

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: P650719

Luminaire Tested: **GALN-SA2C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10494.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

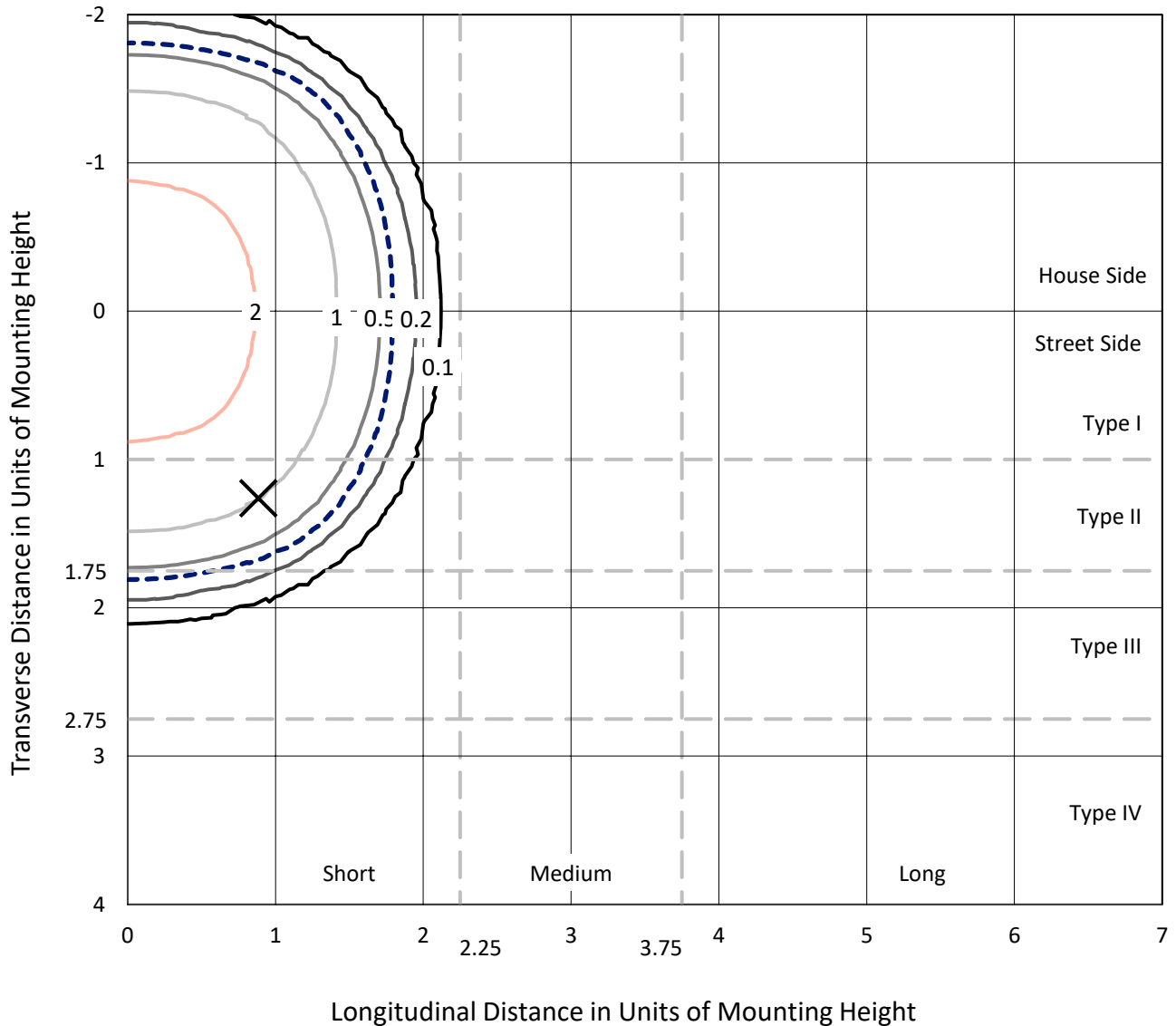
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650719  
 CATALOG NUMBER: GALN-SA2C-840-U-5MQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

