

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: P451656

Luminaire Tested: **GALN-SA2C-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14113 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

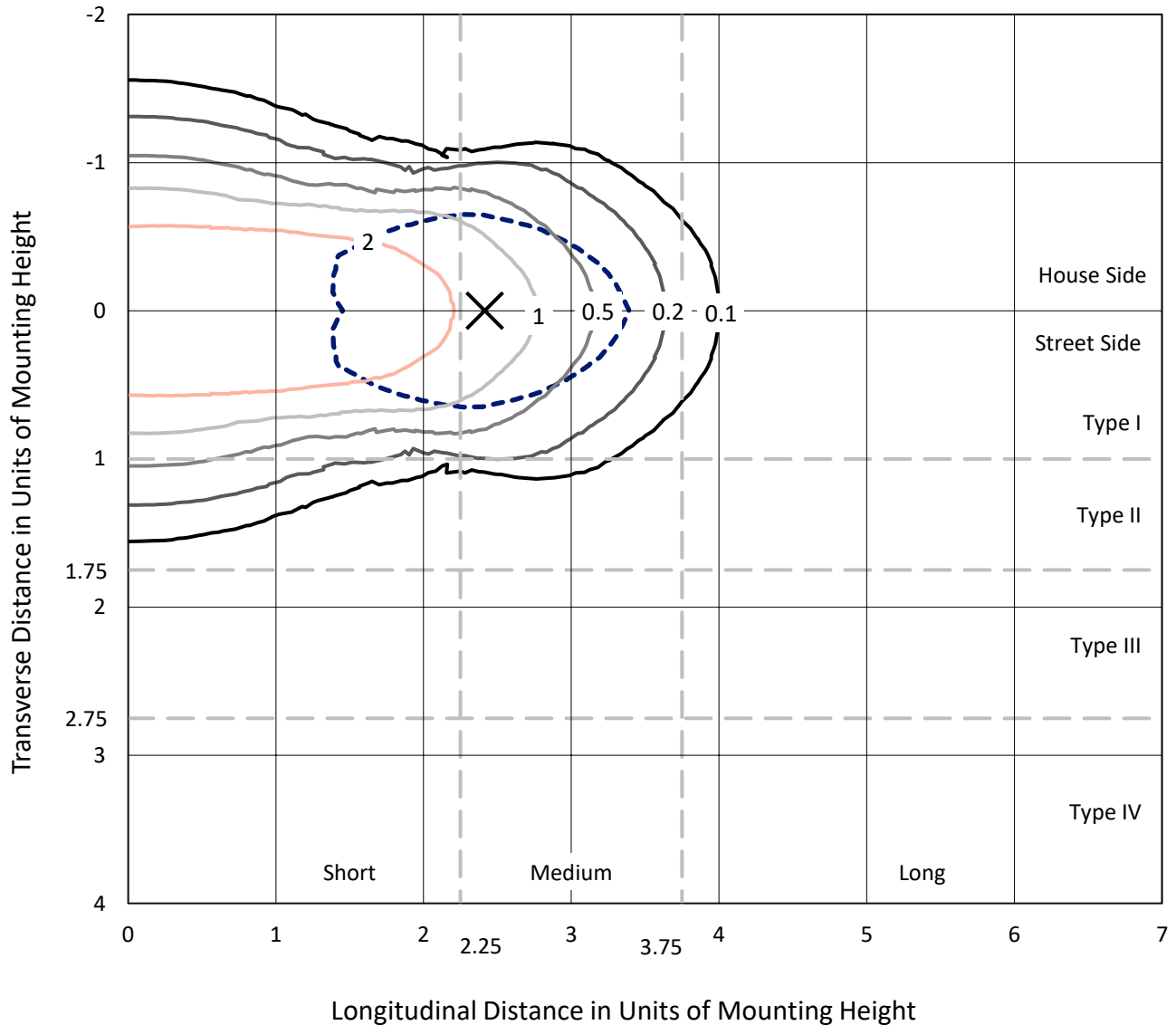
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

