

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: P510773

Luminaire Tested: **CTN-CA8-330-727-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510773  
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-CA8-330-727-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44175 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

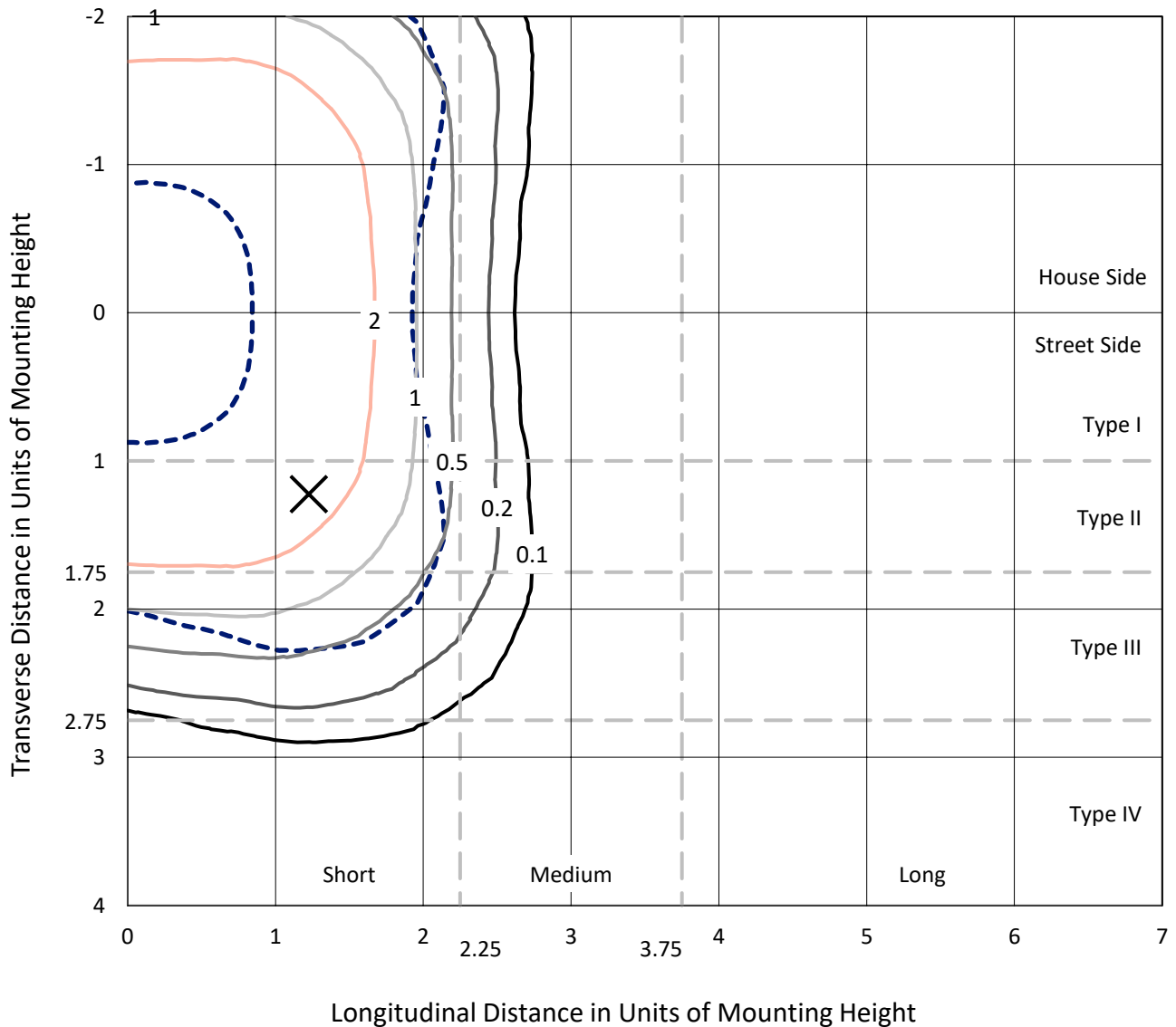
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

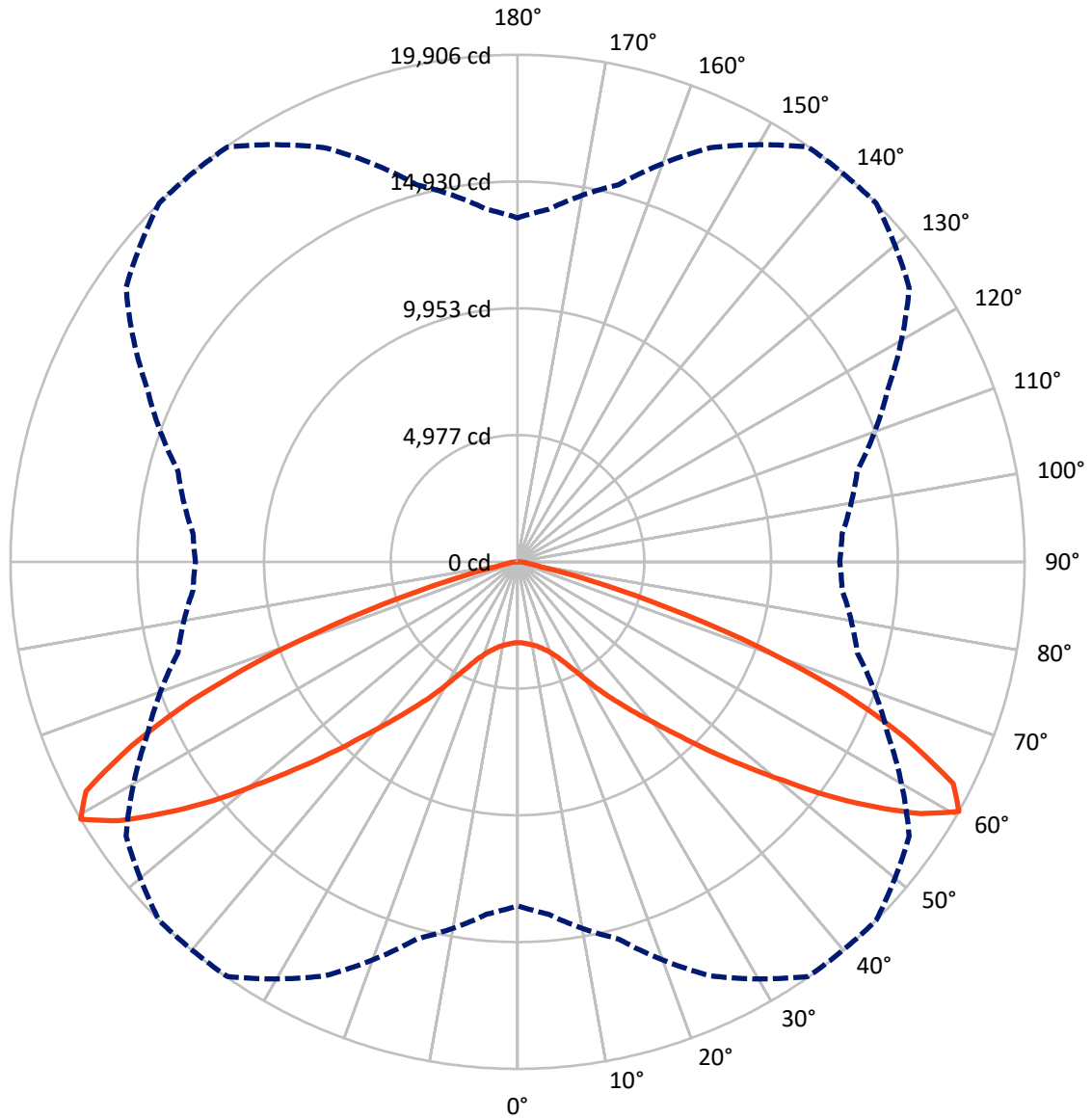
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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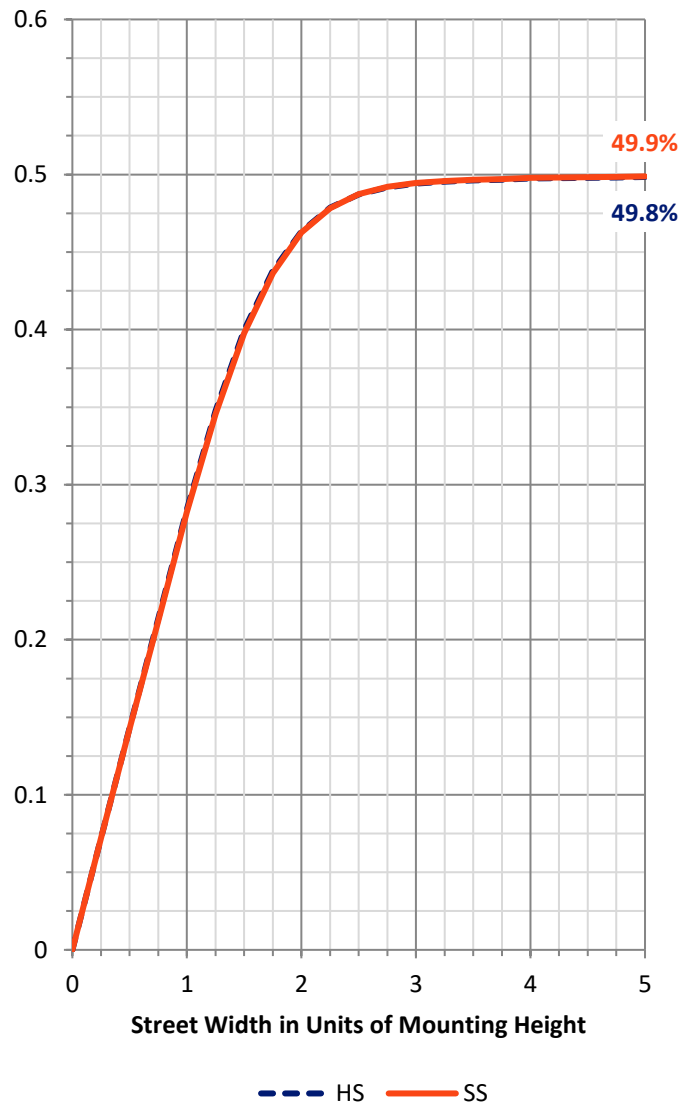
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22087.5	0.0	22087.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22087.5	0.0	22087.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44175.0	0.0	44175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.4	0.7
