

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: P510633

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510633
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-CA10-760-760-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: 113166 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

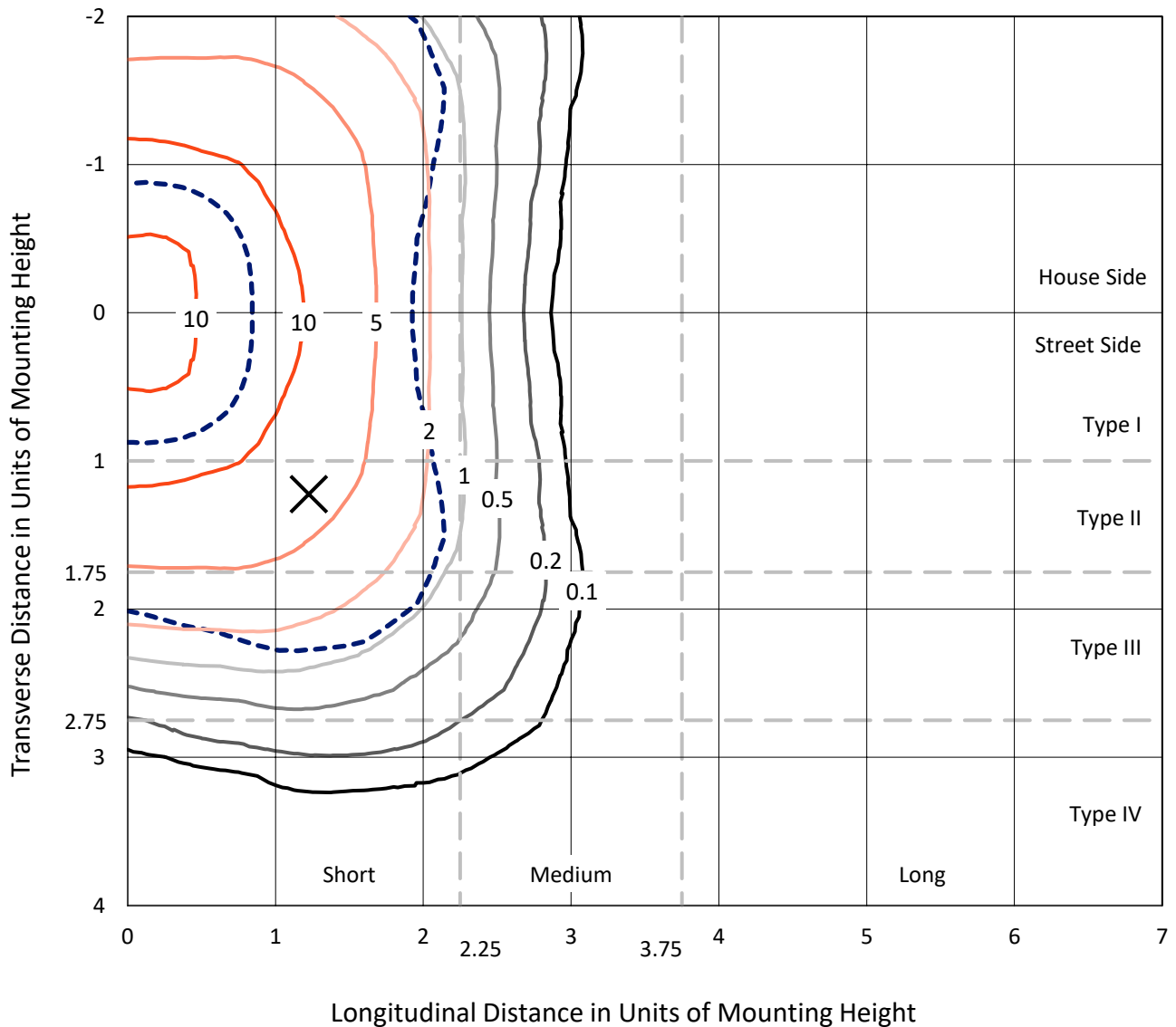
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P510633
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Iso-Footcandle Lines of Horizontal Illumination

