

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: P510553

Luminaire Tested: **CTN-CA10-630-740-U-T5N**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510553
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-CA10-630-740-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: 98337 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

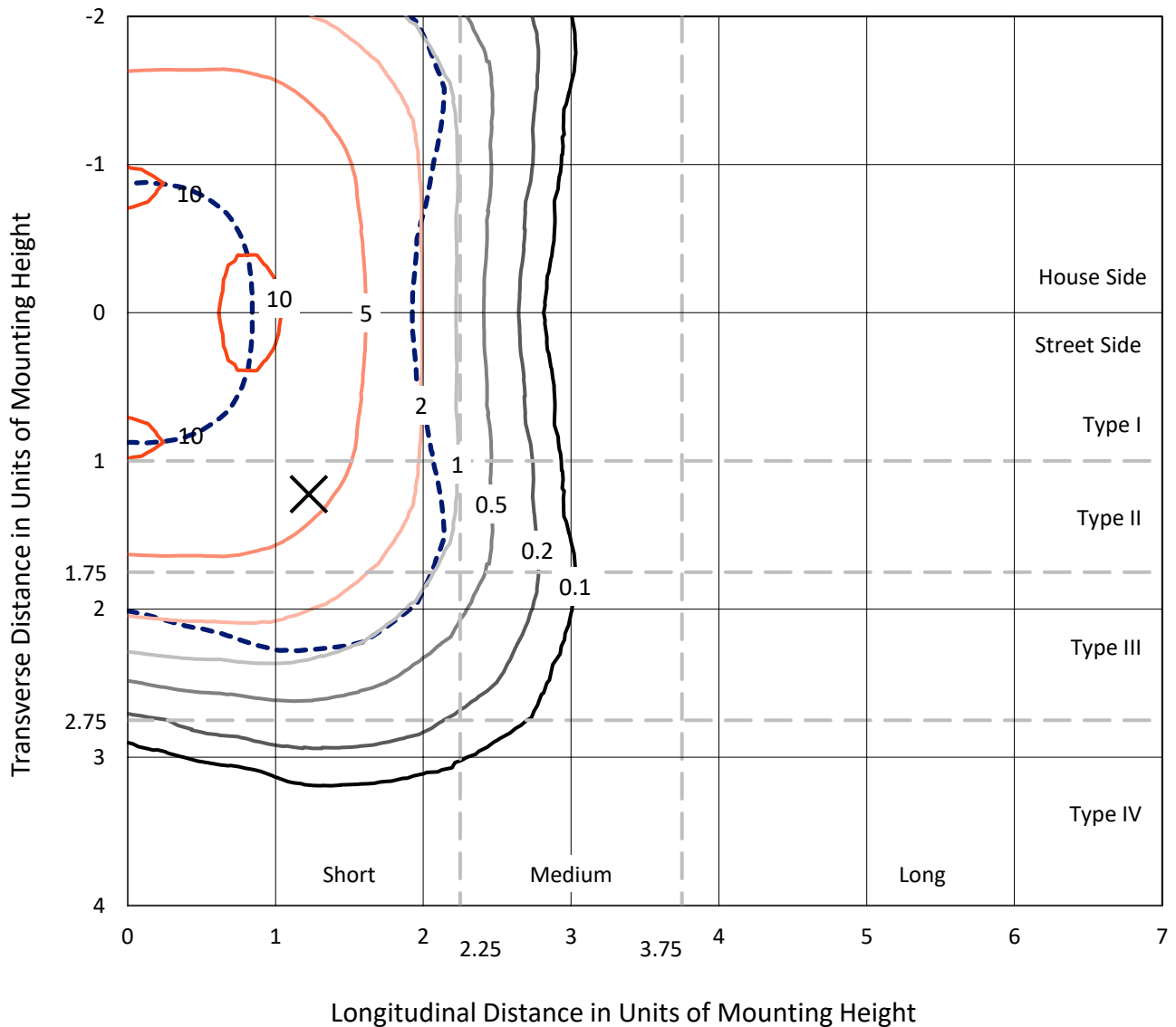
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

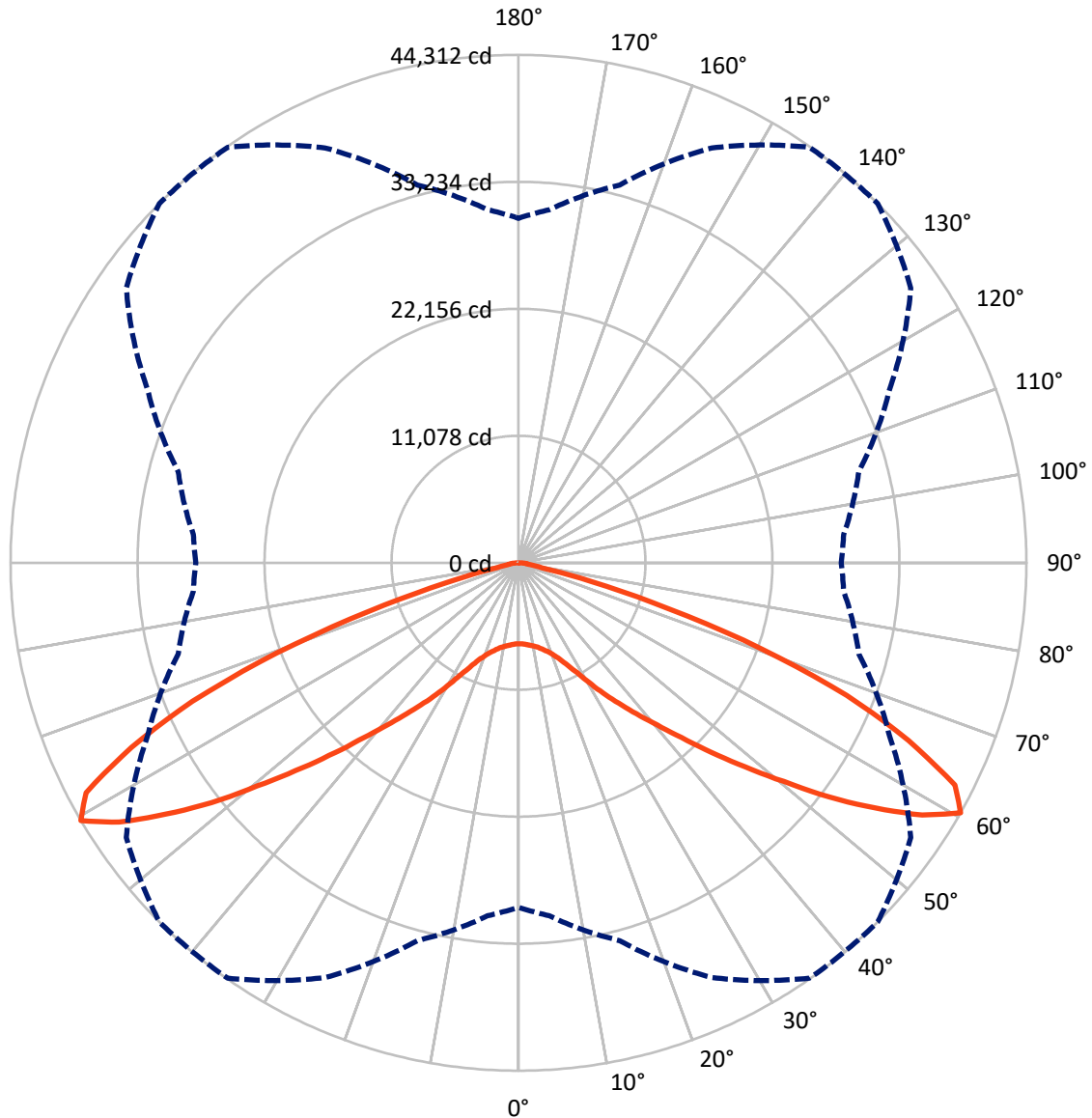
✕ Max cd
 - - - 1/2 Max cd



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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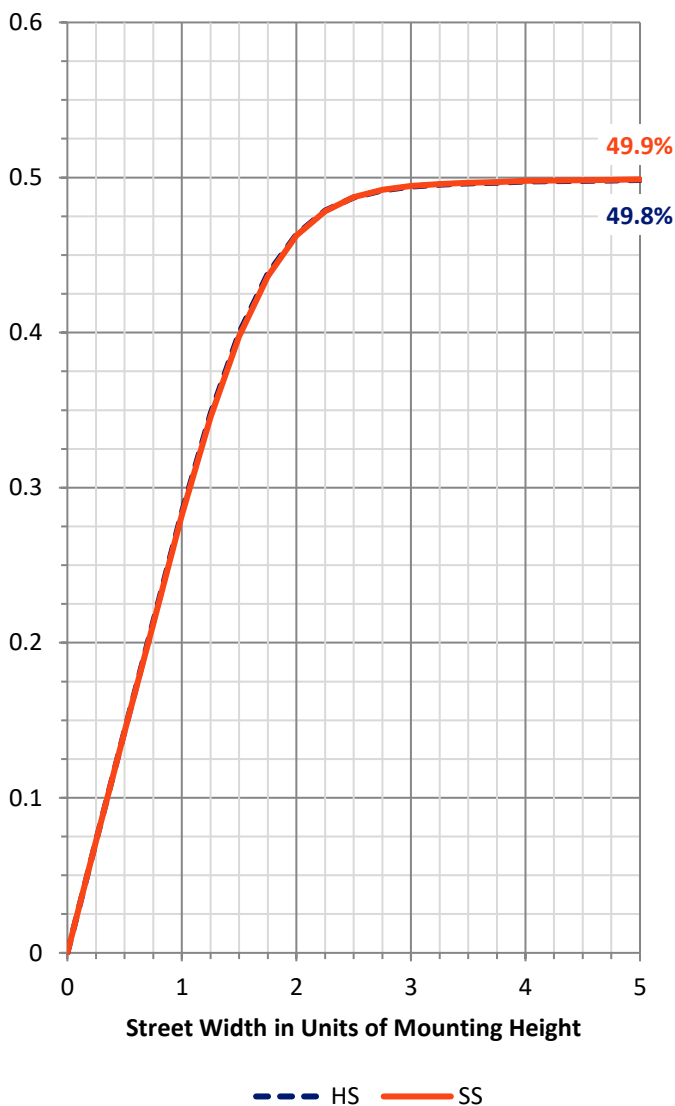
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49168.5	0.0	49168.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	49168.5	0.0	49168.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	98337.0	0.0	98337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.0	0.7
