

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: P510462

Luminaire Tested: **CTN-CA10-310-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-310-722-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40737 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

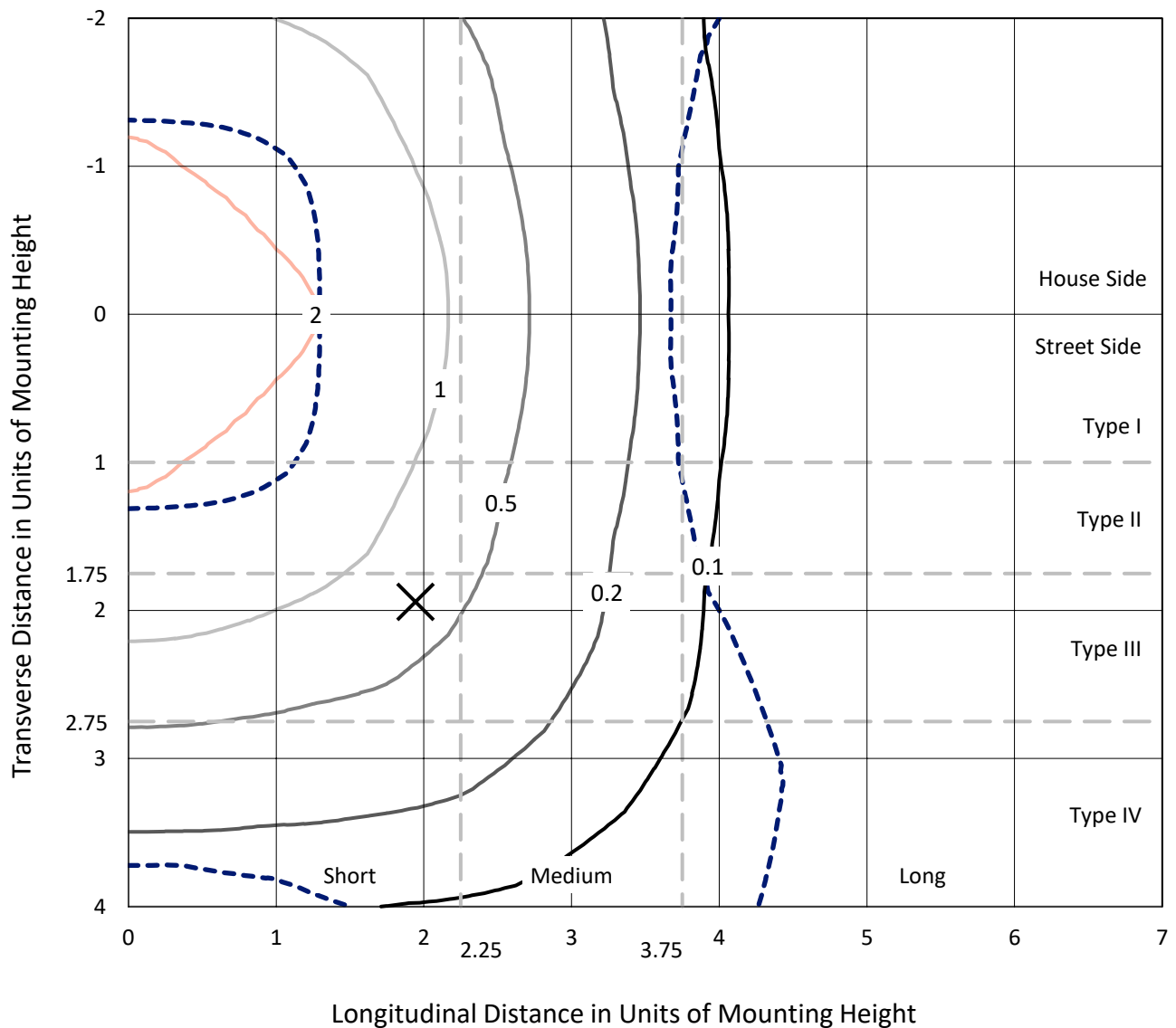
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

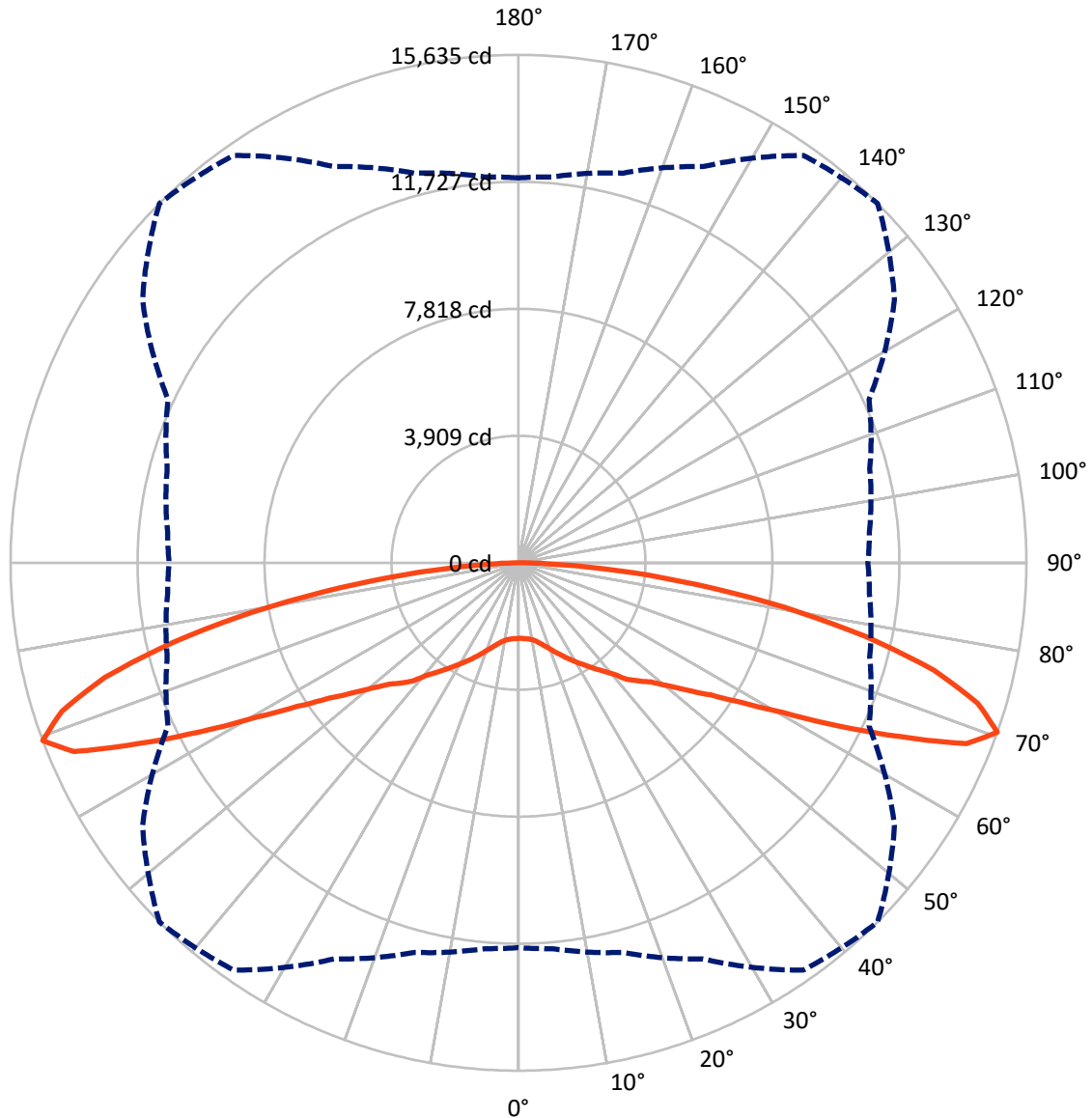
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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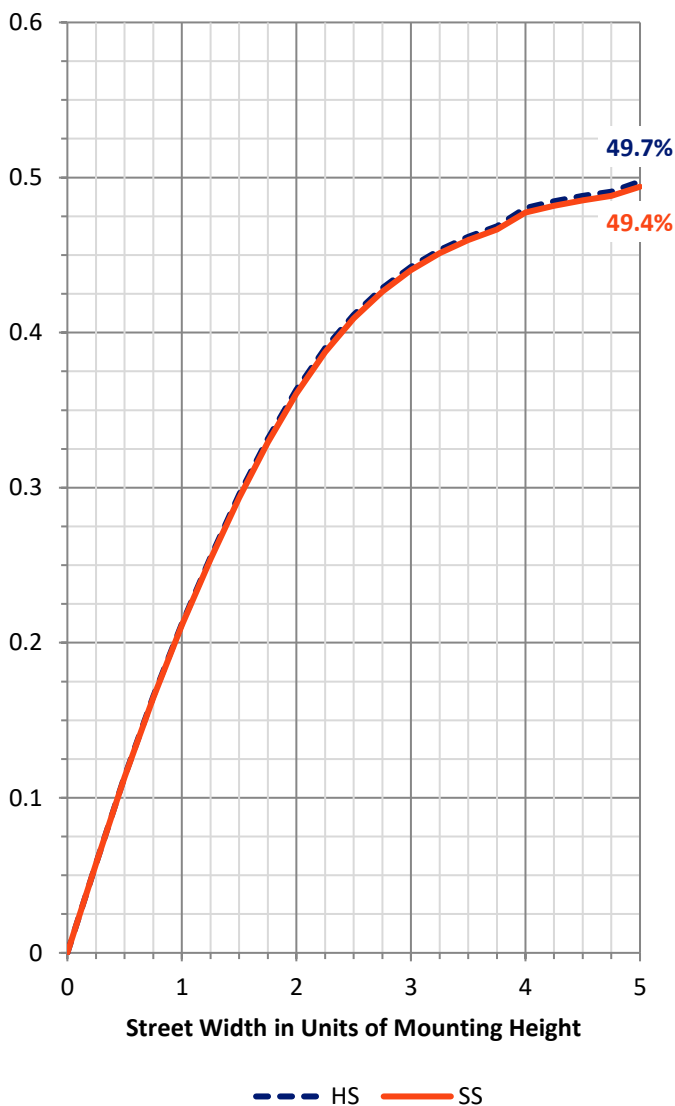
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20368.5	0.0	20368.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20368.5	0.0	20368.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40737.0	0.0	40737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	0.6
10°-20°	737.0	1.8
20°-30°	1459.0	3.6
30°-40°	2524.0	6.2
40°-50°	4199.6	10.3
