

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: P510492

Luminaire Tested: **CTN-CA10-310-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510492
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-CA10-310-740-U-T5
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: 49984 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

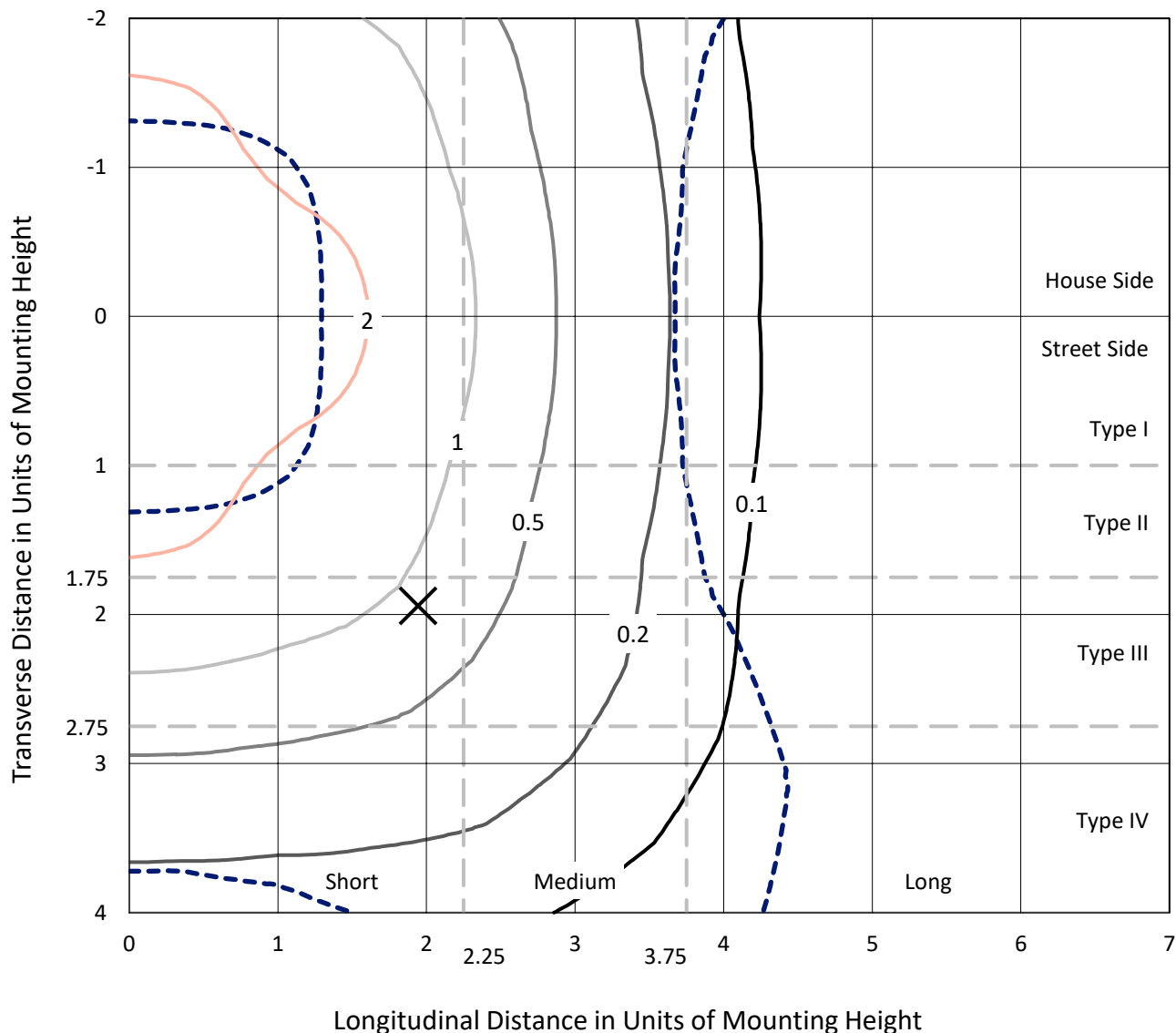
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

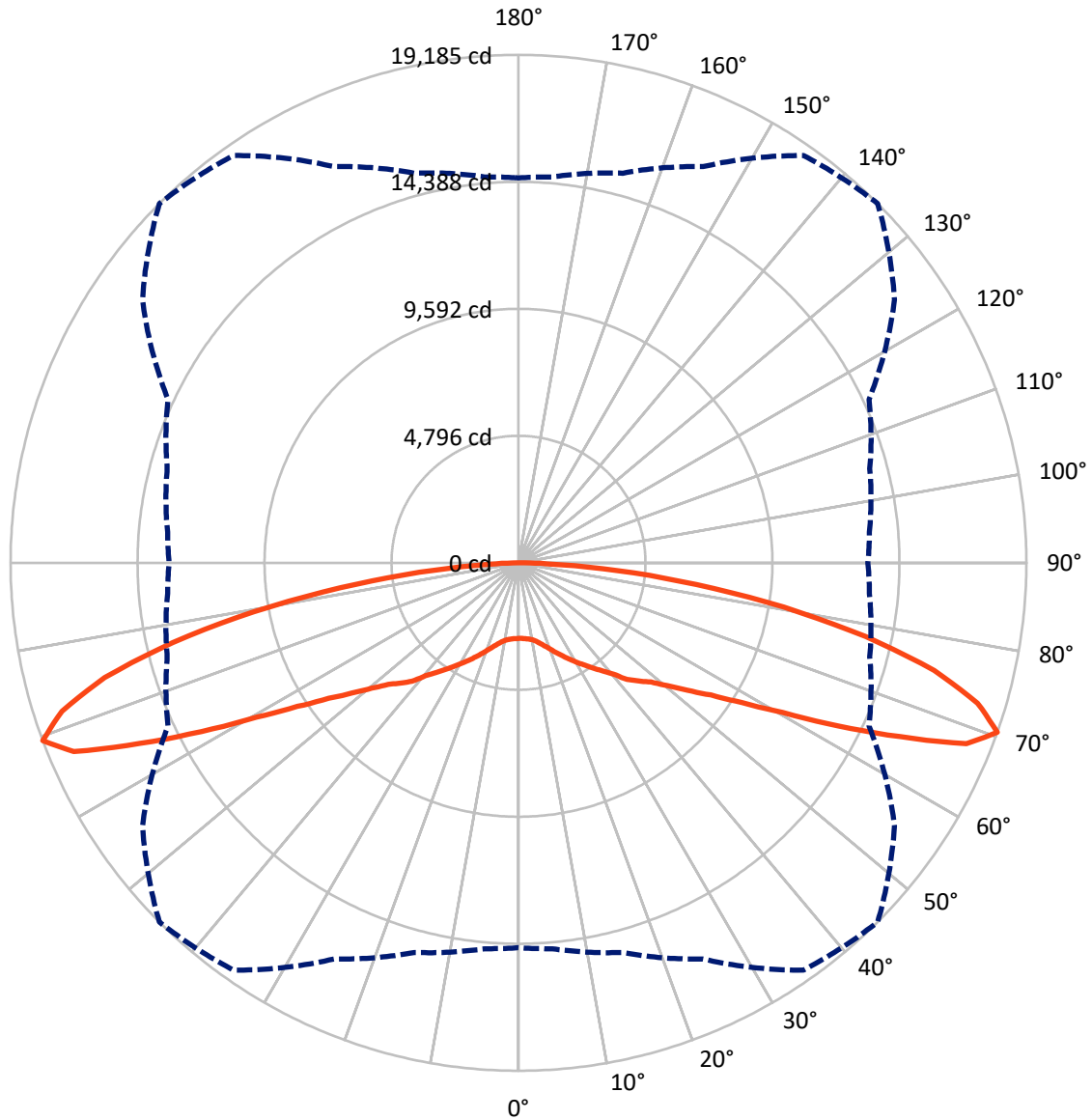
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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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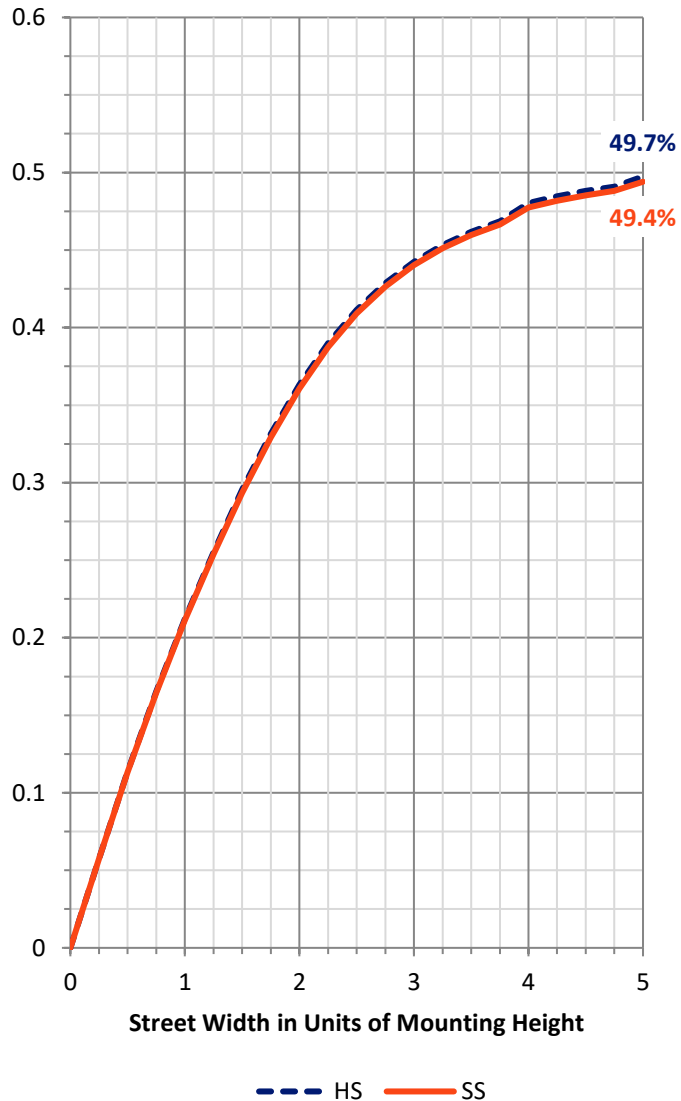
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24992.0	0.0	24992.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24992.0	0.0	24992.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49984.0	0.0	49984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	0.6
