

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: P510843

Luminaire Tested: **CTN-CA8-480-730-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510843
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-CA8-480-730-U-T5N
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74369 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

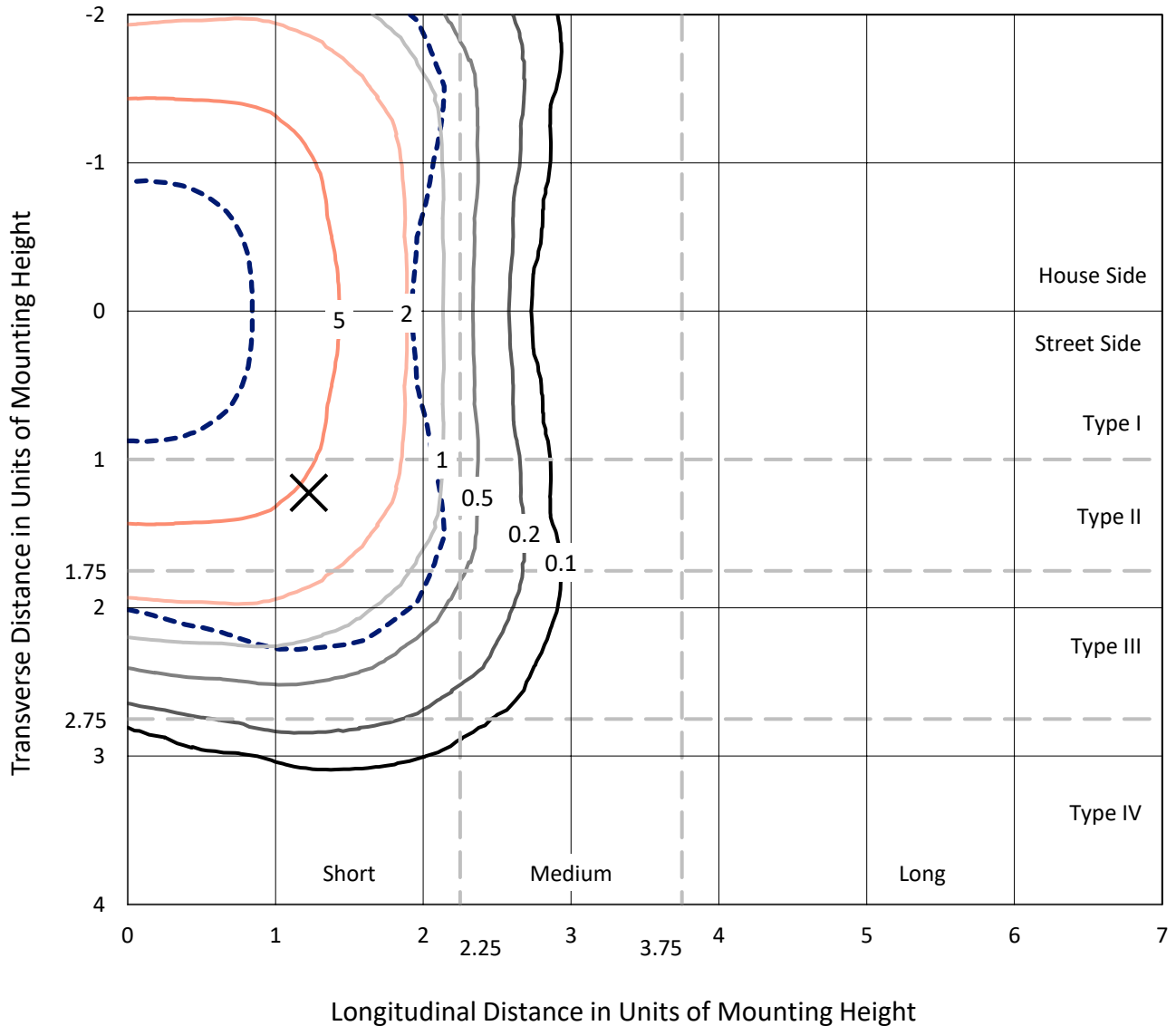
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

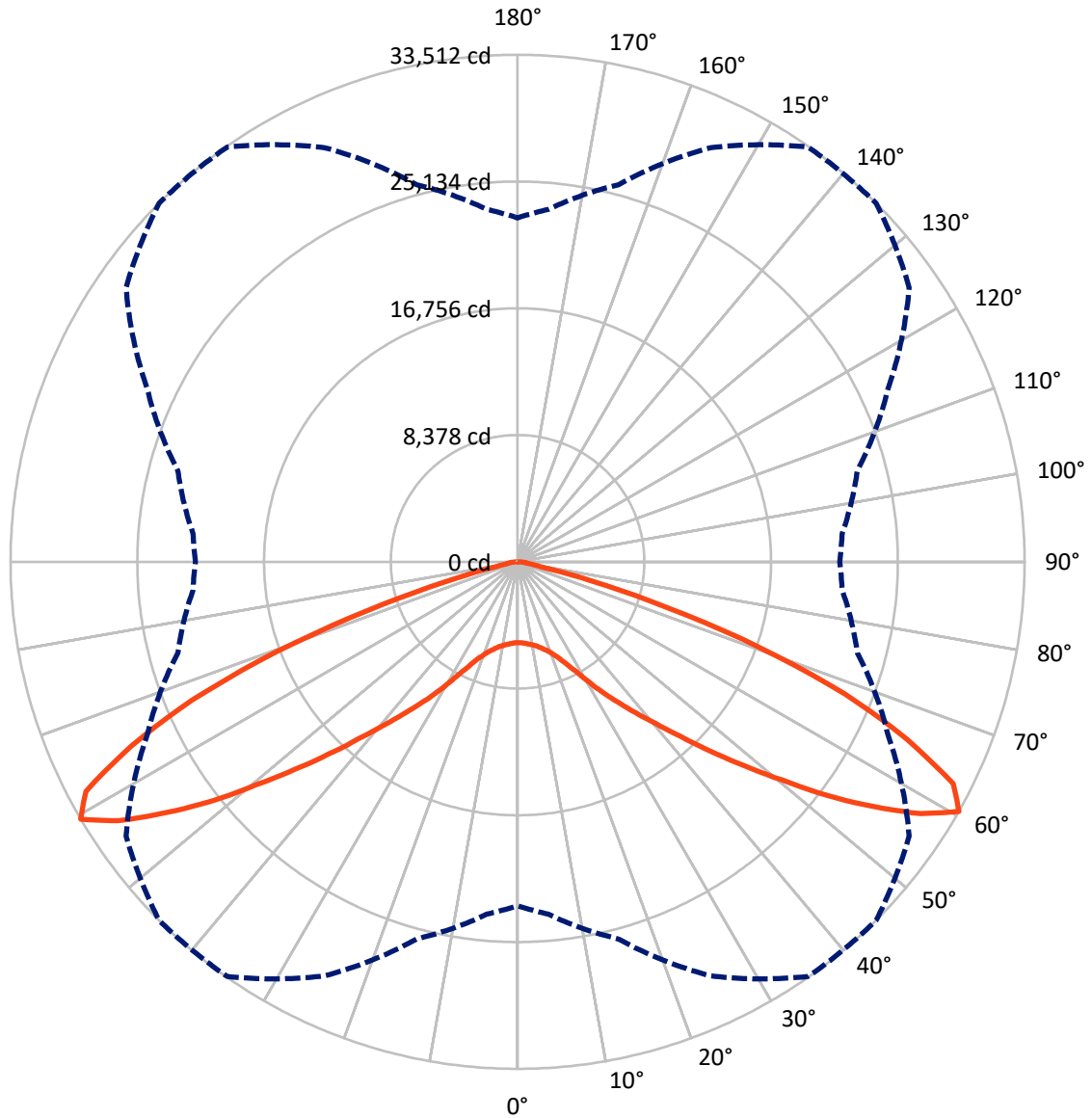
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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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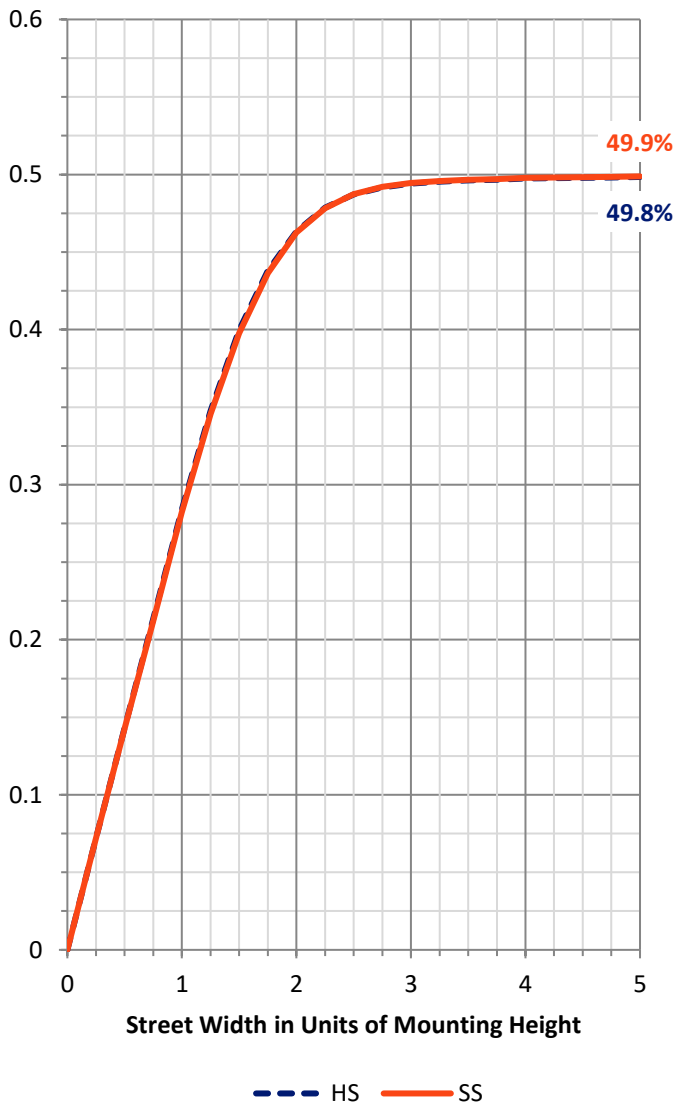
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37184.5	0.0	37184.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	37184.5	0.0	37184.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	74369.0	0.0	74369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.6	0.7