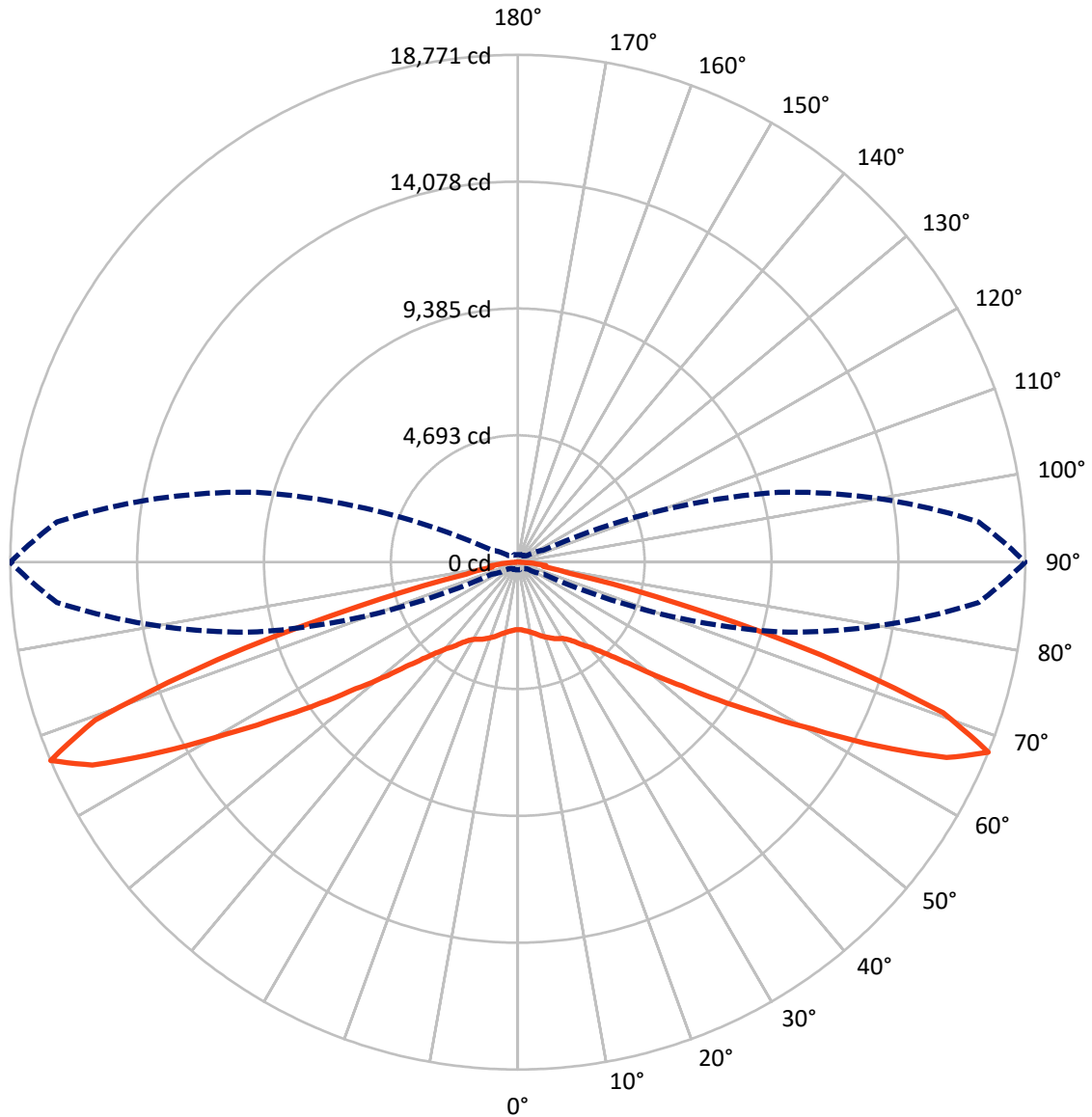
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7056.5	0.0	7056.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7056.5	0.0	7056.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14113.0	0.0	14113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	1.8
10°-20°	797.0	5.6
20°-30°	1333.9	9.5
30°-40°	1807.1	12.8
40°-50°	2289.0	16.2
50°-60°	2859.5	20.3
60°-70°	3361.3	23.8
70°-80°	1285.8	9.1
80°-90°	130.3	0.9
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°	14113.0	100.0
0°-180°	14113.0	100.0

