

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: P510582

Luminaire Tested: **CTN-CA10-760-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510582
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-CA10-760-722-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: 89566 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

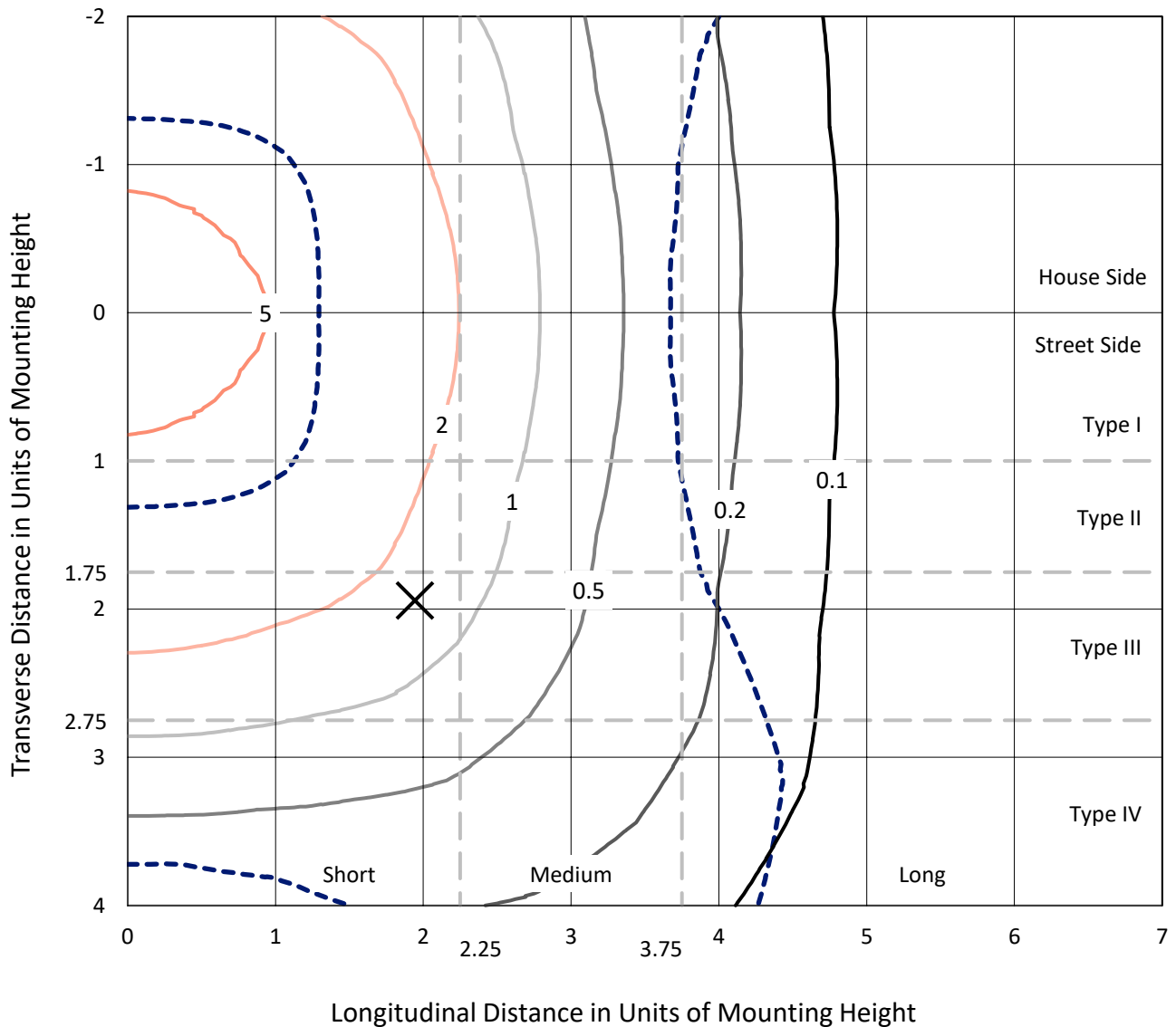
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

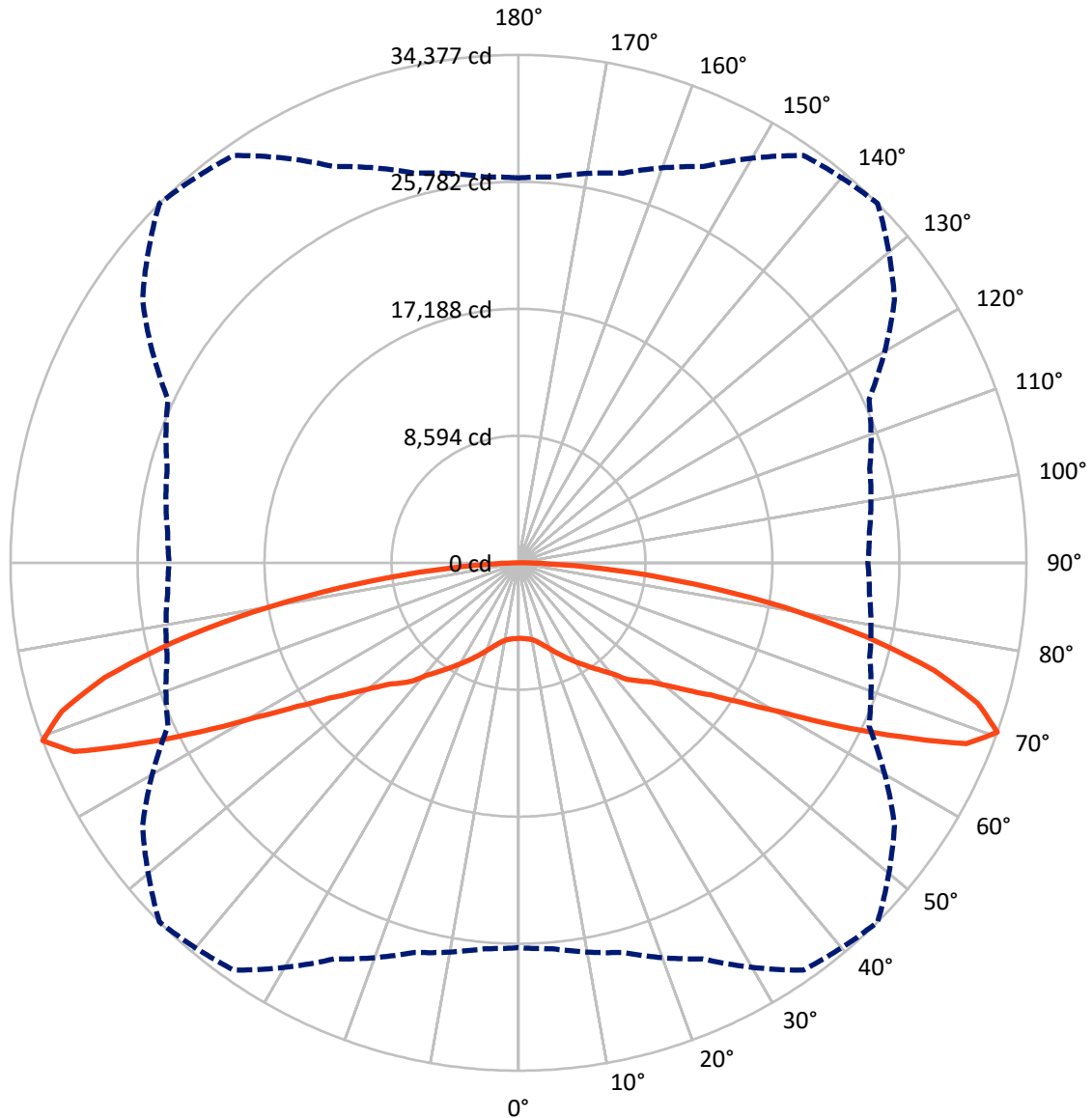
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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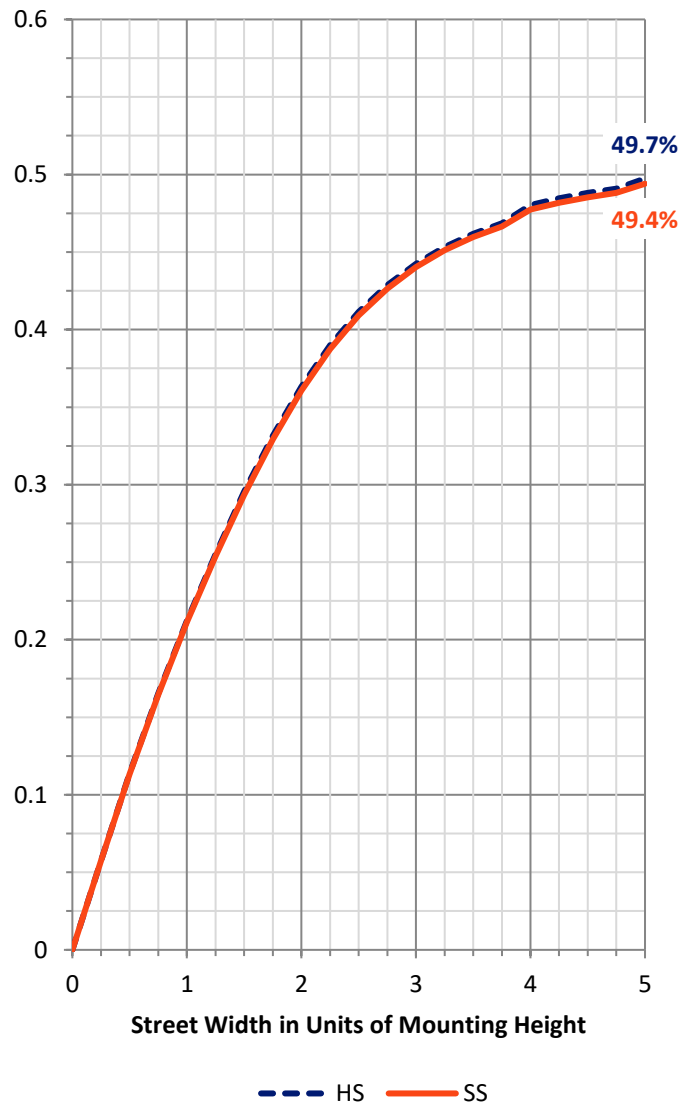
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44783.0	0.0	44783.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	44783.0	0.0	44783.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	89566.0	0.0	89566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.6	0.6
10°-20°	1620.5	1.8
20°-30°	3207.9	3.6
