

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: P510852

Luminaire Tested: **CTN-CA8-480-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510852
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-CA8-480-740-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73314 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

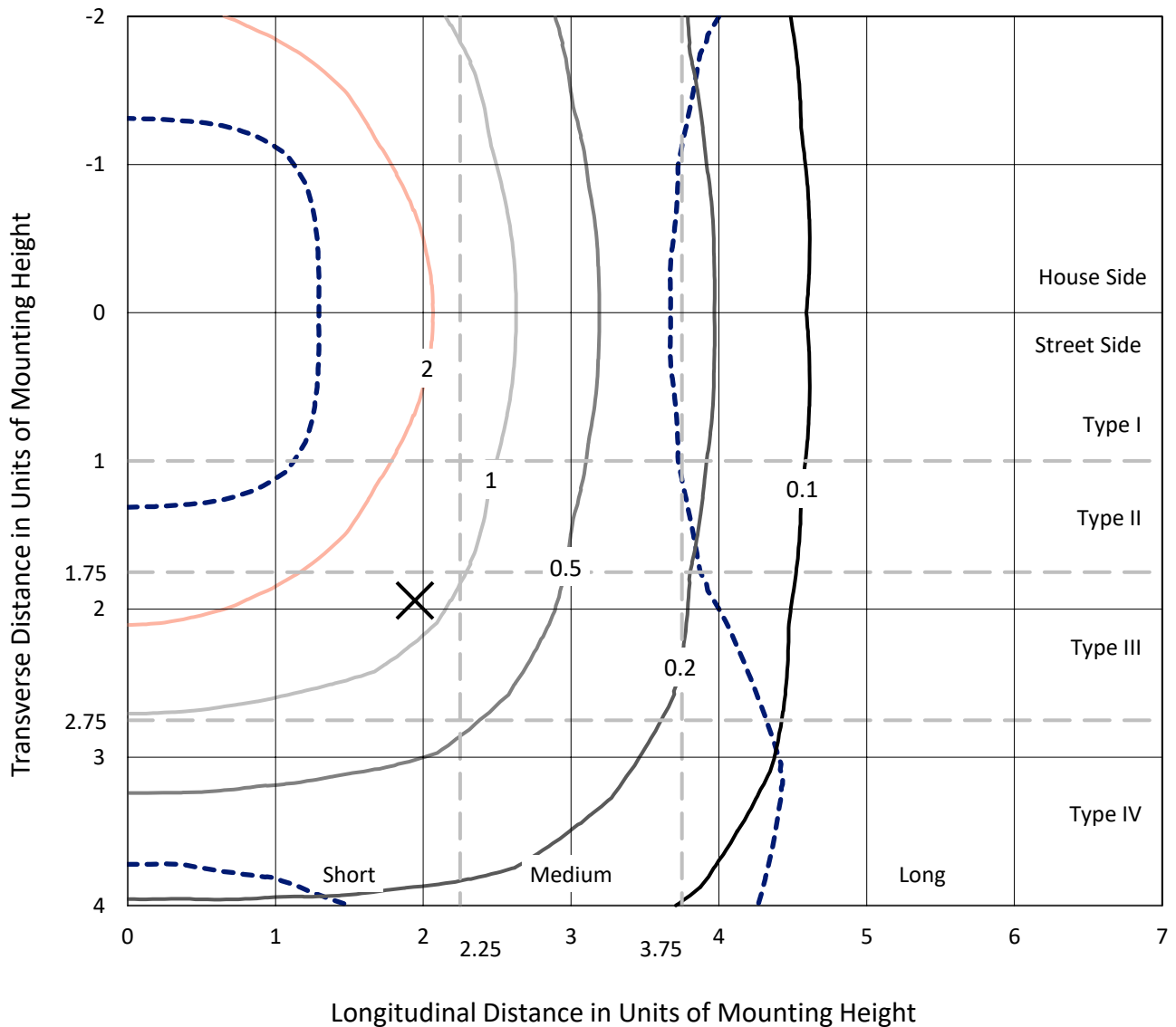
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

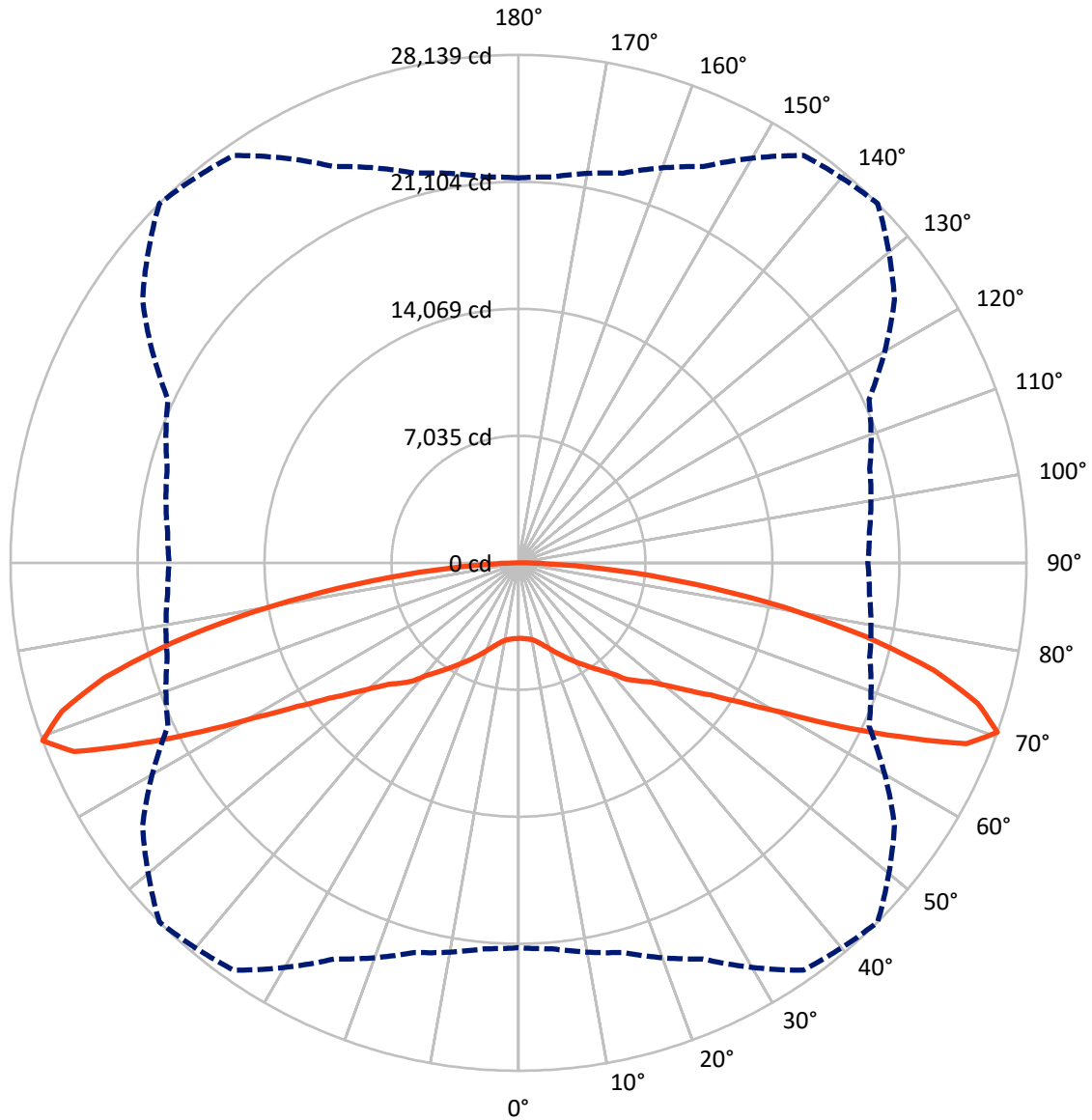
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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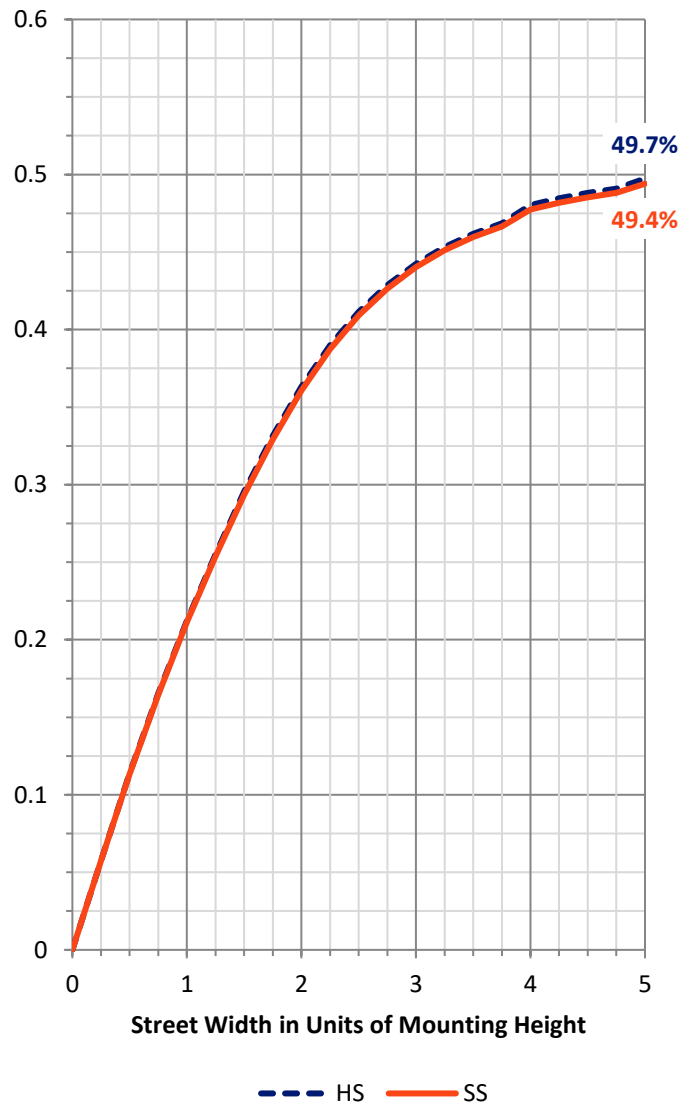
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36657.0	0.0	36657.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36657.0	0.0	36657.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	73314.0	0.0	73314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	0.6
10°-20°	1326.4	1.8
20°-30°	2625.8	3.6
