

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: P510423

Luminaire Tested: **CTN-CA10-210-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510423
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-CA10-210-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36523 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

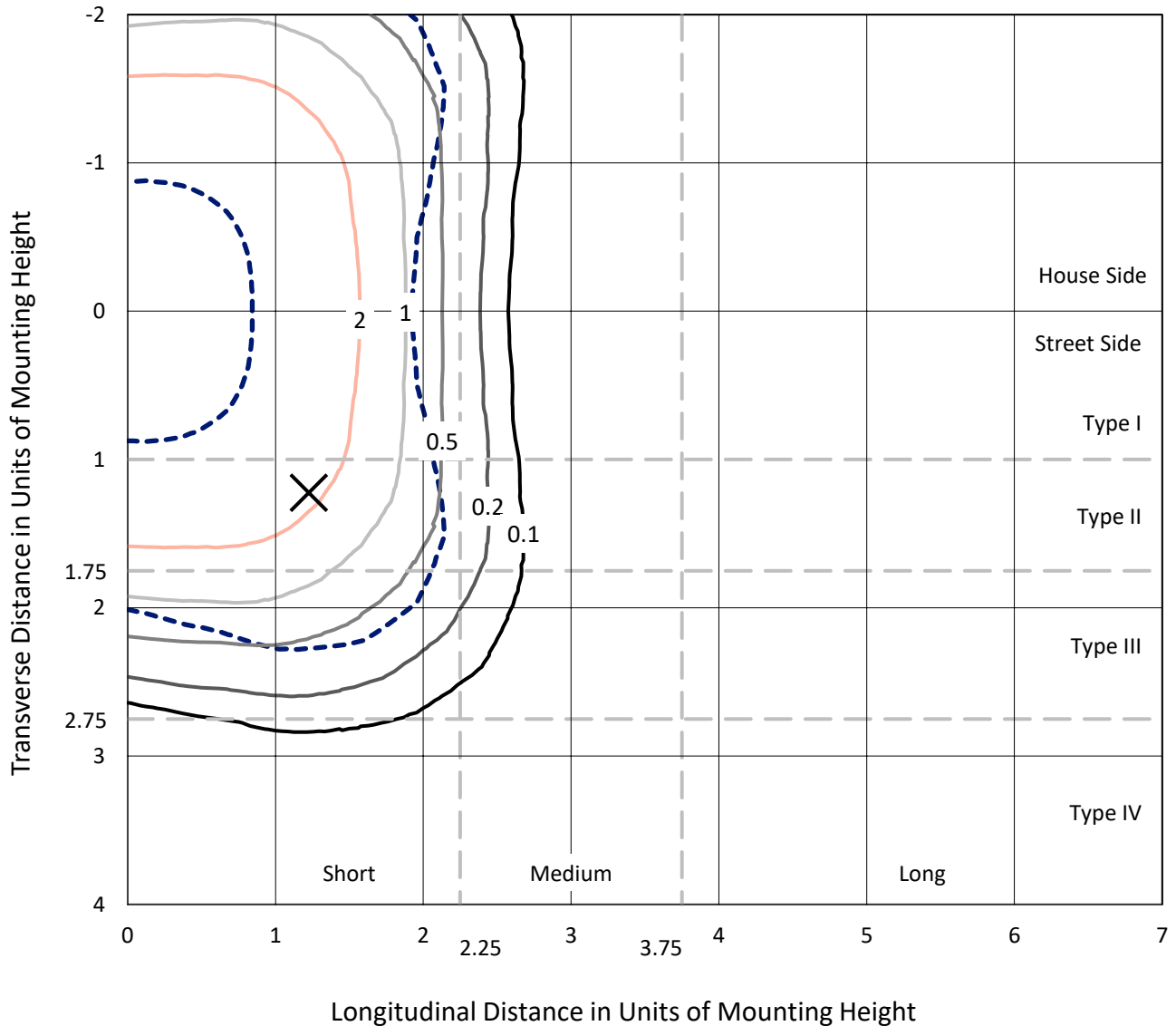
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

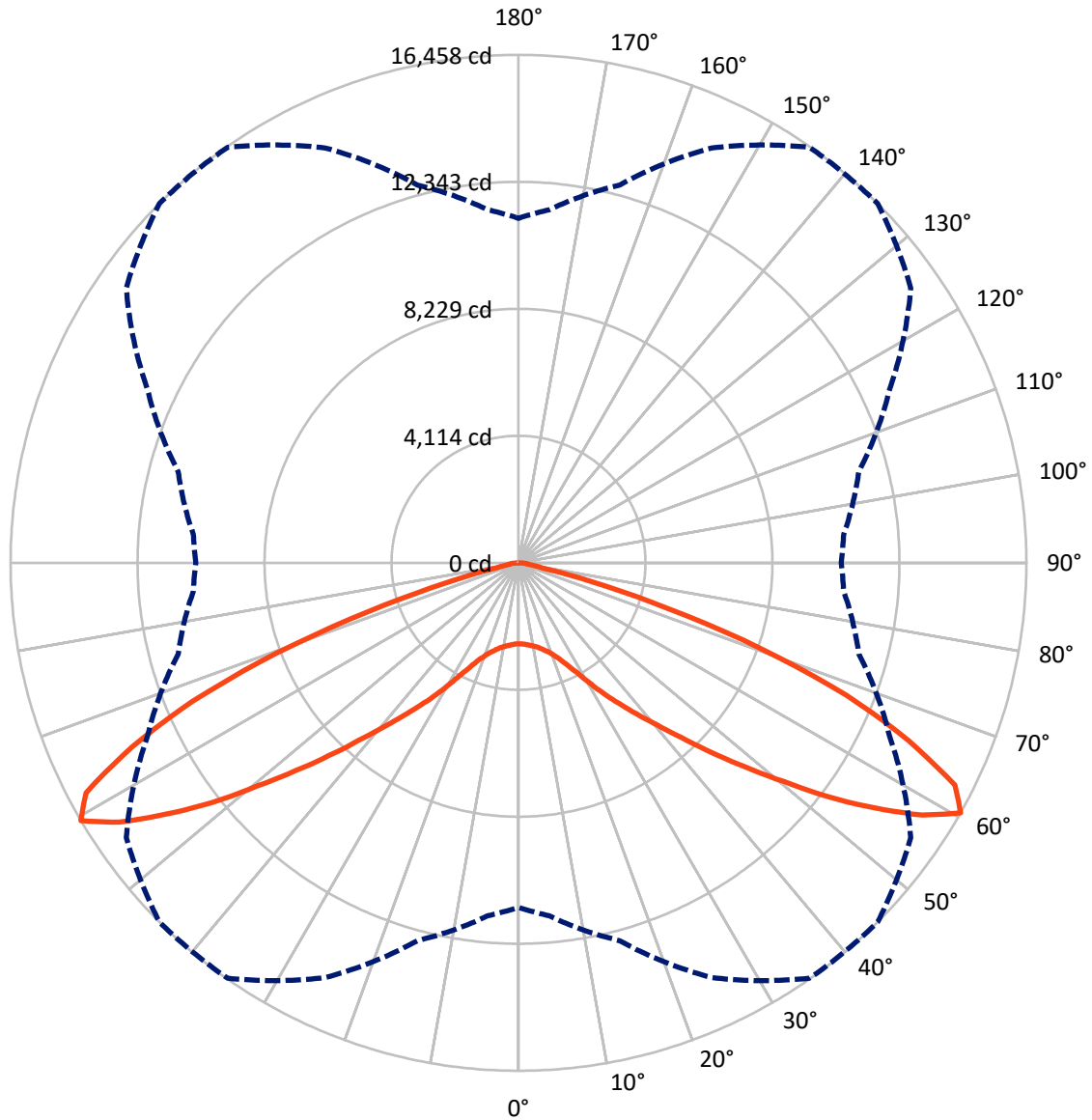
✕ Max cd
 - - - 1/2 Max cd



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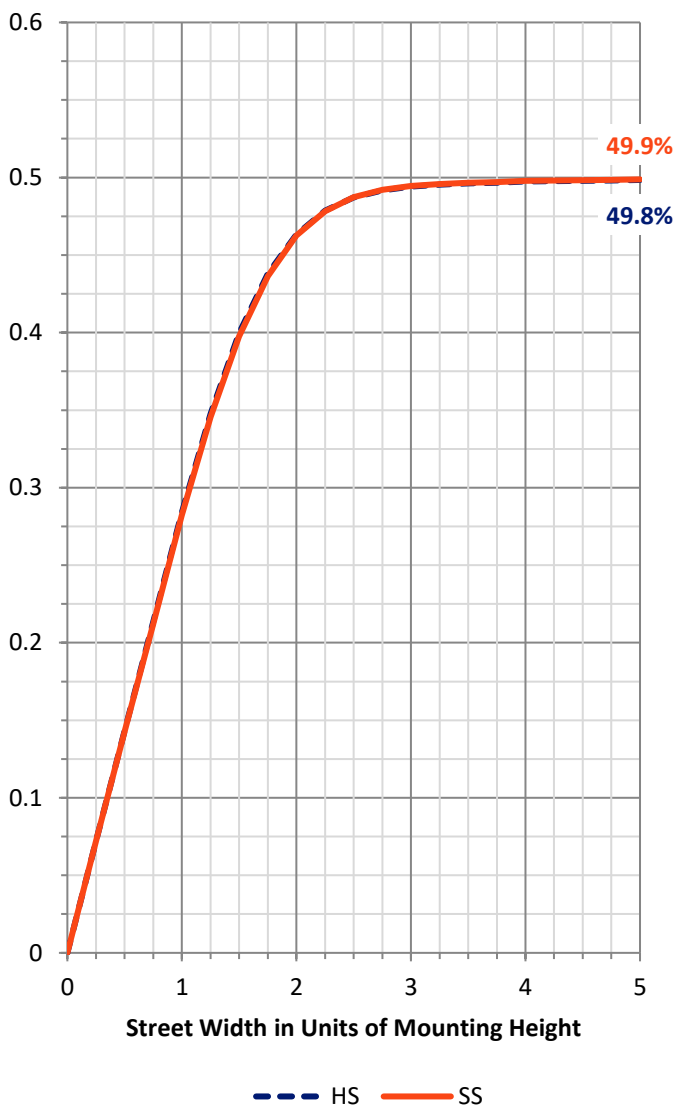
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18261.5	0.0	18261.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18261.5	0.0	18261.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36523.0	0.0	36523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	0.7
10°-20°	836.7	2.3
