

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: P510452

Luminaire Tested: **CTN-CA10-210-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510452
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-CA10-210-760-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35888 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

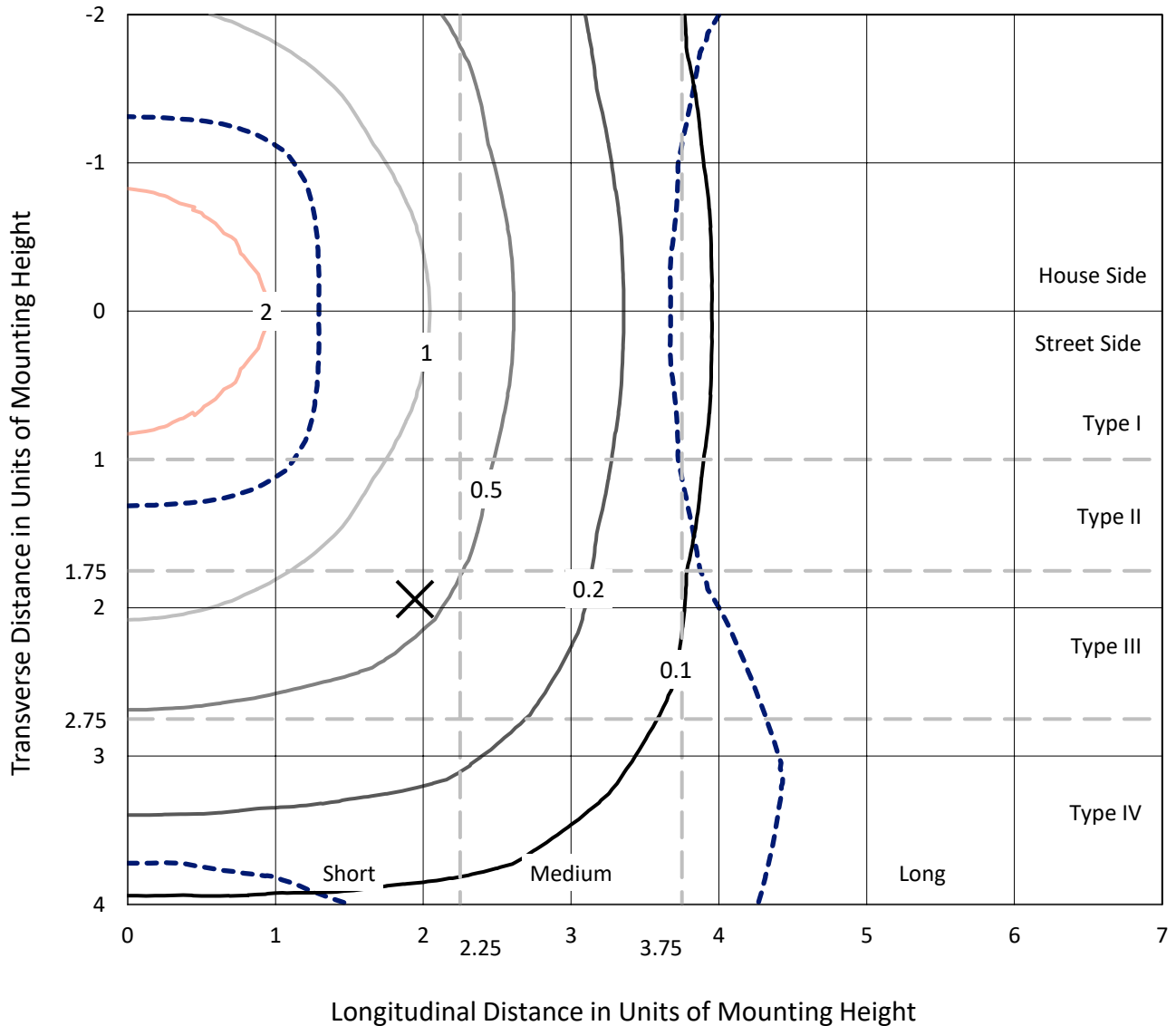
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

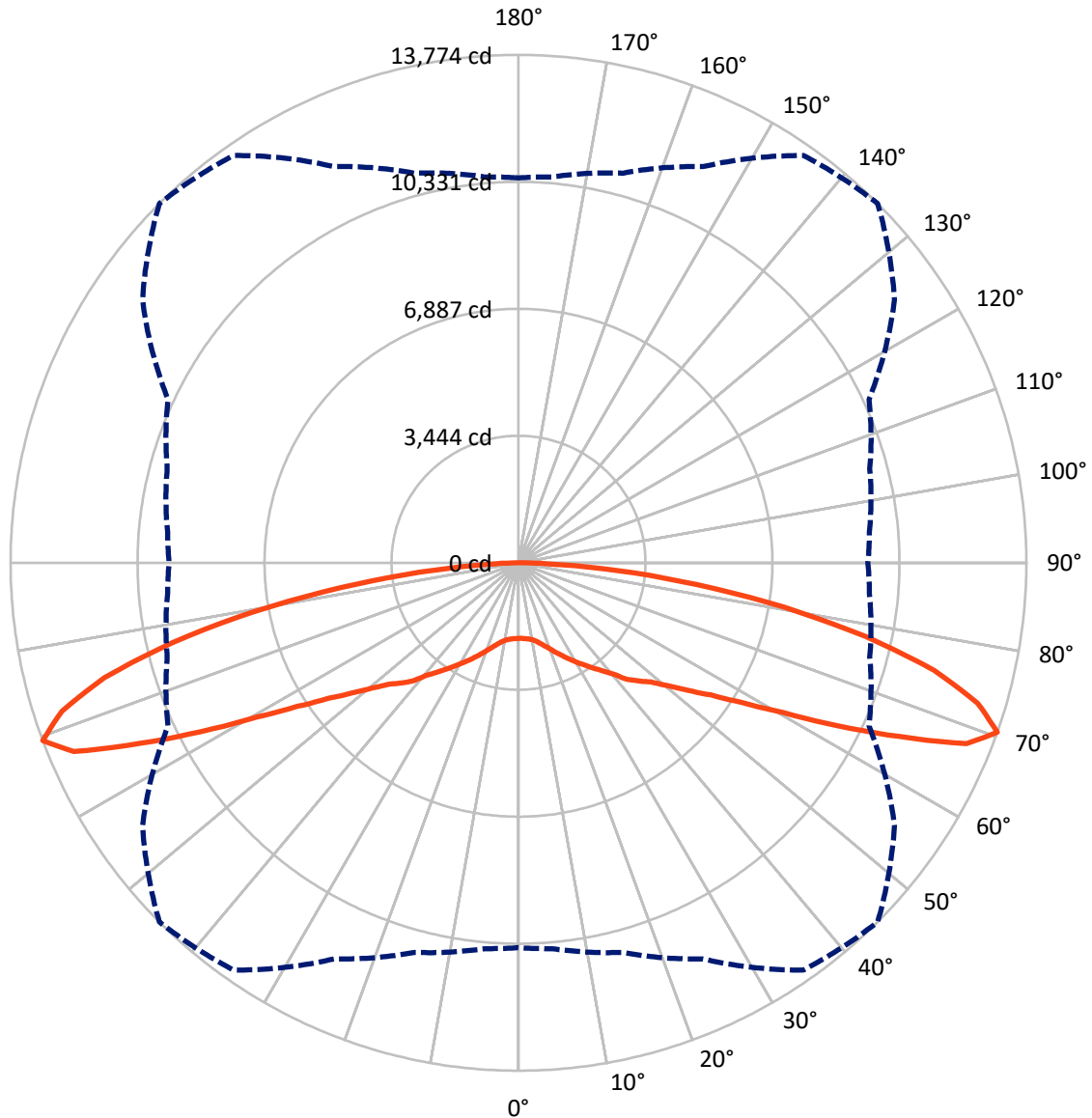
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 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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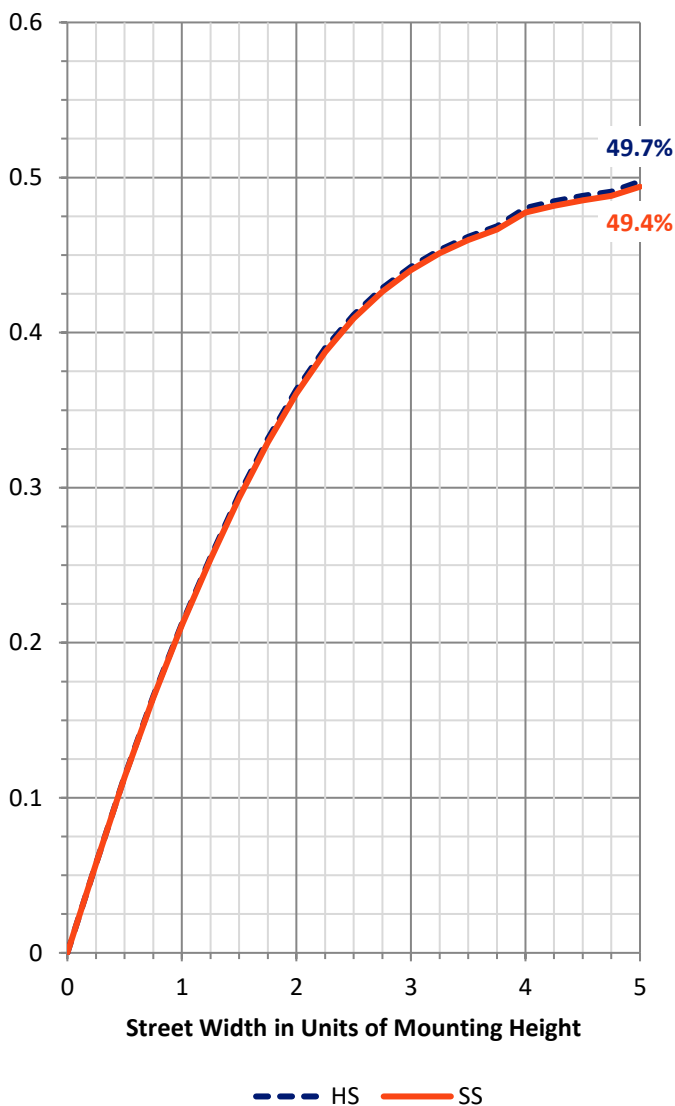
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17944.0	0.0	17944.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17944.0	0.0	17944.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35888.0	0.0	35888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	0.6
