

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: P510563

Luminaire Tested: **CTN-CA10-630-750-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510563  
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-CA10-630-750-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 100140 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

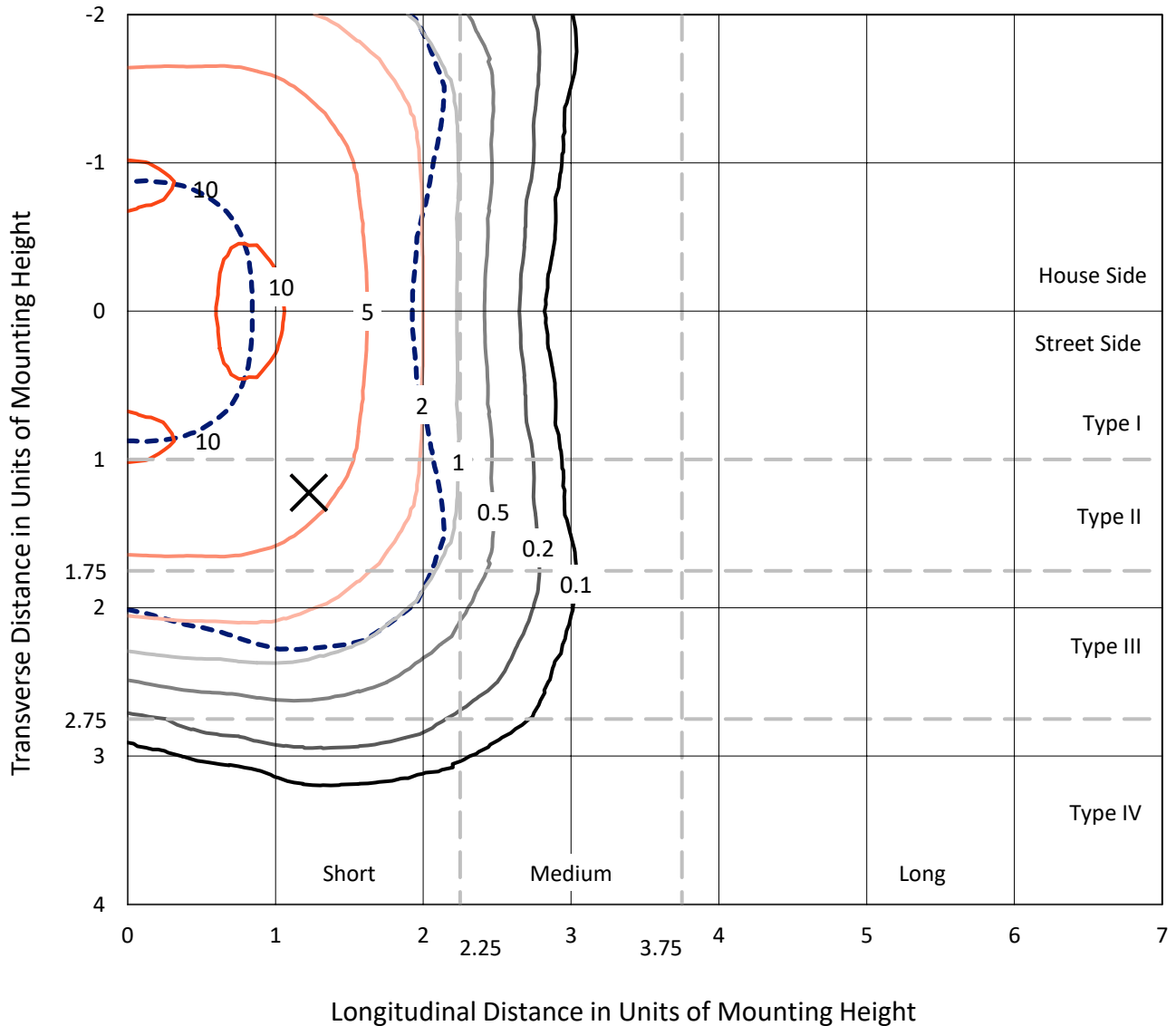
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

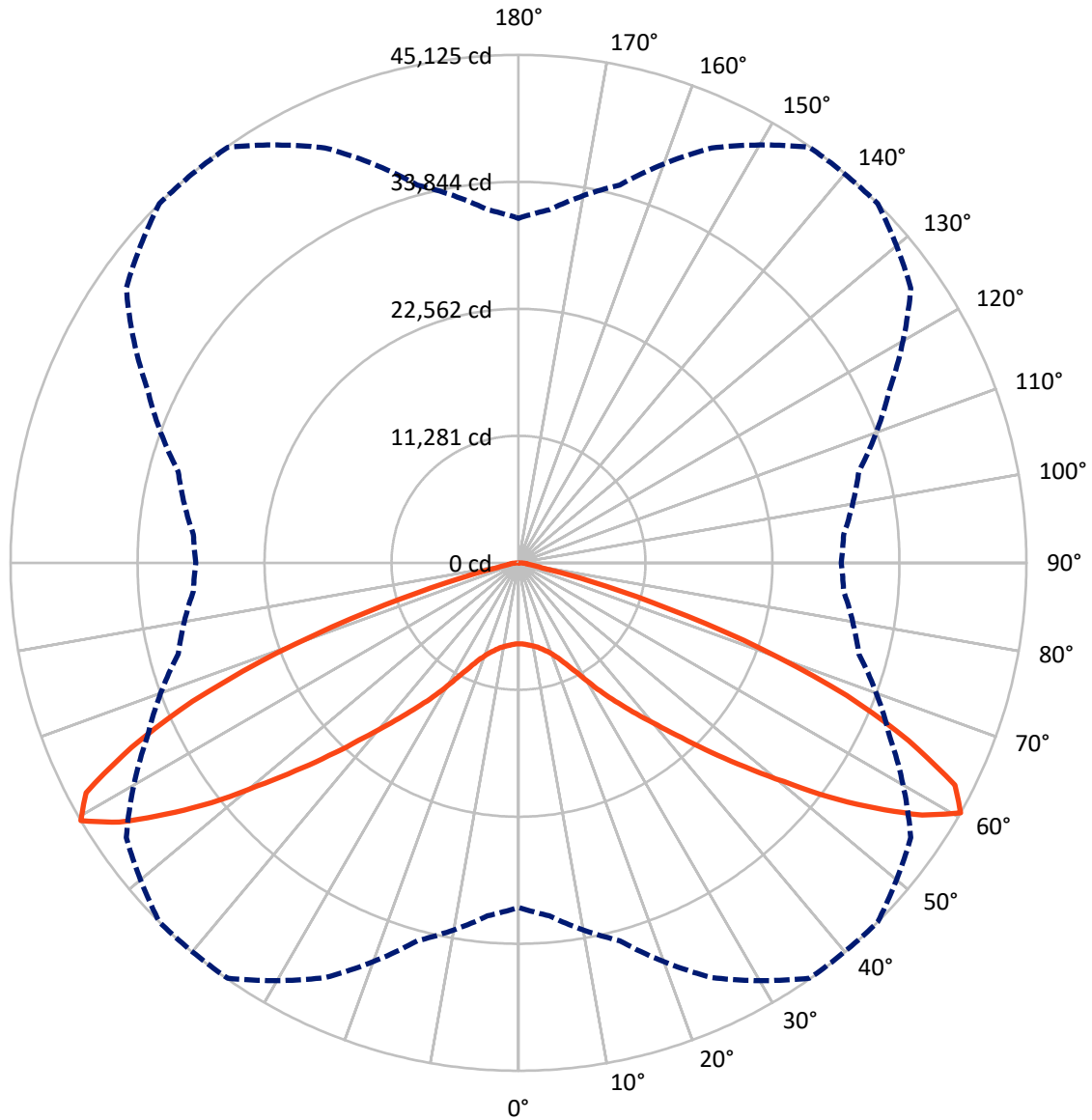
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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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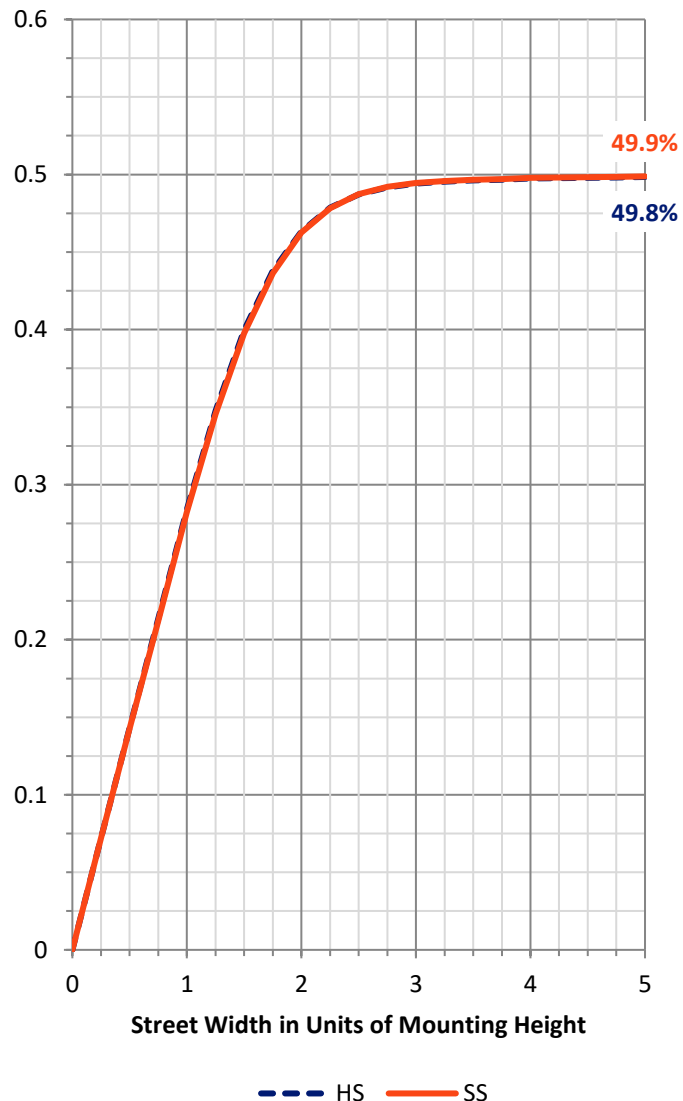
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	50070.0	0.0	50070.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	50070.0	0.0	50070.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	100140.0	0.0	100140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.7	0.7
