

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: P510562

Luminaire Tested: **CTN-CA10-630-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-750-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96933 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

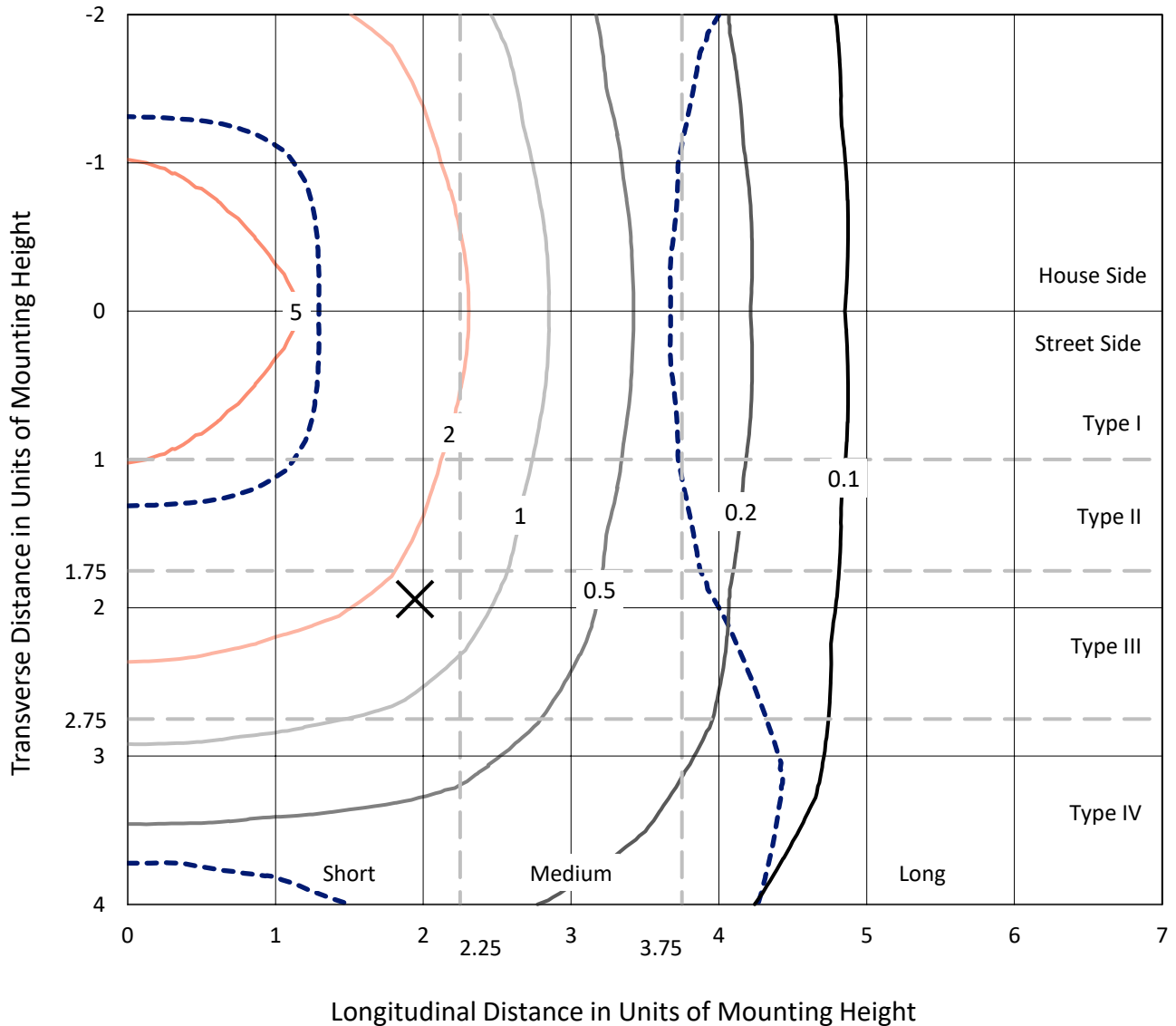
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

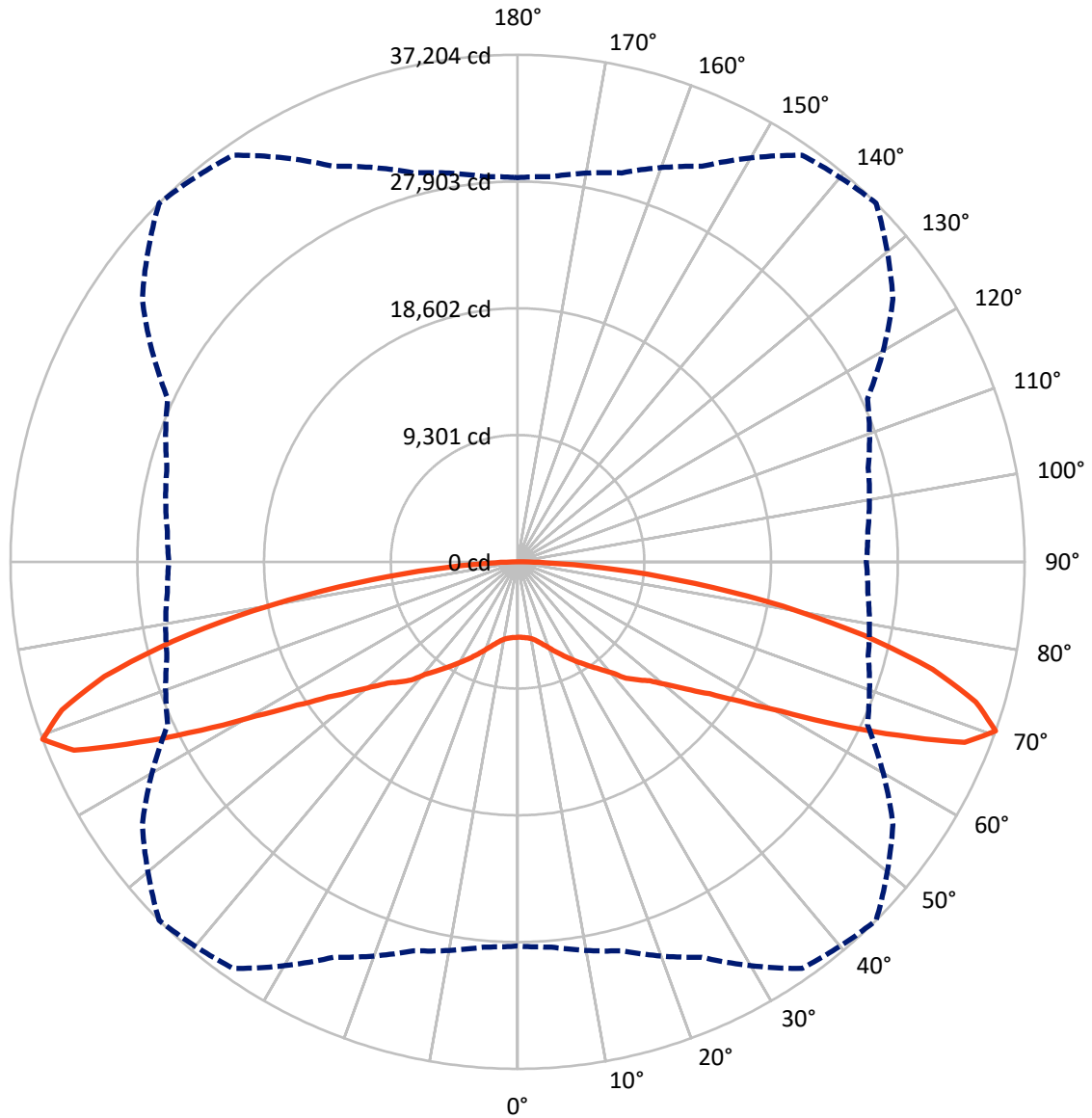
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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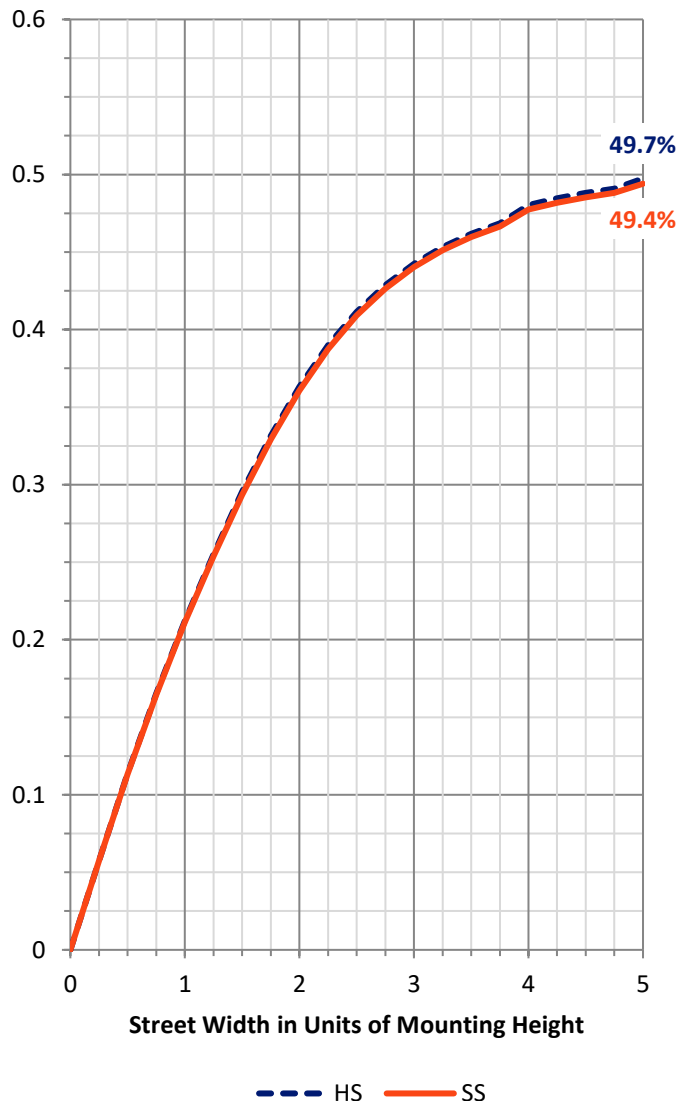
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48466.5	0.0	48466.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	48466.5	0.0	48466.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	96933.0	0.0	96933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.5	0.6
10°-20°	1753.8	1.8
20°-30°	3471.7	3.6
30°-40°	6005.9	6.2
40°-50°	9992.8	10.3
50°-60°	17429.1	18.0