10°-20°	649.3	1.8
20°-30°	1285.4	3.6
30°-40°	2223.6	6.2
40°-50°	3699.7	10.3
50°-60°	6452.9	18.0
60°-70°	10682.4	29.8
70°-80°	8952.7	24.9
80°-90°	1742.8	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°	35888.0	100.0
0°-180°	35888.0	100.0

Coefficient of Utilization

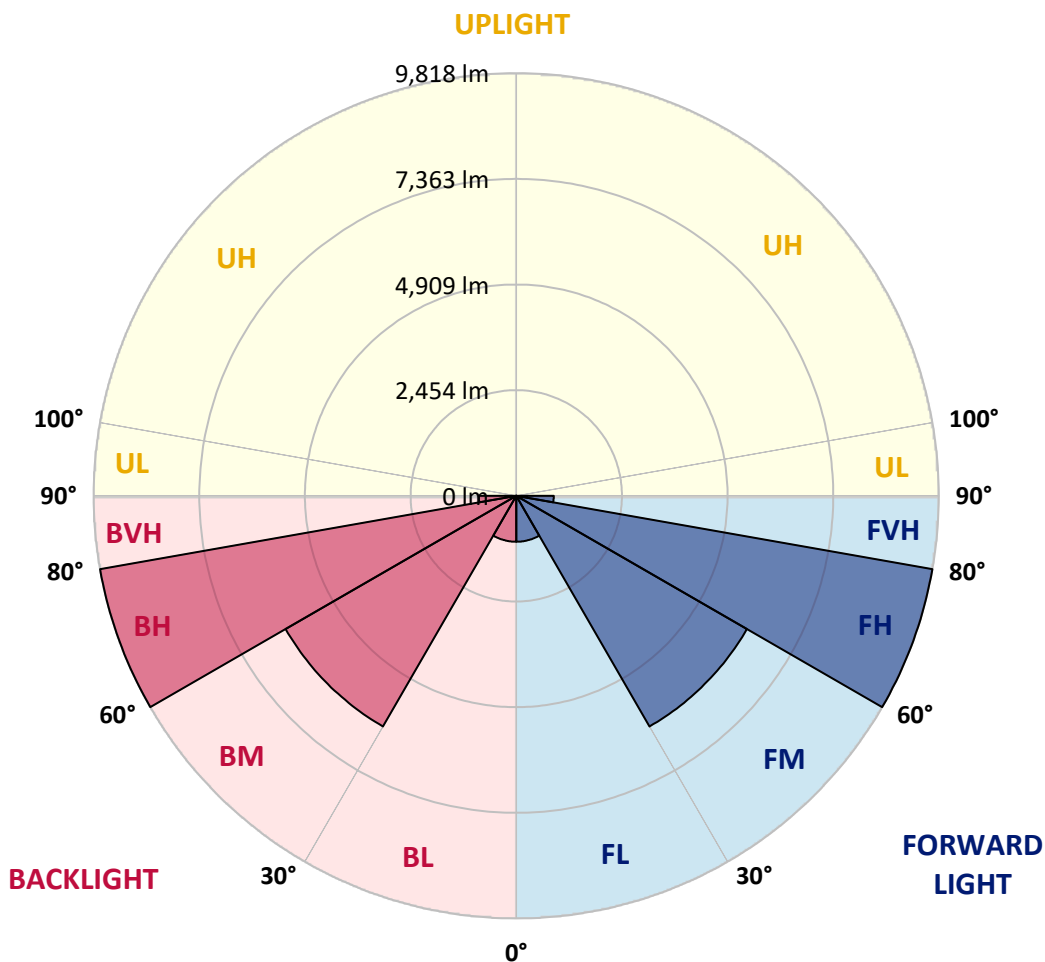


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.0	3.0			
FM (30°-60°)	6188.1	17.2			
FH (60°-80°)	9817.5	27.4			G4/12000
FVH (80°-90°)	871.4	2.4			G5
BL (0°-30°)	1067.0	3.0	B3/2500		
BM (30°-60°)	6188.1	17.2	B4/8500		
BH (60°-80°)	9817.5	27.4	B5		G4/12000
BVH (80°-90°)	871.4	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°	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1	2051.1
2.5°	2063.9	2057.5	2055.4	2053.2	2054.7	2054.0	2057.5	2058.9	2060.4	2066.7	2063.2
5°	2076.7	2071.7	2071.0	2068.2	2067.5	2067.5	2072.4	2073.1	2073.9	2078.1	2073.9