30°-40°	5549.4	6.2
40°-50°	9233.3	10.3
50°-60°	16104.4	18.0
60°-70°	26660.1	29.8
70°-80°	22343.3	24.9
80°-90°	4349.5	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°	89566.0	100.0
0°-180°	89566.0	100.0

Coefficient of Utilization

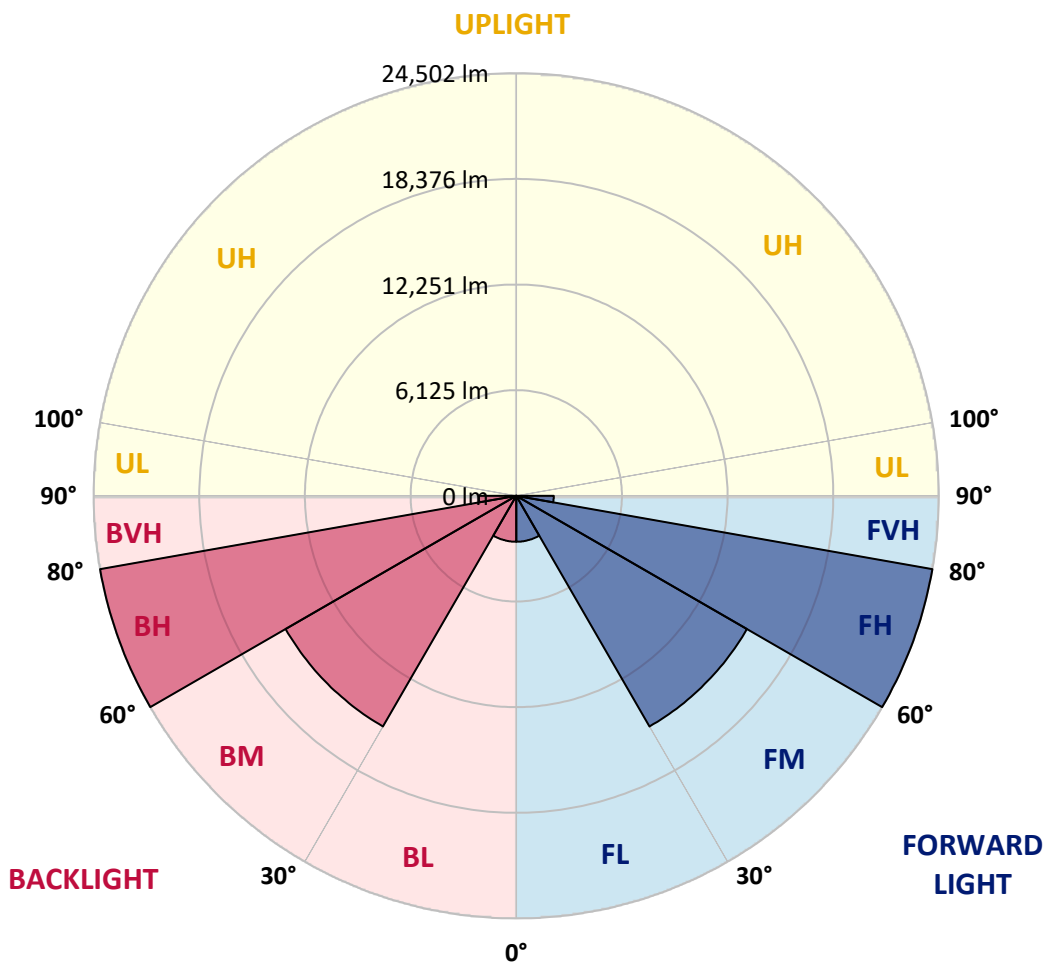


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.0	3.0			
FM (30°-60°)	15443.6	17.2			
FH (60°-80°)	24501.7	27.4			G5
FVH (80°-90°)	2174.7	2.4			G5
BL (0°-30°)	2663.0	3.0	B4/5000		
BM (30°-60°)	15443.6	17.2	B5		
BH (60°-80°)	24501.7	27.4	B5		G5
BVH (80°-90°)	2174.7	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°	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0	5119.0
2.5°	5150.9	5134.9	5129.6	5124.3	5127.9	5126.1	5134.9	5138.5	5142.0	5158.0	5149.1
5°	5182.8	5170.4	5168.6	5161.6	5159.8	5159.8	5172.2	5174.0	5175.7	5186.4	5175.7
7.5°	5241.4	5229.0	5225.4	5221.9	5220.1	5213.0	5221.9	5218.3	5221.9	5227.2	5214.8