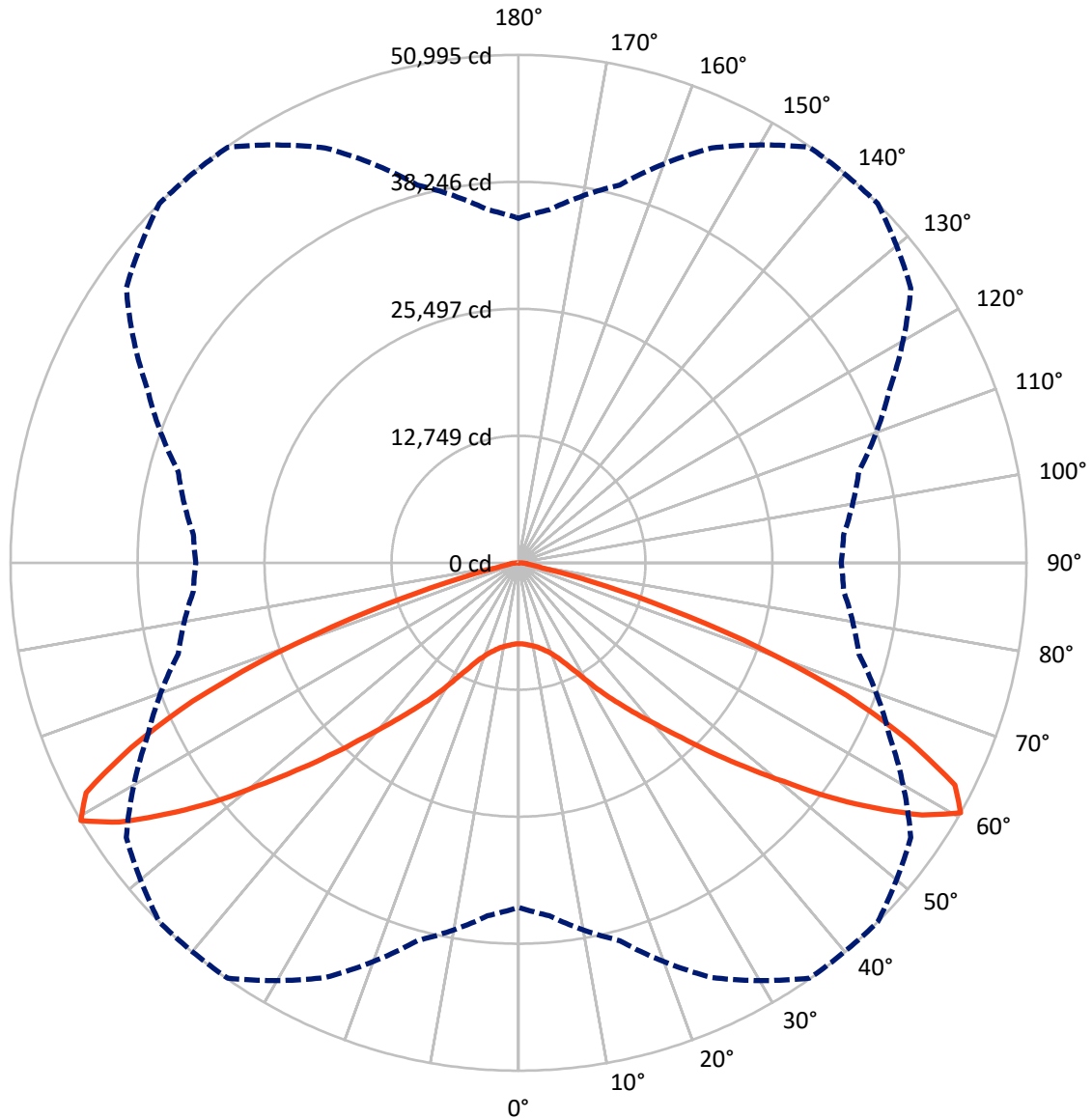
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type V - Short - N/A