60°-70°	28853.0	29.8
70°-80°	24181.1	24.9
80°-90°	4707.3	4.9
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°	96933.0	100.0
0°-180°	96933.0	100.0

Coefficient of Utilization



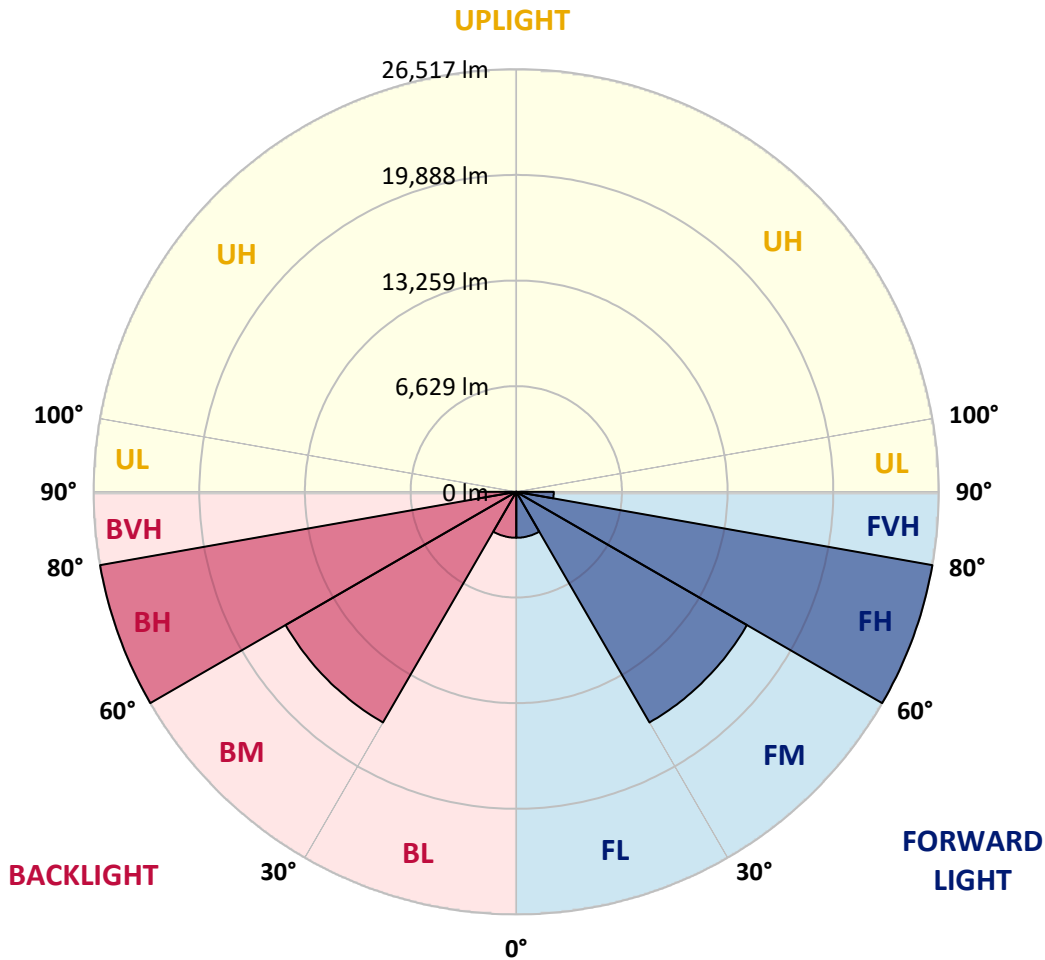
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2882.0	3.0			
FM (30°-60°)	16713.9	17.2			
FH (60°-80°)	26517.0	27.4			G5
FVH (80°-90°)	2353.6	2.4			G5
BL (0°-30°)	2882.0	3.0	B4/5000		
BM (30°-60°)	16713.9	17.2	B5		
BH (60°-80°)	26517.0	27.4	B5		G5
BVH (80°-90°)	2353.6	2.4			G5
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°	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0	5540.0
2.5°	5574.6	5557.3	5551.5	5545.8	5549.6	5547.7	5557.3	5561.1	5565.0	5582.3	5572.7
5°	5609.1	5595.7	5593.8	5586.1	5584.2	5584.2	5597.6	5599.5	5601.5	5613.0	5601.5
7.5°	5672.5	5659.0	5655.2	5651.4	5649.4	5641.8	5651.4	5647.5	5651.4	5657.1	5643.7
10°	5772.3	5756.9	5753.1	5743.5	5749.3	5737.8	5745.4	5735.8	5718.6	5722.4	5703.2