10°	5333.6	5319.4	5315.9	5307.0	5312.3	5301.7	5308.8	5299.9	5283.9	5287.5	5269.7
12.5°	5459.5	5447.1	5452.4	5450.7	5472.0	5466.6	5452.4	5434.7	5408.1	5390.4	5370.9
15°	5645.8	5626.3	5640.5	5654.6	5675.9	5684.8	5674.2	5626.3	5587.2	5558.9	5542.9
17.5°	5872.8	5840.9	5869.3	5897.6	5943.8	5952.6	5913.6	5855.1	5812.5	5800.1	5773.5
20°	6137.1	6131.8	6133.6	6179.7	6250.6	6263.0	6211.6	6142.4	6099.9	6101.6	6071.5
22.5°	6456.4	6428.0	6436.9	6483.0	6584.1	6617.8	6532.6	6456.4	6429.8	6436.9	6433.3
25°	6821.8	6795.2	6782.7	6804.0	6935.3	6993.8	6912.2	6823.5	6811.1	6827.1	6802.3
27.5°	7222.6	7197.8	7183.6	7194.2	7297.1	7407.1	7316.6	7242.1	7240.4	7263.4	7249.2
30°	7678.5	7641.2	7625.3	7637.7	7708.6	7815.0	7742.3	7698.0	7735.2	7751.2	7745.9
32.5°	8139.6	8121.9	8116.6	8113.0	8199.9	8260.3	8224.8	8233.6	8263.8	8336.5	8313.5
35°	8664.7	8613.2	8627.4	8638.1	8751.6	8756.9	8760.4	8776.4	8856.2	8959.1	8898.8
37.5°	9211.0	9198.6	9207.4	9177.3	9260.6	9294.3	9344.0	9397.2	9523.2	9642.0	9617.2
