

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: P510613

Luminaire Tested: **CTN-CA10-760-740-U-T5N**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510613  
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-CA10-760-740-U-T5N  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 113535 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

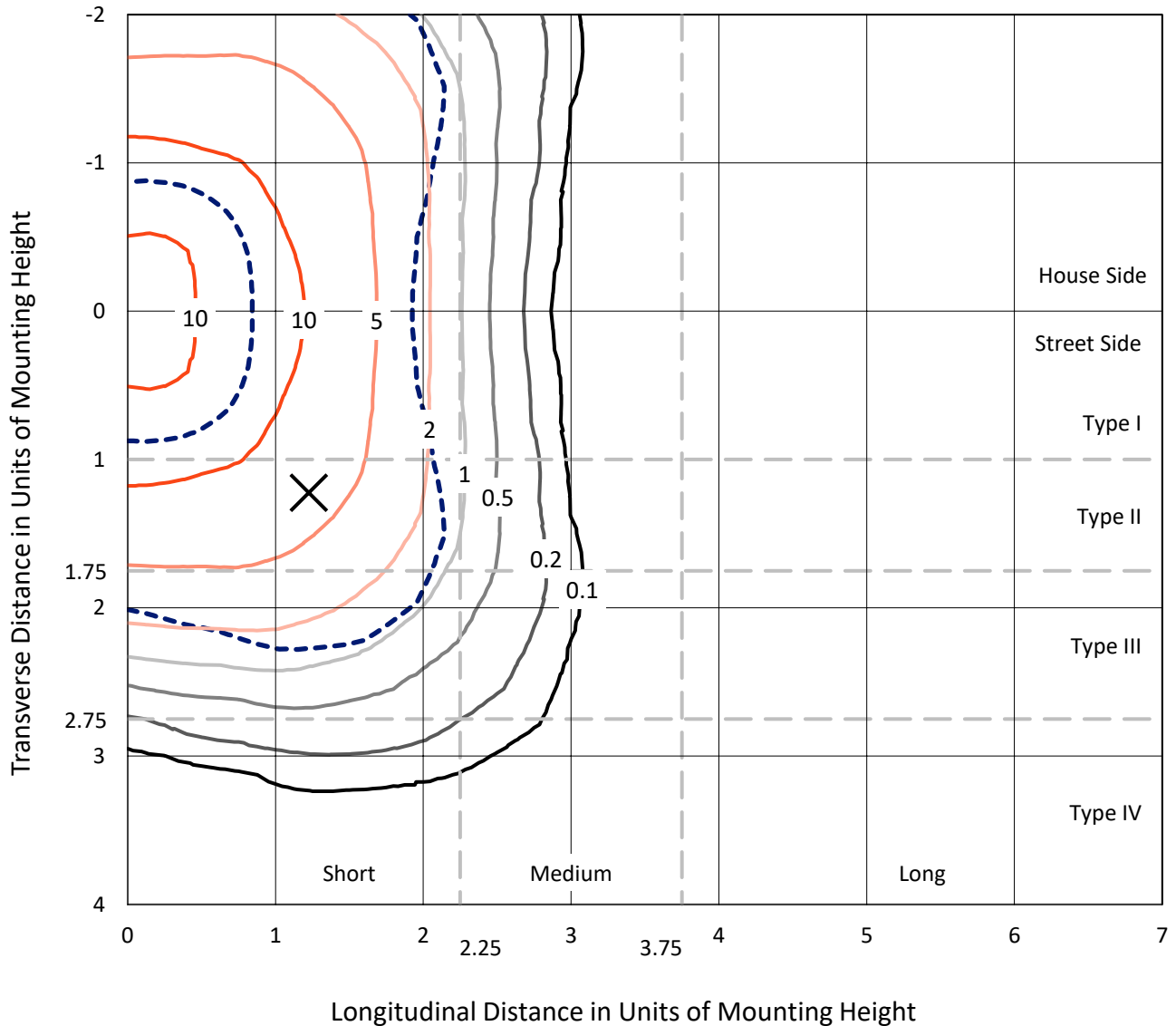
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

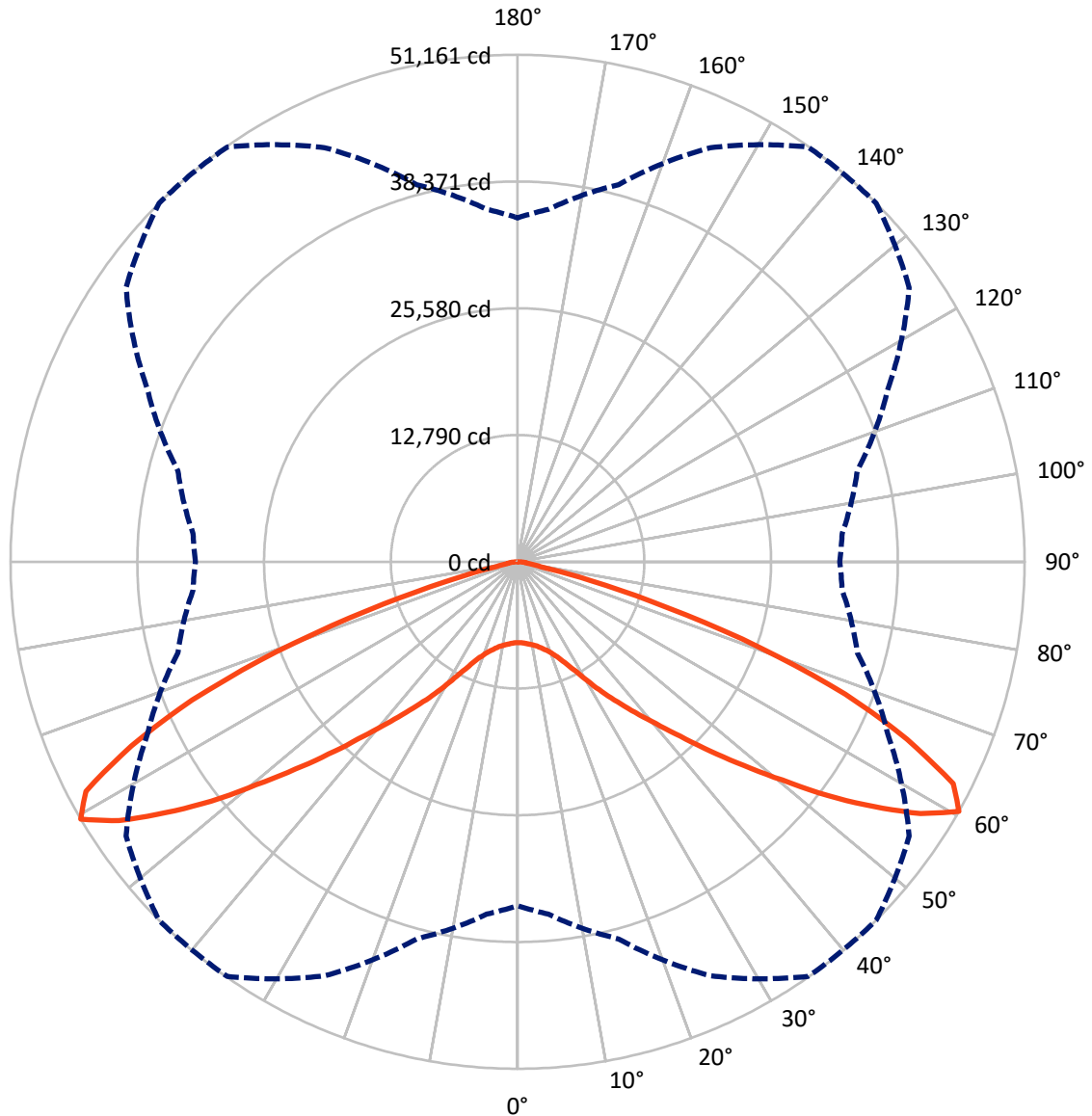
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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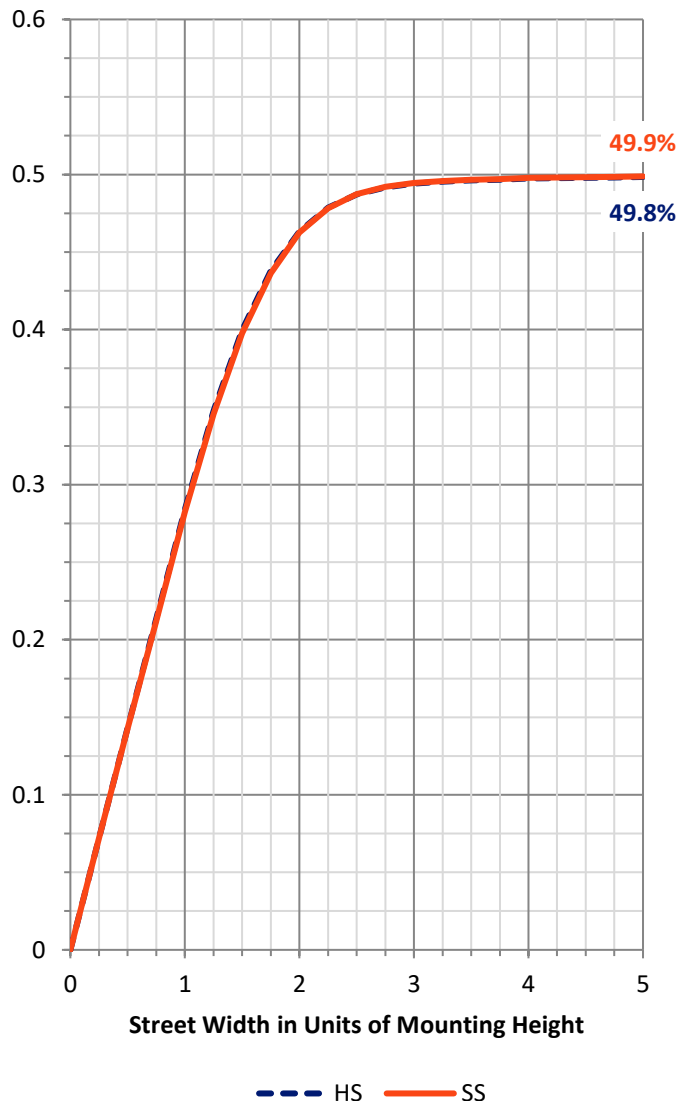
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	56767.5	0.0	56767.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	56767.5	0.0	56767.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	113535.0	0.0	113535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	797.8	0.7
10°-20°	2600.9	2.3