10°-20°	2252.7	2.3
20°-30°	4784.6	4.9
30°-40°	10145.0	10.3
40°-50°	19292.9	19.6
50°-60°	30607.1	31.1
60°-70°	25871.1	26.3
70°-80°	4256.2	4.3
80°-90°	436.4	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°	98337.0	100.0
0°-180°	98337.0	100.0

Coefficient of Utilization

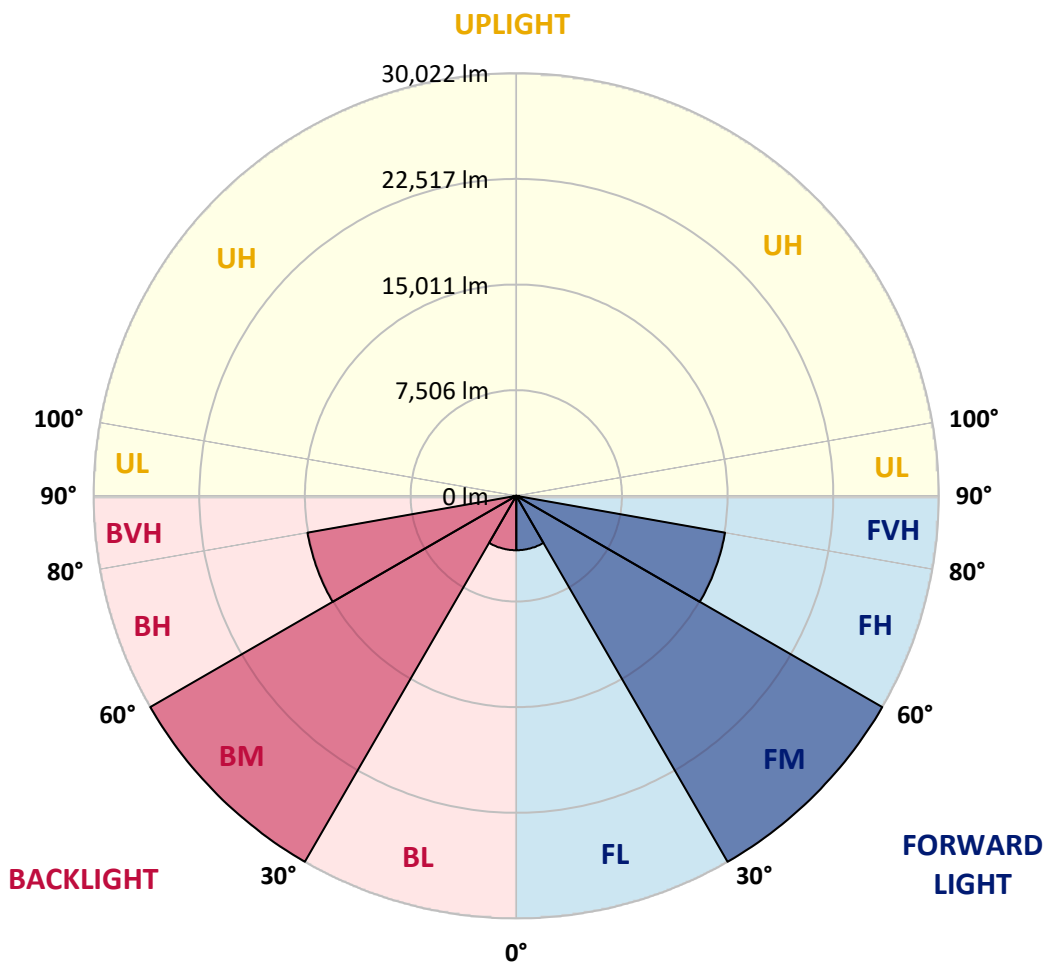


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3864.2	3.9			
FM (30°-60°)	30022.5	30.5			
FH (60°-80°)	15063.7	15.3			G5
FVH (80°-90°)	218.2	0.2			G2/225
BL (0°-30°)	3864.2	3.9	B4/5000		
BM (30°-60°)	30022.5	30.5	B5		
BH (60°-80°)	15063.7	15.3	B5		G5
BVH (80°-90°)	218.2	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°	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2
2.5°	7111.2	7093.6	7088.1	7080.6	7084.3	7086.2	7096.4	7097.3	7097.3	7106.6	7122.3
5°	7190.9	7167.8	7159.4	7150.1	7154.8	7159.4	7168.7	7174.2	7173.3	7178.9	7192.8
7.5°	7277.1	7268.8	7258.6	7253.0	7253.0	7266.0	7259.5	7269.7	7268.8	7275.3	7283.6