20°-30°	1777.0	4.9
30°-40°	3767.9	10.3
40°-50°	7165.5	19.6
50°-60°	11367.7	31.1
60°-70°	9608.7	26.3
70°-80°	1580.8	4.3
80°-90°	162.1	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°	36523.0	100.0
0°-180°	36523.0	100.0

Coefficient of Utilization



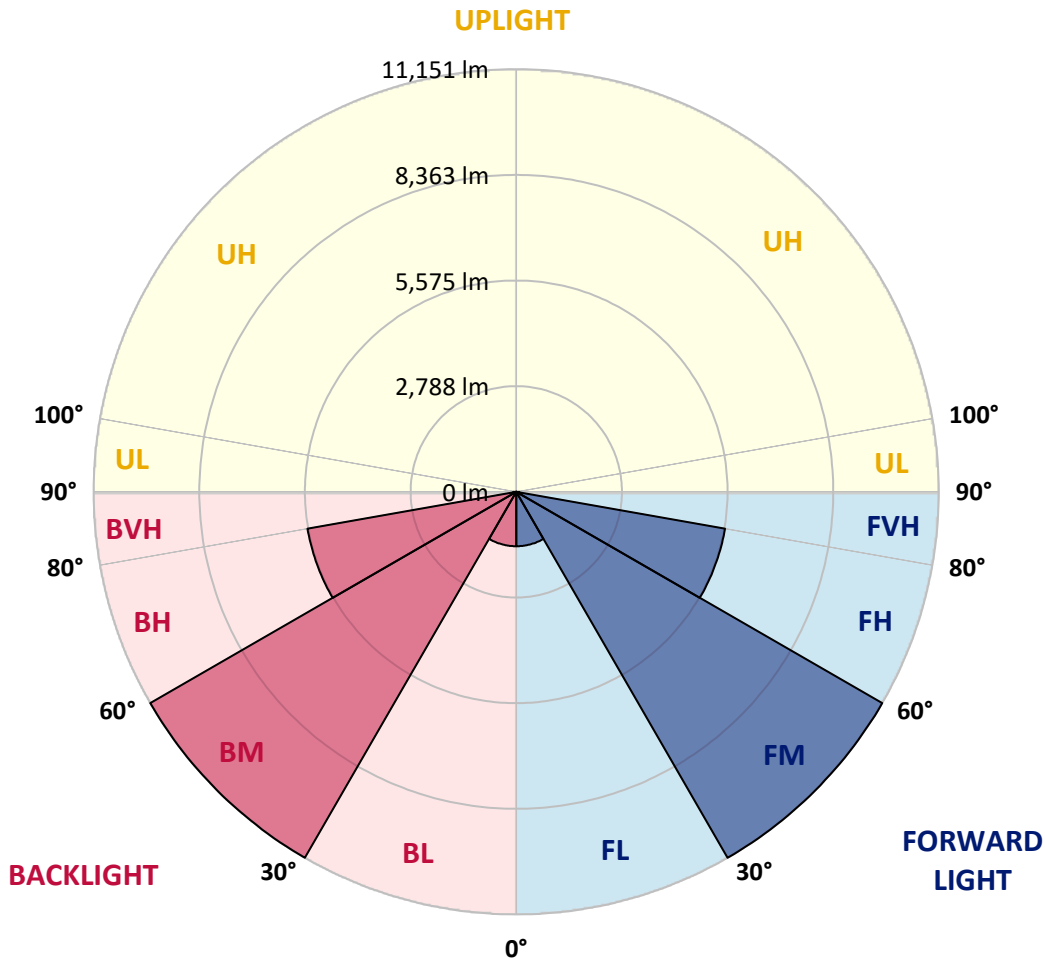
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.2	3.9			
FM (30°-60°)	11150.5	30.5			
FH (60°-80°)	5594.7	15.3			G3/7500
FVH (80°-90°)	81.0	0.2			G1/100
BL (0°-30°)	1435.2	3.9	B3/2500		
BM (30°-60°)	11150.5	30.5	B5		
BH (60°-80°)	5594.7	15.3	B5		G3/7500
BVH (80°-90°)	81.0	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2
2.5°	2641.2	2634.6	2632.5	2629.8	2631.2	2631.9	2635.6	2636.0	2636.0	2639.4	2645.3
5°	2670.8	2662.2	2659.1	2655.6	2657.3	2659.1	2662.5	2664.6	2664.2	2666.3	2671.4
7.5°	2702.8	2699.7	2695.9	2693.8	2693.8	2698.6	2696.2	2700.0	2699.7	2702.1	2705.2