10°-20°	904.3	1.8
20°-30°	1790.2	3.6
30°-40°	3097.0	6.2
40°-50°	5152.8	10.3
50°-60°	8987.4	18.0
60°-70°	14878.2	29.8
70°-80°	12469.1	24.9
80°-90°	2427.3	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°	49984.0	100.0
0°-180°	49984.0	100.0

Coefficient of Utilization



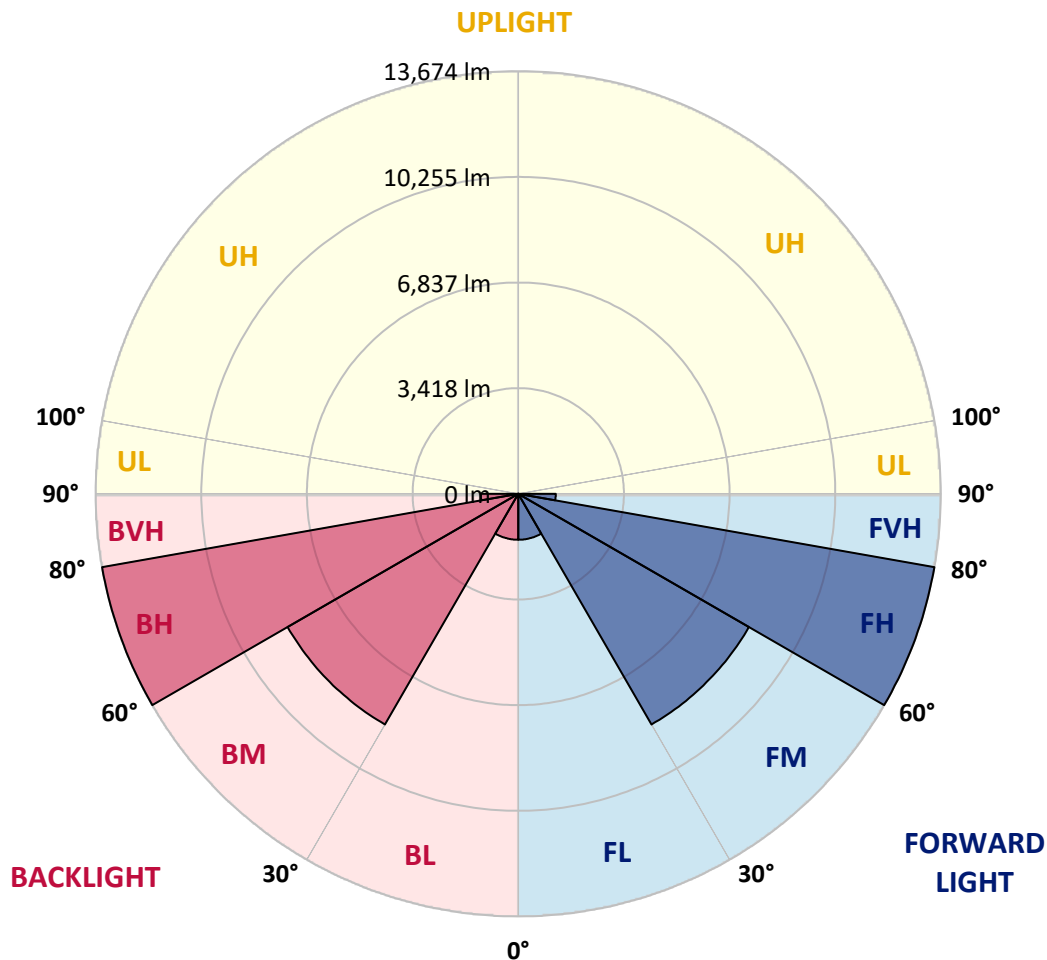
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.1	3.0			
FM (30°-60°)	8618.6	17.2			
FH (60°-80°)	13673.6	27.4			G5
FVH (80°-90°)	1213.7	2.4			G5
BL (0°-30°)	1486.1	3.0	B3/2500		
BM (30°-60°)	8618.6	17.2	B5		
BH (60°-80°)	13673.6	27.4	B5		G5
BVH (80°-90°)	1213.7	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°	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7	2856.7
2.5°	2874.6	2865.7	2862.7	2859.7	2861.7	2860.7	2865.7	2867.6	2869.6	2878.5	2873.6
5°	2892.4	2885.5	2884.5	2880.5	2879.5	2879.5	2886.4	2887.4	2888.4	2894.4	2888.4
7.5°	2925.0	2918.1	2916.1	2914.2	2913.2	2909.2	2914.2	2912.2	2914.2	2917.1	2910.2