REPORT NUMBER: P510633
CATALOG NUMBER: CTN-CA10-760-760-U-T5N

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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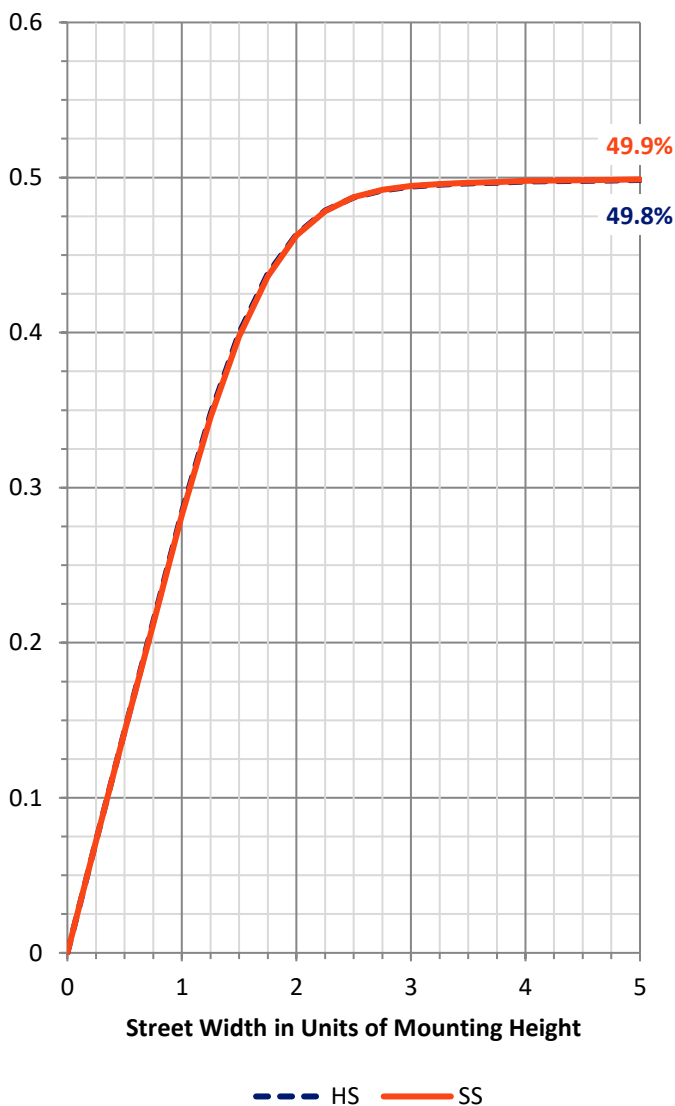
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56583.0	0.0	56583.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	56583.0	0.0	56583.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	113166.0	0.0	113166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.2	0.7
10°-20°	2592.4	2.3
20°-30°	5506.1	4.9
30°-40°	11674.8	10.3
40°-50°	22202.2	19.6
50°-60°	35222.6	31.1
60°-70°	29772.4	26.3
70°-80°	4898.0	4.3
80°-90°	502.3	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°	113166.0	100.0
0°-180°	113166.0	100.0