30°-40°	4542.4	6.2
40°-50°	7557.9	10.3
50°-60°	13182.2	18.0
60°-70°	21822.6	29.8
70°-80°	18289.0	24.9
80°-90°	3560.3	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°	73314.0	100.0
0°-180°	73314.0	100.0

Coefficient of Utilization

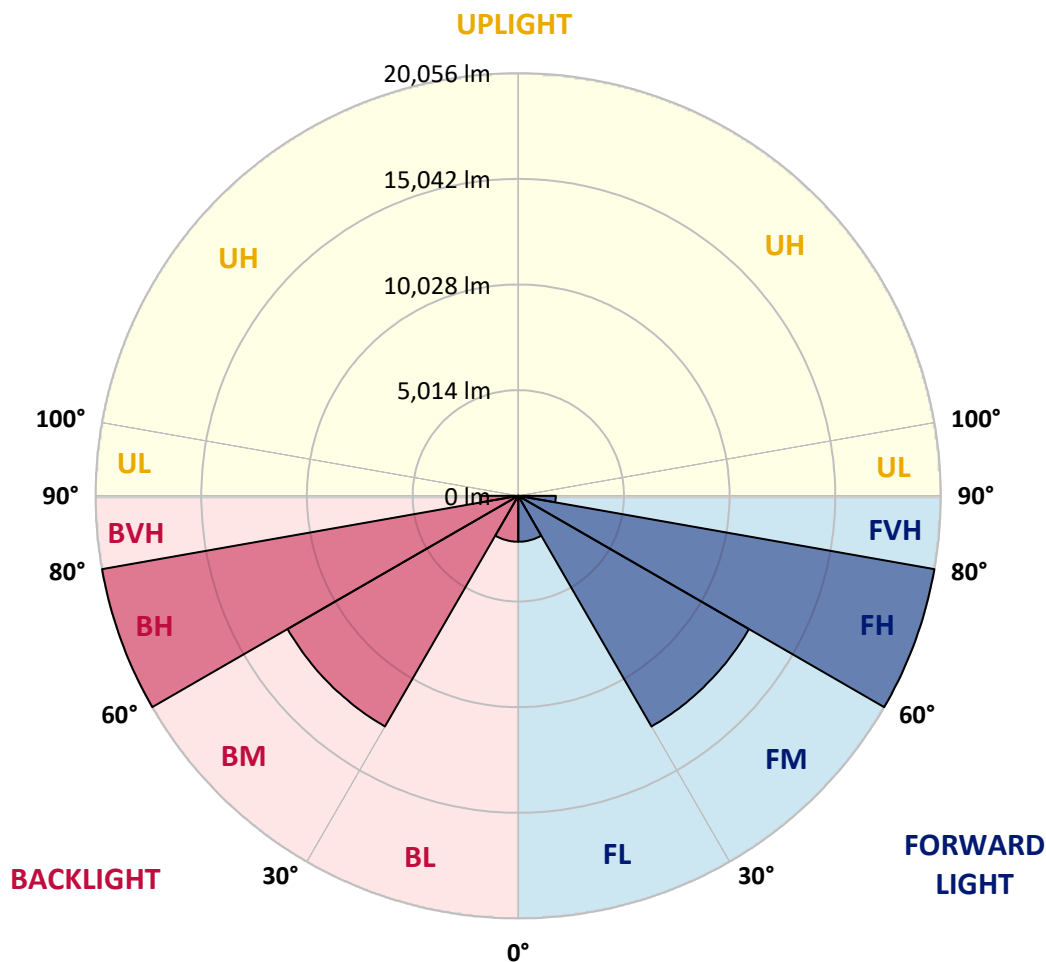


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.8	3.0			
FM (30°-60°)	12641.3	17.2			
FH (60°-80°)	20055.8	27.4			G5
FVH (80°-90°)	1780.1	2.4			G5
BL (0°-30°)	2179.8	3.0	B3/2500		
BM (30°-60°)	12641.3	17.2	B5		
BH (60°-80°)	20055.8	27.4	B5		G5
BVH (80°-90°)	1780.1	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°	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1
2.5°	4216.3	4203.2	4198.8	4194.5	4197.4	4195.9	4203.2	4206.1	4209.0	4222.1	4214.8
5°	4242.4	4232.2	4230.8	4225.0	4223.5	4223.5	4233.7	4235.1	4236.6	4245.3	4236.6
7.5°	4290.3	4280.1	4277.2	4274.3	4272.9	4267.1	4274.3	4271.4	4274.3	4278.7	4268.5
