

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: P232738

Luminaire Tested: **CTN-8-4-D-E1-T5-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232738
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-8-4-D-E1-T5-7030
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 3000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42836 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

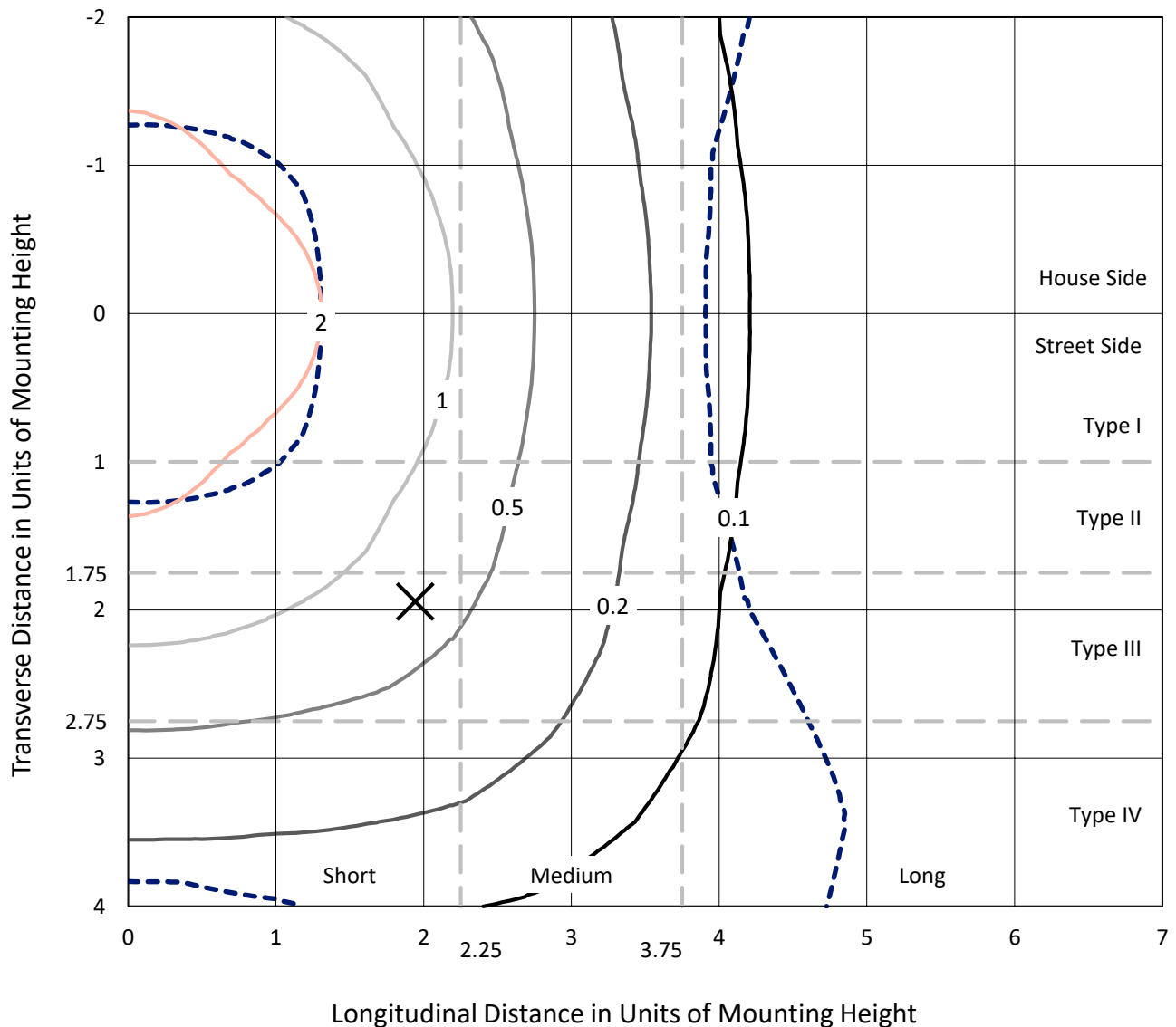
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

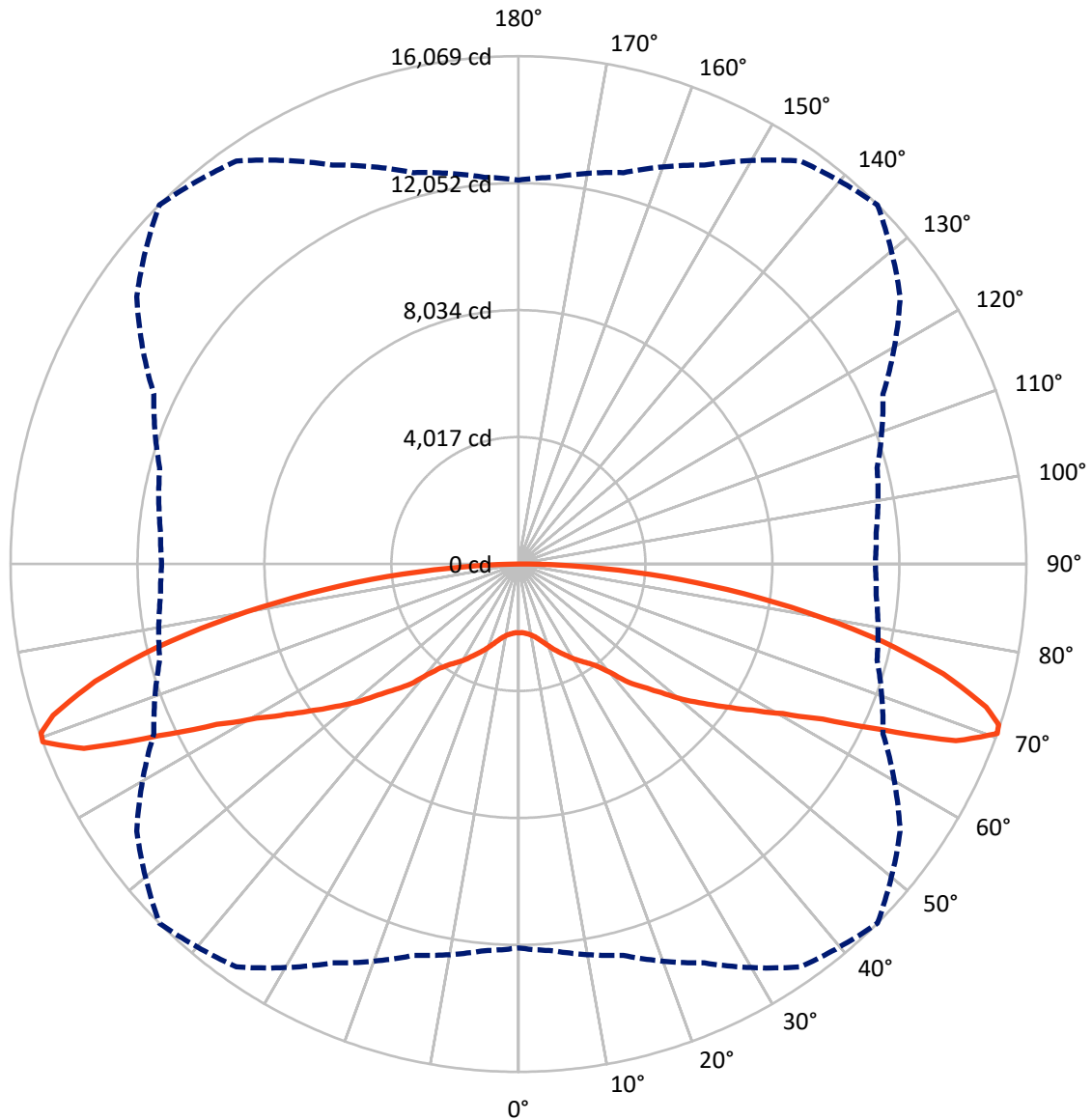
× Max cd
 - - - 1/2 Max cd



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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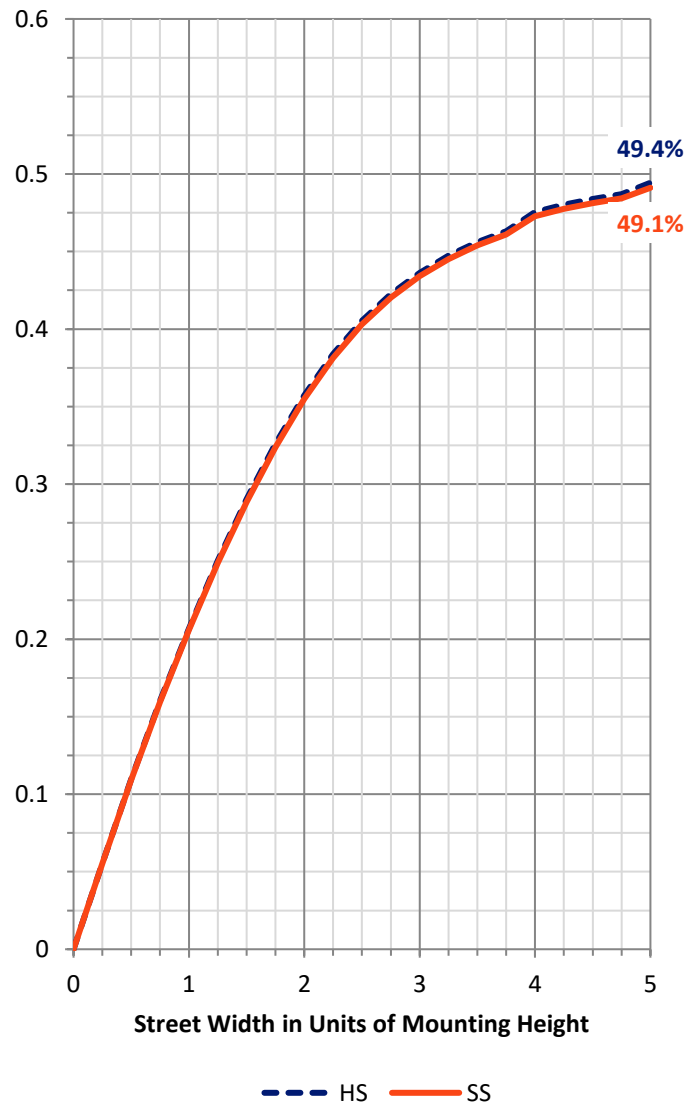
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21418.0	0.0	21418.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21418.0	0.0	21418.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42836.0	0.0	42836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	0.5