50°-60°	7324.7	18.0
60°-70°	12125.7	29.8
70°-80°	10162.3	24.9
80°-90°	1978.3	4.9
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°	40737.0	100.0
0°-180°	40737.0	100.0

Coefficient of Utilization

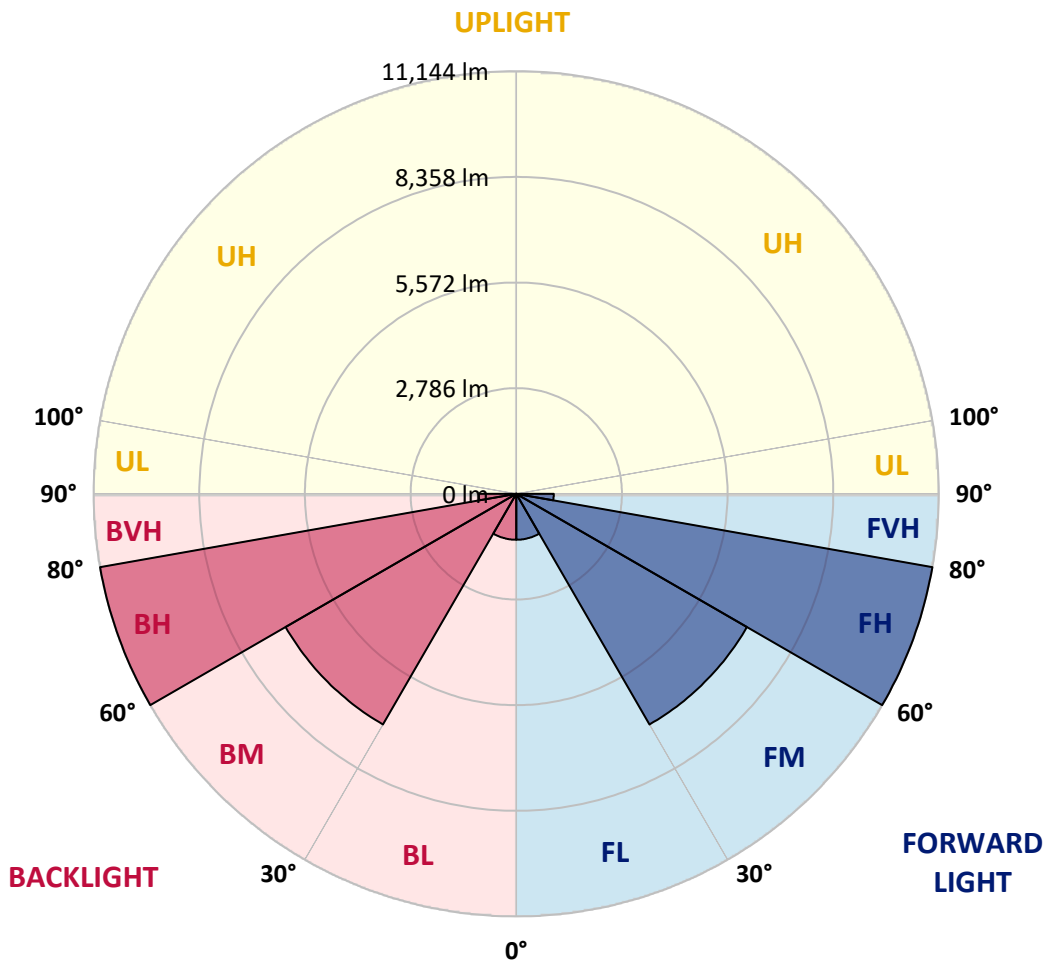


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.2	3.0			
FM (30°-60°)	7024.2	17.2			
FH (60°-80°)	11144.0	27.4			G4/12000
FVH (80°-90°)	989.1	2.4			G5
BL (0°-30°)	1211.2	3.0	B3/2500		
BM (30°-60°)	7024.2	17.2	B4/8500		
BH (60°-80°)	11144.0	27.4	B5		G4/12000
BVH (80°-90°)	989.1	2.4			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°	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2
2.5°	2342.8	2335.5	2333.1	2330.7	2332.3	2331.5	2335.5	2337.1	2338.7	2346.0	2342.0
5°	2357.3	2351.6	2350.8	2347.6	2346.8	2346.8	2352.5	2353.3	2354.1	2358.9	2354.1
7.5°	2383.9	2378.3	2376.7	2375.0	2374.2	2371.0	2375.0	2373.4	2375.0	2377.5	2371.8