10°	2750.3	2743.4	2743.0	2739.3	2741.0	2745.1	2745.8	2745.1	2745.8	2747.2	2754.4
12.5°	2810.5	2808.8	2809.8	2806.7	2805.7	2810.2	2811.2	2815.7	2817.0	2821.2	2825.7
15°	2907.6	2896.6	2895.2	2894.8	2896.9	2903.8	2905.9	2914.1	2917.9	2923.8	2933.7
17.5°	3017.4	3021.2	3014.3	3013.6	3013.2	3018.8	3024.3	3042.5	3048.4	3061.8	3070.4
20°	3192.6	3185.7	3181.6	3165.0	3160.9	3170.6	3190.5	3214.6	3226.0	3247.3	3263.5
22.5°	3426.6	3414.9	3386.7	3367.1	3358.8	3375.4	3397.0	3435.6	3481.4	3507.9	3515.1
25°	3765.0	3718.9	3683.8	3649.0	3636.6	3661.1	3696.2	3757.4	3814.9	3867.9	3892.4
27.5°	4177.0	4147.8	4077.9	4023.2	4001.5	4022.1	4095.1	4181.5	4286.8	4341.9	4350.2
30°	4700.2	4685.1	4595.9	4493.4	4454.8	4490.6	4576.7	4694.4	4841.0	4954.3	4974.2
32.5°	5348.1	5271.3	5147.4	5030.0	4988.7	5032.4	5118.8	5287.8	5485.4	5610.7	5653.4
35°	6090.9	6004.1	5817.9	5637.5	5584.2	5589.7	5728.1	5966.3	6236.5	6411.3	6459.2