10°-20°	1012.0	2.3
20°-30°	2149.3	4.9
30°-40°	4557.3	10.3
40°-50°	8666.8	19.6
50°-60°	13749.3	31.1
60°-70°	11621.8	26.3
70°-80°	1912.0	4.3
80°-90°	196.1	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°	44175.0	100.0
0°-180°	44175.0	100.0

**Coefficient of Utilization**

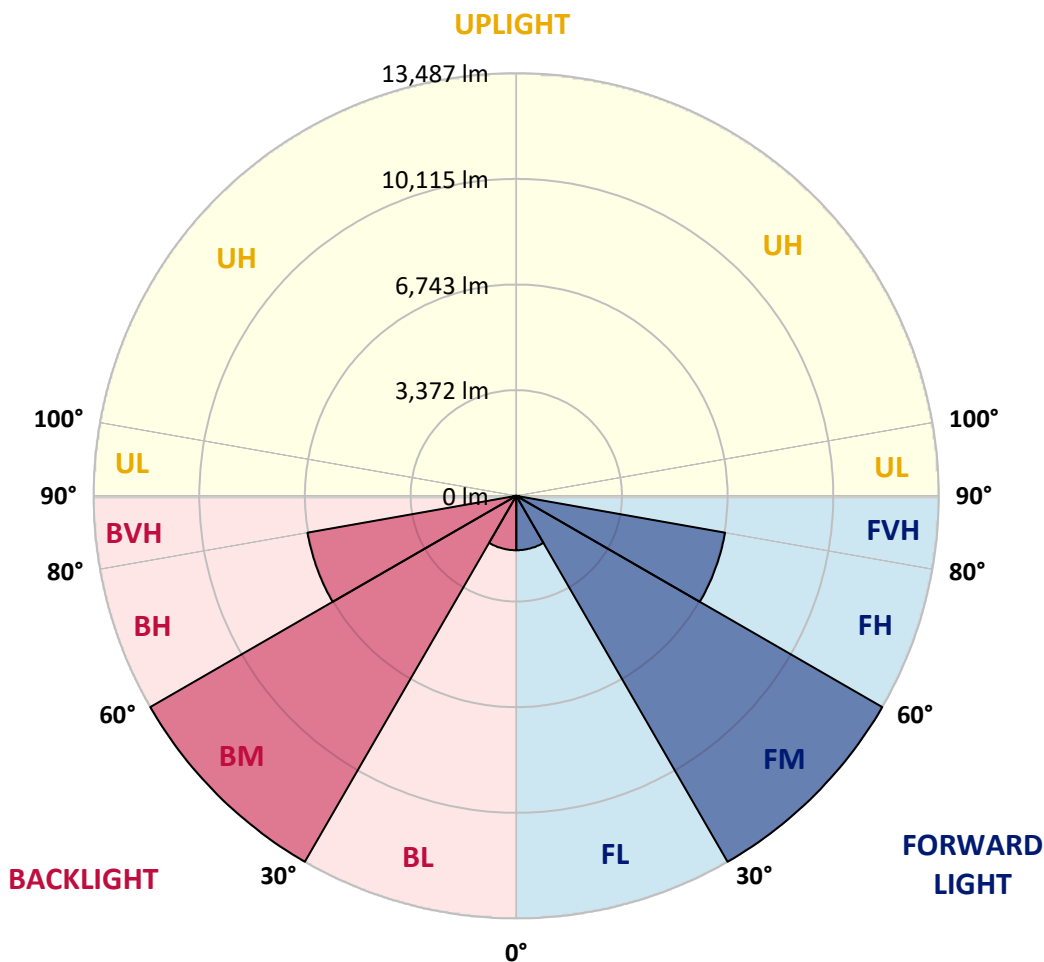


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.9	3.9			
FM (30°-60°)	13486.7	30.5			
FH (60°-80°)	6766.9	15.3			G3/7500
FVH (80°-90°)	98.0	0.2			G1/100
BL (0°-30°)	1735.9	3.9	B3/2500		
BM (30°-60°)	13486.7	30.5	B5		
BH (60°-80°)	6766.9	15.3	B5		G3/7500
BVH (80°-90°)	98.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6
2.5°	3194.5	3186.6	3184.1	3180.8	3182.4	3183.3	3187.8	3188.3	3188.3	3192.4	3199.5
5°	3230.3	3219.9	3216.2	3212.0	3214.1	3216.2	3220.3	3222.8	3222.4	3224.9	3231.1
7.5°	3269.0	3265.3	3260.7	3258.2	3258.2	3264.0	3261.1	3265.7	3265.3	3268.2	3271.9