10°	2425.9	2419.4	2417.8	2413.8	2416.2	2411.3	2414.6	2410.5	2403.3	2404.9	2396.8
12.5°	2483.1	2477.5	2479.9	2479.1	2488.8	2486.4	2479.9	2471.8	2459.7	2451.7	2442.8
15°	2567.9	2559.0	2565.4	2571.9	2581.6	2585.6	2580.8	2559.0	2541.2	2528.3	2521.1
17.5°	2671.1	2656.6	2669.5	2682.4	2703.4	2707.4	2689.7	2663.0	2643.7	2638.0	2625.9
20°	2791.3	2788.9	2789.7	2810.7	2842.9	2848.6	2825.2	2793.7	2774.4	2775.2	2761.5
22.5°	2936.5	2923.6	2927.7	2948.6	2994.6	3009.9	2971.2	2936.5	2924.4	2927.7	2926.0
25°	3102.7	3090.6	3085.0	3094.7	3154.3	3181.0	3143.9	3103.5	3097.9	3105.1	3093.8
27.5°	3285.0	3273.7	3267.3	3272.1	3318.9	3368.9	3327.8	3293.9	3293.1	3303.6	3297.1
30°	3492.4	3475.4	3468.2	3473.8	3506.1	3554.5	3521.4	3501.2	3518.2	3525.4	3523.0
32.5°	3702.1	3694.1	3691.6	3690.0	3729.6	3757.0	3740.8	3744.9	3758.6	3791.7	3781.2
35°	3940.9	3917.5	3924.0	3928.8	3980.5	3982.9	3984.5	3991.7	4028.0	4074.8	4047.4