37.5°	6910.1	6821.6	6602.0	6322.2	6198.6	6207.9	6389.0	6698.7	7069.1	7259.8	7323.2
40°	7784.4	7692.8	7466.3	7151.0	6948.0	6906.7	7148.6	7525.9	7902.1	8132.1	8156.5
42.5°	8639.1	8530.7	8348.6	8033.3	7848.1	7737.2	8029.5	8371.3	8750.6	8957.8	8974.0
45°	9402.5	9381.6	9235.3	9006.7	8854.2	8756.1	8964.7	9304.1	9569.1	9700.3	9748.1
47.5°	10140.5	10127.5	10080.6	10000.8	10038.7	9875.5	9975.7	10129.5	10275.1	10371.5	10408.7
50°	10787.3	10801.1	10893.0	11029.0	11303.0	11137.7	11106.4	10940.8	10945.0	10952.5	10991.1
52.5°	11321.5	11394.5	11625.8	12036.1	12627.8	12624.0	12150.1	11712.9	11515.3	11427.6	11435.5
55°	11787.3	11912.2	12294.3	13141.4	13988.2	14030.5	13385.8	12417.5	12047.1	11859.9	11884.3
57.5°	12044.4	12234.7	12881.5	14167.5	15374.3	15425.3	14707.2	13197.9	12349.7	11875.7	11896.0
60°	11161.8	11482.3	12674.6	14829.4	16434.5	16457.9	15515.1	13259.1	11414.1	10575.3	10452.4
