

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: P453498

Luminaire Tested: **GALN-SA4C-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29108 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

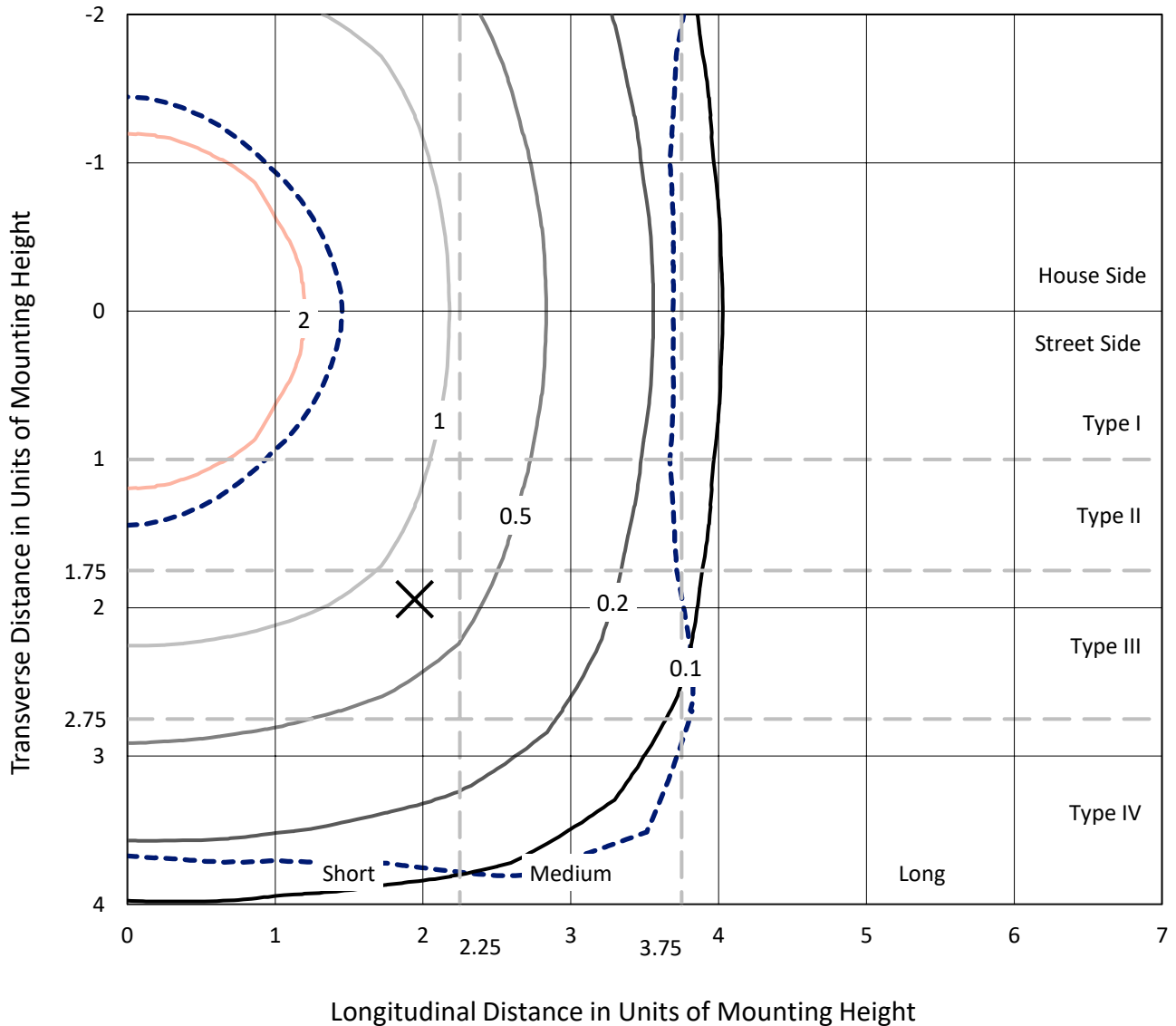
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453498
 CATALOG NUMBER: GALN-SA4C-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

