

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: P510472

Luminaire Tested: **CTN-CA10-310-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510472
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-CA10-310-727-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42326 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

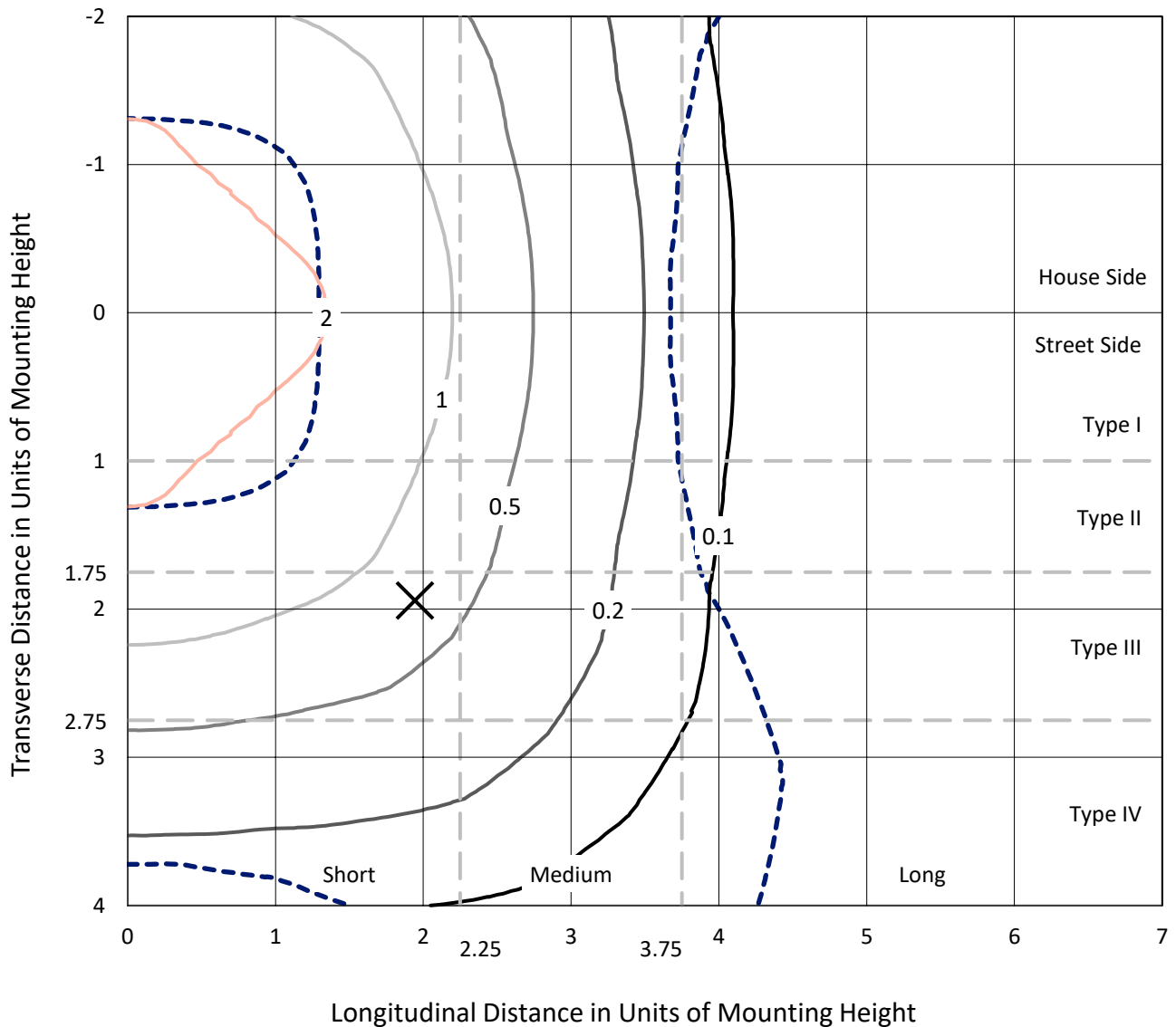
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P510472
 CATALOG NUMBER: CTN-CA10-310-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

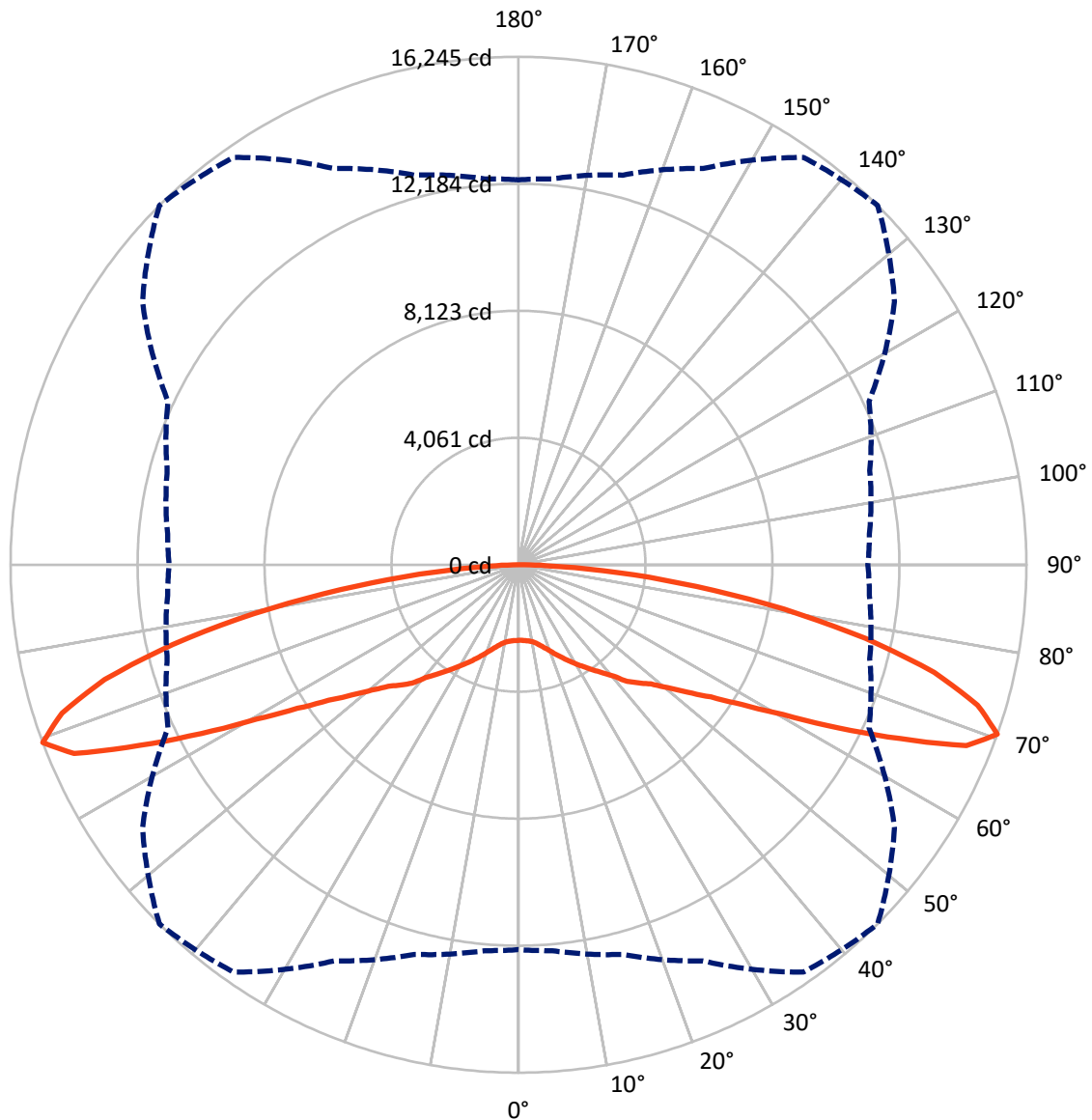
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P510472
CATALOG NUMBER: CTN-CA10-310-727-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510472

CATALOG NUMBER: CTN-CA10-310-727-U-T5

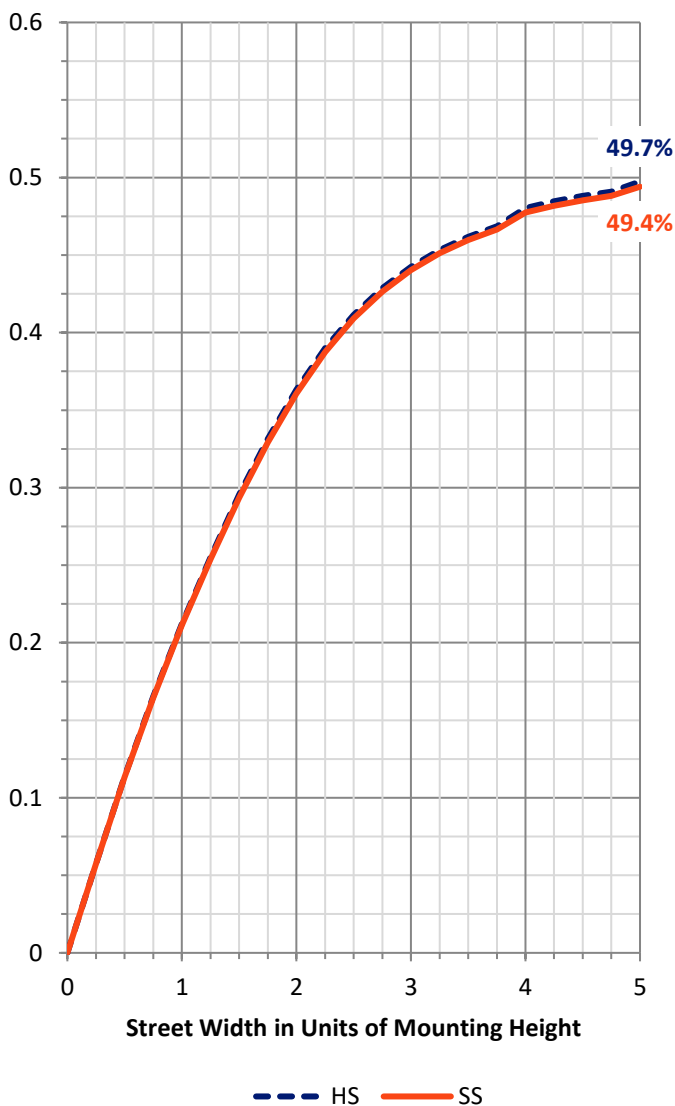
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21163.0	0.0	21163.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21163.0	0.0	21163.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42326.0	0.0	42326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	0.6