10°-20°	2294.0	2.3
20°-30°	4872.3	4.9
30°-40°	10331.0	10.3
40°-50°	19646.6	19.6
50°-60°	31168.3	31.1
60°-70°	26345.5	26.3
70°-80°	4334.3	4.3
80°-90°	444.4	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°	100140.0	100.0
0°-180°	100140.0	100.0

**Coefficient of Utilization**



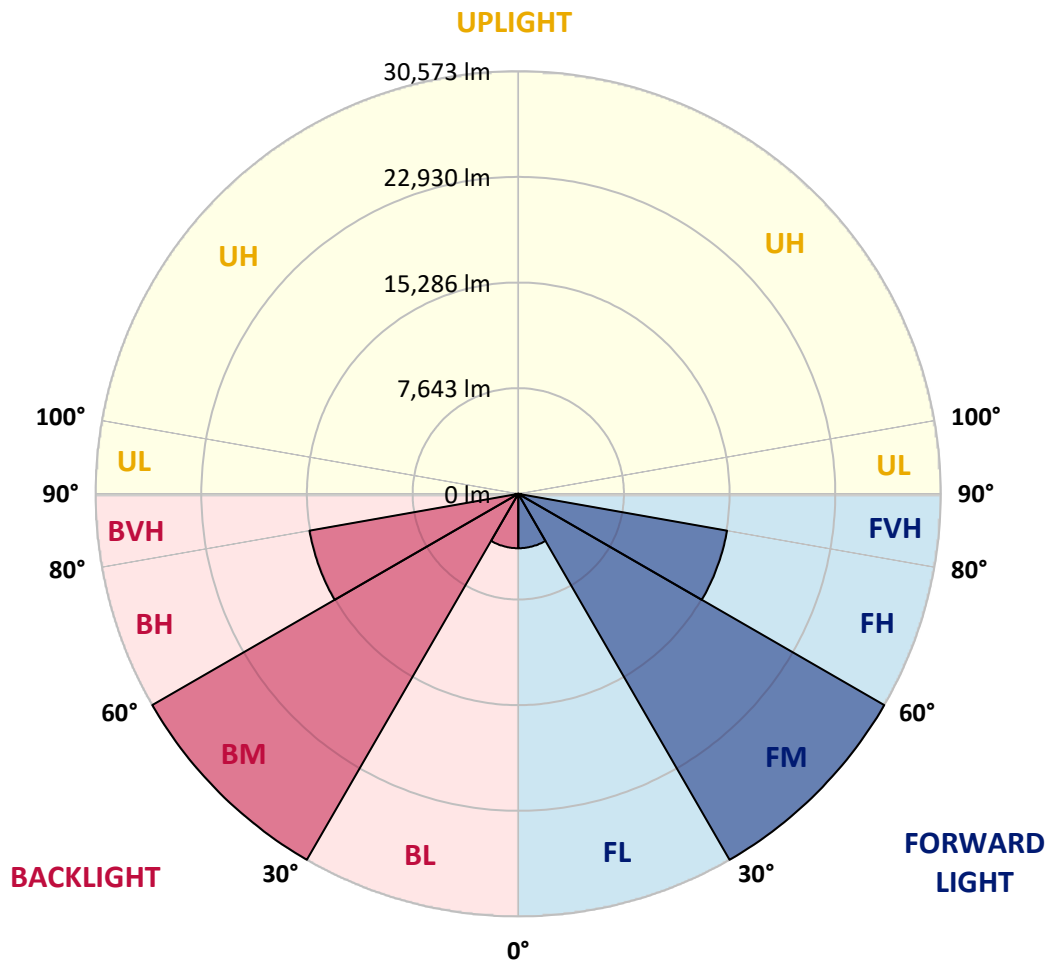
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3935.0	3.9			
FM (30°-60°)	30572.9	30.5			
FH (60°-80°)	15339.9	15.3			G5
FVH (80°-90°)	222.2	0.2			G2/225
BL (0°-30°)	3935.0	3.9	B4/5000		
BM (30°-60°)	30572.9	30.5	B5		
BH (60°-80°)	15339.9	15.3	B5		G5
BVH (80°-90°)	222.2	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°	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7	7189.7
2.5°	7241.6	7223.7	7218.0	7210.5	7214.2	7216.1	7226.5	7227.4	7227.4	7236.9	7252.9
5°	7322.8	7299.2	7290.7	7281.2	7286.0	7290.7	7300.1	7305.8	7304.8	7310.5	7324.7
7.5°	7410.5	7402.0	7391.7	7386.0	7386.0	7399.2	7392.6	7403.0	7402.0	7408.7	7417.1