40°	9886.8	9863.7	9872.6	9837.1	9877.9	9904.5	10005.6	10120.9	10282.3	10410.0	10351.5
42.5°	10782.5	10724.0	10724.0	10734.6	10819.7	10791.4	11007.8	11039.7	11240.1	11348.3	11314.6
45°	11836.1	11814.8	11703.1	11515.0	11408.6	11406.9	11580.7	11839.6	12171.3	12396.6	12394.8
47.5°	13175.3	13109.6	12841.8	12389.5	12119.9	12054.3	12237.0	12740.7	13350.9	13702.1	13696.7
50°	14931.2	14847.9	14441.7	13739.3	13214.3	13052.9	13345.5	13998.3	14819.5	15287.8	15326.8
52.5°	16896.5	16903.6	16444.2	15381.8	14604.9	14314.0	14624.4	15557.4	16580.8	17222.9	17299.2
55°	19179.3	19124.3	18689.8	17485.4	16415.9	15791.5	16261.5	17497.8	18673.8	19163.4	19298.2
57.5°	21556.1	21341.5	21008.0	19881.7	18631.2	17833.1	18397.1	19606.8	20733.1	21357.5	21336.2
60°	23663.3	23521.4	23329.9	22432.3	21472.8	20561.1	20995.6	22019.1	22984.0	23361.8	23377.7
62.5°	25965.6	25846.8	25674.7	25183.4	24654.8	24316.0	23922.3	24395.9	25149.7	25563.0	25697.8
