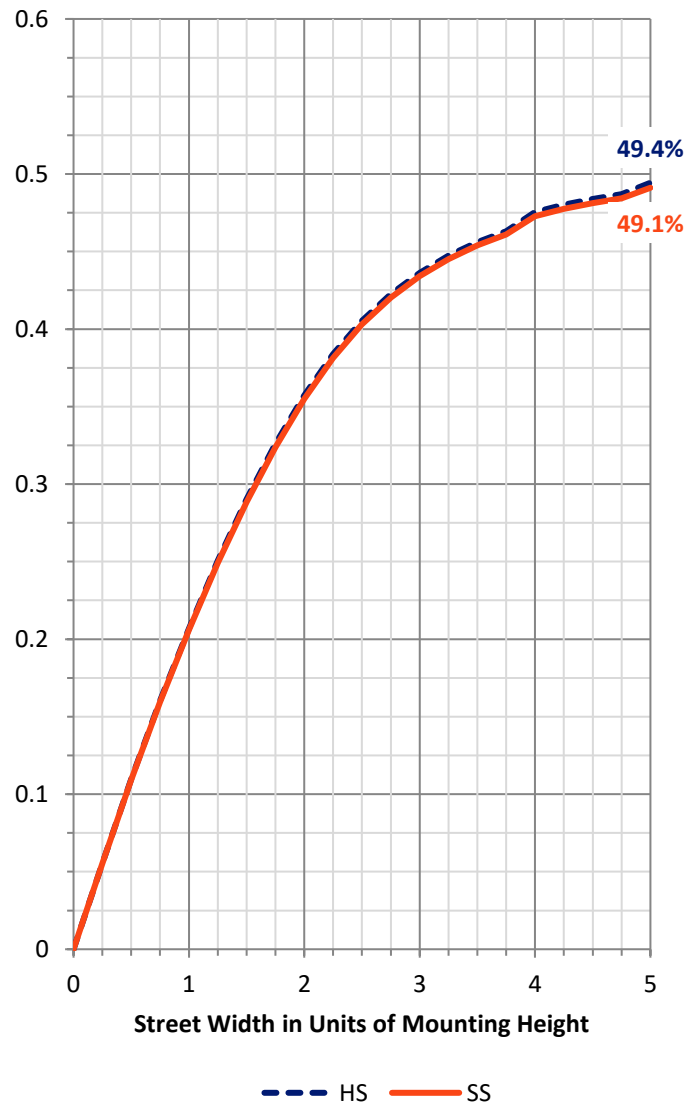
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21333.0	0.0	21333.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21333.0	0.0	21333.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42666.0	0.0	42666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	0.5
10°-20°	707.5	1.7
20°-30°	1413.8	3.3
30°-40°	2431.3	5.7
40°-50°	4497.7	10.5
50°-60°	7644.8	17.9
60°-70°	12322.5	28.9
70°-80°	10891.0	25.5
80°-90°	2544.8	6.0
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°	42666.0	100.0
0°-180°	42666.0	100.0



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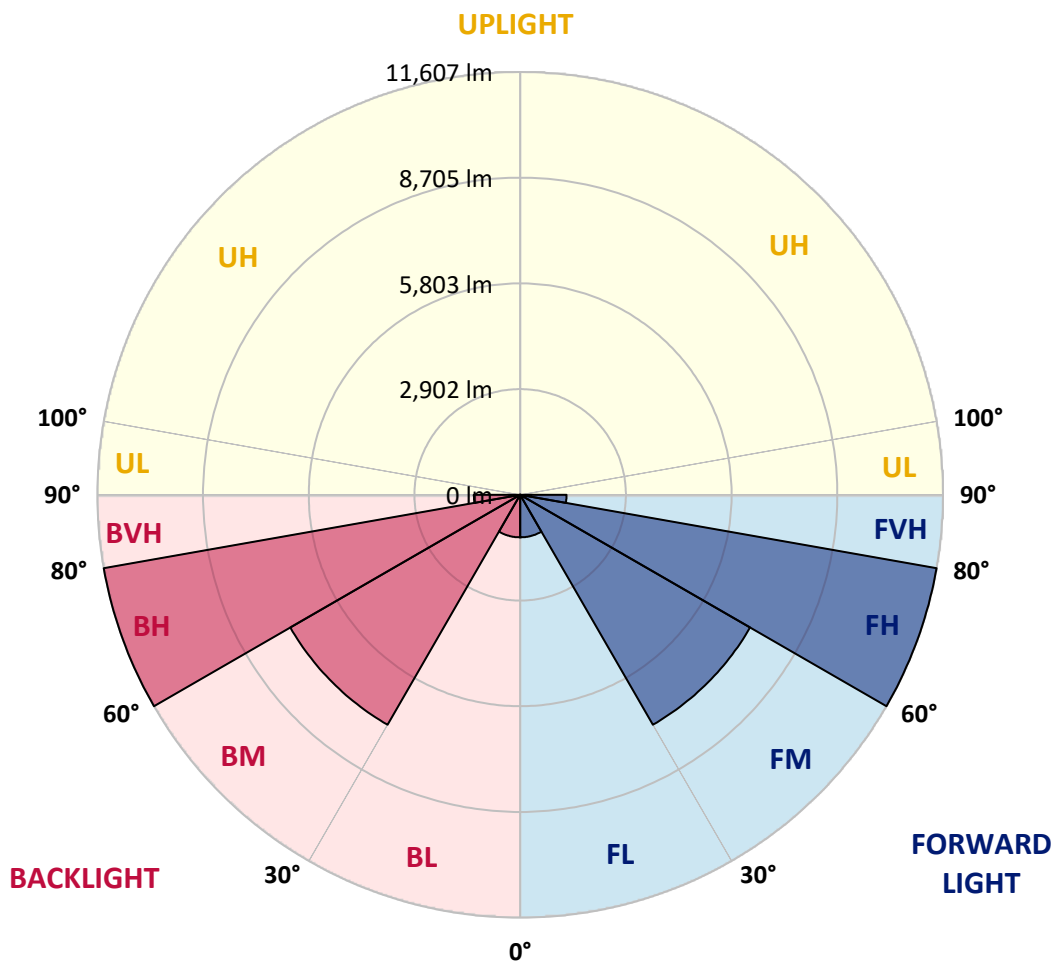
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.9	2.7			
FM (30°-60°)	7286.9	17.1			
FH (60°-80°)	11606.8	27.2			G4/12000
FVH (80°-90°)	1272.4	3.0			G5
BL (0°-30°)	1166.9	2.7	B3/2500		
BM (30°-60°)	7286.9	17.1	B4/8500		
BH (60°-80°)	11606.8	27.2	B5		G4/12000
BVH (80°-90°)	1272.4	3.0			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8	2167.8
2.5°	2186.5	2182.5	2183.9	2183.9	2159.7	2165.1	2166.4	2181.2	2181.2	2187.9	2189.2
5°	2208.0	2201.3	2202.7	2208.0	2185.2	2189.2	2189.2	2204.0	2201.3	2209.4	2213.4
7.5°	2245.6	2240.2	2240.2	2245.6	2218.8	2225.5	2221.4	2234.9	2229.5	2233.5	2241.6
10°	2306.0	2304.7	2300.6	2303.3	2273.8	2277.8	2269.8	2284.5	2273.8	2275.1	2289.9