10°	7540.8	7521.9	7521.0	7510.6	7515.3	7526.6	7528.5	7526.6	7528.5	7532.3	7552.1
12.5°	7705.9	7701.2	7704.1	7695.6	7692.7	7705.0	7707.8	7720.1	7723.9	7735.2	7747.5
15°	7972.1	7941.9	7938.1	7937.2	7942.8	7961.7	7967.4	7990.0	8000.4	8016.4	8043.8
17.5°	8273.2	8283.5	8264.7	8262.8	8261.8	8276.9	8292.0	8342.0	8358.1	8394.9	8418.5
20°	8753.5	8734.7	8723.3	8678.0	8666.7	8693.1	8747.9	8813.9	8845.1	8903.6	8948.0
22.5°	9395.3	9363.2	9285.8	9232.0	9209.4	9254.7	9314.1	9419.8	9545.4	9618.0	9637.9
25°	10323.0	10196.6	10100.3	10005.0	9971.0	10038.0	10134.3	10302.3	10459.9	10605.2	10672.2
27.5°	11452.7	11372.5	11180.9	11030.9	10971.4	11028.0	11228.1	11465.0	11753.8	11904.8	11927.5
30°	12887.3	12845.8	12601.3	12320.1	12214.4	12312.5	12548.5	12871.2	13273.3	13583.8	13638.5
32.5°	14663.5	14453.0	14113.2	13791.4	13678.2	13798.0	14034.9	14498.3	15040.0	15383.6	15500.6
35°	16700.1	16462.3	15951.7	15457.2	15310.9	15326.0	15705.4	16358.5	17099.4	17578.8	17710.0