10°-20°	765.8	1.8
20°-30°	1515.9	3.6
30°-40°	2622.5	6.2
40°-50°	4363.4	10.3
50°-60°	7610.4	18.0
60°-70°	12598.7	29.8
70°-80°	10558.7	24.9
80°-90°	2055.4	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°	42326.0	100.0
0°-180°	42326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510472

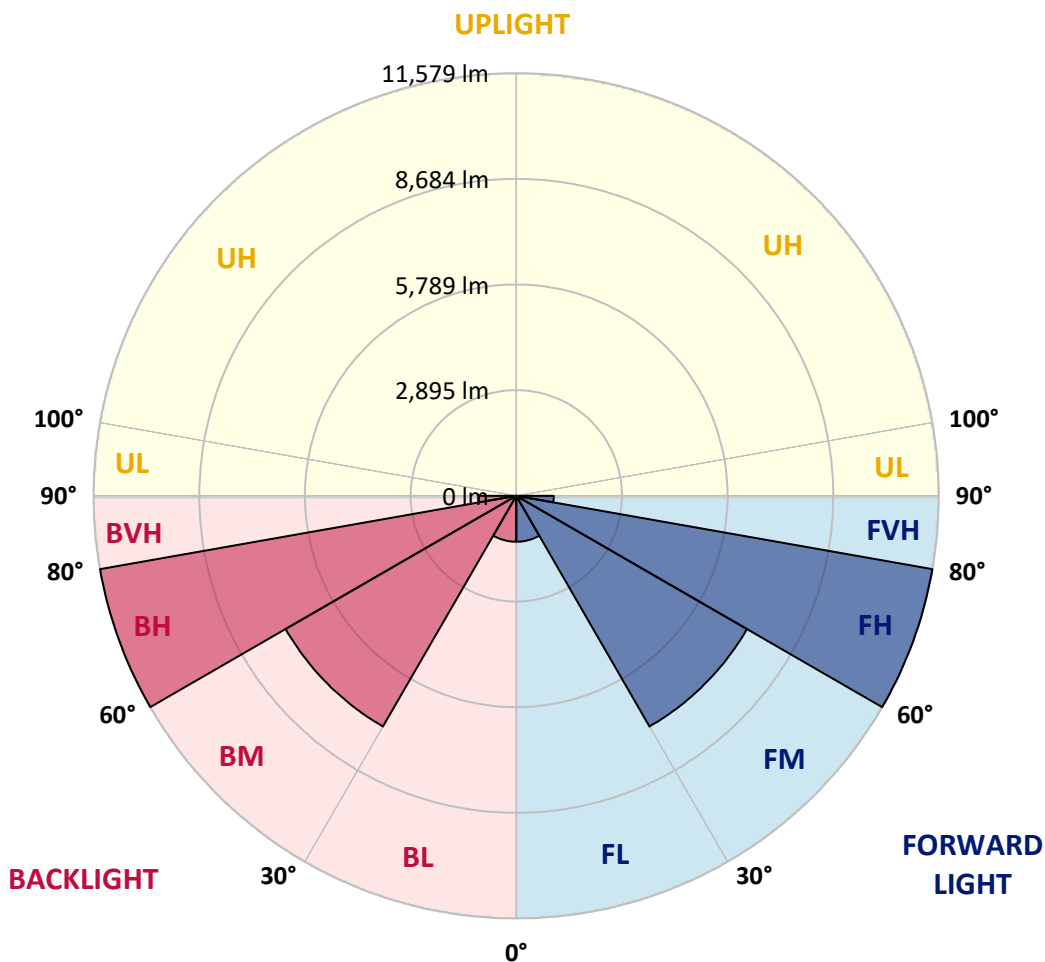
CATALOG NUMBER: CTN-CA10-310-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.4	3.0			
FM (30°-60°)	7298.1	17.2			
FH (60°-80°)	11578.7	27.4			G4/12000
FVH (80°-90°)	1027.7	2.4			G5
BL (0°-30°)	1258.4	3.0	B3/2500		
BM (30°-60°)	7298.1	17.2	B4/8500		
BH (60°-80°)	11578.7	27.4	B5		G4/12000
BVH (80°-90°)	1027.7	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





REPORT NUMBER: P510472
 CATALOG NUMBER: CTN-CA10-310-727-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1
2.5°	2434.2	2426.6	2424.1	2421.6	2423.3	2422.4	2426.6	2428.3	2430.0	2437.5	2433.3