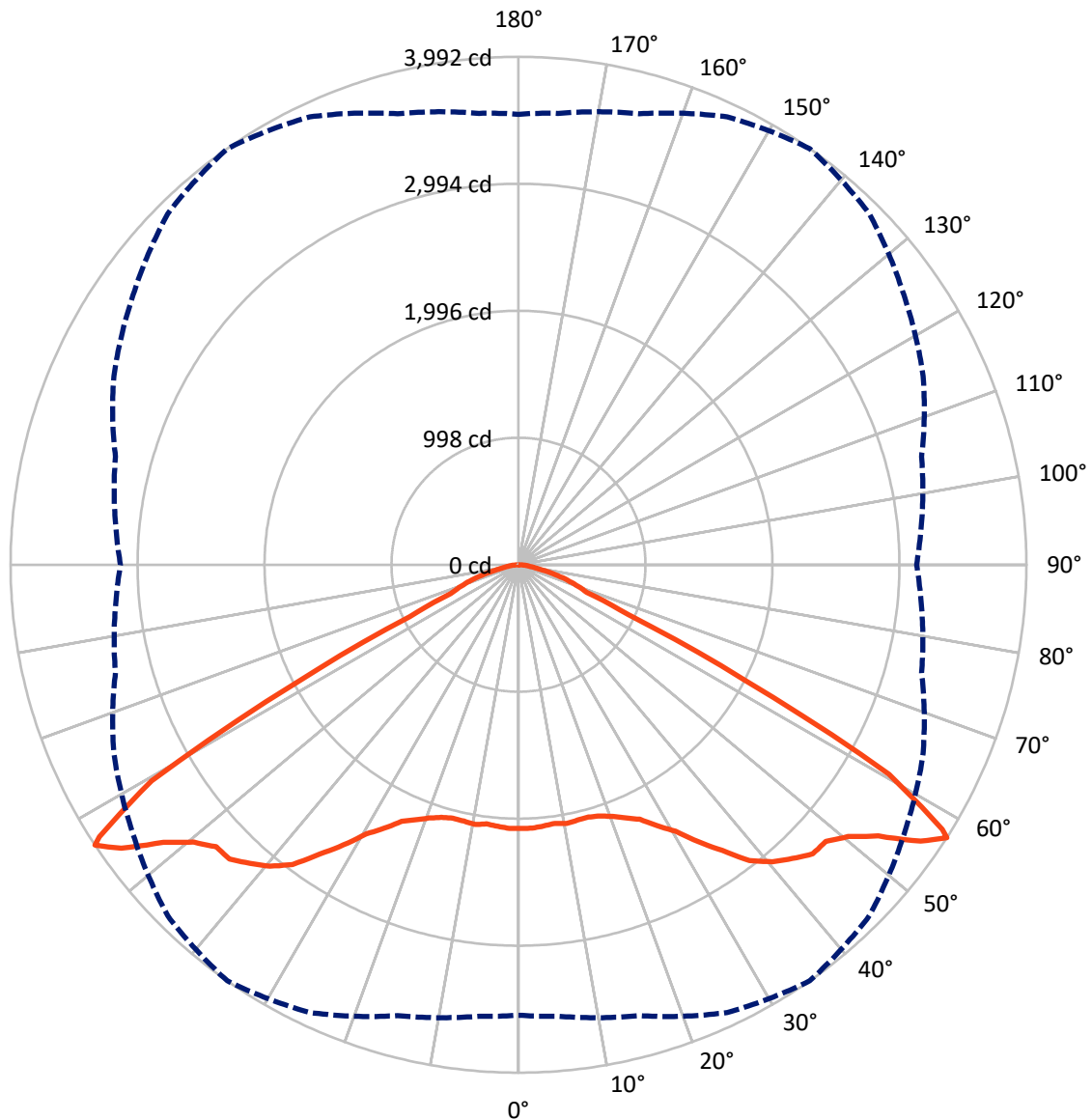
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P650719  
CATALOG NUMBER: GALN-SA2C-840-U-5MQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P650719  
 CATALOG NUMBER: GALN-SA2C-840-U-5MQ-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5247.4	0.0	5247.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5247.4	0.0	5247.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10494.8	0.0	10494.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.5	1.9
10°-20°	582.0	5.5
20°-30°	1016.4	9.7
30°-40°	1665.4	15.9
40°-50°	2441.9	23.3
50°-60°	3075.7	29.3
60°-70°	1156.7	11.0
70°-80°	307.6	2.9
80°-90°	52.7	0.5
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°	10494.8	100.0
0°-180°	10494.8	100.0