65°	28225.3	28182.8	28282.1	28207.6	28431.1	28381.4	27437.8	27139.8	27152.2	27035.2	26974.9
67.5°	28092.3	28076.4	28661.7	29828.8	32056.6	32688.0	30266.9	27570.8	26355.8	26047.2	26002.9
70°	26043.7	26215.7	27299.5	29584.0	33649.4	34376.6	31061.5	26167.8	24614.0	23840.7	23649.1
72.5°	22102.4	22439.4	24101.4	27466.2	32326.2	32492.9	29064.3	24057.1	21769.0	20846.6	20710.1
75°	17054.4	17097.0	18798.0	23074.4	28849.7	29059.0	25926.6	20177.9	17927.1	16779.5	16744.0
77.5°	10387.0	10991.8	13473.2	17301.0	22934.3	24023.4	21683.8	16071.8	13395.2	12378.9	11811.3
80°	5095.9	5372.6	7160.5	10938.6	16392.8	18218.0	16091.3	11116.0	8262.0	6972.5	6830.6
82.5°	2320.0	2467.3	3387.8	5718.5	9892.1	12153.6	9931.1	6365.9	4411.3	3449.9	3418.0
85°	901.1	895.7	1371.1	2399.9	4735.9	6729.5	5028.5	3036.6	2018.5	1500.6	1415.4
87.5°	262.5	280.2	402.6	787.5	1403.0	1890.8	1550.2	1050.0	620.8	399.1	367.2
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)