

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: P529157

Luminaire Tested: **GALN-SA4B-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13509 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

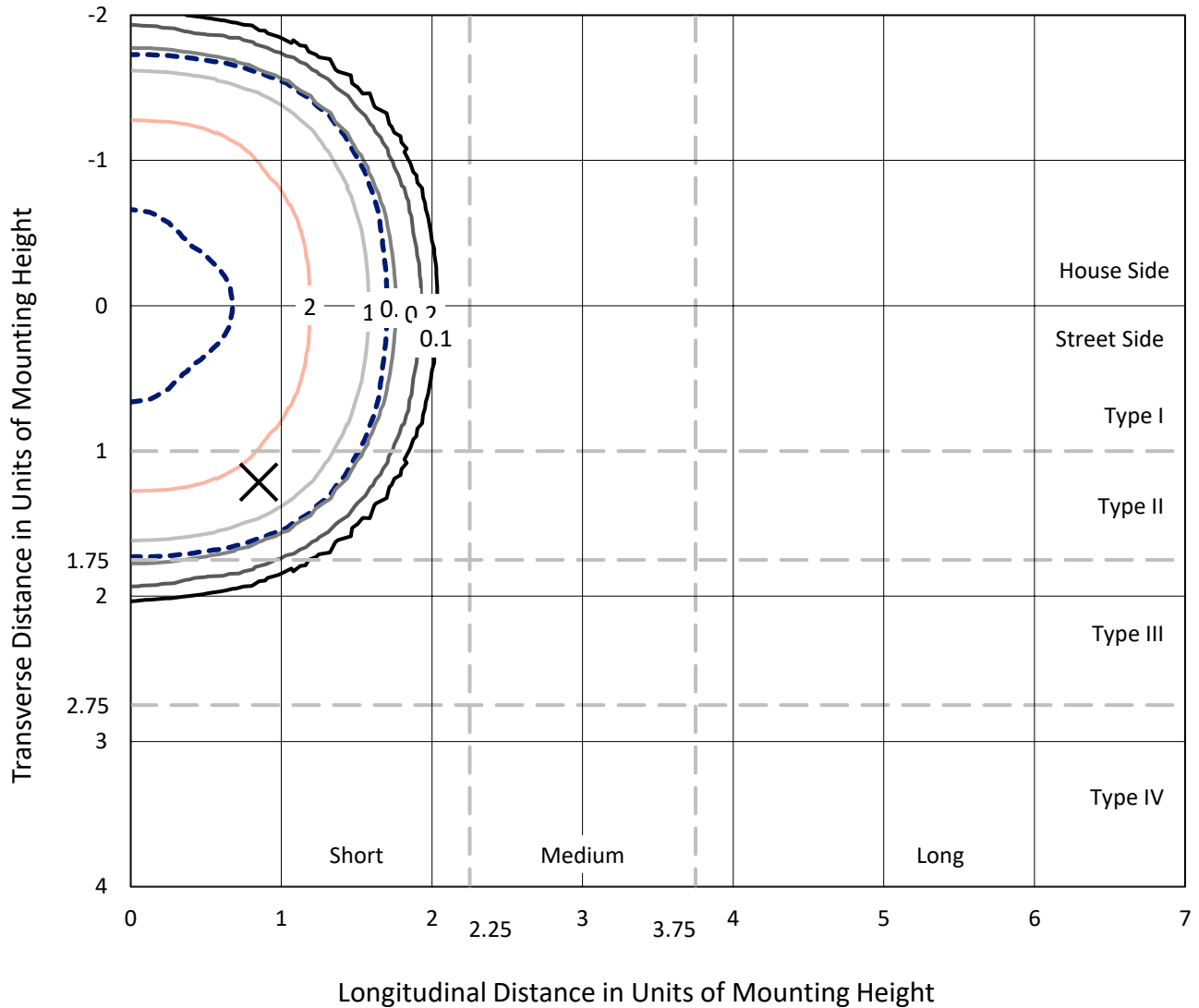
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529157
 CATALOG NUMBER: GALN-SA4B-740-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