5°	2449.2	2443.4	2442.5	2439.2	2438.3	2438.3	2444.2	2445.0	2445.9	2450.9	2445.9
7.5°	2476.9	2471.0	2469.4	2467.7	2466.8	2463.5	2467.7	2466.0	2467.7	2470.2	2464.3
10°	2520.5	2513.8	2512.1	2507.9	2510.4	2505.4	2508.8	2504.6	2497.0	2498.7	2490.3
12.5°	2580.0	2574.1	2576.6	2575.8	2585.9	2583.4	2576.6	2568.3	2555.7	2547.3	2538.1
15°	2668.0	2658.8	2665.5	2672.2	2682.3	2686.5	2681.4	2658.8	2640.4	2626.9	2619.4
17.5°	2775.3	2760.2	2773.6	2787.0	2808.8	2813.0	2794.6	2766.9	2746.8	2740.9	2728.4
20°	2900.2	2897.7	2898.5	2920.3	2953.8	2959.7	2935.4	2902.7	2882.6	2883.4	2869.2
22.5°	3051.1	3037.7	3041.9	3063.6	3111.4	3127.4	3087.1	3051.1	3038.5	3041.9	3040.2
25°	3223.7	3211.2	3205.3	3215.4	3277.4	3305.1	3266.5	3224.6	3218.7	3226.3	3214.5
27.5°	3413.2	3401.4	3394.7	3399.8	3448.4	3500.4	3457.6	3422.4	3421.6	3432.5	3425.8
30°	3628.6	3611.0	3603.5	3609.3	3642.8	3693.1	3658.8	3637.8	3655.4	3663.0	3660.4
32.5°	3846.5	3838.1	3835.6	3834.0	3875.0	3903.5	3886.8	3891.0	3905.2	3939.6	3928.7