10°	3326.5	3318.2	3317.7	3313.2	3315.2	3320.2	3321.1	3320.2	3321.1	3322.7	3331.5
12.5°	3399.3	3397.3	3398.5	3394.8	3393.5	3398.9	3400.2	3405.6	3407.3	3412.2	3417.7
15°	3516.7	3503.4	3501.8	3501.3	3503.8	3512.2	3514.7	3524.7	3529.2	3536.3	3548.4
17.5°	3649.6	3654.1	3645.8	3645.0	3644.6	3651.2	3657.9	3679.9	3687.0	3703.3	3713.7
20°	3861.5	3853.1	3848.1	3828.2	3823.2	3834.8	3859.0	3888.1	3901.9	3927.7	3947.2
22.5°	4144.6	4130.4	4096.3	4072.5	4062.6	4082.5	4108.8	4155.4	4210.8	4242.8	4251.6
25°	4553.8	4498.0	4455.6	4413.5	4398.5	4428.1	4470.6	4544.7	4614.2	4678.3	4707.9
27.5°	5052.2	5016.8	4932.3	4866.1	4839.8	4864.8	4953.1	5057.6	5185.0	5251.6	5261.6
30°	5685.0	5666.7	5558.8	5434.8	5388.2	5431.5	5535.5	5677.9	5855.3	5992.2	6016.4
32.5°	6468.5	6375.7	6225.8	6083.8	6033.9	6086.8	6191.3	6395.7	6634.6	6786.2	6837.8
35°	7367.0	7262.1	7036.8	6818.7	6754.1	6760.8	6928.2	7216.3	7543.1	7754.6	7812.4