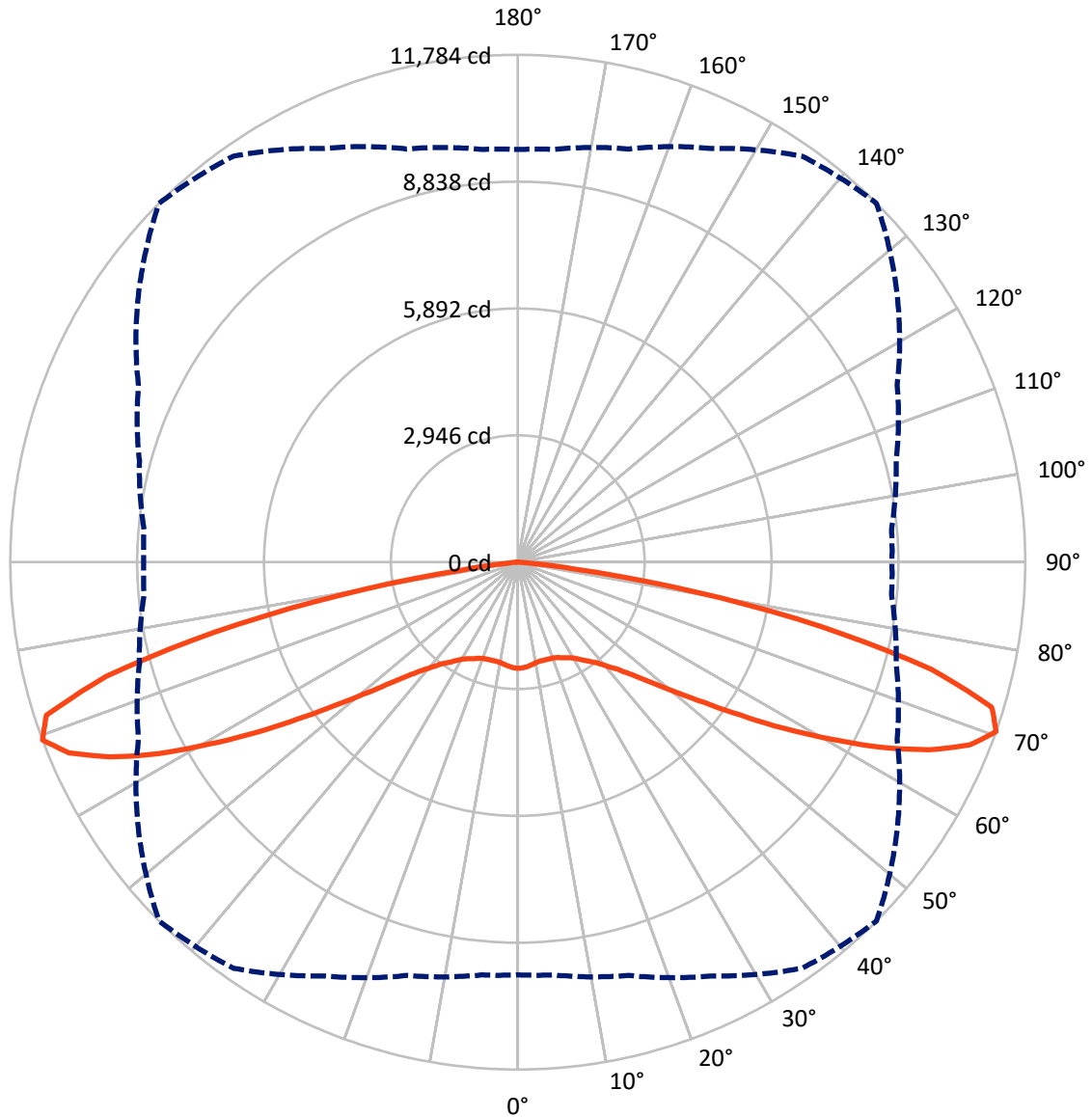
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P453498
CATALOG NUMBER: GALN-SA4C-740-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453498

CATALOG NUMBER: GALN-SA4C-740-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14554.0	0.0	14554.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14554.0	0.0	14554.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29108.0	0.0	29108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	0.8
10°-20°	674.7	2.3
20°-30°	1149.5	3.9
30°-40°	1781.7	6.1
40°-50°	2998.9	10.3
50°-60°	5456.4	18.7
60°-70°	9237.6	31.7
70°-80°	7150.2	24.6
80°-90°	428.5	1.5
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°	29108.0	100.0
0°-180°	29108.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453498