10°	2976.5	2968.6	2966.6	2961.7	2964.6	2958.7	2962.7	2957.7	2948.8	2950.8	2940.9
12.5°	3046.8	3039.9	3042.8	3041.8	3053.7	3050.8	3042.8	3032.9	3018.1	3008.2	2997.3
15°	3150.7	3139.8	3147.8	3155.7	3167.6	3172.5	3166.6	3139.8	3118.1	3102.2	3093.3
17.5°	3277.4	3259.6	3275.5	3291.3	3317.0	3322.0	3300.2	3267.5	3243.8	3236.9	3222.0
20°	3424.9	3422.0	3422.9	3448.7	3488.3	3495.2	3466.5	3427.9	3404.1	3405.1	3388.3
22.5°	3603.1	3587.3	3592.2	3617.9	3674.4	3693.2	3645.7	3603.1	3588.3	3592.2	3590.2
25°	3807.0	3792.2	3785.2	3797.1	3870.4	3903.0	3857.5	3808.0	3801.1	3810.0	3796.1
27.5°	4030.7	4016.9	4008.9	4014.9	4072.3	4133.7	4083.2	4041.6	4040.6	4053.5	4045.6
30°	4285.1	4264.3	4255.4	4262.3	4301.9	4361.3	4320.8	4296.0	4316.8	4325.7	4322.7
32.5°	4542.5	4532.6	4529.6	4527.6	4576.1	4609.8	4590.0	4594.9	4611.8	4652.4	4639.5
35°	4835.5	4806.8	4814.7	4820.6	4884.0	4887.0	4888.9	4897.8	4942.4	4999.8	4966.1