35°	4094.6	4070.3	4077.0	4082.1	4135.7	4138.2	4139.9	4147.4	4185.2	4233.8	4205.3
37.5°	4352.8	4346.9	4351.1	4336.9	4376.3	4392.2	4415.7	4440.8	4500.3	4556.5	4544.8
40°	4672.2	4661.3	4665.5	4648.7	4668.0	4680.5	4728.3	4782.8	4859.1	4919.4	4891.8
42.5°	5095.5	5067.8	5067.8	5072.8	5113.1	5099.7	5201.9	5217.0	5311.7	5362.8	5346.9
45°	5593.4	5583.3	5530.5	5441.6	5391.3	5390.5	5472.7	5595.0	5751.8	5858.2	5857.4
47.5°	6226.2	6195.2	6068.6	5854.9	5727.5	5696.5	5782.8	6020.8	6309.2	6475.1	6472.6
50°	7056.0	7016.6	6824.7	6492.8	6244.6	6168.4	6306.7	6615.1	7003.2	7224.5	7242.9
52.5°	7984.8	7988.1	7771.0	7268.9	6901.8	6764.3	6911.0	7351.9	7835.6	8139.0	8175.0
55°	9063.5	9037.5	8832.2	8263.0	7757.6	7462.6	7684.7	8268.9	8824.6	9056.0	9119.7
57.5°	10186.7	10085.3	9927.7	9395.5	8804.5	8427.3	8693.9	9265.5	9797.8	10092.9	10082.8
60°	11182.5	11115.5	11024.9	10600.8	10147.3	9716.5	9921.9	10405.5	10861.5	11040.0	11047.6
