

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: P510703

Luminaire Tested: **CTN-CA8-230-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-230-722-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31135 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

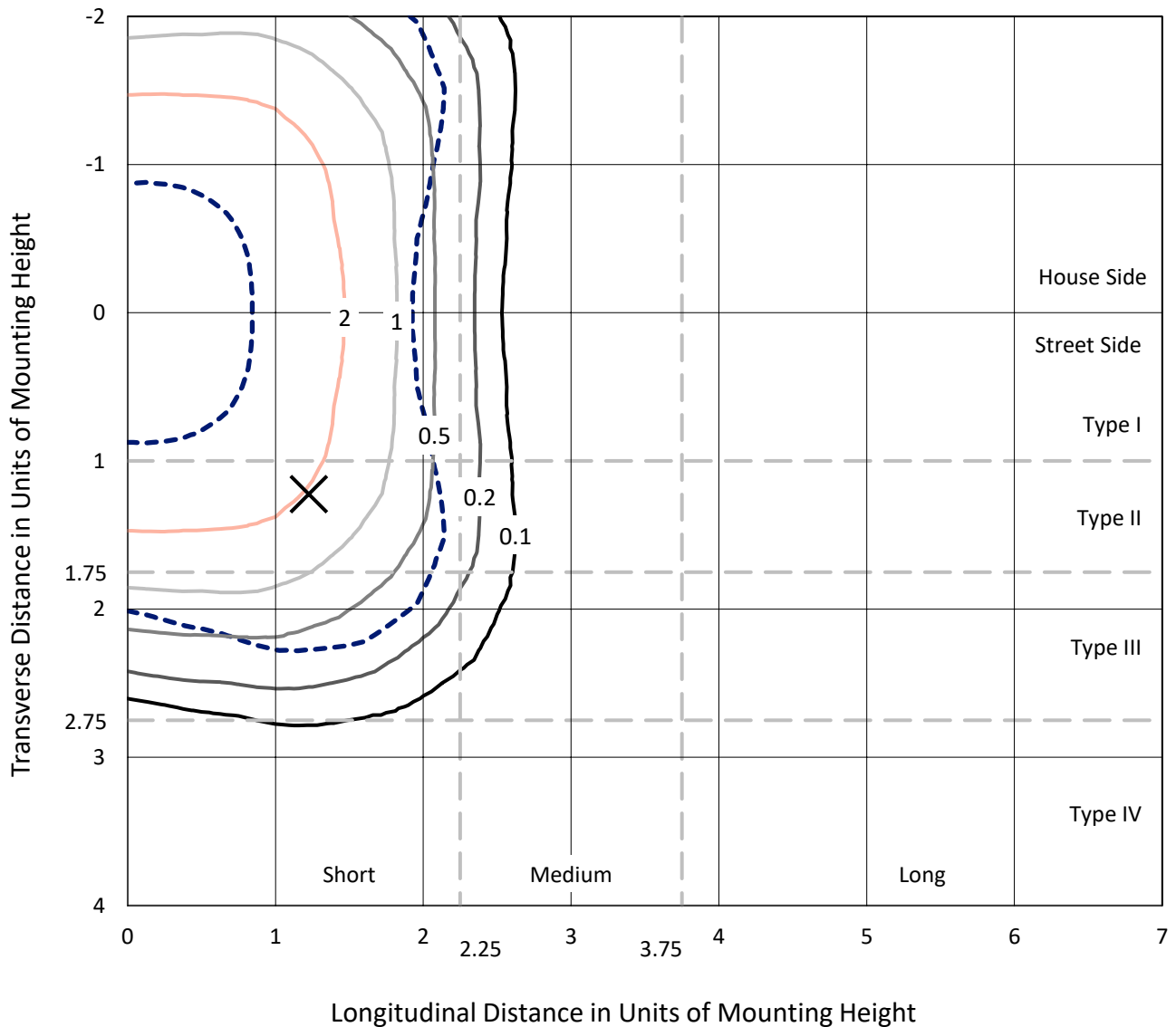
Input Watts (W): 228.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

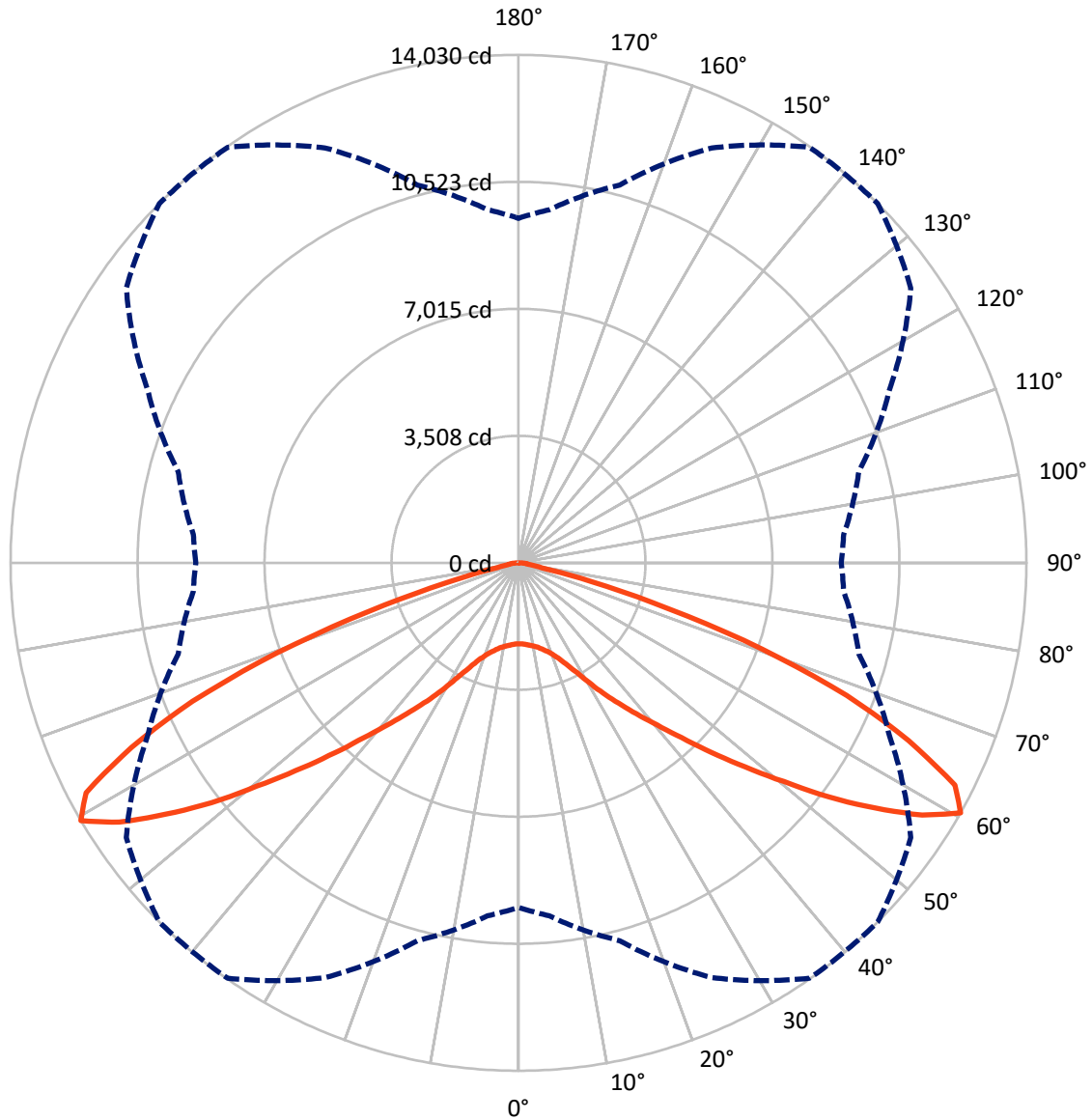
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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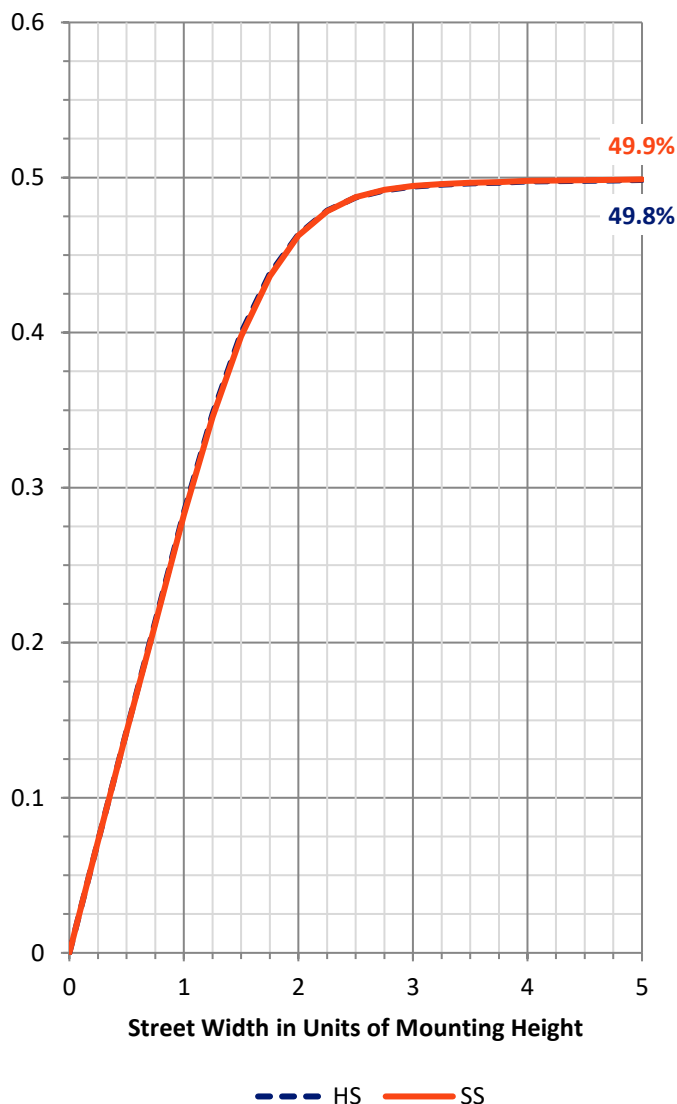
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15567.5	0.0	15567.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15567.5	0.0	15567.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31135.0	0.0	31135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	0.7
10°-20°	713.2	2.3
20°-30°	1514.9	4.9
