

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: P510573

Luminaire Tested: **CTN-CA10-630-760-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510573  
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-CA10-630-760-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 98017 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

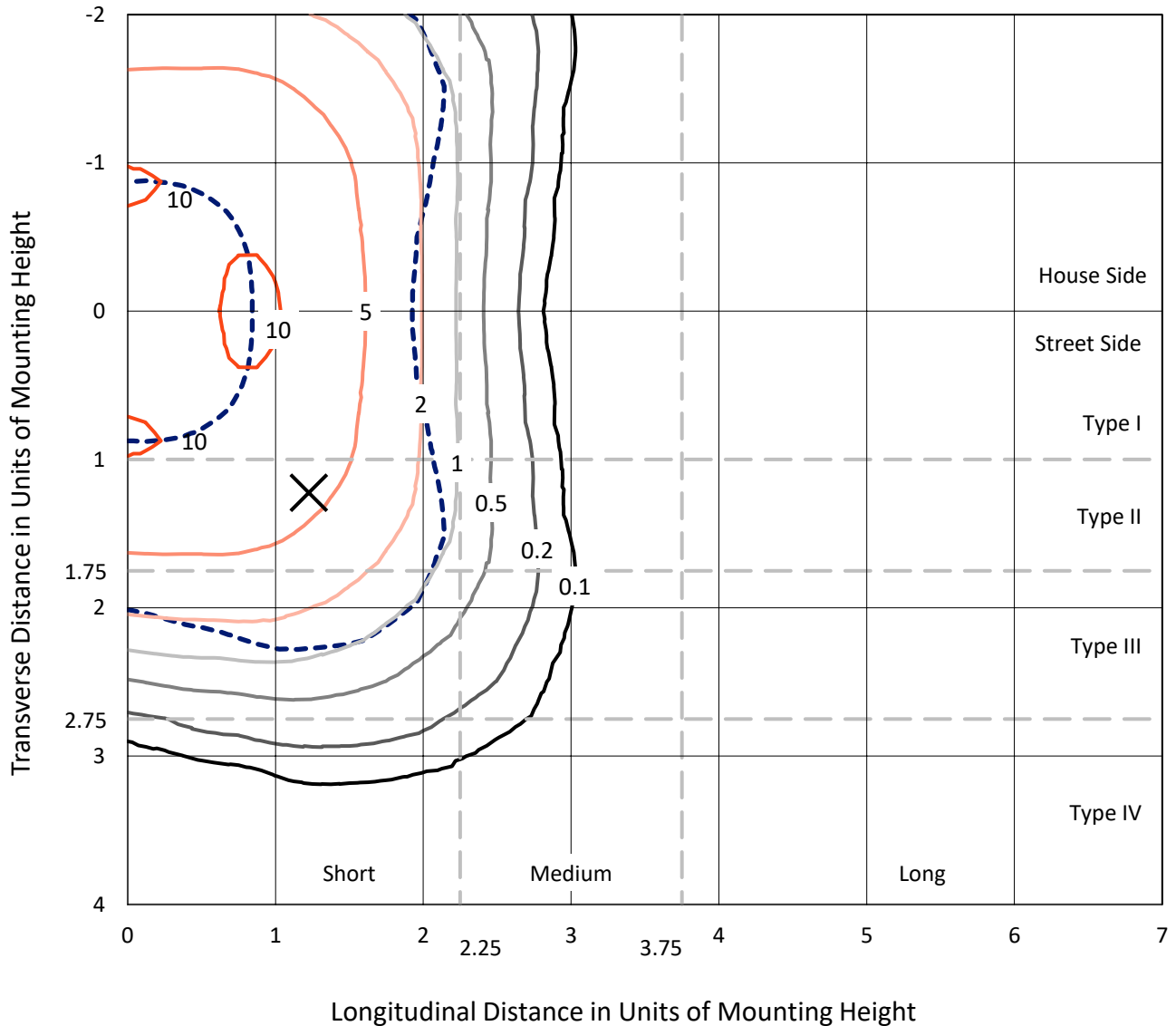
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

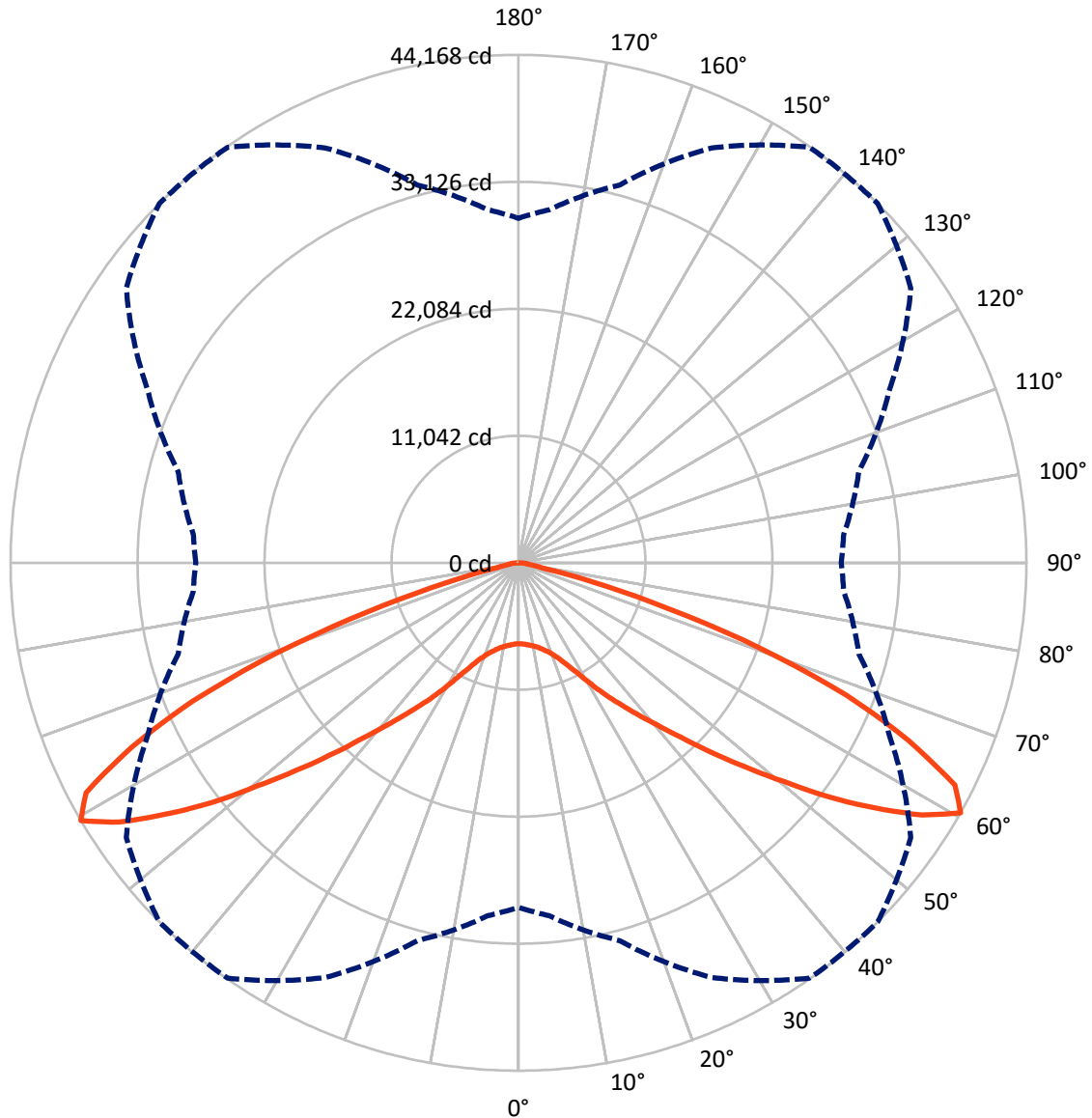
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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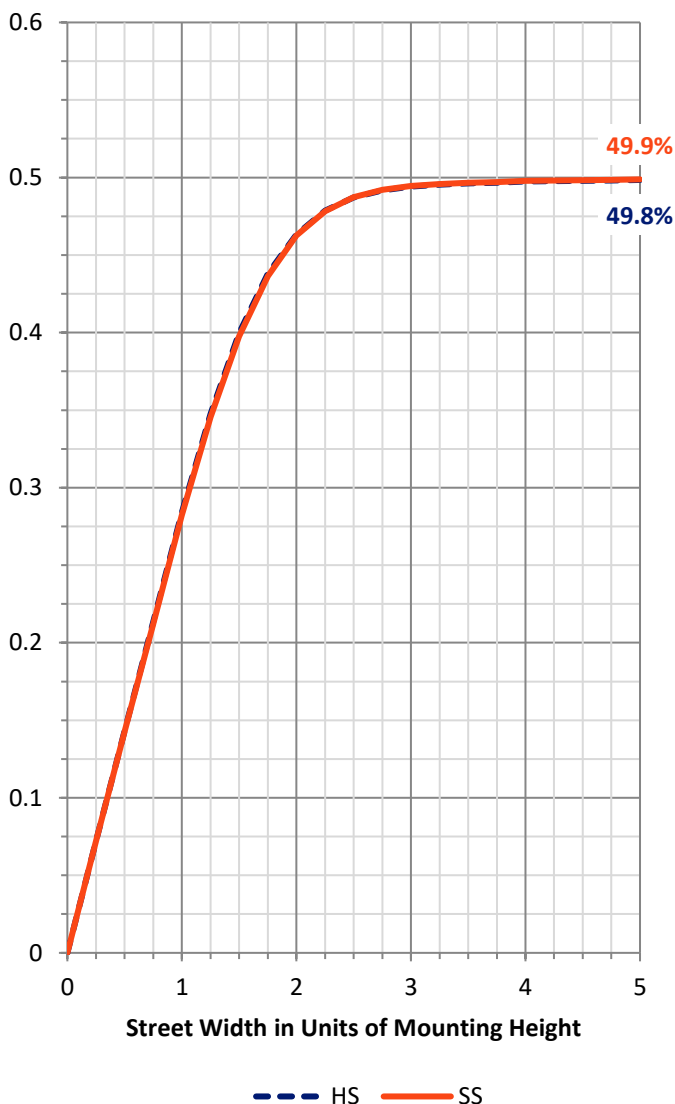
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	49008.5	0.0	49008.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	49008.5	0.0	49008.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	98017.0	0.0	98017.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.8	0.7
10°-20°	2245.4	2.3
20°-30°	4769.0	4.9