20°-30°	5524.0	4.9
30°-40°	11712.9	10.3
40°-50°	22274.6	19.6
50°-60°	35337.4	31.1
60°-70°	29869.5	26.3
70°-80°	4914.0	4.3
80°-90°	503.9	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°	113535.0	100.0
0°-180°	113535.0	100.0

**Coefficient of Utilization**

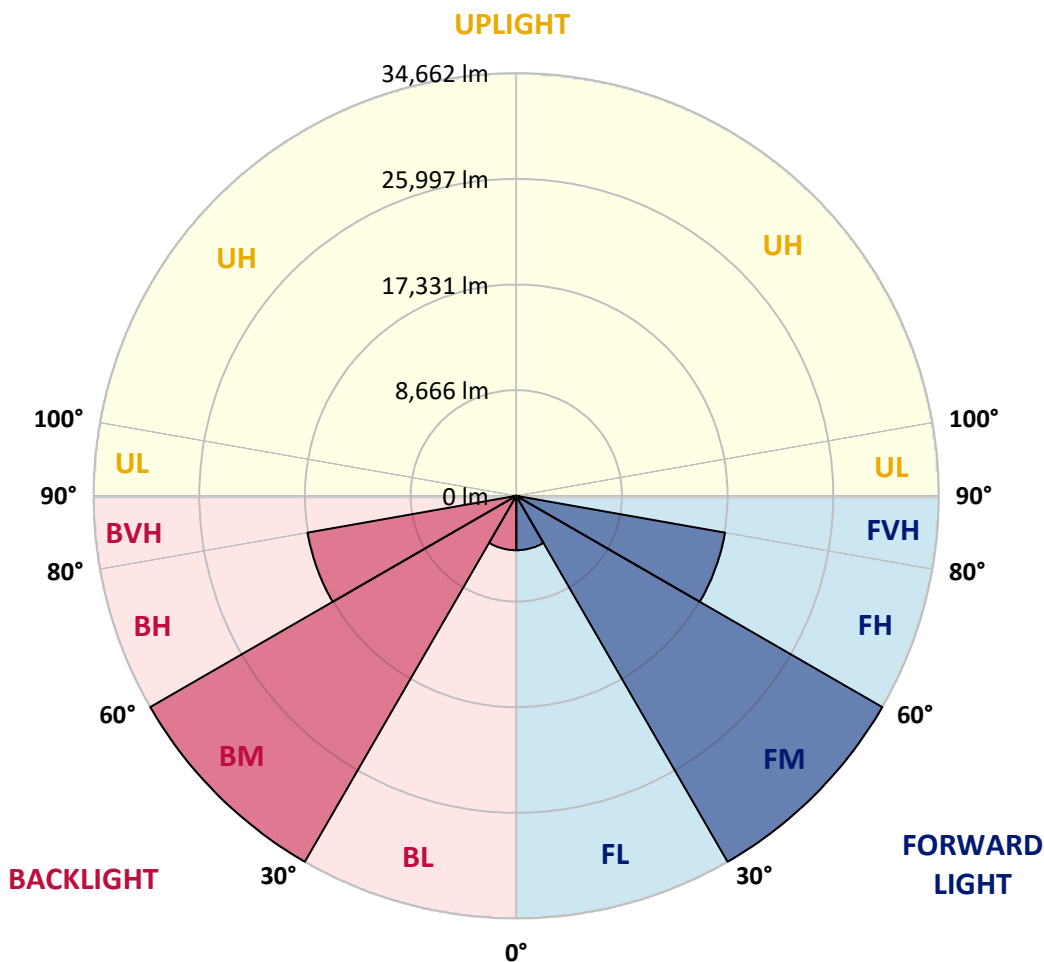


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4461.4	3.9			
FM (30°-60°)	34662.4	30.5			
FH (60°-80°)	17391.8	15.3			G5
FVH (80°-90°)	251.9	0.2			G3/500
BL (0°-30°)	4461.4	3.9	B4/5000		
BM (30°-60°)	34662.4	30.5	B5		
BH (60°-80°)	17391.8	15.3	B5		G5
BVH (80°-90°)	251.9	0.2			G3/500
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°	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4	8151.4
2.5°	8210.3	8189.9	8183.5	8175.0	8179.2	8181.4	8193.1	8194.2	8194.2	8204.9	8223.1
5°	8302.3	8275.5	8265.9	8255.2	8260.6	8265.9	8276.6	8283.0	8282.0	8288.4	8304.4
7.5°	8401.8	8392.2	8380.4	8374.0	8374.0	8389.0	8381.5	8393.2	8392.2	8399.7	8409.3