10°	7405.0	7386.5	7385.5	7375.4	7380.0	7391.1	7393.0	7391.1	7393.0	7396.7	7416.1
12.5°	7567.2	7562.6	7565.3	7557.0	7554.2	7566.3	7569.1	7581.1	7584.8	7595.9	7608.0
15°	7828.6	7798.9	7795.2	7794.3	7799.8	7818.4	7823.9	7846.2	7856.4	7872.1	7899.0
17.5°	8124.2	8134.4	8115.9	8114.0	8113.1	8127.9	8142.7	8191.9	8207.6	8243.8	8266.9
20°	8595.9	8577.4	8566.3	8521.8	8510.7	8536.6	8590.4	8655.2	8685.8	8743.3	8786.8
22.5°	9226.1	9194.6	9118.6	9065.8	9043.6	9088.1	9146.4	9250.2	9373.5	9444.9	9464.3
25°	10137.2	10013.0	9918.5	9824.8	9791.5	9857.3	9951.8	10116.8	10271.6	10414.3	10480.1
27.5°	11246.5	11167.8	10979.6	10832.3	10773.9	10829.5	11026.0	11258.6	11542.2	11690.5	11712.7
30°	12655.2	12614.5	12374.4	12098.3	11994.5	12090.8	12322.5	12639.5	13034.3	13339.2	13393.0
32.5°	14399.5	14192.8	13859.1	13543.1	13431.9	13549.6	13782.2	14237.3	14769.2	15106.6	15221.5
35°	16399.5	16165.9	15664.5	15178.9	15035.2	15050.1	15422.6	16064.0	16791.5	17262.3	17391.1