12.5°	5908.6	5895.2	5900.9	5899.0	5922.0	5916.3	5900.9	5881.7	5852.9	5833.7	5812.6
15°	6110.2	6089.0	6104.4	6119.8	6142.8	6152.4	6140.9	6089.0	6046.8	6016.1	5998.8
17.5°	6355.9	6321.3	6352.0	6382.7	6432.7	6442.3	6400.0	6336.7	6290.6	6277.2	6248.4
20°	6641.9	6636.1	6638.1	6688.0	6764.7	6778.2	6722.5	6647.7	6601.6	6603.5	6570.9
22.5°	6987.4	6956.7	6966.3	7016.2	7125.6	7162.1	7070.0	6987.4	6958.6	6966.3	6962.5
25°	7382.9	7354.1	7340.6	7363.7	7505.7	7569.1	7480.8	7384.8	7371.3	7388.6	7361.8
27.5°	7816.7	7789.8	7774.5	7786.0	7897.3	8016.3	7918.4	7837.8	7835.9	7860.9	7845.5
30°	8310.0	8269.7	8252.5	8265.9	8342.7	8457.9	8379.1	8331.2	8371.5	8388.7	8383.0
32.5°	8809.1	8789.9	8784.2	8780.4	8874.4	8939.7	8901.3	8910.9	8943.5	9022.2	8997.3
35°	9377.4	9321.7	9337.0	9348.6	9471.4	9477.2	9481.0	9498.3	9584.7	9696.0	9630.7
37.5°	9968.6	9955.2	9964.8	9932.1	10022.3	10058.8	10112.6	10170.2	10306.5	10435.1	10408.2
