

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: P529629

Luminaire Tested: **GALN-SA4D-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15963 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

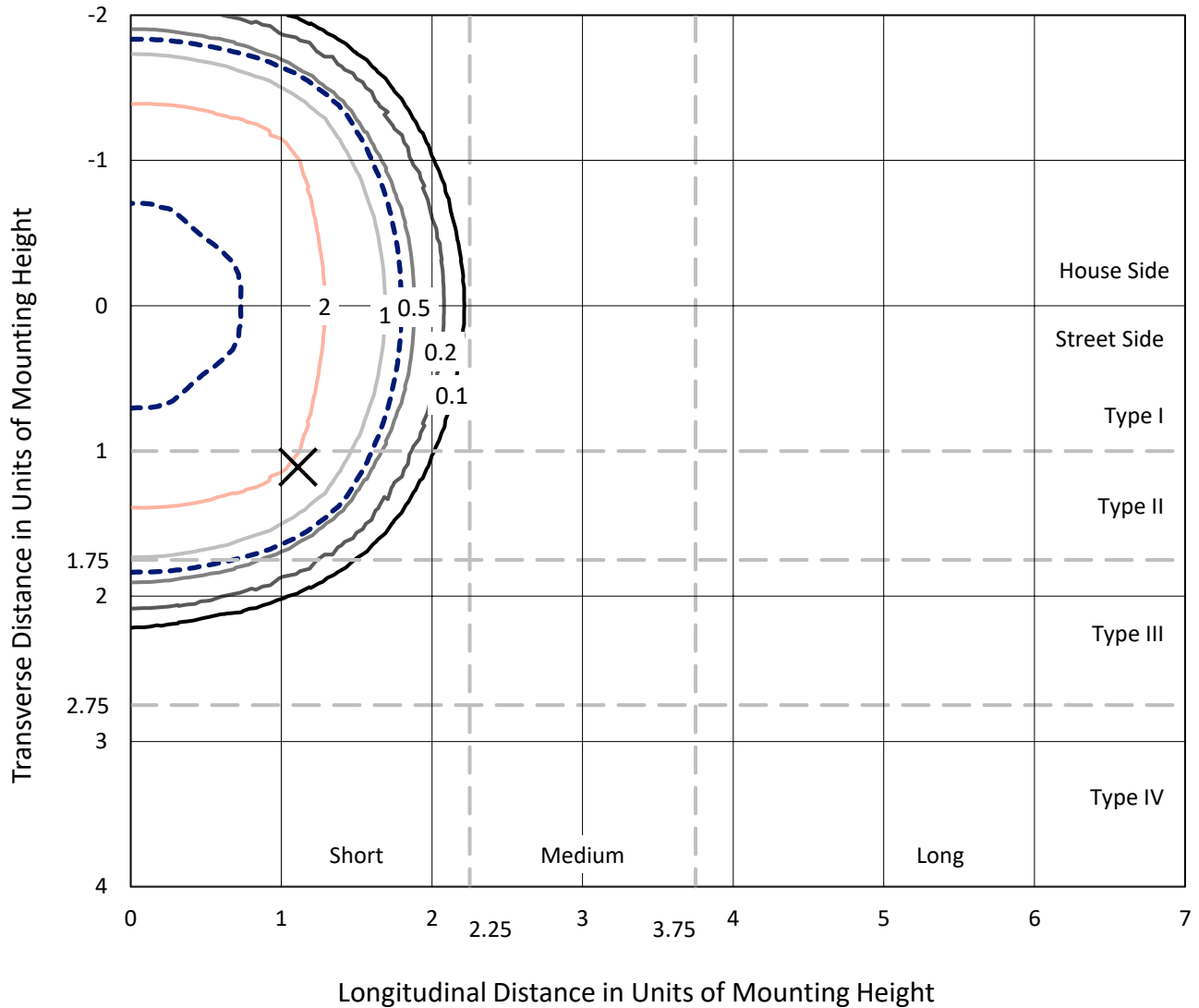
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

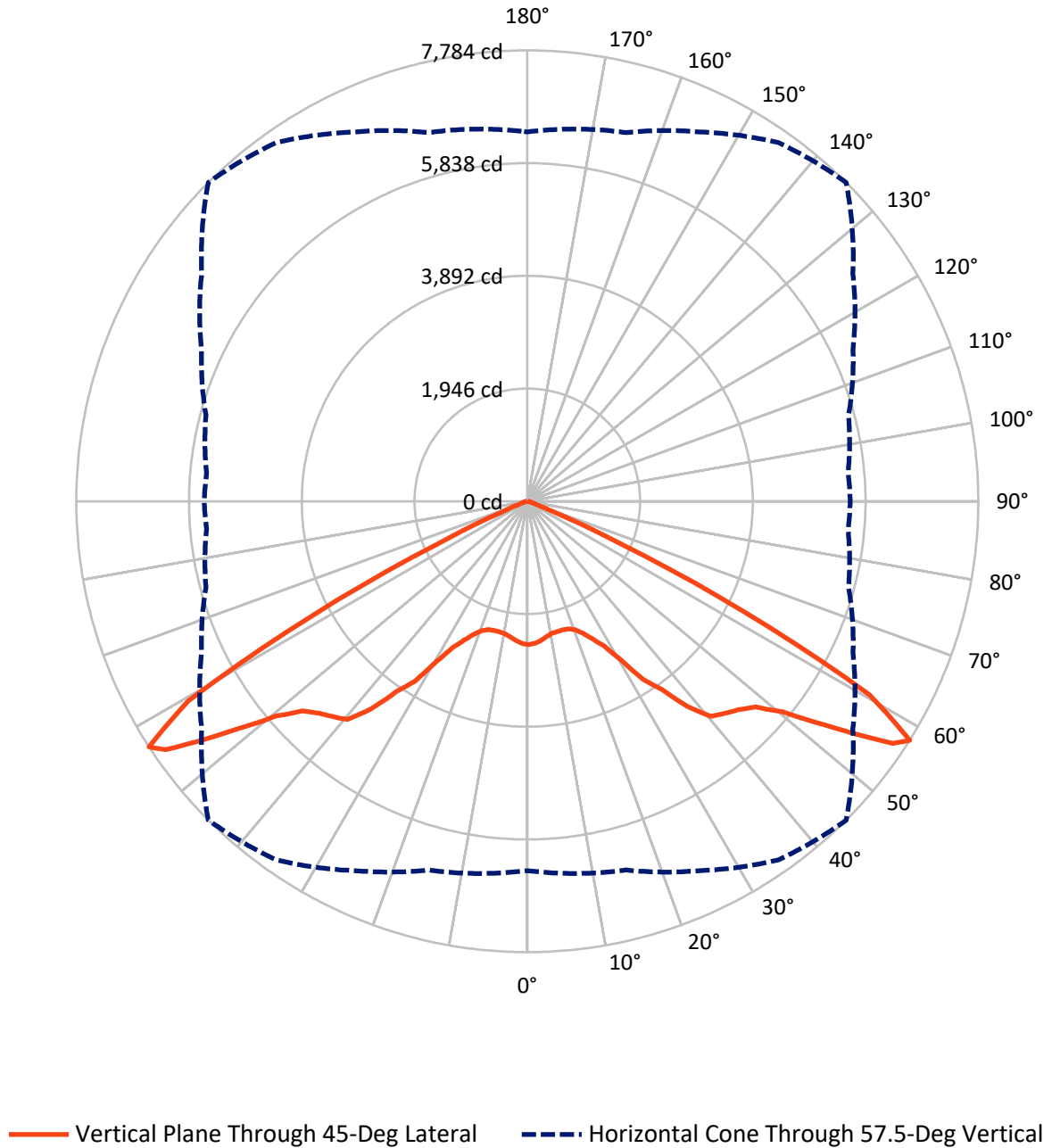
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7981.5	0.0	7981.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7981.5	0.0	7981.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15963.0	0.0	15963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.4
10°-20°	657.7	4.1
20°-30°	1214.0	7.6
30°-40°	2387.5	15.0
40°-50°	3888.5	24.4
50°-60°	5545.5	34.7
60°-70°	1920.0	12.0
70°-80°	103.0	0.6
80°-90°	19.3	0.1
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°	15963.0	100.0
0°-180°	15963.0	100.0

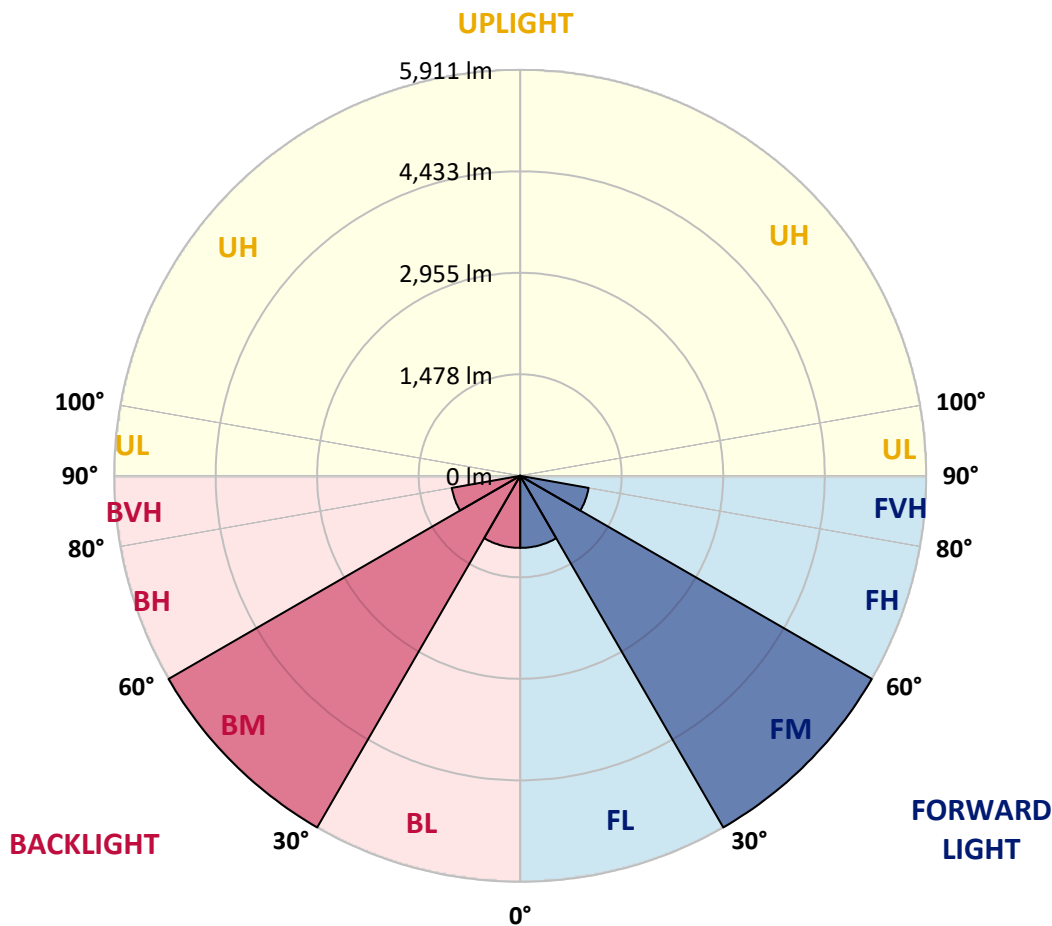


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.6	6.6			
FM (30°-60°)	5910.7	37.0			