62.5°	12270.5	12214.4	12133.0	11900.9	11651.1	11491.0	11304.9	11528.7	11884.9	12080.2	12143.9
65°	13338.4	13318.3	13365.2	13330.0	13435.6	13412.2	12966.2	12825.4	12831.3	12776.0	12747.5
67.5°	13275.5	13268.0	13544.6	14096.1	15148.9	15447.3	14303.2	13029.1	12454.9	12309.1	12288.1
70°	12307.4	12388.7	12900.8	13980.5	15901.6	16245.3	14678.7	12366.1	11631.8	11266.3	11175.8
72.5°	10444.9	10604.2	11389.6	12979.6	15276.3	15355.1	13734.9	11368.6	10287.3	9851.4	9786.9
75°	8059.4	8079.5	8883.3	10904.2	13633.4	13732.3	12252.1	9535.4	8471.8	7929.4	7912.7
77.5°	4908.5	5194.4	6367.0	8175.9	10838.0	11352.7	10247.1	7595.0	6330.1	5849.8	5581.6
80°	2408.2	2538.9	3383.8	5169.2	7746.7	8609.2	7604.2	5253.0	3904.4	3295.0	3227.9
82.5°	1096.4	1165.9	1601.0	2702.4	4674.7	5743.4	4693.1	3008.3	2084.6	1630.3	1615.2
85°	425.8	423.3	647.9	1134.1	2238.0	3180.2	2376.3	1435.0	953.9	709.1	668.9
87.5°	124.1	132.4	190.3	372.2	663.0	893.5	732.6	496.2	293.4	188.6	173.5
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)