

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: P510523

Luminaire Tested: **CTN-CA10-630-722-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510523
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-CA10-630-722-U-T5N
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: 80144 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

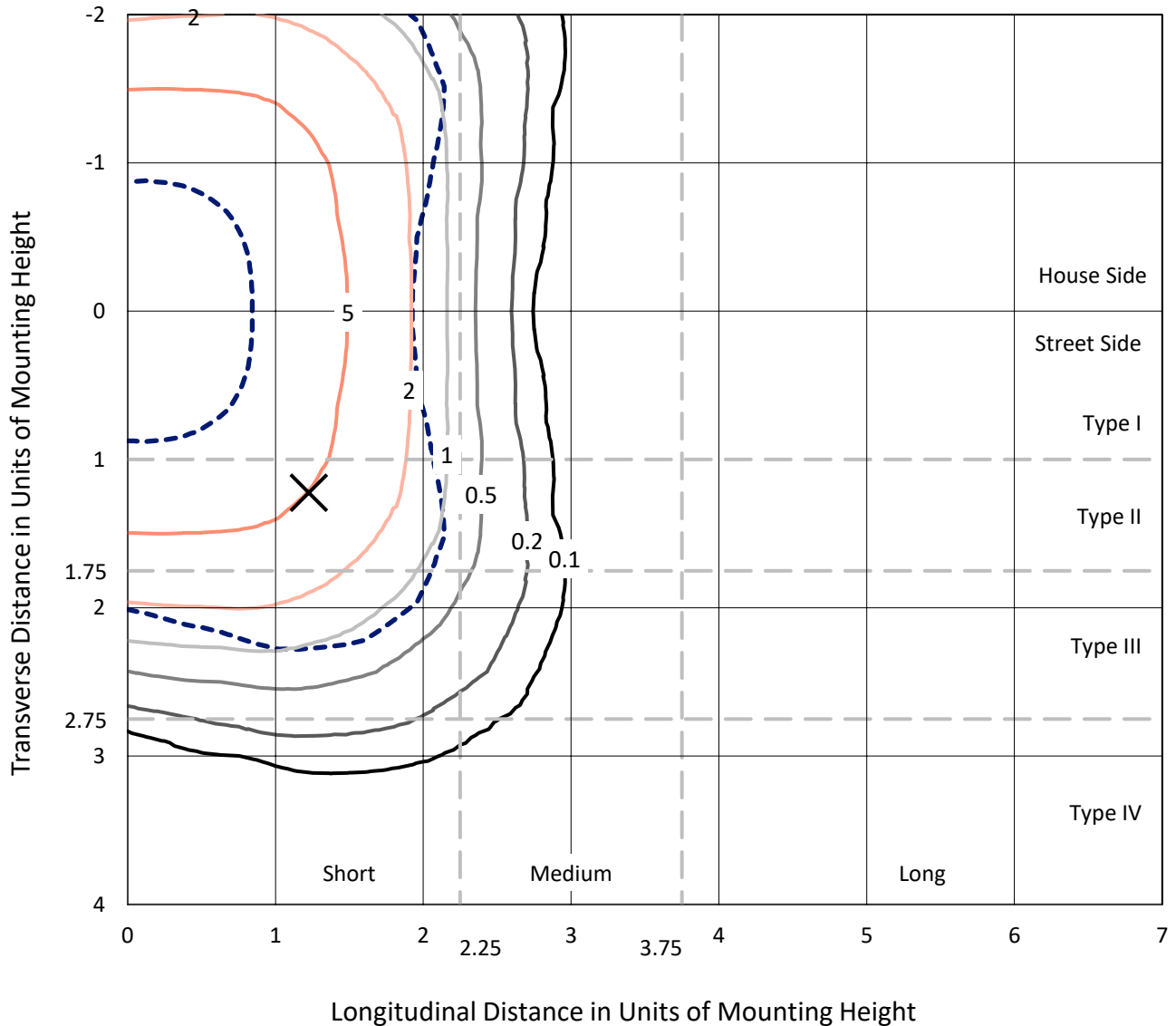
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

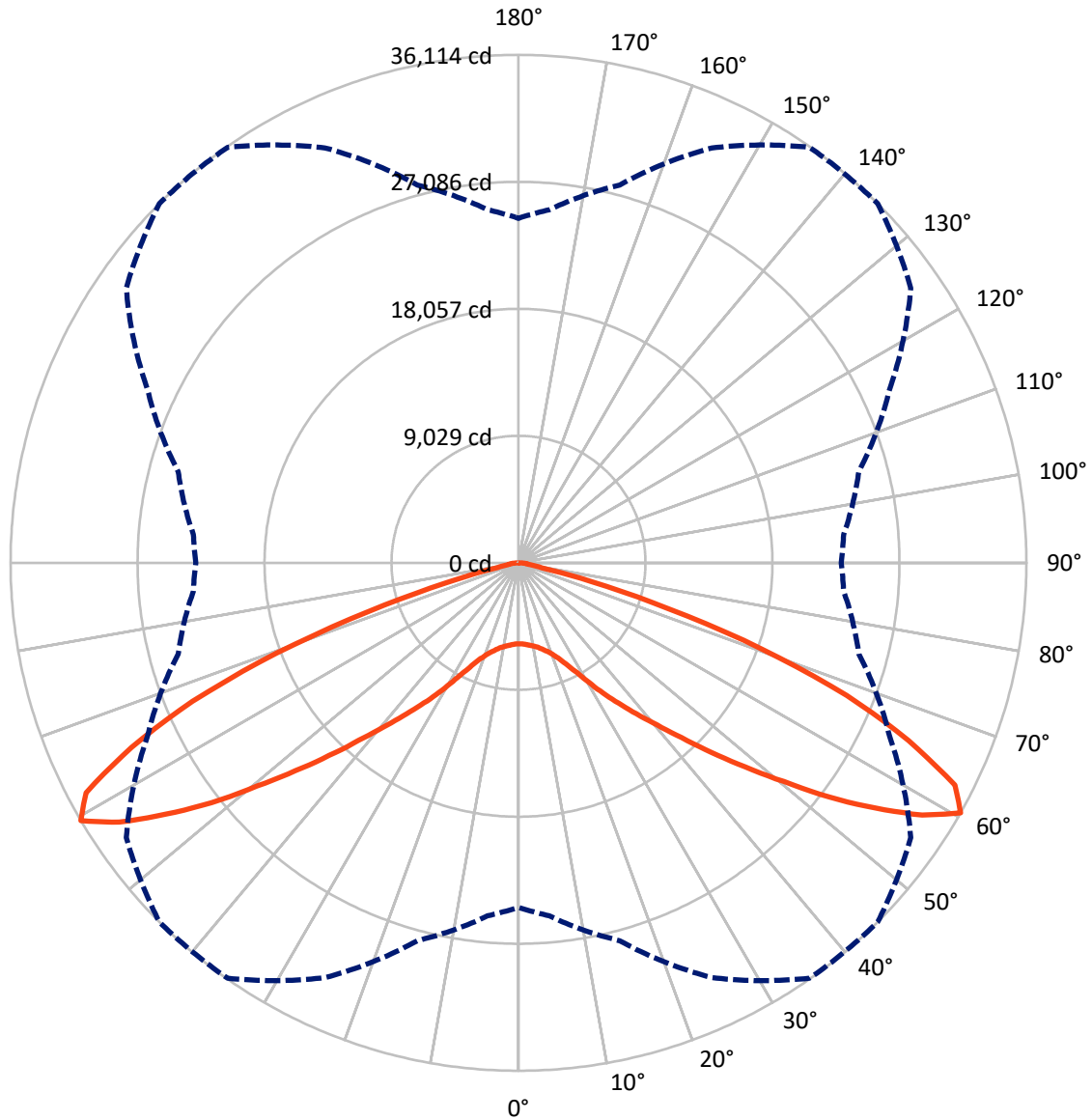
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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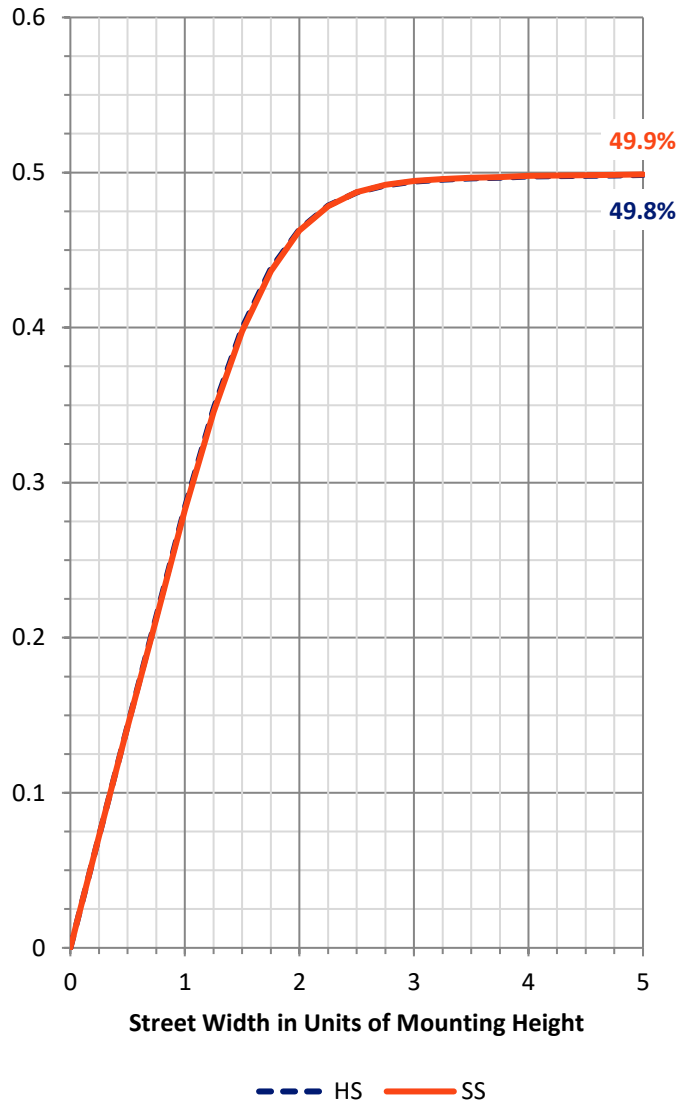
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40072.0	0.0	40072.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	40072.0	0.0	40072.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	80144.0	0.0	80144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.2	0.7
10°-20°	1836.0	2.3