30°-40°	10111.9	10.3
40°-50°	19230.1	19.6
50°-60°	30507.5	31.1
60°-70°	25786.9	26.3
70°-80°	4242.4	4.3
80°-90°	435.0	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°	98017.0	100.0
0°-180°	98017.0	100.0

**Coefficient of Utilization**



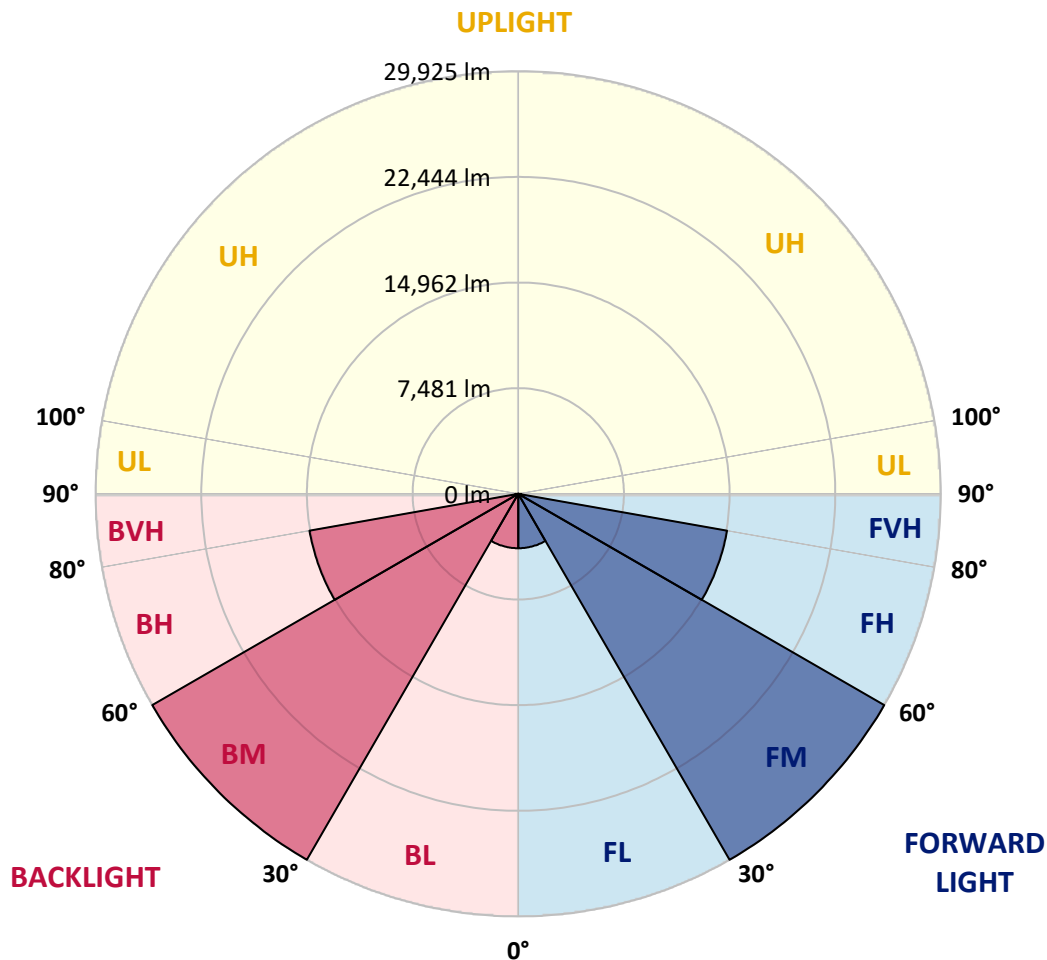
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3851.6	3.9			
FM (30°-60°)	29924.8	30.5			
FH (60°-80°)	15014.6	15.3			G5
FVH (80°-90°)	217.5	0.2			G2/225
BL (0°-30°)	3851.6	3.9	B4/5000		
BM (30°-60°)	29924.8	30.5	B5		
BH (60°-80°)	15014.6	15.3	B5		G5
BVH (80°-90°)	217.5	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°	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3	7037.3
2.5°	7088.1	7070.5	7065.0	7057.6	7061.3	7063.1	7073.3	7074.2	7074.2	7083.5	7099.2
5°	7167.5	7144.4	7136.1	7126.9	7131.5	7136.1	7145.4	7150.9	7150.0	7155.5	7169.4
7.5°	7253.4	7245.1	7235.0	7229.4	7229.4	7242.3	7235.9	7246.0	7245.1	7251.6	7259.9