40°	10700.0	10675.0	10684.6	10646.2	10690.4	10719.2	10828.6	10953.4	11128.0	11266.3	11202.9
42.5°	11669.4	11606.0	11606.0	11617.6	11709.7	11679.0	11913.2	11947.7	12164.6	12281.7	12245.3
45°	12809.6	12786.6	12665.7	12462.2	12347.0	12345.1	12533.2	12813.5	13172.4	13416.2	13414.3
47.5°	14259.0	14187.9	13898.1	13408.6	13116.8	13045.8	13243.5	13788.6	14449.0	14829.1	14823.3
50°	16159.4	16069.2	15629.6	14869.4	14301.2	14126.5	14443.2	15149.7	16038.4	16545.2	16587.5
52.5°	18286.3	18294.0	17796.8	16647.0	15806.2	15491.3	15827.3	16837.0	17944.6	18639.5	18722.1
55°	20756.9	20697.4	20227.1	18923.6	17766.1	17090.4	17599.1	18937.1	20209.8	20739.6	20885.5
57.5°	23329.2	23096.9	22736.0	21517.0	20163.7	19299.9	19910.3	21219.5	22438.5	23114.2	23091.1
60°	25609.7	25456.1	25248.8	24277.5	23238.9	22252.3	22722.6	23830.2	24874.5	25283.3	25300.6
62.5°	28101.3	27972.7	27786.5	27254.8	26682.7	26316.1	25889.9	26402.5	27218.3	27665.6	27811.5