10°-20°	1703.7	2.3
20°-30°	3618.4	4.9
30°-40°	7672.3	10.3
40°-50°	14590.6	19.6
50°-60°	23147.1	31.1
60°-70°	19565.4	26.3
70°-80°	3218.8	4.3
80°-90°	330.1	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°	74369.0	100.0
0°-180°	74369.0	100.0

Coefficient of Utilization



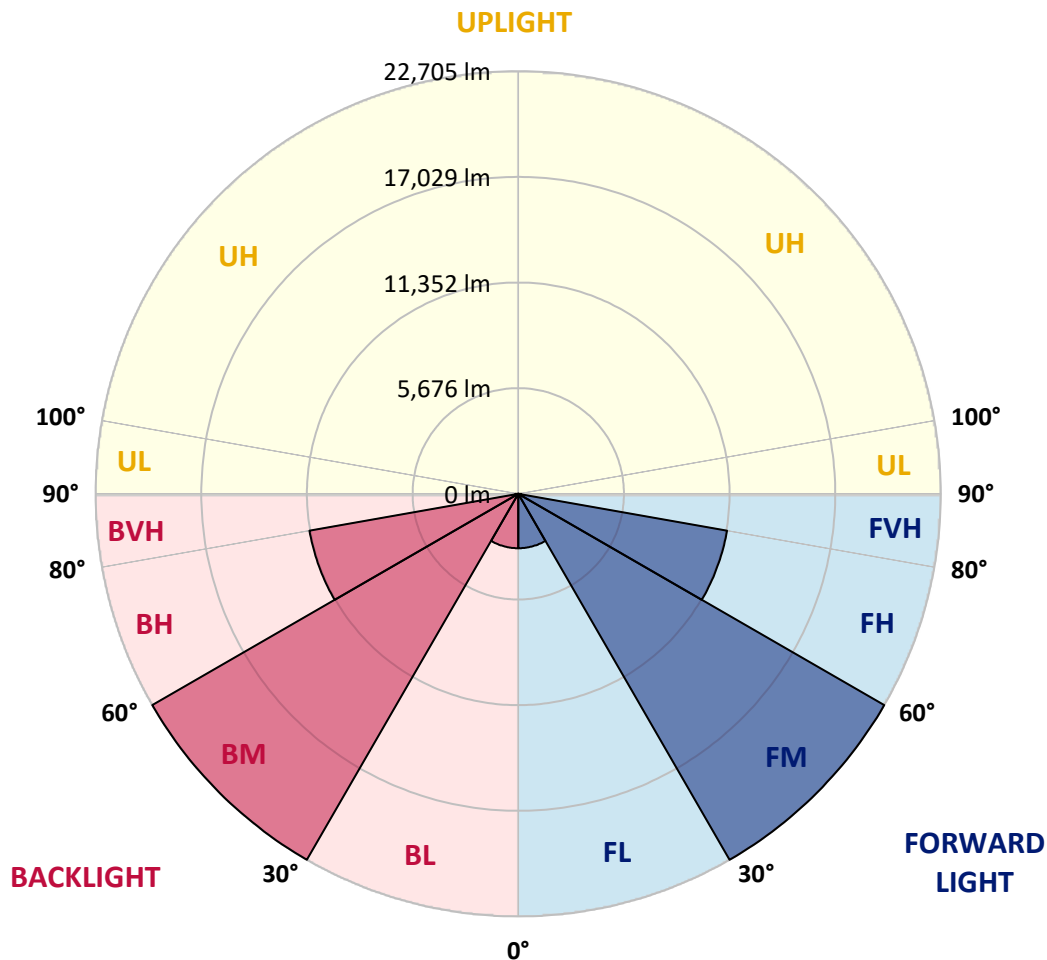
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.3	3.9			
FM (30°-60°)	22705.0	30.5			
FH (60°-80°)	11392.1	15.3			G4/12000
FVH (80°-90°)	165.0	0.2			G2/225
BL (0°-30°)	2922.3	3.9	B4/5000		
BM (30°-60°)	22705.0	30.5	B5		
BH (60°-80°)	11392.1	15.3	B5		G4/12000
BVH (80°-90°)	165.0	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4	5339.4
2.5°	5378.0	5364.7	5360.5	5354.9	5357.7	5359.1	5366.8	5367.5	5367.5	5374.5	5386.4
5°	5438.3	5420.7	5414.4	5407.4	5410.9	5414.4	5421.4	5425.6	5424.9	5429.1	5439.7
7.5°	5503.4	5497.1	5489.4	5485.2	5485.2	5495.0	5490.1	5497.8	5497.1	5502.0	5508.3