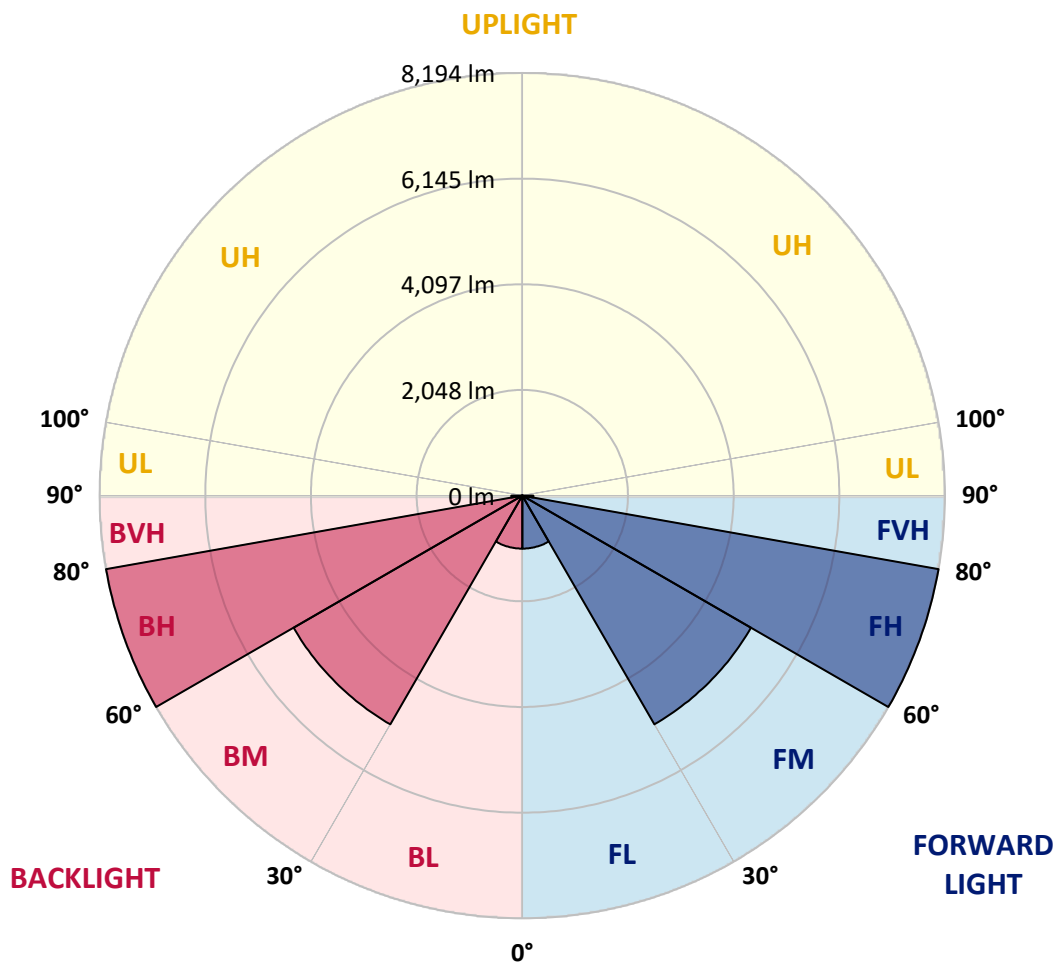
CATALOG NUMBER: GALN-SA4C-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.3	3.5			
FM (30°-60°)	5118.5	17.6			
FH (60°-80°)	8193.9	28.1			G4/12000
FVH (80°-90°)	214.2	0.7			G2/225
BL (0°-30°)	1027.3	3.5	B3/2500		
BM (30°-60°)	5118.5	17.6	B4/8500		
BH (60°-80°)	8193.9	28.1	B5		G4/12000
BVH (80°-90°)	214.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P453498