37.5°	8357.8	8250.8	7985.2	7646.7	7497.3	7508.5	7727.5	8102.2	8550.2	8780.8	8857.4
40°	9415.3	9304.6	9030.6	8649.3	8403.6	8353.7	8646.4	9102.7	9557.7	9835.8	9865.4
42.5°	10449.1	10317.9	10097.7	9716.3	9492.3	9358.3	9711.7	10125.2	10584.0	10834.6	10854.2
45°	11372.5	11347.1	11170.2	10893.7	10709.3	10590.6	10842.9	11253.4	11574.0	11732.6	11790.5
47.5°	12265.1	12249.3	12192.7	12096.1	12141.9	11944.5	12065.7	12251.8	12427.9	12544.5	12589.4
50°	13047.4	13064.0	13175.2	13339.7	13671.1	13471.2	13433.3	13233.1	13238.1	13247.2	13293.9
52.5°	13693.5	13781.8	14061.6	14557.8	15273.5	15268.9	14695.6	14166.9	13927.9	13821.8	13831.3
55°	14256.8	14408.0	14870.1	15894.7	16918.9	16970.1	16190.3	15019.1	14571.2	14344.7	14374.2
57.5°	14567.8	14798.1	15580.3	17135.8	18595.4	18657.0	17788.6	15963.0	14937.1	14363.8	14388.4
60°	13500.4	13888.0	15330.1	17936.4	19877.7	19906.0	18765.7	16037.1	13805.5	12790.9	12642.3