10°	5600.2	5586.1	5585.4	5577.7	5581.2	5589.7	5591.1	5589.7	5591.1	5593.9	5608.6
12.5°	5722.8	5719.3	5721.4	5715.1	5713.0	5722.1	5724.2	5733.3	5736.1	5744.5	5753.7
15°	5920.5	5898.0	5895.2	5894.5	5898.7	5912.8	5917.0	5933.8	5941.5	5953.4	5973.7
17.5°	6144.1	6151.8	6137.8	6136.3	6135.6	6146.9	6158.1	6195.2	6207.1	6234.5	6252.0
20°	6500.8	6486.8	6478.4	6444.7	6436.3	6456.0	6496.6	6545.7	6568.8	6612.3	6645.2
22.5°	6977.4	6953.6	6896.1	6856.2	6839.3	6873.0	6917.1	6995.6	7088.9	7142.8	7157.6
25°	7666.4	7572.5	7501.0	7430.2	7405.0	7454.7	7526.2	7651.0	7768.0	7876.0	7925.7
27.5°	8505.4	8445.8	8303.5	8192.1	8147.9	8190.0	8338.6	8514.5	8729.0	8841.1	8857.9
30°	9570.7	9539.9	9358.4	9149.5	9071.0	9143.9	9319.1	9558.8	9857.4	10088.0	10128.7
32.5°	10889.8	10733.5	10481.2	10242.2	10158.1	10247.1	10423.0	10767.2	11169.5	11424.6	11511.5
35°	12402.4	12225.7	11846.6	11479.3	11370.6	11381.9	11663.6	12148.6	12698.8	13054.9	13152.3