12.5°	2375.8	2374.5	2374.5	2378.5	2353.0	2359.7	2346.3	2351.6	2332.9	2335.5	2347.6
15°	2461.7	2464.4	2467.1	2479.2	2463.1	2469.8	2449.6	2446.9	2425.5	2425.5	2440.2
17.5°	2579.8	2579.8	2581.2	2608.0	2598.6	2609.4	2581.2	2562.4	2540.9	2543.6	2546.3
20°	2727.5	2722.1	2724.8	2757.0	2759.7	2767.7	2723.5	2698.0	2675.1	2676.5	2673.8
22.5°	2884.5	2873.8	2872.4	2916.7	2935.5	2938.2	2876.5	2852.3	2822.8	2826.8	2824.1
25°	3034.9	3024.1	3018.8	3055.0	3104.7	3102.0	3034.9	3000.0	2986.5	2986.5	2989.2
27.5°	3183.9	3170.4	3165.1	3186.5	3264.4	3277.8	3189.2	3158.3	3144.9	3157.0	3162.4
30°	3334.2	3323.4	3320.8	3327.5	3416.1	3475.1	3338.2	3324.8	3323.4	3334.2	3346.3
32.5°	3516.7	3515.4	3504.7	3503.3	3569.1	3655.0	3516.7	3524.8	3546.3	3570.4	3586.5
35°	3751.6	3748.9	3719.4	3732.8	3765.1	3845.6	3766.4	3771.8	3829.5	3865.7	3885.9
37.5°	4064.4	4044.2	4006.7	4008.0	4024.1	4106.0	4075.1	4116.7	4221.4	4288.5	4281.8
40°	4507.3	4475.1	4418.7	4402.6	4399.9	4516.7	4546.2	4640.2	4805.3	4904.6	4897.9
42.5°	5140.9	5107.3	5021.4	4998.6	5008.0	5099.3	5185.2	5334.2	5477.8	5593.2	5586.5
45°	5790.5	5747.6	5609.3	5531.5	5464.4	5534.2	5668.4	5901.9	6073.7	6225.4	6222.7
47.5°	6542.2	6475.1	6308.6	6159.6	6025.4	6050.9	6194.5	6461.7	6669.7	6821.4	6812.0
50°	7358.3	7291.2	7108.6	6884.5	6676.4	6693.9	6763.7	7045.5	7252.3	7399.9	7402.6
52.5°	8230.8	8182.4	7973.0	7676.4	7390.5	7292.5	7336.8	7597.2	7834.8	7974.4	7986.5