62.5°	11047.8	11584.8	13619.4	17316.0	19283.6	19195.8	18154.1	14648.6	11340.9	10110.2	9985.3
65°	8298.7	8803.7	10934.1	14826.8	16920.1	16804.4	15743.6	11577.3	8314.5	7008.1	6854.5
67.5°	4491.4	5254.1	7247.5	11325.9	13488.3	13880.9	12411.2	8069.3	4838.6	3508.0	3373.1
70°	1551.2	2004.6	3695.4	7109.7	9728.8	10122.7	8463.6	4327.8	2117.5	1323.9	1188.6
72.5°	550.8	634.9	1389.3	3433.5	5538.9	6137.1	4566.7	1740.7	674.9	491.7	481.7
75°	388.9	401.3	493.8	1119.5	2398.1	2937.2	1800.6	577.9	420.9	393.4	390.9
77.5°	347.2	354.3	400.1	455.9	732.7	938.0	554.1	419.2	365.5	350.1	344.7
80°	330.2	335.6	348.9	373.9	415.5	432.2	373.9	358.5	332.6	326.0	323.9
82.5°	288.5	287.3	291.0	301.4	320.2	324.3	300.2	281.0	281.4	273.5	269.8
85°	195.3	206.9	198.2	187.3	232.3	233.6	217.7	163.2	185.3	181.5	166.1
87.5°	59.1	66.6	52.9	36.6	50.4	39.1	35.4	36.6	35.0	30.4	27.5
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)