7.5°	2100.2	2095.2	2093.8	2092.3	2091.6	2088.8	2092.3	2090.9	2092.3	2094.5	2089.5
10°	2137.1	2131.4	2130.0	2126.4	2128.6	2124.3	2127.2	2123.6	2117.2	2118.6	2111.5
12.5°	2187.6	2182.6	2184.7	2184.0	2192.5	2190.4	2184.7	2177.6	2167.0	2159.9	2152.0
15°	2262.2	2254.4	2260.1	2265.7	2274.3	2277.8	2273.6	2254.4	2238.7	2227.4	2221.0
17.5°	2353.2	2340.4	2351.7	2363.1	2381.6	2385.1	2369.5	2346.1	2329.0	2324.0	2313.4
20°	2459.1	2456.9	2457.6	2476.1	2504.5	2509.5	2488.9	2461.2	2444.1	2444.8	2432.8
22.5°	2587.0	2575.6	2579.2	2597.7	2638.2	2651.7	2617.6	2587.0	2576.3	2579.2	2577.8
25°	2733.4	2722.7	2717.8	2726.3	2778.9	2802.3	2769.6	2734.1	2729.1	2735.5	2725.6
27.5°	2894.0	2884.1	2878.4	2882.6	2923.9	2967.9	2931.7	2901.8	2901.1	2910.4	2904.7
30°	3076.7	3061.7	3055.3	3060.3	3088.8	3131.4	3102.3	3084.5	3099.4	3105.8	3103.7
32.5°	3261.5	3254.3	3252.2	3250.8	3285.6	3309.8	3295.6	3299.1	3311.2	3340.3	3331.1