**Coefficient of Utilization**



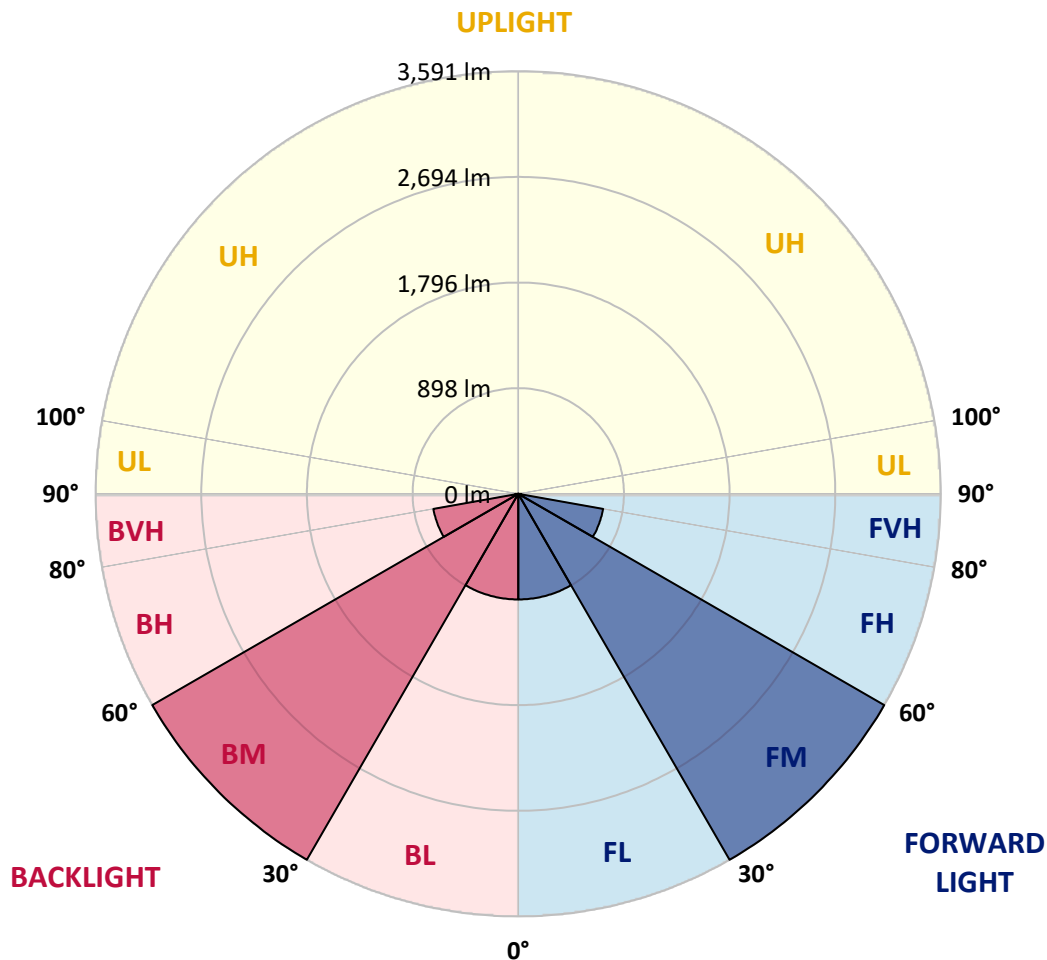
REPORT NUMBER: P650719  
 CATALOG NUMBER: GALN-SA2C-840-U-5MQ-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.4	8.6			
FM (30°-60°)	3591.5	34.2			
FH (60°-80°)	732.2	7.0			G1/1800
FVH (80°-90°)	26.4	0.3			G1/100
BL (0°-30°)	897.4	8.6	B2/1000		
BM (30°-60°)	3591.5	34.2	B3/5000		
BH (60°-80°)	732.2	7.0	B2/1000		G1/1800
BVH (80°-90°)	26.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P650719