20°-30°	3899.4	4.9
30°-40°	8268.1	10.3
40°-50°	15723.6	19.6
50°-60°	24944.6	31.1
60°-70°	21084.8	26.3
70°-80°	3468.8	4.3
80°-90°	355.7	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°	80144.0	100.0
0°-180°	80144.0	100.0

Coefficient of Utilization

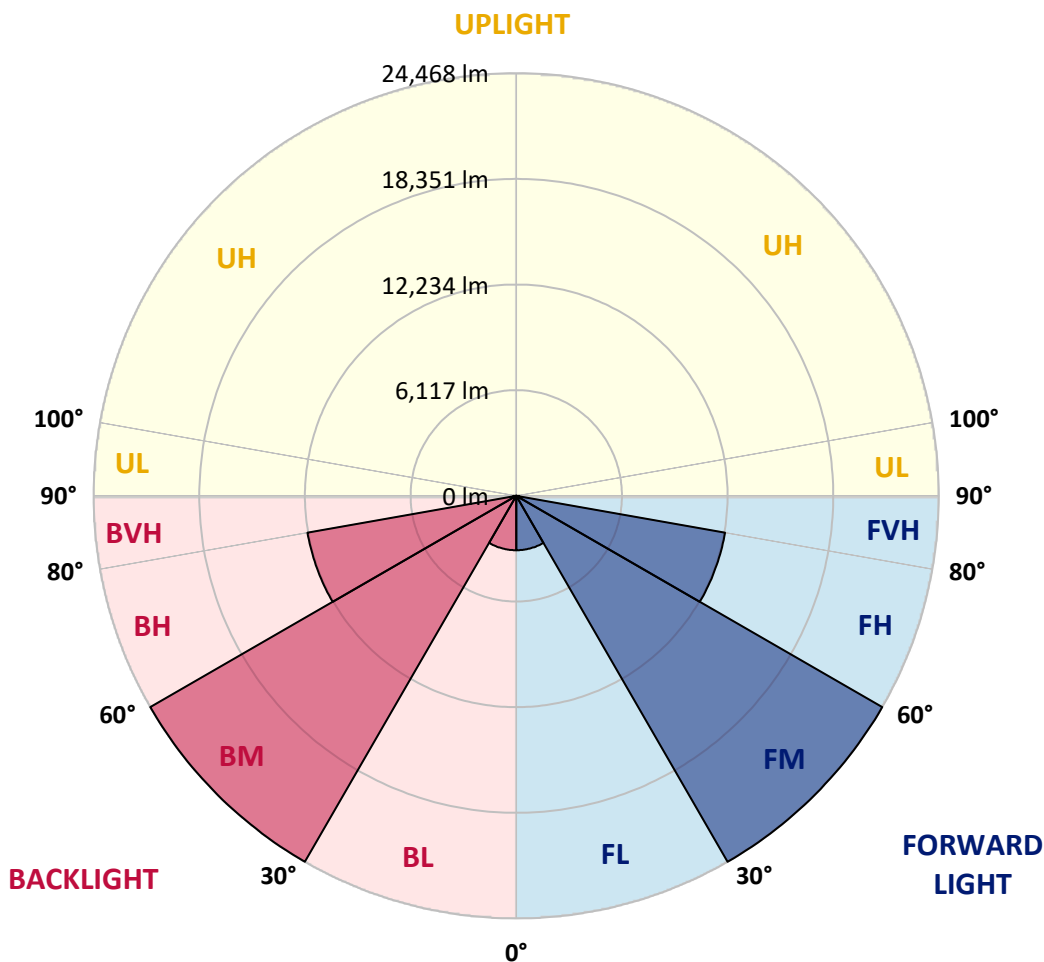


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3149.3	3.9			
FM (30°-60°)	24468.1	30.5			
FH (60°-80°)	12276.8	15.3			G5
FVH (80°-90°)	177.8	0.2			G2/225
BL (0°-30°)	3149.3	3.9	B4/5000		
BM (30°-60°)	24468.1	30.5	B5		
BH (60°-80°)	12276.8	15.3	B5		G5
BVH (80°-90°)	177.8	0.2			G2/225
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°	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1	5754.1
2.5°	5795.6	5781.2	5776.7	5770.7	5773.7	5775.2	5783.5	5784.3	5784.3	5791.8	5804.7
5°	5860.6	5841.7	5834.9	5827.3	5831.1	5834.9	5842.4	5847.0	5846.2	5850.7	5862.1
7.5°	5930.8	5924.0	5915.7	5911.2	5911.2	5921.7	5916.4	5924.8	5924.0	5929.3	5936.1