10°-20°	710.3	1.7
20°-30°	1419.4	3.3
30°-40°	2440.9	5.7
40°-50°	4515.7	10.5
50°-60°	7675.3	17.9
60°-70°	12371.6	28.9
70°-80°	10934.4	25.5
80°-90°	2555.0	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°	42836.0	100.0
0°-180°	42836.0	100.0



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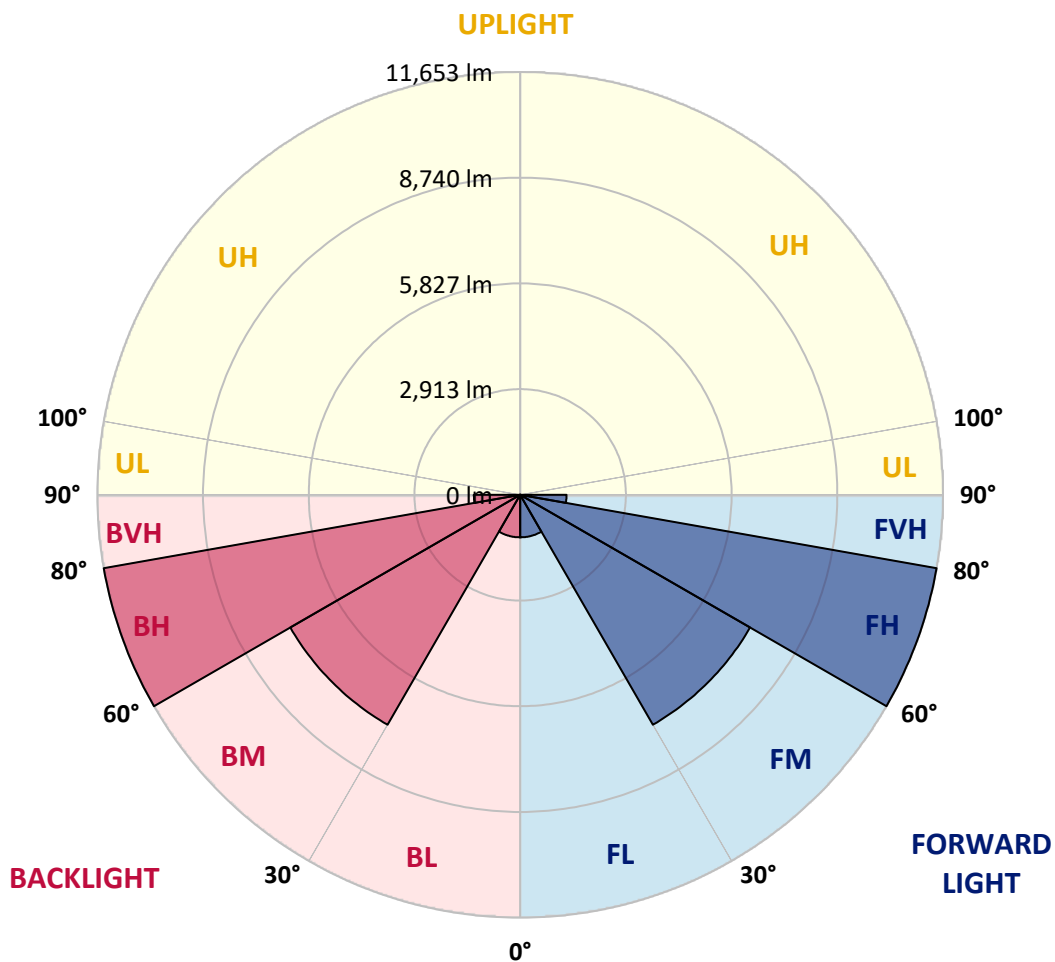
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1171.6	2.7			
FM	(30°-60°)	7315.9	17.1			
FH	(60°-80°)	11653.0	27.2			G4/12000
FVH	(80°-90°)	1277.5	3.0			G5
BL	(0°-30°)	1171.6	2.7	B3/2500		
BM	(30°-60°)	7315.9	17.1	B4/8500		
BH	(60°-80°)	11653.0	27.2	B5		G4/12000
BVH	(80°-90°)	1277.5	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°	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4
2.5°	2195.3	2191.2	2192.6	2192.6	2168.3	2173.7	2175.0	2189.9	2189.9	2196.6	2198.0
5°	2216.8	2210.1	2211.4	2216.8	2193.9	2198.0	2198.0	2212.8	2210.1	2218.2	2222.2