10°	8549.5	8528.1	8527.0	8515.2	8520.6	8533.4	8535.5	8533.4	8535.5	8539.8	8562.3
12.5°	8736.7	8731.4	8734.6	8724.9	8721.7	8735.6	8738.9	8752.8	8757.0	8769.9	8783.8
15°	9038.5	9004.2	8999.9	8998.9	9005.3	9026.7	9033.1	9058.8	9070.6	9088.7	9119.8
17.5°	9379.8	9391.6	9370.2	9368.0	9367.0	9384.1	9401.2	9457.9	9476.1	9517.8	9544.6
20°	9924.4	9903.0	9890.2	9838.8	9826.0	9856.0	9918.0	9992.9	10028.2	10094.6	10144.9
22.5°	10652.0	10615.7	10527.9	10466.9	10441.3	10492.6	10560.0	10679.9	10822.2	10904.6	10927.0
25°	11703.9	11560.5	11451.4	11343.3	11304.8	11380.7	11489.9	11680.3	11859.0	12023.8	12099.8
27.5°	12984.7	12893.7	12676.5	12506.4	12439.0	12503.2	12730.0	12998.6	13326.0	13497.2	13522.9
30°	14611.1	14564.0	14286.9	13968.0	13848.2	13959.5	14227.0	14592.9	15048.8	15400.8	15462.9
32.5°	16624.9	16386.3	16001.1	15636.2	15507.8	15643.7	15912.3	16437.6	17051.8	17441.3	17574.0
35°	18934.0	18664.4	18085.5	17524.8	17358.9	17376.1	17806.2	18546.7	19386.6	19930.2	20078.9