10°	6035.0	6019.9	6019.2	6010.9	6014.6	6023.7	6025.2	6023.7	6025.2	6028.2	6044.1
12.5°	6167.2	6163.4	6165.7	6158.9	6156.6	6166.5	6168.7	6178.5	6181.6	6190.6	6200.5
15°	6380.2	6356.0	6353.0	6352.3	6356.8	6371.9	6376.4	6394.6	6402.9	6415.7	6437.6
17.5°	6621.2	6629.5	6614.4	6612.9	6612.1	6624.2	6636.3	6676.3	6689.1	6718.6	6737.5
20°	7005.6	6990.5	6981.5	6945.2	6936.1	6957.3	7001.1	7054.0	7078.9	7125.7	7161.2
22.5°	7519.2	7493.6	7431.6	7388.6	7370.4	7406.7	7454.3	7538.9	7639.3	7697.5	7713.4
25°	8261.7	8160.5	8083.5	8007.2	7980.0	8033.6	8110.7	8245.1	8371.3	8487.6	8541.2
27.5°	9165.9	9101.6	8948.3	8828.2	8780.6	8826.0	8986.1	9175.7	9406.8	9527.7	9545.8
30°	10313.9	10280.7	10085.1	9860.0	9775.4	9854.0	10042.8	10301.1	10622.9	10871.4	10915.2
32.5°	11735.5	11567.0	11295.1	11037.5	10946.9	11042.8	11232.4	11603.3	12036.8	12311.8	12405.4
35°	13365.5	13175.1	12766.5	12370.7	12253.6	12265.7	12569.3	13092.0	13685.0	14068.7	14173.6