Coefficient of Utilization



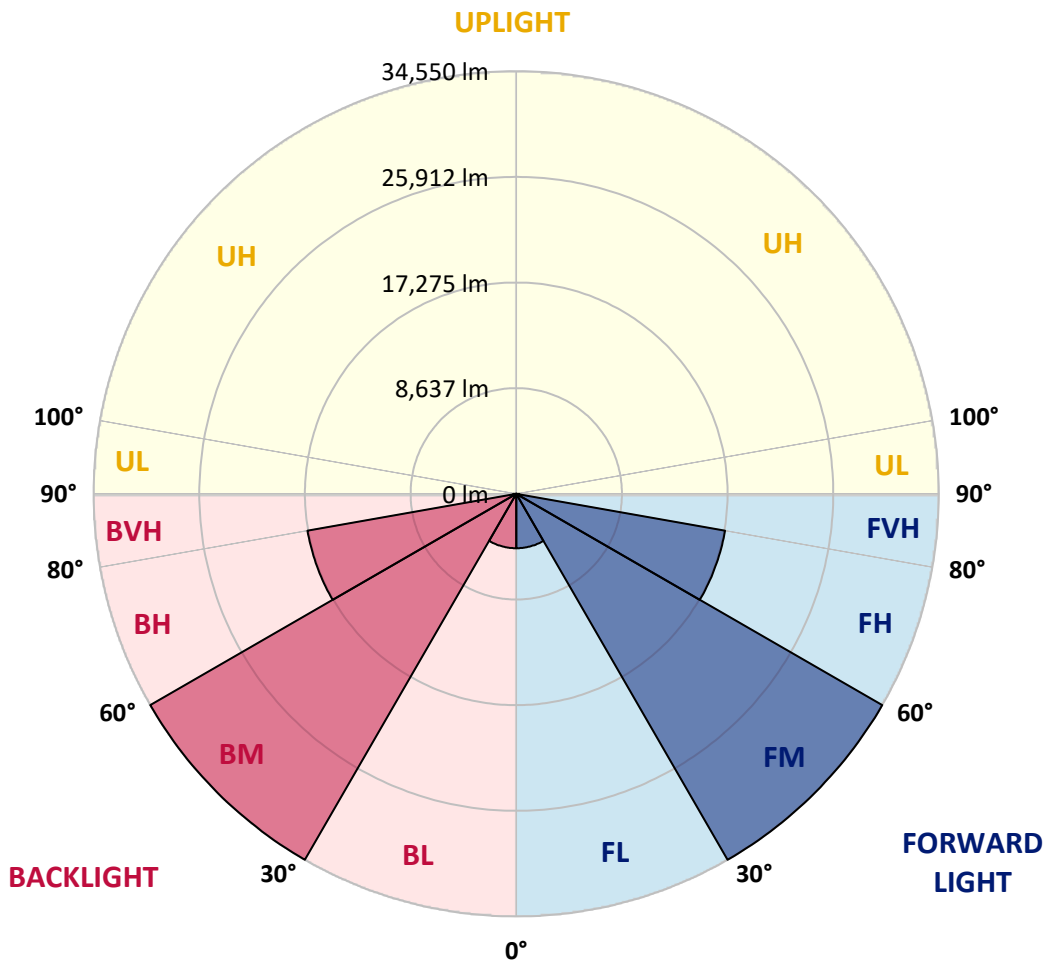
REPORT NUMBER: P510633
 CATALOG NUMBER: CTN-CA10-760-760-U-T5N

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4446.9	3.9			
FM (30°-60°)	34549.8	30.5			
FH (60°-80°)	17335.2	15.3			G5
FVH (80°-90°)	251.1	0.2			G3/500
BL (0°-30°)	4446.9	3.9	B4/5000		
BM (30°-60°)	34549.8	30.5	B5		
BH (60°-80°)	17335.2	15.3	B5		G5
BVH (80°-90°)	251.1	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