FH (60°-80°)	1011.5	6.3			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	1049.6	6.6	B3/2500		
BM (30°-60°)	5910.7	37.0	B4/8500		
BH (60°-80°)	1011.5	6.3	B3/2500		G1/1800
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
2.5°	2469.4	2482.7	2466.0	2459.4	2456.1	2456.1	2446.1	2446.1	2442.7	2446.1	2432.8
5°	2429.4	2442.7	2442.7	2439.4	2419.5	2416.1	2406.1	2399.5	2402.8	2389.5	2399.5
7.5°	2389.5	2399.5	2386.2	2382.8	2376.2	2362.9	2359.5	2329.6	2332.9	2332.9	2339.6
10°	2382.8	2379.5	2359.5	2342.9	2322.9	2319.6	2309.6	2303.0	2303.0	2299.6	2309.6
12.5°	2382.8	2366.2	2362.9	2326.3	2293.0	2306.3	2279.7	2263.0	2286.3	2293.0	2306.3
15°	2379.5	2396.2	2339.6	2322.9	2299.6	2303.0	2279.7	2263.0	2276.3	2283.0	2293.0
17.5°	2399.5	2389.5	2372.9	2339.6	2329.6	2316.3	2286.3	2273.0	2273.0	2289.7	2293.0
20°	2452.7	2426.1	2392.8	2376.2	2386.2	2369.5	2332.9	2283.0	2296.3	2309.6	2319.6
22.5°	2502.7	2482.7	2459.4	2449.4	2506.0	2479.4	2416.1	2359.5	2339.6	2362.9	2379.5