37.5°	21480.6	21205.7	20523.0	19653.1	19268.9	19297.8	19860.6	20823.7	21975.0	22567.8	22764.7
40°	24198.5	23913.9	23209.8	22229.7	21598.3	21469.9	22222.2	23394.9	24564.4	25279.2	25355.2
42.5°	26855.4	26518.3	25952.3	24972.1	24396.4	24051.9	24960.3	26022.9	27202.0	27846.2	27896.5
45°	29228.7	29163.4	28708.6	27998.1	27524.1	27219.2	27867.6	28922.6	29746.5	30154.2	30303.0
47.5°	31522.8	31482.1	31336.6	31088.4	31206.1	30698.9	31010.2	31488.5	31941.2	32240.8	32356.3
50°	33533.3	33576.1	33861.8	34284.5	35136.2	34622.6	34525.3	34010.6	34023.4	34047.0	34166.8
52.5°	35194.0	35420.9	36139.9	37415.4	39254.7	39243.0	37769.6	36410.6	35796.4	35523.6	35548.2
55°	36641.8	37030.2	38217.9	40851.2	43483.5	43615.1	41610.9	38601.0	37449.6	36867.5	36943.5
57.5°	37441.1	38032.8	40043.3	44040.9	47792.4	47950.8	45718.7	41026.7	38390.2	36916.8	36979.9
60°	34697.5	35693.7	39400.3	46098.6	51088.1	51160.9	48230.1	41217.2	35481.9	32874.2	32492.2