37.5°	18605.2	18367.0	17775.7	17022.3	16689.5	16714.6	17202.1	18036.2	19033.4	19546.8	19717.3
40°	20959.2	20712.7	20102.9	19254.0	18707.2	18595.9	19247.5	20263.2	21276.2	21895.3	21961.1
42.5°	23260.4	22968.5	22478.2	21629.3	21130.7	20832.3	21619.1	22539.4	23560.7	24118.7	24162.2
45°	25316.1	25259.5	24865.6	24250.3	23839.7	23575.6	24137.2	25051.0	25764.6	26117.7	26246.5
47.5°	27303.1	27267.9	27141.8	26926.8	27028.8	26589.5	26859.2	27273.4	27665.5	27925.0	28025.1
50°	29044.5	29081.6	29329.0	29695.1	30432.8	29988.0	29903.6	29457.9	29469.0	29489.4	29593.2
52.5°	30482.9	30679.4	31302.2	32406.9	34000.0	33989.8	32713.7	31536.6	31004.7	30768.3	30789.6
55°	31736.8	32073.2	33102.0	35382.8	37662.7	37776.7	36040.8	33433.8	32436.5	31932.4	31998.2
57.5°	32429.1	32941.6	34683.1	38145.5	41394.8	41532.0	39598.7	35534.8	33251.2	31975.0	32029.7
60°	30052.9	30915.7	34126.1	39927.7	44249.3	44312.4	41773.9	35699.8	30732.2	28473.6	28142.8