7.5°	2254.6	2249.2	2249.2	2254.6	2227.6	2234.3	2230.3	2243.8	2238.4	2242.4	2250.5
10°	2315.2	2313.9	2309.8	2312.5	2282.9	2286.9	2278.8	2293.6	2282.9	2284.2	2299.0
12.5°	2385.3	2383.9	2383.9	2388.0	2362.4	2369.1	2355.6	2361.0	2342.2	2344.8	2357.0
15°	2471.5	2474.2	2476.9	2489.0	2472.9	2479.6	2459.4	2456.7	2435.1	2435.1	2450.0
17.5°	2590.1	2590.1	2591.5	2618.4	2609.0	2619.8	2591.5	2572.6	2551.0	2553.7	2556.4
20°	2738.3	2733.0	2735.7	2768.0	2770.7	2778.8	2734.3	2708.7	2685.8	2687.1	2684.4
22.5°	2896.0	2885.2	2883.9	2928.4	2947.2	2949.9	2887.9	2863.7	2834.0	2838.1	2835.4
25°	3047.0	3036.2	3030.8	3067.2	3117.0	3114.3	3047.0	3011.9	2998.4	2998.4	3001.1
27.5°	3196.5	3183.1	3177.7	3199.2	3277.4	3290.9	3201.9	3170.9	3157.5	3169.6	3175.0
30°	3347.5	3336.7	3334.0	3340.7	3429.7	3489.0	3351.5	3338.0	3336.7	3347.5	3359.6
32.5°	3530.7	3529.4	3518.6	3517.3	3583.3	3669.5	3530.7	3538.8	3560.4	3584.6	3600.8
35°	3766.6	3763.9	3734.2	3747.7	3780.1	3860.9	3781.4	3786.8	3844.7	3881.1	3901.3