Coefficient of Utilization

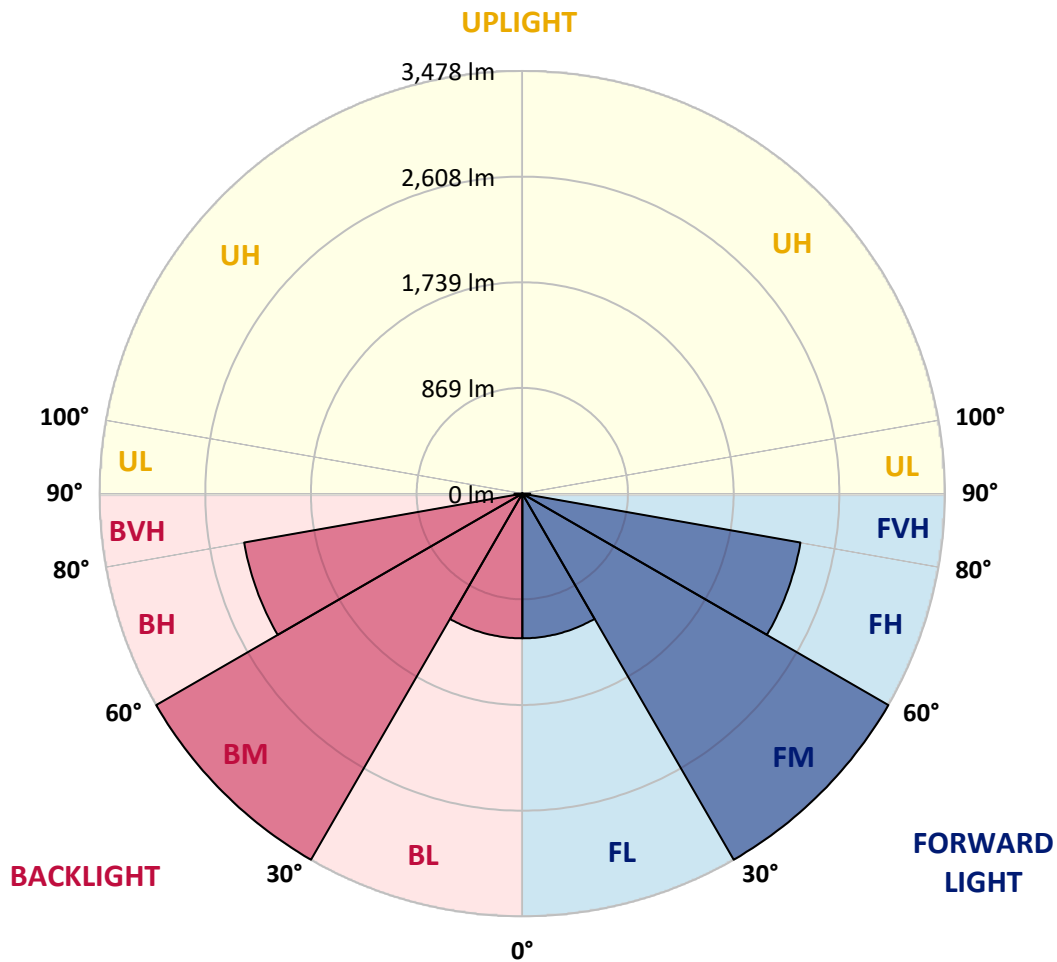


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.0	8.4			
FM (30°-60°)	3477.8	24.6			
FH (60°-80°)	2323.6	16.5			G2/5000
FVH (80°-90°)	65.1	0.5			G1/100
BL (0°-30°)	1190.0	8.4	B3/2500		
BM (30°-60°)	3477.8	24.6	B3/5000		
BH (60°-80°)	2323.6	16.5	B3/2500		G3/2500
BVH (80°-90°)	65.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4
2.5°	2530.5	2528.9	2529.7	2528.9	2531.3	2529.7	2520.3	2512.5	2506.3	2507.0	2504.7
5°	2584.4	2585.2	2586.0	2582.1	2587.5	2584.4	2569.6	2557.1	2544.5	2539.9	2538.3
7.5°	2629.0	2632.9	2635.2	2639.1	2648.5	2648.5	2640.7	2622.7	2595.3	2579.7	2578.9
10°	2673.5	2676.6	2683.7	2696.2	2711.8	2726.6	2723.5	2699.3	2664.1	2637.5	2631.3
12.5°	2689.1	2693.0	2716.5	2752.4	2787.6	2816.5	2816.5	2797.0	2751.6	2711.0	2699.3
15°	2634.4	2641.5	2683.7	2760.2	2852.5	2915.8	2929.8	2902.5	2854.0	2791.5	2777.4
17.5°	2525.8	2543.0	2604.7	2718.0	2871.2	3002.5	3043.1	3029.9	2967.3	2887.6	2871.2
20°	2409.3	2428.1	2493.8	2643.8	2855.6	3053.3	3171.3	3174.4	3097.1	2981.4	2957.2
22.5°	2281.2	2295.3	2379.7	2555.5	2808.7	3065.0	3281.5	3335.4	3230.7	3075.2	3040.8
25°	2137.4	2153.0	2241.3	2431.2	2720.4	3051.7	3382.3	3501.1	3370.6	3175.2	3131.5
27.5°	1999.8	2006.1	2100.7	2293.7	2603.9	3017.4	3456.6	3653.5	3525.3	3258.1	3202.6
30°	1867.8	1882.6	1966.2	2156.9	2470.3	2950.1	3520.6	3827.0	3691.8	3344.8	3273.7
32.5°	1727.9	1745.9	1836.5	2029.5	2336.7	2849.3	3559.7	4016.9	3923.9	3485.5	3409.7
35°	1593.5	1605.2	1696.6	1884.2	2206.2	2732.1	3566.7	4231.0	4223.2	3698.8	3598.0
37.5°	1455.9	1473.1	1565.3	1745.1	2067.8	2607.8	3531.6	4458.4	4584.3	3995.0	3886.4