30°-40°	3212.0	10.3
40°-50°	6108.4	19.6
50°-60°	9690.7	31.1
60°-70°	8191.2	26.3
70°-80°	1347.6	4.3
80°-90°	138.2	0.4
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°	31135.0	100.0
0°-180°	31135.0	100.0

Coefficient of Utilization



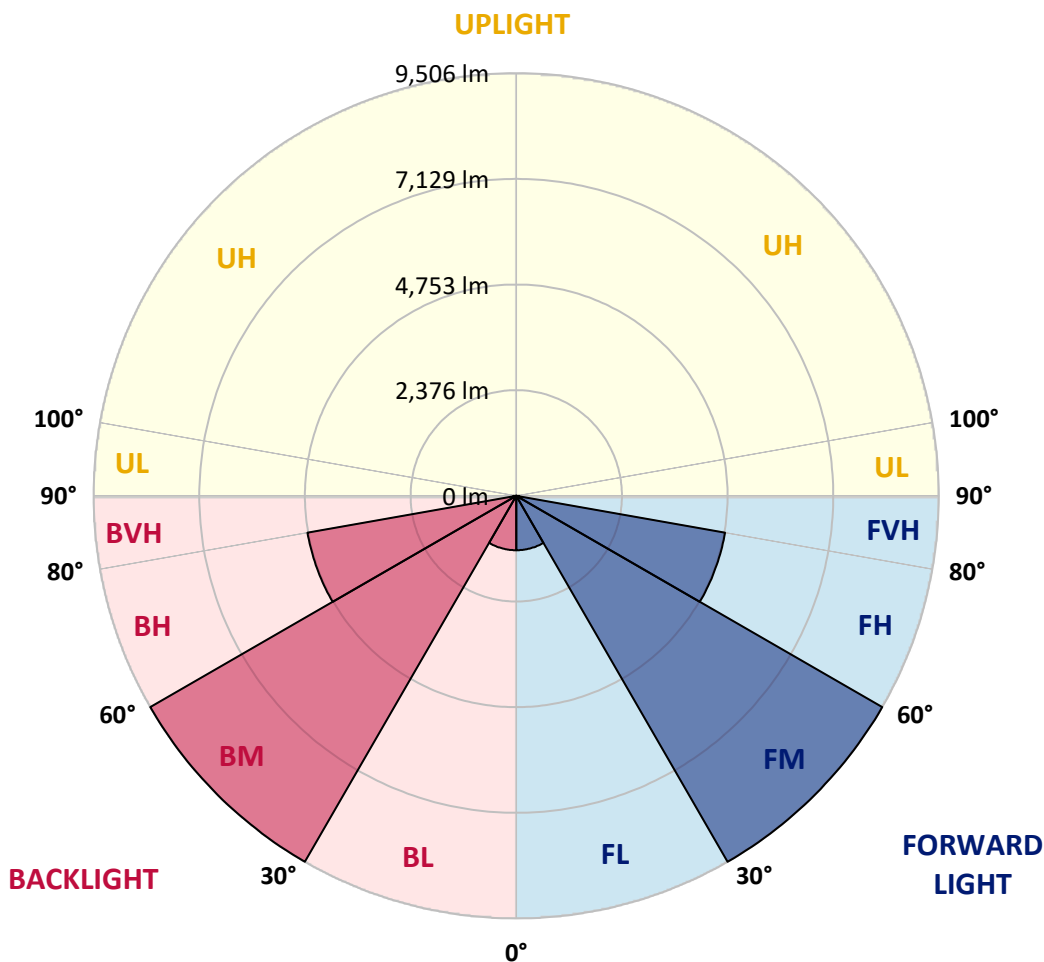
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.5	3.9			
FM (30°-60°)	9505.6	30.5			
FH (60°-80°)	4769.4	15.3			G2/5000
FVH (80°-90°)	69.1	0.2			G1/100
BL (0°-30°)	1223.5	3.9	B3/2500		
BM (30°-60°)	9505.6	30.5	B5		
BH (60°-80°)	4769.4	15.3	B4/5000		G2/5000
BVH (80°-90°)	69.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4	2235.4
2.5°	2251.5	2245.9	2244.2	2241.8	2243.0	2243.6	2246.8	2247.1	2247.1	2250.1	2255.0
5°	2276.8	2269.4	2266.8	2263.8	2265.3	2266.8	2269.7	2271.5	2271.2	2272.9	2277.3
7.5°	2304.0	2301.4	2298.2	2296.4	2296.4	2300.5	2298.5	2301.7	2301.4	2303.5	2306.1