35°	3471.8	3451.2	3456.9	3461.2	3506.7	3508.8	3510.2	3516.6	3548.6	3589.8	3565.6
37.5°	3690.7	3685.7	3689.3	3677.2	3710.6	3724.1	3744.0	3765.3	3815.8	3863.4	3853.5
40°	3961.5	3952.3	3955.8	3941.6	3958.0	3968.6	4009.1	4055.3	4120.0	4171.2	4147.7
42.5°	4320.4	4297.0	4297.0	4301.2	4335.3	4324.0	4410.7	4423.5	4503.8	4547.1	4533.6
45°	4742.6	4734.0	4689.3	4613.9	4571.3	4570.6	4640.2	4744.0	4876.9	4967.2	4966.5
47.5°	5279.2	5252.9	5145.6	4964.3	4856.3	4830.0	4903.2	5105.0	5349.5	5490.2	5488.1
50°	5982.8	5949.4	5786.6	5505.2	5294.8	5230.1	5347.4	5608.9	5938.0	6125.6	6141.3
52.5°	6770.2	6773.1	6589.0	6163.3	5852.0	5735.4	5859.8	6233.7	6643.7	6901.0	6931.6
55°	7684.9	7662.9	7488.8	7006.2	6577.6	6327.5	6515.8	7011.2	7482.4	7678.5	7732.5
57.5°	8637.3	8551.3	8417.7	7966.4	7465.3	7145.5	7371.5	7856.2	8307.5	8557.7	8549.1
60°	9481.6	9424.7	9348.0	8988.4	8603.9	8238.6	8412.7	8822.8	9209.4	9360.8	9367.2
62.5°	10404.1	10356.5	10287.5	10090.7	9878.9	9743.1	9585.4	9775.1	10077.2	10242.8	10296.8