37.5°	4080.6	4060.4	4022.6	4024.0	4040.1	4122.3	4091.4	4133.1	4238.2	4305.6	4298.9
40°	4525.3	4492.9	4436.3	4420.2	4417.5	4534.7	4564.4	4658.7	4824.5	4924.2	4917.4
42.5°	5161.4	5127.7	5041.4	5018.5	5027.9	5119.6	5205.8	5355.4	5499.6	5615.5	5608.8
45°	5813.6	5770.5	5631.7	5553.5	5486.1	5556.2	5691.0	5925.5	6097.9	6250.2	6247.5
47.5°	6568.3	6500.9	6333.8	6184.2	6049.4	6075.0	6219.2	6487.4	6696.3	6848.6	6839.1
50°	7387.6	7320.2	7137.0	6911.9	6703.0	6720.5	6790.6	7073.6	7281.1	7429.4	7432.1
52.5°	8263.6	8215.0	8004.8	7707.0	7420.0	7321.6	7366.0	7627.5	7866.0	8006.2	8018.3
55°	9208.2	9161.1	8940.1	8596.4	8202.9	7981.9	7980.6	8243.3	8484.6	8607.2	8626.1
57.5°	10155.6	10130.0	9935.9	9561.3	9065.4	8727.1	8650.3	8923.9	9194.8	9321.4	9347.0
60°	11131.3	11096.2	10934.5	10620.5	10076.1	9612.5	9483.1	9756.7	10062.6	10193.3	10209.5
62.5°	12236.3	12201.3	12077.3	11745.8	11344.2	10807.8	10620.5	10872.5	11155.5	11364.4	11342.9