62.5°	9134.1	9578.1	11260.3	14316.5	15943.3	15870.7	15009.4	12111.2	9376.4	8358.9	8255.6
65°	6861.2	7278.7	9040.1	12258.5	13989.2	13893.5	13016.5	9571.9	6874.3	5794.2	5667.1
67.5°	3713.4	4344.0	5992.1	9364.0	11151.8	11476.4	10261.4	6671.6	4000.5	2900.3	2788.8
70°	1282.5	1657.4	3055.2	5878.1	8043.6	8369.2	6997.5	3578.1	1750.7	1094.6	982.7
72.5°	455.4	524.9	1148.6	2838.7	4579.4	5074.1	3775.7	1439.2	558.0	406.5	398.3
75°	321.5	331.8	408.2	925.6	1982.7	2428.4	1488.7	477.8	348.0	325.3	323.2
77.5°	287.1	292.9	330.8	376.9	605.8	775.5	458.1	346.6	302.2	289.5	285.0
80°	273.0	277.4	288.5	309.1	343.5	357.3	309.1	296.4	275.0	269.5	267.8
82.5°	238.5	237.5	240.6	249.2	264.7	268.1	248.2	232.3	232.7	226.1	223.1
85°	161.4	171.1	163.8	154.9	192.1	193.1	180.0	134.9	153.2	150.1	137.3
87.5°	48.9	55.1	43.7	30.3	41.6	32.4	29.3	30.3	28.9	25.1	22.7
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)