55°	9171.7	9124.7	8904.6	8562.3	8170.4	7950.2	7948.9	8210.6	8450.9	8573.0	8591.8
57.5°	10115.3	10089.8	9896.5	9523.4	9029.4	8692.5	8616.0	8888.5	9158.3	9284.4	9309.9
60°	11087.1	11052.2	10891.1	10578.4	10036.1	9574.4	9445.5	9718.0	10022.7	10152.9	10169.0
62.5°	12187.8	12152.9	12029.4	11699.2	11299.2	10765.0	10578.4	10829.4	11111.3	11319.3	11297.8
65°	13288.4	13280.4	13332.7	13183.7	12877.7	12571.6	12203.9	12479.0	12687.1	12666.9	12660.2
67.5°	13112.6	13163.6	13526.0	14042.8	14688.4	14870.9	14021.3	13250.8	12797.1	12534.1	12450.8
70°	12100.5	12232.1	12769.0	13871.0	15499.1	16005.2	14684.4	12676.3	11701.9	11318.0	11244.1
71°	11542.1	11645.5	12264.3	13610.6	15504.5	15960.9	14527.3	12244.1	11253.5	10727.4	10676.4
72.5°	10454.9	10614.6	11297.8	12897.8	15033.4	15417.2	13842.8	11438.8	10401.2	9888.5	9860.3
75°	8358.3	8406.6	9288.5	11105.9	13536.7	13841.4	12288.4	9926.0	8856.3	8505.9	8485.8
77.5°	5899.3	5900.6	6746.2	8657.6	11222.7	11716.6	10642.8	8183.8	7103.3	6663.0	6565.0
80°	3124.8	3252.3	4091.2	5950.3	8406.6	9220.0	8457.6	6187.8	4994.6	4351.6	4261.7
82.5°	1424.1	1515.4	2059.0	3373.1	5528.8	6640.2	5802.6	4017.4	2676.5	1982.5	1924.8
85°	553.0	566.4	849.7	1602.7	3091.2	4165.0	3378.5	1883.2	931.5	569.1	527.5
87.5°	181.2	193.3	276.5	617.4	1315.4	1663.1	1306.0	566.4	181.2	112.8	108.7
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)