10°	4365.8	4354.2	4351.3	4344.0	4348.4	4339.7	4345.5	4338.2	4325.2	4328.1	4313.5
12.5°	4468.9	4458.7	4463.1	4461.6	4479.1	4474.7	4463.1	4448.6	4426.8	4412.3	4396.3
15°	4621.3	4605.4	4617.0	4628.6	4646.0	4653.3	4644.6	4605.4	4573.4	4550.2	4537.1
17.5°	4807.2	4781.0	4804.3	4827.5	4865.3	4872.5	4840.6	4792.7	4757.8	4747.7	4725.9
20°	5023.5	5019.2	5020.6	5058.4	5116.4	5126.6	5084.5	5027.9	4993.0	4994.5	4969.8
22.5°	5284.8	5261.6	5268.9	5306.6	5389.4	5417.0	5347.3	5284.8	5263.1	5268.9	5266.0
25°	5583.9	5562.2	5552.0	5569.4	5676.9	5724.8	5658.0	5585.4	5575.2	5588.3	5568.0
27.5°	5912.1	5891.7	5880.1	5888.8	5973.0	6063.1	5989.0	5928.0	5926.6	5945.5	5933.8
30°	6285.2	6254.7	6241.6	6251.8	6309.9	6397.0	6337.5	6301.2	6331.7	6344.7	6340.4
32.5°	6662.7	6648.2	6643.8	6640.9	6712.0	6761.4	6732.4	6739.6	6764.3	6823.8	6805.0
35°	7092.4	7050.3	7061.9	7070.7	7163.6	7167.9	7170.8	7183.9	7249.2	7333.5	7284.1
37.5°	7539.6	7529.5	7536.7	7512.0	7580.3	7607.9	7648.5	7692.1	7795.1	7892.4	7872.1