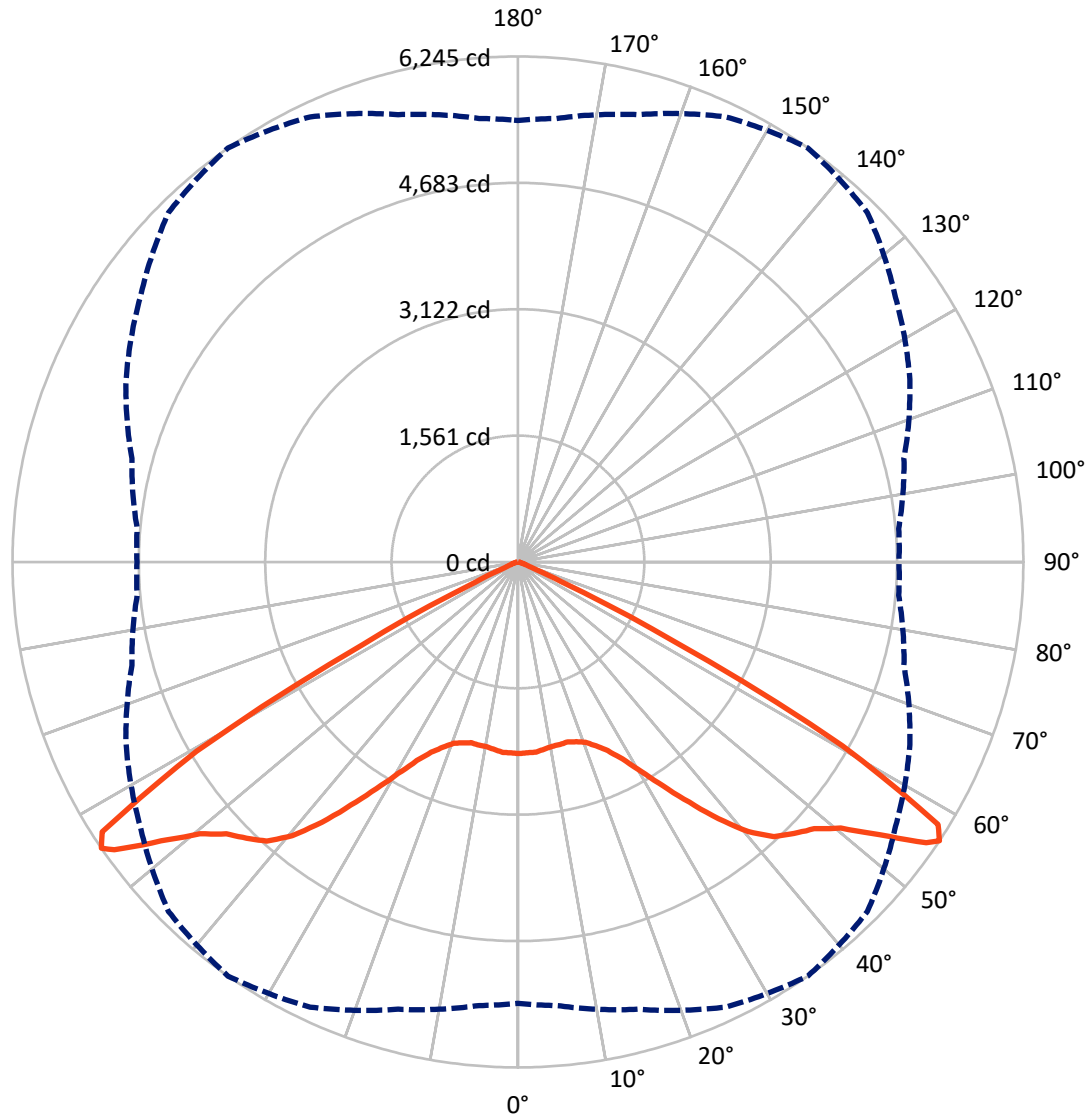
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P529157
CATALOG NUMBER: GALN-SA4B-740-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529157
 CATALOG NUMBER: GALN-SA4B-740-U-5MQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6754.5	0.0	6754.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6754.5	0.0	6754.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13509.0	0.0	13509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.6
10°-20°	649.5	4.8
20°-30°	1176.2	8.7
30°-40°	2181.0	16.1
40°-50°	3580.0	26.5
50°-60°	4612.1	34.1
60°-70°	1016.4	7.5
70°-80°	59.0	0.4
80°-90°	12.4	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°	13509.0	100.0
0°-180°	13509.0	100.0