37.5°	18946.3	18703.8	18101.7	17334.4	16995.5	17021.0	17517.5	18366.9	19382.4	19905.2	20078.9
40°	21343.5	21092.5	20471.5	19607.0	19050.1	18936.9	19600.4	20634.8	21666.3	22296.7	22363.8
42.5°	23686.9	23389.6	22890.4	22025.9	21518.1	21214.2	22015.5	22952.7	23992.7	24560.9	24605.2
45°	25780.2	25722.7	25321.5	24694.9	24276.8	24007.8	24579.7	25510.3	26237.0	26596.6	26727.8
47.5°	27803.7	27767.8	27639.5	27420.5	27524.3	27077.0	27351.6	27773.5	28172.7	28437.0	28538.9
50°	29577.0	29614.8	29866.8	30239.6	30990.8	30537.8	30451.9	29998.0	30009.3	30030.1	30135.8
52.5°	31041.8	31241.9	31876.1	33001.1	34623.4	34613.0	33313.5	32114.9	31573.1	31332.5	31354.2
55°	32318.7	32661.3	33708.9	36031.5	38353.2	38469.3	36701.6	34046.8	33031.3	32517.9	32584.9
57.5°	33023.7	33545.6	35319.0	38844.9	42153.8	42293.5	40324.8	36186.3	33860.8	32561.3	32616.9
60°	30603.9	31482.5	34751.8	40659.8	45060.7	45124.8	42539.8	36354.3	31295.7	28995.7	28658.7