10°	2344.5	2338.7	2338.4	2335.2	2336.6	2340.1	2340.7	2340.1	2340.7	2341.9	2348.1
12.5°	2395.9	2394.4	2395.3	2392.7	2391.8	2395.6	2396.5	2400.3	2401.5	2405.0	2408.8
15°	2478.6	2469.2	2468.1	2467.8	2469.5	2475.4	2477.2	2484.2	2487.4	2492.4	2500.9
17.5°	2572.2	2575.5	2569.6	2569.0	2568.7	2573.4	2578.1	2593.7	2598.7	2610.1	2617.4
20°	2721.6	2715.7	2712.2	2698.1	2694.6	2702.8	2719.8	2740.4	2750.1	2768.3	2782.1
22.5°	2921.1	2911.2	2887.1	2870.4	2863.3	2877.4	2895.9	2928.8	2967.8	2990.4	2996.6
25°	3209.6	3170.3	3140.3	3110.7	3100.1	3121.0	3150.9	3203.1	3252.1	3297.3	3318.2
27.5°	3560.8	3535.9	3476.3	3429.7	3411.2	3428.8	3491.0	3564.6	3654.4	3701.4	3708.4
30°	4006.8	3993.9	3917.9	3830.5	3797.6	3828.1	3901.5	4001.9	4126.9	4223.4	4240.4
32.5°	4559.1	4493.7	4388.0	4288.0	4252.7	4290.0	4363.7	4507.7	4676.2	4783.0	4819.4
35°	5192.3	5118.4	4959.6	4805.9	4760.4	4765.1	4883.0	5086.1	5316.4	5465.5	5506.3