Coefficient of Utilization



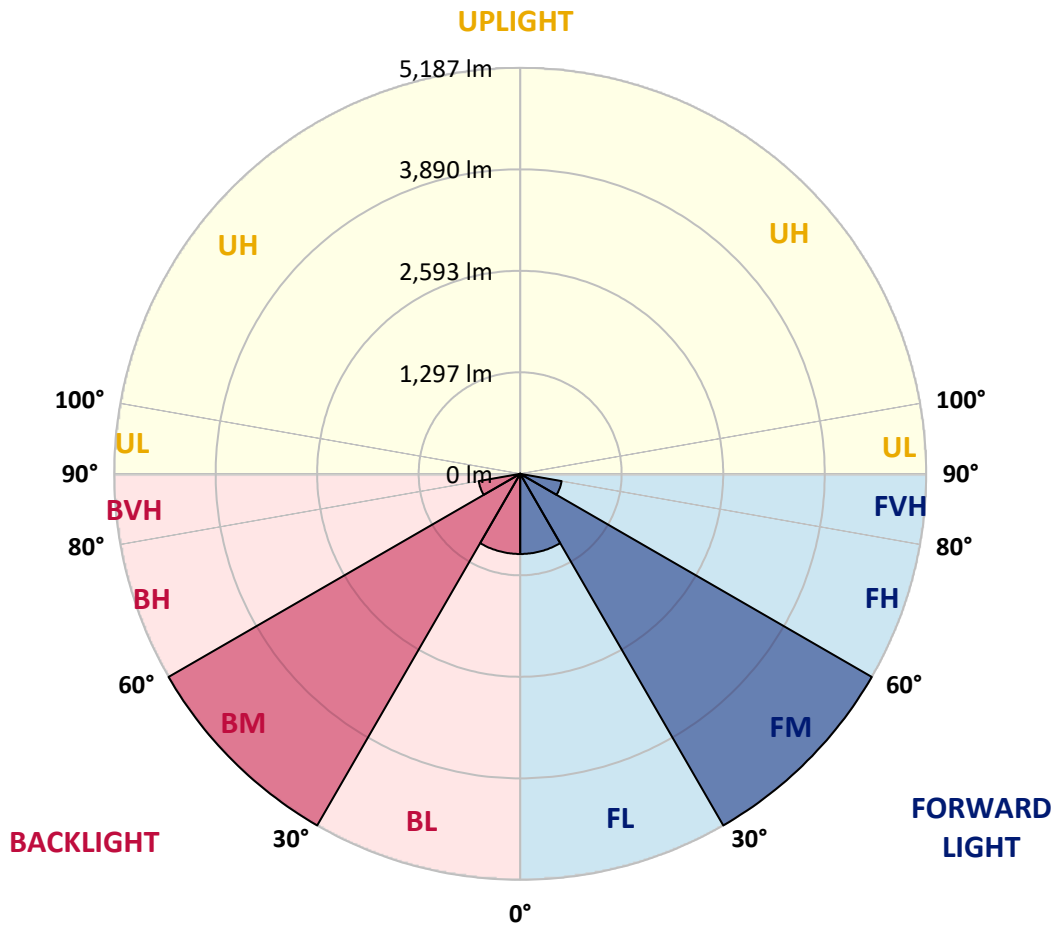
REPORT NUMBER: P529157
 CATALOG NUMBER: GALN-SA4B-740-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.1	7.6			
FM (30°-60°)	5186.5	38.4			
FH (60°-80°)	537.7	4.0			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	1024.1	7.6	B3/2500		
BM (30°-60°)	5186.5	38.4	B4/8500		
BH (60°-80°)	537.7	4.0	B2/1000		G0/660
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