37.5°	4189.4	4183.7	4187.8	4174.1	4212.0	4227.3	4249.9	4274.1	4331.4	4385.4	4374.1
40°	4496.8	4486.3	4490.3	4474.2	4492.7	4504.8	4550.8	4603.3	4676.7	4734.8	4708.1
42.5°	4904.2	4877.5	4877.5	4882.4	4921.1	4908.2	5006.6	5021.1	5112.3	5161.5	5146.2
45°	5383.4	5373.7	5322.9	5237.4	5188.9	5188.1	5267.2	5385.0	5535.8	5638.3	5637.5
47.5°	5992.5	5962.6	5840.8	5635.1	5512.4	5482.6	5565.7	5794.8	6072.3	6232.1	6229.6
50°	6791.1	6753.2	6568.5	6249.0	6010.2	5936.8	6069.9	6366.8	6740.3	6953.3	6971.0
52.5°	7685.0	7688.2	7479.3	6996.0	6642.7	6510.4	6651.6	7075.9	7541.4	7833.4	7868.1
55°	8723.3	8698.3	8500.6	7952.8	7466.4	7182.4	7396.2	7958.5	8493.3	8716.0	8777.3
57.5°	9804.3	9706.7	9555.0	9042.7	8474.0	8111.0	8367.5	8917.7	9430.0	9713.9	9704.3
60°	10762.7	10698.2	10611.0	10202.8	9766.4	9351.7	9549.4	10014.9	10453.7	10625.6	10632.8
62.5°	11809.9	11755.8	11677.5	11454.1	11213.7	11059.6	10880.5	11095.9	11438.8	11626.7	11688.0