65°	13341.4	13333.3	13385.8	13236.2	12929.0	12621.7	12252.5	12528.8	12737.6	12717.4	12710.7
67.5°	13164.8	13216.0	13579.9	14098.7	14746.9	14930.2	14077.2	13303.6	12848.1	12584.0	12500.5
70°	12148.7	12280.8	12819.8	13926.2	15560.9	16068.9	14742.9	12726.8	11748.5	11363.1	11288.9
71°	11588.1	11691.9	12313.1	13664.8	15566.3	16024.5	14585.2	12292.9	11298.4	10770.1	10718.9
72.5°	10496.6	10656.9	11342.9	12949.2	15093.3	15478.7	13897.9	11484.4	10442.6	9927.9	9899.6
75°	8391.6	8440.1	9325.5	11150.1	13590.7	13896.6	12337.4	9965.6	8891.5	8539.8	8519.6
77.5°	5922.8	5924.1	6773.1	8692.1	11267.4	11763.3	10685.2	8216.4	7131.6	6689.5	6591.2
80°	3137.2	3265.3	4107.5	5974.0	8440.1	9256.7	8491.3	6212.5	5014.5	4369.0	4278.7
82.5°	1429.8	1521.5	2067.2	3386.5	5550.8	6666.6	5825.7	4033.4	2687.1	1990.4	1932.5
85°	555.2	568.7	853.0	1609.0	3103.6	4181.6	3391.9	1890.7	935.2	571.4	529.6
87.5°	181.9	194.1	277.6	619.9	1320.7	1669.7	1311.2	568.7	181.9	113.2	109.2
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)