37.5°	5140.4	5133.4	5138.4	5121.6	5168.1	5186.9	5214.6	5244.3	5314.6	5380.9	5367.0
40°	5517.5	5504.6	5509.6	5489.8	5512.5	5527.4	5583.8	5648.2	5738.2	5809.5	5776.8
42.5°	6017.4	5984.7	5984.7	5990.7	6038.2	6022.3	6143.1	6160.9	6272.8	6333.1	6314.3
45°	6605.4	6593.5	6531.1	6426.2	6366.8	6365.8	6462.8	6607.3	6792.4	6918.2	6917.2
47.5°	7352.7	7316.1	7166.6	6914.2	6763.7	6727.1	6829.1	7110.2	7450.7	7646.7	7643.7
50°	8332.7	8286.1	8059.5	7667.5	7374.5	7284.4	7447.7	7812.0	8270.3	8531.6	8553.4
52.5°	9429.4	9433.4	9177.0	8584.1	8150.5	7988.2	8161.4	8682.1	9253.2	9611.6	9654.1
55°	10703.4	10672.7	10430.2	9758.1	9161.2	8812.7	9075.1	9765.0	10421.3	10694.5	10769.7
57.5°	12029.8	11910.0	11723.9	11095.4	10397.5	9952.1	10266.9	10941.9	11570.5	11918.9	11907.1
60°	13205.8	13126.6	13019.7	12518.8	11983.3	11474.5	11717.0	12288.2	12826.6	13037.5	13046.4
62.5°	14490.6	14424.3	14328.3	14054.1	13759.1	13570.0	13350.3	13614.6	14035.3	14265.9	14341.1