10°	7380.9	7362.4	7361.5	7351.4	7356.0	7367.1	7368.9	7367.1	7368.9	7372.6	7392.0
12.5°	7542.6	7538.0	7540.7	7532.4	7529.6	7541.7	7544.4	7556.4	7560.1	7571.2	7583.2
15°	7803.1	7773.5	7769.8	7768.9	7774.4	7792.9	7798.5	7820.6	7830.8	7846.5	7873.3
17.5°	8097.8	8107.9	8089.4	8087.6	8086.7	8101.5	8116.2	8165.2	8180.9	8216.9	8240.0
20°	8568.0	8549.5	8538.4	8494.1	8483.0	8508.8	8562.4	8627.1	8657.6	8714.8	8758.3
22.5°	9196.1	9164.7	9089.0	9036.3	9014.1	9058.5	9116.7	9220.1	9343.0	9414.1	9433.5
25°	10104.2	9980.4	9886.2	9792.9	9759.6	9825.2	9919.4	10083.9	10238.1	10380.4	10446.0
27.5°	11209.9	11131.4	10943.9	10797.0	10738.8	10794.2	10990.1	11221.9	11504.6	11652.4	11674.6
30°	12614.1	12573.4	12334.2	12058.9	11955.4	12051.5	12282.4	12598.4	12991.9	13295.8	13349.4
32.5°	14352.6	14146.6	13814.0	13499.0	13388.2	13505.5	13737.4	14190.9	14721.2	15057.4	15172.0
35°	16346.1	16113.3	15613.5	15129.5	14986.3	15001.1	15372.4	16011.7	16736.8	17206.1	17334.5