62.5°	25044.1	26261.6	30873.8	39253.6	43713.9	43514.7	41153.4	33206.8	25708.5	22918.7	22635.6
65°	18812.3	19957.1	24786.4	33610.7	38356.1	38093.7	35688.9	26244.6	18848.2	15886.6	15538.4
67.5°	10181.5	11910.5	16429.3	25674.5	30576.5	31466.5	28135.0	18292.3	10968.6	7952.3	7646.5
70°	3516.5	4544.3	8377.0	16116.9	22054.2	22947.0	19186.1	9810.6	4800.1	3001.2	2694.5
72.5°	1248.6	1439.3	3149.4	7783.3	12556.0	13912.2	10352.3	3945.9	1529.9	1114.6	1092.0
75°	881.5	909.8	1119.3	2537.8	5436.2	6658.4	4081.8	1310.0	954.2	891.9	886.2
77.5°	787.1	803.2	907.0	1033.4	1661.0	2126.3	1256.2	950.4	828.6	793.7	781.4
80°	748.4	760.7	790.9	847.5	941.9	979.6	847.5	812.6	754.1	739.0	734.3
82.5°	654.0	651.2	659.7	683.3	725.8	735.2	680.5	637.0	638.0	620.1	611.6
85°	442.6	469.1	449.2	424.7	526.6	529.5	493.6	370.0	420.0	411.5	376.6
87.5°	134.0	151.0	119.9	83.1	114.2	88.7	80.2	83.1	79.3	68.9	62.3
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)