62.5°	24593.2	25788.7	30317.9	38546.8	42926.8	42731.3	40412.5	32608.9	25245.6	22506.0	22228.0
65°	18473.6	19597.8	24340.2	33005.6	37665.5	37407.8	35046.4	25772.0	18508.8	15600.6	15258.6
67.5°	9998.2	11696.0	16133.5	25212.3	30026.0	30899.9	27628.4	17962.9	10771.1	7809.1	7508.8
70°	3453.2	4462.5	8226.1	15826.7	21657.1	22533.8	18840.6	9633.9	4713.6	2947.2	2646.0
72.5°	1226.1	1413.3	3092.7	7643.2	12329.9	13661.7	10165.9	3874.9	1502.3	1094.5	1072.3
75°	865.6	893.4	1099.2	2492.1	5338.3	6538.5	4008.3	1286.4	937.0	875.8	870.3
77.5°	772.9	788.7	890.6	1014.8	1631.1	2088.0	1233.6	933.3	813.7	779.4	767.4
80°	734.9	747.0	776.6	832.3	924.9	962.0	832.3	798.0	740.5	725.7	721.0
82.5°	642.3	639.5	647.8	671.0	712.7	722.0	668.2	625.6	626.5	608.9	600.6
85°	434.7	460.6	441.1	417.1	517.1	519.9	484.7	363.3	412.4	404.1	369.8
87.5°	131.6	148.3	117.7	81.6	112.1	87.1	78.8	81.6	77.8	67.7	61.2
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)