37.5°	5890.7	5815.3	5628.1	5389.5	5284.2	5292.1	5446.4	5710.5	6026.3	6188.8	6242.8
40°	6636.0	6558.0	6364.9	6096.1	5923.0	5887.8	6094.0	6415.6	6736.4	6932.4	6953.2
42.5°	7364.6	7272.2	7117.0	6848.2	6690.3	6595.8	6844.9	7136.3	7459.7	7636.3	7650.1
45°	8015.5	7997.6	7872.8	7678.0	7548.0	7464.4	7642.2	7931.5	8157.5	8269.3	8310.1
47.5°	8644.6	8633.4	8593.5	8525.4	8557.7	8418.6	8504.0	8635.2	8759.3	8841.5	8873.2
50°	9195.9	9207.7	9286.0	9401.9	9635.5	9494.7	9468.0	9326.8	9330.3	9336.8	9369.7
52.5°	9651.3	9713.6	9910.7	10260.5	10764.9	10761.7	10357.6	9985.0	9816.6	9741.7	9748.5
55°	10048.4	10154.9	10480.6	11202.7	11924.6	11960.7	11411.1	10585.6	10269.9	10110.3	10131.1
57.5°	10267.6	10429.8	10981.2	12077.5	13106.2	13149.7	12537.6	11250.9	10527.8	10123.8	10141.1
60°	9515.2	9788.4	10804.8	12641.7	14010.0	14030.0	13226.3	11303.1	9730.3	9015.2	8910.4