25°	2599.2	2599.2	2555.9	2569.2	2632.4	2635.8	2562.6	2462.7	2449.4	2459.4	2466.0
27.5°	2795.5	2805.5	2768.9	2782.2	2808.8	2832.1	2768.9	2685.7	2655.7	2652.4	2662.4
30°	3008.5	3028.5	3025.1	3081.7	3158.3	3171.6	3078.4	2941.9	2852.1	2835.5	2848.8
32.5°	3288.1	3298.0	3291.4	3357.9	3564.3	3660.8	3417.9	3224.8	3105.0	3135.0	3105.0
35°	3813.9	3803.9	3730.7	3744.0	3913.7	3983.6	3750.7	3627.5	3570.9	3630.8	3617.5
37.5°	4266.5	4229.9	4170.0	4256.5	4432.9	4496.1	4253.2	4036.9	3933.7	4033.5	4076.8
40°	4649.2	4556.0	4472.8	4559.4	4795.6	4882.2	4526.1	4349.7	4309.8	4383.0	4476.2
42.5°	4972.0	4912.1	4802.3	4809.0	4965.4	5005.3	4719.1	4615.9	4576.0	4692.5	4739.1
45°	5201.7	5145.1	5041.9	5035.3	5155.1	5128.4	4872.2	4802.3	4825.6	4902.1	4925.4
47.5°	5318.1	5348.1	5288.2	5304.8	5368.1	5304.8	5101.8	5101.8	5048.6	5095.2	5071.9
50°	5654.3	5561.1	5637.6	5637.6	5704.2	5710.8	5507.8	5434.6	5291.5	5211.6	5211.6
52.5°	6047.0	6053.6	6083.6	6193.4	6306.6	6403.1	6113.5	5800.7	5561.1	5457.9	5444.6
55°	6369.8	6436.3	6556.2	6762.5	7088.6	7221.7	6722.6	6163.4	5870.6	5710.8	5677.6