62.5°	28394.0	29774.4	35003.6	44504.3	49561.2	49335.4	46658.2	37648.6	29147.3	25984.4	25663.4
65°	21328.7	22626.6	28101.9	38106.6	43486.7	43189.2	40462.8	29755.1	21369.4	18011.6	17616.8
67.5°	11543.4	13503.6	18626.9	29108.8	34666.5	35675.5	31898.4	20739.1	12435.8	9016.0	8669.3
70°	3986.9	5152.1	9497.5	18272.7	25004.2	26016.5	21752.4	11122.9	5442.1	3402.7	3054.9
72.5°	1415.6	1631.8	3570.7	8824.5	14235.5	15773.2	11737.0	4473.8	1734.5	1263.7	1238.0
75°	999.4	1031.5	1269.0	2877.3	6163.3	7549.0	4627.8	1485.2	1081.8	1011.2	1004.7
77.5°	892.4	910.6	1028.3	1171.7	1883.2	2410.8	1424.2	1077.5	939.5	899.9	886.0
80°	848.5	862.4	896.7	960.9	1067.9	1110.7	960.9	921.3	854.9	837.8	832.5
82.5°	741.5	738.3	747.9	774.7	822.8	833.5	771.5	722.3	723.3	703.0	693.4
85°	501.8	531.8	509.3	481.5	597.1	600.3	559.6	419.4	476.2	466.5	426.9
87.5°	151.9	171.2	135.9	94.2	129.5	100.6	91.0	94.2	89.9	78.1	70.6
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)