37.5°	14070.5	13890.4	13443.2	12873.4	12621.7	12640.7	13009.3	13640.1	14394.3	14782.6	14911.6
40°	15850.8	15664.3	15203.1	14561.1	14147.6	14063.5	14556.2	15324.4	16090.5	16558.7	16608.4
42.5°	17591.1	17370.3	16999.5	16357.5	15980.4	15754.8	16349.8	17045.8	17818.2	18240.1	18273.1
45°	19145.7	19102.9	18805.1	18339.7	18029.2	17829.4	18254.2	18945.2	19484.9	19752.0	19849.4
47.5°	20648.4	20621.8	20526.5	20363.9	20440.9	20108.7	20312.7	20626.0	20922.5	21118.7	21194.4
50°	21965.4	21993.4	22180.6	22457.4	23015.3	22678.9	22615.1	22278.0	22286.4	22301.8	22380.3
52.5°	23053.2	23201.8	23672.8	24508.3	25713.1	25705.4	24740.2	23850.1	23447.8	23269.1	23285.2
55°	24001.5	24255.9	25033.9	26758.8	28483.0	28569.2	27256.5	25284.8	24530.7	24149.4	24199.2
57.5°	24525.1	24912.7	26229.7	28848.2	31305.5	31409.3	29947.2	26873.8	25146.8	24181.6	24223.0
60°	22728.0	23380.5	25808.4	30196.0	33464.3	33512.0	31592.2	26998.5	23241.7	21533.6	21283.4