37.5°	18544.7	18307.3	17717.9	16966.9	16635.2	16660.2	17146.1	17977.5	18971.4	19483.2	19653.2
40°	20891.0	20645.3	20037.5	19191.3	18646.3	18535.4	19184.8	20197.3	21207.0	21824.0	21889.6
42.5°	23184.8	22893.8	22405.1	21558.9	21061.9	20764.5	21548.8	22466.1	23484.1	24040.2	24083.6
45°	25233.7	25177.3	24784.7	24171.3	23762.1	23498.8	24058.6	24969.5	25680.8	26032.7	26161.1
47.5°	27214.2	27179.1	27053.5	26839.2	26940.8	26502.9	26771.8	27184.7	27575.4	27834.1	27933.9
50°	28950.0	28987.0	29233.6	29598.5	30333.8	29890.4	29806.3	29362.0	29373.1	29393.4	29496.9
52.5°	30383.7	30579.5	31200.3	32301.4	33889.4	33879.2	32607.2	31434.0	30903.8	30668.2	30689.5
55°	31633.5	31968.9	32994.3	35267.7	37540.1	37653.8	35923.5	33325.0	32331.0	31828.5	31894.1
57.5°	32323.6	32834.4	34570.2	38021.4	41260.1	41396.9	39469.9	35419.2	33143.0	31871.0	31925.5
60°	29955.1	30815.1	34015.0	39797.8	44105.4	44168.2	41638.0	35583.6	30632.2	28381.0	28051.2