65°	30546.9	30500.9	30608.4	30527.7	30769.6	30715.9	29694.6	29372.1	29385.6	29258.9	29193.6
67.5°	30403.0	30385.7	31019.2	32282.3	34693.3	35376.7	32756.4	29838.6	28523.7	28189.6	28141.7
70°	28185.8	28372.0	29544.9	32017.4	36417.1	37204.2	33616.4	28320.2	26638.6	25801.6	25594.3
72.5°	23920.4	24285.1	26083.8	29725.3	34985.1	35165.6	31454.9	26035.8	23559.5	22561.3	22413.5
75°	18457.2	18503.2	20344.2	24972.4	31222.7	31449.2	28059.1	21837.6	19401.6	18159.6	18121.2
77.5°	11241.3	11895.9	14581.4	18724.0	24820.7	25999.4	23467.4	17393.7	14497.0	13397.0	12782.8
80°	5515.1	5814.5	7749.5	11838.3	17741.1	19716.4	17414.8	12030.3	8941.6	7546.0	7392.5
82.5°	2510.9	2670.2	3666.5	6188.9	10705.7	13153.2	10748.0	6889.5	4774.1	3733.7	3699.1
85°	975.2	969.4	1483.9	2597.2	5125.4	7283.0	5442.1	3286.4	2184.5	1624.0	1531.9
87.5°	284.1	303.3	435.8	852.3	1518.4	2046.3	1677.7	1136.4	671.9	431.9	397.4
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)