62.5°	18599.0	19503.1	22928.4	29151.7	32464.1	32316.2	30562.6	24661.0	19092.4	17020.6	16810.3
65°	13971.0	14821.2	18407.6	24961.0	28485.1	28290.3	26504.4	19490.5	13997.6	11798.2	11539.6
67.5°	7561.3	8845.3	12201.2	19067.2	22707.6	23368.6	20894.4	13584.8	8145.8	5905.8	5678.7
70°	2611.5	3374.8	6221.2	11969.2	16378.6	17041.6	14248.5	7285.8	3564.8	2228.9	2001.1
72.5°	927.3	1068.9	2338.9	5780.3	9324.7	10331.9	7688.1	2930.4	1136.2	827.8	810.9
75°	654.6	675.7	831.3	1884.7	4037.2	4944.8	3031.4	972.8	708.6	662.3	658.1
77.5°	584.5	596.5	673.6	767.5	1233.6	1579.1	932.9	705.8	615.4	589.5	580.3
80°	555.8	564.9	587.4	629.4	699.5	727.5	629.4	603.5	560.0	548.8	545.3
82.5°	485.7	483.6	489.9	507.4	539.0	546.0	505.3	473.1	473.8	460.5	454.2
85°	328.7	348.3	333.6	315.4	391.1	393.2	366.6	274.8	311.9	305.6	279.7
87.5°	99.5	112.1	89.0	61.7	84.8	65.9	59.6	61.7	58.9	51.2	46.3
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)