40°	1323.9	1338.7	1429.4	1610.7	1910.8	2456.2	3448.0	4666.3	5005.5	4299.8	4145.8
42.5°	1180.1	1184.0	1283.2	1467.6	1756.8	2280.4	3327.6	4851.5	5475.2	4708.5	4517.0
45°	1016.7	1026.9	1119.1	1300.4	1580.2	2083.5	3164.3	5004.7	6070.7	5275.1	5014.1
47.5°	853.4	862.0	946.4	1125.4	1387.2	1857.6	2912.6	5139.1	6681.8	5994.9	5652.6
50°	694.0	698.7	767.4	926.1	1169.9	1620.0	2600.8	5182.1	7372.6	7013.9	6577.1
52.5°	548.6	555.6	608.0	732.3	937.8	1339.5	2264.0	5075.8	8179.1	8222.1	7606.3
55°	444.7	447.0	486.1	577.5	733.0	1045.6	1857.6	4779.6	9046.6	9770.3	8984.9
57.5°	382.9	384.5	406.4	457.2	564.2	788.5	1441.1	4219.3	9825.7	11584.1	10574.4
60°	347.8	348.5	361.1	390.7	447.0	604.9	1032.4	3428.4	10594.7	13602.7	12550.0
62.5°	325.9	325.9	334.5	350.9	378.2	464.2	747.9	2473.4	11121.5	15651.0	14985.2
65°	304.8	304.8	311.0	322.8	337.6	379.8	552.5	1613.0	11108.2	17142.9	17434.4
67.5°	280.6	280.6	285.2	297.0	305.6	326.7	426.7	1056.6	9978.1	17110.1	18770.7
70°	251.6	251.6	257.9	268.1	275.1	288.4	336.8	722.9	7330.4	14609.3	16693.5
72.5°	222.7	223.5	227.4	237.6	243.0	250.9	279.8	506.4	4496.7	9947.7	11672.4
75°	190.7	192.2	196.2	206.3	211.0	214.1	236.0	361.1	2274.9	5363.4	6106.6
77.5°	154.0	157.1	159.4	170.4	173.5	178.2	194.6	261.0	998.8	1927.2	1944.4
80°	112.5	116.4	123.5	133.6	136.0	139.1	148.5	185.2	452.5	880.0	955.8
82.5°	82.8	88.3	79.7	93.0	93.0	89.1	104.7	124.3	207.9	871.4	1042.5
85°	45.3	46.1	41.4	47.7	50.8	50.0	55.5	61.0	100.8	581.4	599.4
87.5°	10.9	11.7	12.5	14.8	18.0	18.0	19.5	17.2	32.8	188.3	107.8
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)