37.5°	15163.1	14969.0	14487.1	13873.0	13601.9	13622.3	14019.6	14699.4	15512.1	15930.5	16069.5
40°	17081.6	16880.7	16383.7	15691.8	15246.2	15155.6	15686.6	16514.4	17340.0	17844.5	17898.1
42.5°	18957.1	18719.2	18319.6	17627.7	17221.4	16978.2	17619.4	18369.5	19201.8	19656.5	19692.0
45°	20632.4	20586.3	20265.3	19763.8	19429.2	19213.9	19671.6	20416.4	20998.0	21285.8	21390.8
47.5°	22251.8	22223.1	22120.4	21945.2	22028.3	21670.2	21890.0	22227.7	22547.2	22758.7	22840.2
50°	23671.1	23701.3	23903.0	24201.3	24802.6	24440.0	24371.3	24008.0	24017.0	24033.6	24118.2
52.5°	24843.3	25003.5	25511.1	26411.4	27709.8	27701.5	26661.4	25702.2	25268.6	25076.0	25093.4
55°	25865.3	26139.5	26977.9	28836.7	30694.8	30787.7	29373.0	27248.3	26435.6	26024.7	26078.3
57.5°	26429.5	26847.2	28266.5	31088.4	33736.5	33848.3	32272.7	28960.6	27099.5	26059.4	26104.0
60°	24492.9	25196.1	27812.5	32540.8	36062.9	36114.3	34045.5	29095.1	25046.5	23205.8	22936.2