REPORT NUMBER: P529157

CATALOG NUMBER: GALN-SA4B-740-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1	2367.1
2.5°	2372.0	2372.0	2374.4	2376.9	2359.7	2352.4	2354.8	2349.9	2347.5	2354.8	2354.8
5°	2364.6	2364.6	2357.3	2359.7	2359.7	2337.7	2337.7	2342.6	2342.6	2327.9	2323.0
7.5°	2345.0	2340.1	2330.3	2342.6	2335.2	2335.2	2318.1	2305.9	2301.0	2310.8	2301.0
10°	2303.4	2305.9	2315.7	2320.6	2315.7	2330.3	2301.0	2283.8	2266.7	2259.4	2259.4
12.5°	2283.8	2298.5	2283.8	2296.1	2313.2	2301.0	2283.8	2271.6	2247.1	2237.3	2237.3
15°	2281.4	2291.2	2296.1	2313.2	2305.9	2310.8	2276.5	2261.8	2225.1	2208.0	2200.6
17.5°	2278.9	2291.2	2298.5	2330.3	2335.2	2337.7	2310.8	2266.7	2234.9	2217.7	2200.6
20°	2305.9	2310.8	2325.5	2357.3	2376.9	2411.1	2362.2	2315.7	2247.1	2227.5	2220.2
22.5°	2340.1	2364.6	2379.3	2413.6	2465.0	2494.4	2430.7	2372.0	2301.0	2276.5	2247.1
25°	2450.3	2445.4	2469.9	2540.9	2582.5	2604.5	2553.1	2467.4	2374.4	2345.0	2349.9
27.5°	2587.4	2592.3	2614.3	2692.6	2753.8	2788.1	2726.9	2614.3	2523.7	2474.8	2469.9
30°	2766.1	2761.2	2785.6	2890.9	3001.1	3052.5	2944.8	2812.6	2724.5	2660.8	2675.5
32.5°	2954.6	2957.0	3025.5	3121.0	3299.7	3400.1	3226.3	3064.7	2932.5	2888.5	2866.4
35°	3233.6	3245.8	3299.7	3446.6	3644.8	3774.6	3583.6	3390.3	3238.5	3157.7	3167.5
37.5°	3578.8	3566.5	3657.1	3816.2	4024.3	4119.7	3958.2	3737.9	3583.6	3529.8	3564.1
40°	3945.9	3958.2	4004.7	4149.1	4381.6	4445.3	4205.4	4085.5	3950.8	3923.9	3965.5
42.5°	4313.1	4305.8	4340.0	4469.8	4638.7	4594.6	4452.6	4381.6	4286.2	4232.3	4288.6
45°	4582.4	4570.1	4633.8	4721.9	4783.1	4699.9	4636.2	4611.7	4562.8	4504.0	4555.4
47.5°	4844.3	4834.5	4895.7	4920.2	4925.1	4814.9	4827.2	4871.2	4748.8	4626.4	4685.2
50°	5067.0	5049.9	5125.8	5179.6	5167.4	4991.2	5035.2	4991.2	4800.2	4655.8	4633.8
52.5°	5439.1	5446.5	5527.2	5625.2	5595.8	5448.9	5385.3	5184.5	4939.8	4810.0	4734.1
55°	5674.1	5637.4	5776.9	6087.8	6122.1	5970.3	5688.8	5392.6	5025.4	4866.3	4846.7
56°	5453.8	5500.3	5720.6	6068.2	6244.5	6104.9	5696.1	5341.2	4937.3	4721.9	4707.2
57.5°	4893.2	4868.8	5167.4	5642.3	6122.1	6063.3	5495.4	4974.0	4504.0	4261.7	4232.3
60°	3045.1	3116.1	3378.0	3965.5	4606.8	4636.2	4073.2	3625.3	3076.9	2861.5	2912.9
62.5°	1192.1	1130.9	1294.9	1733.1	2173.7	2271.6	2058.6	1711.0	1405.1	1192.1	1177.4
65°	276.6	269.3	303.5	418.6	585.0	678.1	643.8	462.6	340.3	323.1	298.6
67.5°	156.7	156.7	149.3	149.3	164.0	173.8	166.5	164.0	171.3	178.7	176.2
70°	110.2	107.7	102.8	105.3	100.4	100.4	107.7	119.9	129.7	129.7	132.2
72.5°	66.1	66.1	66.1	73.4	73.4	73.4	80.8	90.6	93.0	90.6	88.1
75°	29.4	29.4	34.3	41.6	46.5	49.0	56.3	61.2	66.1	61.2	56.3
77.5°	7.3	7.3	12.2	17.1	22.0	26.9	36.7	44.1	46.5	44.1	36.7
80°	2.4	2.4	4.9	12.2	22.0	26.9	36.7	39.2	41.6	36.7	29.4
82.5°	2.4	2.4	4.9	12.2	17.1	22.0	29.4	34.3	36.7	31.8	29.4
85°	0.0	2.4	4.9	9.8	14.7	19.6	19.6	14.7	12.2	7.3	9.8
87.5°	0.0	0.0	2.4	2.4	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)