56°	6546.2	6482.9	6689.3	6972.2	7398.1	7571.2	6822.4	6236.7	5913.8	5734.1	5730.8
57.5°	6376.4	6446.3	6589.4	7035.4	7557.9	7784.2	6859.0	6203.4	5740.8	5557.8	5574.4
60°	5035.3	5101.8	5294.8	5794.0	6612.7	6789.1	5804.0	5115.1	4702.5	4439.5	4442.9
62.5°	2848.8	2898.7	3048.4	3511.0	4020.2	4189.9	3617.5	3158.3	2872.1	2725.6	2679.0
65°	1048.3	1028.4	1051.6	1287.9	1600.8	1743.9	1504.3	1271.3	1121.5	1068.3	1048.3
67.5°	392.7	362.8	339.5	362.8	455.9	482.6	442.6	369.4	346.1	356.1	362.8
70°	242.9	229.6	183.0	173.1	169.7	166.4	176.4	186.4	213.0	249.6	256.3
72.5°	169.7	159.7	129.8	123.1	116.5	113.2	129.8	143.1	166.4	193.0	196.4
75°	66.6	69.9	66.6	73.2	76.5	79.9	93.2	103.2	113.2	113.2	109.8
77.5°	13.3	13.3	20.0	26.6	33.3	43.3	63.2	73.2	76.5	73.2	63.2
80°	0.0	0.0	6.7	13.3	26.6	36.6	56.6	63.2	69.9	63.2	49.9
82.5°	0.0	0.0	6.7	16.6	26.6	33.3	53.2	66.6	76.5	69.9	53.2
85°	0.0	0.0	6.7	13.3	20.0	23.3	23.3	16.6	16.6	10.0	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)