40°	8092.8	8073.9	8081.2	8052.1	8085.5	8107.3	8190.1	8284.4	8416.6	8521.1	8473.2
42.5°	8826.0	8778.1	8778.1	8786.8	8856.5	8833.2	9010.4	9036.5	9200.6	9289.1	9261.5
45°	9688.4	9671.0	9579.5	9425.6	9338.5	9337.0	9479.3	9691.3	9962.8	10147.2	10145.7
47.5°	10784.6	10730.9	10511.6	10141.4	9920.7	9867.0	10016.5	10428.9	10928.3	11215.8	11211.4
50°	12221.9	12153.7	11821.2	11246.3	10816.5	10684.4	10924.0	11458.2	12130.5	12513.8	12545.7
52.5°	13830.6	13836.4	13460.4	12590.7	11954.8	11716.7	11970.8	12734.4	13572.2	14097.8	14160.2
55°	15699.2	15654.2	15298.5	14312.6	13437.2	12926.1	13310.8	14322.8	15285.4	15686.1	15796.5
57.5°	17644.7	17469.0	17196.1	16274.1	15250.6	14597.2	15058.9	16049.1	16971.0	17482.1	17464.7
60°	19369.5	19253.4	19096.6	18361.9	17576.5	16830.2	17185.9	18023.6	18813.5	19122.7	19135.8
62.5°	21254.1	21156.8	21016.0	20613.8	20181.1	19903.8	19581.5	19969.2	20586.2	20924.5	21034.8