CATALOG NUMBER: GALN-SA4C-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3
2.5°	2458.2	2459.7	2459.7	2456.7	2455.1	2455.1	2453.6	2453.6	2458.2	2459.7	2461.3
5°	2436.7	2436.7	2436.7	2435.1	2432.1	2432.1	2429.0	2429.0	2430.5	2435.1	2432.1
7.5°	2407.5	2410.5	2410.5	2404.4	2399.8	2399.8	2398.2	2399.8	2401.3	2405.9	2404.4
10°	2398.2	2399.8	2392.1	2381.3	2373.6	2369.0	2370.6	2373.6	2381.3	2384.4	2385.9
12.5°	2404.4	2404.4	2390.6	2375.2	2361.3	2355.2	2353.7	2364.4	2378.3	2387.5	2390.6
15°	2412.1	2409.0	2392.1	2372.1	2358.3	2356.7	2355.2	2362.9	2382.9	2401.3	2402.9
17.5°	2416.7	2415.2	2393.6	2369.0	2361.3	2361.3	2359.8	2366.0	2387.5	2410.5	2412.1
20°	2432.1	2427.5	2402.9	2376.7	2370.6	2373.6	2369.0	2376.7	2399.8	2427.5	2433.6
22.5°	2462.8	2458.2	2433.6	2407.5	2404.4	2404.4	2402.9	2410.5	2435.1	2464.3	2469.0
25°	2499.7	2495.1	2472.0	2453.6	2456.7	2462.8	2459.7	2461.3	2481.3	2505.9	2513.5
27.5°	2548.9	2541.2	2521.2	2505.9	2515.1	2515.1	2515.1	2513.5	2525.8	2548.9	2556.6
30°	2608.9	2605.8	2584.3	2582.7	2590.4	2582.7	2582.7	2584.3	2585.8	2607.3	2615.0
32.5°	2687.3	2681.1	2670.4	2667.3	2688.8	2694.9	2673.4	2653.4	2664.2	2685.7	2690.3
35°	2816.4	2807.2	2791.8	2774.9	2791.8	2821.0	2774.9	2759.5	2787.2	2816.4	2819.5
37.5°	2991.7	2987.0	2962.4	2931.7	2930.2	2960.9	2913.3	2911.7	2964.0	2999.3	3004.0
40°	3211.5	3216.1	3185.4	3156.1	3140.8	3165.4	3128.5	3142.3	3193.0	3233.0	3229.9
42.5°	3520.5	3503.6	3455.9	3428.3	3411.3	3402.1	3392.9	3414.4	3471.3	3514.3	3548.2
45°	3881.8	3875.6	3815.7	3781.8	3744.9	3731.1	3728.0	3766.5	3835.7	3887.9	3892.5
47.5°	4290.7	4276.9	4238.4	4203.1	4189.2	4172.3	4157.0	4186.2	4255.3	4292.2	4303.0
50°	4711.9	4715.0	4715.0	4708.9	4722.7	4725.8	4684.3	4695.0	4733.5	4730.4	4727.3
52.5°	5193.1	5210.0	5290.0	5297.7	5363.8	5408.3	5333.0	5288.4	5274.6	5191.6	5197.7
55°	5758.9	5774.2	5894.1	6014.1	6192.4	6267.7	6109.4	5971.0	5872.6	5746.6	5752.7
57.5°	6464.5	6472.2	6585.9	6816.5	7099.4	7276.2	6998.0	6724.3	6524.5	6404.5	6356.9
60°	7223.9	7231.6	7397.7	7679.0	8118.7	8333.9	7989.5	7542.2	7290.0	7107.1	7119.4
62.5°	8135.6	8166.3	8315.4	8702.9	9236.3	9477.7	9021.1	8423.1	8081.8	7854.2	7863.5
65°	9111.8	9164.1	9327.0	9752.9	10244.8	10504.6	9945.0	9254.8	8830.5	8552.2	8581.4
67.5°	9745.2	9791.3	10026.5	10496.9	11110.3	11325.5	10603.0	9799.0	9268.6	8936.5	8875.0
70°	9583.7	9622.2	9935.8	10603.0	11511.6	11783.7	10759.8	9719.0	9094.9	8712.1	8687.5
72.5°	8460.0	8380.0	8838.1	9795.9	11053.4	11510.0	10266.3	8876.6	8091.0	7697.4	7651.3
75°	5606.7	5780.4	6456.8	7585.2	9351.6	9917.4	8762.8	7127.1	6138.6	5811.1	5760.4
77.5°	1874.0	2007.8	2608.9	4299.9	6375.3	7225.5	6384.6	4661.2	3297.6	2656.5	2668.8
80°	496.6	490.4	634.9	1182.2	2754.9	4184.6	3206.9	1578.8	864.0	625.7	593.4
82.5°	178.3	199.9	256.7	327.5	730.2	1300.6	917.8	442.8	324.4	239.8	232.1
85°	78.4	76.9	110.7	130.7	182.9	242.9	215.2	187.6	164.5	109.2	101.5
87.5°	16.9	16.9	26.1	20.0	32.3	32.3	40.0	47.7	49.2	32.3	26.1
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)