62.5°	20043.3	21017.6	24708.9	31415.4	34985.1	34825.7	32935.9	26576.1	20575.0	18342.3	18115.7
65°	15055.9	15972.1	19837.1	26899.3	30697.1	30487.1	28562.6	21004.0	15084.6	12714.4	12435.6
67.5°	8148.4	9532.2	13148.7	20547.8	24471.0	25183.2	22517.0	14639.7	8778.4	6364.4	6119.6
70°	2814.3	3636.9	6704.3	12898.7	17650.4	18364.9	15355.0	7851.6	3841.6	2401.9	2156.4
72.5°	999.3	1151.9	2520.5	6229.2	10048.8	11134.2	8285.1	3158.0	1224.4	892.0	873.9
75°	705.5	728.1	895.8	2031.1	4350.7	5328.8	3266.8	1048.4	763.6	713.8	709.2
77.5°	629.9	642.8	725.9	827.1	1329.4	1701.7	1005.3	760.6	663.2	635.2	625.4
80°	599.0	608.8	633.0	678.3	753.8	784.0	678.3	650.3	603.5	591.4	587.6
82.5°	523.4	521.2	528.0	546.9	580.8	588.4	544.6	509.8	510.6	496.2	489.4
85°	354.2	375.4	359.5	339.9	421.5	423.7	395.0	296.1	336.1	329.3	301.4
87.5°	107.3	120.9	95.9	66.5	91.4	71.0	64.2	66.5	63.4	55.1	49.9
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)