65°	23103.8	23068.9	23150.2	23089.3	23272.2	23231.5	22459.1	22215.2	22225.4	22129.6	22080.2
67.5°	22994.9	22981.8	23460.9	24416.3	26239.8	26756.7	24774.9	22568.0	21573.5	21320.9	21284.6
70°	21318.0	21458.8	22345.9	24215.9	27543.6	28138.9	25425.3	21419.6	20147.8	19514.7	19357.9
72.5°	18091.9	18367.7	19728.2	22482.4	26460.5	26597.0	23790.5	19691.9	17818.9	17064.0	16952.2
75°	13959.8	13994.7	15387.0	18887.5	23614.8	23786.2	21222.1	16516.6	14674.2	13734.8	13705.8
77.5°	8502.2	8997.3	11028.5	14161.6	18772.8	19664.3	17749.2	13155.5	10964.6	10132.7	9668.1
80°	4171.3	4397.7	5861.2	8953.7	13418.3	14912.3	13171.5	9098.9	6762.9	5707.3	5591.2
82.5°	1899.1	2019.6	2773.1	4680.9	8097.1	9948.3	8129.1	5210.8	3610.8	2823.9	2797.8
85°	737.6	733.2	1122.3	1964.4	3876.5	5508.4	4116.1	2485.6	1652.2	1228.3	1158.6
87.5°	214.9	229.4	329.6	644.6	1148.4	1547.7	1268.9	859.5	508.2	326.7	300.5
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)