62.5°	24513.1	25704.8	30219.3	38421.4	42787.1	42592.2	40281.0	32502.8	25163.5	22432.8	22155.7
65°	18413.5	19534.0	24260.9	32898.2	37542.9	37286.1	34932.3	25688.2	18448.6	15549.8	15208.9
67.5°	9965.6	11658.0	16081.0	25130.2	29928.3	30799.4	27538.5	17904.5	10736.0	7783.7	7484.4
70°	3442.0	4447.9	8199.4	15775.2	21586.6	22460.5	18779.3	9602.6	4698.3	2937.6	2637.4
72.5°	1222.1	1408.7	3082.6	7618.3	12289.8	13617.3	10132.8	3862.3	1497.4	1091.0	1068.8
75°	862.8	890.5	1095.6	2484.0	5320.9	6517.2	3995.3	1282.2	933.9	873.0	867.4
77.5°	770.4	786.1	887.7	1011.5	1625.8	2081.3	1229.5	930.2	811.1	776.9	764.9
80°	732.5	744.6	774.1	829.5	921.9	958.9	829.5	795.4	738.1	723.3	718.7
82.5°	640.2	637.4	645.7	668.8	710.4	719.6	666.0	623.5	624.5	606.9	598.6
85°	433.2	459.1	439.7	415.7	515.5	518.2	483.1	362.1	411.1	402.8	368.6
87.5°	131.2	147.8	117.3	81.3	111.8	86.8	78.5	81.3	77.6	67.4	61.0
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)