65°	15751.7	15727.9	15783.4	15741.8	15866.5	15838.8	15312.2	15145.9	15152.8	15087.5	15053.8
67.5°	15677.4	15668.5	15995.2	16646.5	17889.8	18242.2	16891.0	15386.4	14708.4	14536.1	14511.4
70°	14534.2	14630.2	15235.0	16509.9	18778.7	19184.5	17334.5	14603.4	13736.3	13304.7	13197.8
72.5°	12334.7	12522.8	13450.3	15328.0	18040.3	18133.3	16219.9	13425.5	12148.6	11633.9	11557.6
75°	9517.5	9541.3	10490.6	12877.1	16100.1	16216.9	14468.8	11260.7	10004.5	9364.1	9344.3
77.5°	5796.6	6134.2	7519.0	9655.1	12798.9	13406.7	12101.1	8969.1	7475.4	6908.3	6591.5
80°	2843.9	2998.3	3996.1	6104.5	9148.3	10166.9	8980.0	6203.5	4610.8	3891.2	3812.0
82.5°	1294.7	1376.9	1890.6	3191.3	5520.5	6782.5	5542.2	3552.6	2461.8	1925.3	1907.5
85°	502.9	499.9	765.2	1339.3	2642.9	3755.5	2806.3	1694.6	1126.5	837.4	789.9
87.5°	146.5	156.4	224.7	439.5	783.0	1055.2	865.1	586.0	346.5	222.7	204.9
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)