62.5°	7786.6	8165.1	9599.1	12204.5	13591.3	13529.4	12795.2	10324.5	7993.2	7125.8	7037.7
65°	5849.0	6205.0	7706.5	10450.1	11925.5	11843.9	11096.2	8159.8	5860.2	4939.4	4831.1
67.5°	3165.6	3703.1	5108.1	7982.6	9506.7	9783.4	8747.6	5687.3	3410.3	2472.5	2377.4
70°	1093.3	1412.9	2604.5	5011.0	6857.0	7134.6	5965.2	3050.2	1492.4	933.1	837.8
72.5°	388.2	447.5	979.2	2420.0	3903.9	4325.5	3218.7	1226.8	475.7	346.5	339.5
75°	274.1	282.9	348.0	789.0	1690.2	2070.2	1269.1	407.3	296.7	277.3	275.5
77.5°	244.7	249.7	282.0	321.3	516.4	661.1	390.6	295.5	257.6	246.8	243.0
80°	232.7	236.5	245.9	263.5	292.8	304.6	263.5	252.6	234.5	229.8	228.3
82.5°	203.3	202.5	205.1	212.4	225.7	228.6	211.6	198.1	198.4	192.8	190.1
85°	137.6	145.8	139.7	132.0	163.7	164.6	153.5	115.0	130.6	127.9	117.1
87.5°	41.7	46.9	37.3	25.8	35.5	27.6	24.9	25.8	24.6	21.4	19.4
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)