65°	12837.6	12818.3	12863.5	12829.6	12931.2	12908.6	12479.4	12343.9	12349.6	12296.3	12268.9
67.5°	12777.1	12769.9	13036.1	13566.9	14580.2	14867.4	13766.2	12540.0	11987.3	11847.0	11826.8
70°	11845.4	11923.6	12416.5	13455.6	15304.6	15635.4	14127.6	11901.8	11195.1	10843.4	10756.3
72.5°	10052.8	10206.1	10962.0	12492.4	14702.8	14778.7	13219.2	10941.8	9901.1	9481.6	9419.5
75°	7756.8	7776.2	8549.8	10494.9	13121.6	13216.8	11792.1	9177.5	8153.7	7631.8	7615.6
77.5°	4724.3	4999.4	6128.0	7868.9	10431.1	10926.5	9862.4	7309.9	6092.5	5630.2	5372.1
80°	2317.8	2443.6	3256.8	4975.2	7455.9	8286.0	7318.7	5055.8	3757.8	3171.3	3106.8
82.5°	1055.2	1122.2	1540.9	2600.9	4499.2	5527.8	4516.9	2895.4	2006.4	1569.1	1554.6
85°	409.8	407.4	623.6	1091.5	2154.0	3060.8	2287.1	1381.1	918.1	682.5	643.8
87.5°	119.4	127.5	183.1	358.2	638.1	860.0	705.1	477.6	282.4	181.5	167.0
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)