65°	11309.6	11292.5	11332.3	11302.4	11392.0	11372.1	10994.0	10874.6	10879.6	10832.7	10808.5
67.5°	11256.2	11249.9	11484.4	11952.0	12844.7	13097.7	12127.6	11047.3	10560.5	10436.8	10419.0
70°	10435.4	10504.3	10938.6	11854.0	13482.9	13774.3	12446.0	10485.1	9862.5	9552.7	9475.9
72.5°	8856.2	8991.2	9657.1	11005.4	12952.7	13019.5	11645.7	9639.4	8722.6	8353.0	8298.3
75°	6833.5	6850.5	7532.1	9245.6	11559.7	11643.6	10388.5	8085.1	7183.2	6723.3	6709.1
77.5°	4161.9	4404.3	5398.6	6932.3	9189.5	9625.9	8688.4	6439.8	5367.3	4960.1	4732.6
80°	2041.9	2152.7	2869.1	4383.0	6568.4	7299.7	6447.6	4454.0	3310.5	2793.8	2736.9
82.5°	929.6	988.6	1357.5	2291.3	3963.6	4869.8	3979.3	2550.7	1767.5	1382.3	1369.5
85°	361.0	358.9	549.4	961.6	1897.6	2696.4	2014.9	1216.7	808.8	601.3	567.1
87.5°	105.2	112.3	161.3	315.6	562.2	757.6	621.2	420.7	248.7	159.9	147.1
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)