REPORT NUMBER: P510633

CATALOG NUMBER: CTN-CA10-760-760-U-T5N

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9	8124.9
2.5°	8183.6	8163.3	8156.9	8148.4	8152.6	8154.8	8166.5	8167.6	8167.6	8178.2	8196.4
5°	8275.3	8248.6	8239.0	8228.4	8233.7	8239.0	8249.7	8256.1	8255.0	8261.4	8277.4
7.5°	8374.5	8364.9	8353.2	8346.8	8346.8	8361.7	8354.2	8366.0	8364.9	8372.4	8382.0
10°	8521.7	8500.3	8499.3	8487.5	8492.9	8505.7	8507.8	8505.7	8507.8	8512.1	8534.5
12.5°	8708.3	8703.0	8706.2	8696.6	8693.4	8707.2	8710.4	8724.3	8728.6	8741.4	8755.2
15°	9009.1	8975.0	8970.7	8969.6	8976.0	8997.3	9003.7	9029.3	9041.1	9059.2	9090.1
17.5°	9349.3	9361.0	9339.7	9337.6	9336.5	9353.6	9370.6	9427.2	9445.3	9486.9	9513.6
20°	9892.2	9870.8	9858.0	9806.9	9794.1	9823.9	9885.8	9960.4	9995.6	10061.8	10111.9
22.5°	10617.4	10581.2	10493.7	10432.9	10407.3	10458.5	10525.7	10645.2	10787.0	10869.1	10891.5
25°	11665.8	11522.9	11414.1	11306.4	11268.0	11343.7	11452.5	11642.4	11820.5	11984.7	12060.5
27.5°	12942.5	12851.8	12635.3	12465.7	12398.6	12462.5	12688.7	12956.4	13282.7	13453.4	13479.0
30°	14563.6	14516.7	14240.5	13922.6	13803.2	13914.1	14180.7	14545.5	14999.8	15350.7	15412.6
32.5°	16570.9	16333.0	15949.1	15585.4	15457.4	15592.8	15860.5	16384.2	16996.4	17384.6	17516.9
35°	18872.5	18603.7	18026.7	17467.8	17302.5	17319.6	17748.3	18486.4	19323.6	19865.4	20013.7
37.5°	21410.8	21136.7	20456.3	19589.2	19206.3	19235.1	19796.1	20756.0	21903.6	22494.4	22690.7
40°	24119.8	23836.1	23134.4	22157.4	21528.2	21400.2	22149.9	23318.9	24484.6	25197.1	25272.8
42.5°	26768.1	26432.1	25867.9	24891.0	24317.2	23973.7	24879.2	25938.3	27113.6	27755.7	27805.8
45°	29133.7	29068.6	28615.3	27907.1	27434.7	27130.7	27777.0	28828.6	29649.9	30056.2	30204.5
47.5°	31420.3	31379.8	31234.8	30987.3	31104.6	30599.1	30909.5	31386.2	31837.3	32136.0	32251.2
50°	33424.4	33467.0	33751.8	34173.1	35022.0	34510.1	34413.0	33900.0	33912.8	33936.3	34055.8
52.5°	35079.6	35305.7	36022.5	37293.8	39127.2	39115.4	37646.8	36292.3	35680.1	35408.1	35432.7
55°	36522.7	36909.8	38093.7	40718.4	43342.1	43473.3	41475.7	38475.5	37327.9	36747.7	36823.4
57.5°	37319.4	37909.2	39913.2	43897.8	47637.1	47794.9	45570.1	40893.4	38265.4	36796.8	36859.7
60°	34584.8	35577.7	39272.2	45948.8	50922.1	50994.6	48073.3	41083.2	35366.5	32767.4	32386.6
62.5°	28301.8	29677.6	34889.8	44359.6	49400.1	49175.1	46506.6	37526.3	29052.6	25899.9	25579.9
65°	21259.4	22553.1	28010.6	37982.8	43345.3	43048.8	40331.3	29658.4	21299.9	17953.1	17559.5
67.5°	11505.9	13459.8	18566.4	29014.2	34553.8	35559.6	31794.7	20671.7	12395.4	8986.7	8641.1
70°	3973.9	5135.4	9466.6	18213.3	24923.0	25931.9	21681.7	11086.7	5424.4	3391.6	3045.0
72.5°	1411.0	1626.5	3559.1	8795.8	14189.3	15721.9	11698.9	4459.2	1728.9	1259.6	1234.0
75°	996.2	1028.1	1264.9	2867.9	6143.3	7524.5	4612.8	1480.4	1078.3	1007.9	1001.5
77.5°	889.5	907.6	1024.9	1167.9	1877.1	2402.9	1419.6	1074.0	936.4	897.0	883.1
80°	845.8	859.6	893.8	957.8	1064.4	1107.1	957.8	918.3	852.2	835.1	829.8
82.5°	739.1	735.9	745.5	772.2	820.2	830.8	769.0	719.9	721.0	700.7	691.1
85°	500.2	530.1	507.7	479.9	595.1	598.3	557.8	418.1	474.6	465.0	425.6
87.5°	151.4	170.6	135.5	93.9	129.1	100.3	90.7	93.9	89.6	77.9	70.4
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)