CATALOG NUMBER: GALN-SA2C-840-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6	2072.6
2.5°	2062.3	2083.0	2073.9	2068.8	2072.6	2066.2	2055.8	2067.5	2064.9	2054.6	2050.7
5°	2057.2	2072.6	2062.3	2072.6	2062.3	2080.4	2075.3	2055.8	2079.1	2057.2	2064.9
7.5°	2053.2	2058.4	2061.0	2055.8	2052.0	2073.9	2062.3	2053.2	2040.4	2036.5	2042.9
10°	2044.2	2057.2	2037.7	2063.6	2068.8	2053.2	2053.2	2036.5	2026.1	2019.7	2041.6
12.5°	2067.5	2045.5	2042.9	2055.8	2059.7	2066.2	2048.1	2039.0	2019.7	2022.3	2018.3
15°	2040.4	2049.3	2050.7	2053.2	2057.2	2072.6	2055.8	2036.5	2028.7	2001.6	2004.1
17.5°	2050.7	2041.6	2050.7	2080.4	2075.3	2086.9	2068.8	2039.0	2020.9	2005.4	2026.1
20°	2068.8	2064.9	2068.8	2104.9	2111.4	2121.8	2106.3	2079.1	2044.2	2026.1	2036.5
22.5°	2088.2	2085.6	2088.2	2123.1	2160.6	2173.5	2158.0	2094.6	2076.5	2042.9	2031.3
25°	2123.1	2125.6	2152.8	2191.6	2216.2	2240.8	2212.3	2167.0	2108.9	2088.2	2063.6
27.5°	2200.6	2207.1	2222.7	2279.5	2322.2	2344.2	2304.1	2242.0	2205.9	2163.1	2156.7
30°	2296.4	2296.4	2323.5	2372.6	2430.8	2464.5	2415.3	2341.6	2297.6	2274.4	2260.1
32.5°	2423.1	2408.8	2419.1	2505.8	2596.3	2624.8	2558.8	2468.3	2398.4	2367.4	2357.1
35°	2531.7	2540.7	2564.0	2657.1	2758.0	2823.9	2720.5	2602.8	2531.7	2503.2	2498.0
37.5°	2672.6	2688.1	2699.8	2827.8	2949.3	2973.9	2874.3	2779.9	2693.3	2670.0	2657.1
40°	2871.7	2861.3	2865.3	2959.6	3069.6	3085.0	2986.8	2919.5	2848.5	2834.3	2834.3
42.5°	3035.9	3024.3	3037.2	3072.1	3156.2	3144.5	3090.3	3041.1	3011.4	2995.8	3011.4
45°	3135.5	3132.9	3156.2	3182.0	3241.6	3202.7	3160.1	3167.8	3139.4	3113.5	3112.2
47.5°	3244.1	3227.3	3255.8	3294.5	3249.3	3231.2	3228.6	3245.4	3236.3	3191.1	3176.9
50°	3297.1	3290.7	3335.9	3381.2	3356.6	3315.2	3324.2	3351.4	3235.1	3174.3	3139.4
52.5°	3439.4	3440.6	3527.2	3551.8	3541.5	3480.7	3500.1	3426.4	3289.3	3204.0	3207.9
55°	3663.1	3654.0	3750.9	3823.4	3835.0	3757.4	3664.3	3560.9	3388.9	3302.3	3276.5
57°	3540.2	3560.9	3668.2	3882.8	3991.5	3899.6	3696.6	3507.9	3279.0	3174.3	3127.8
57.5°	3375.9	3409.6	3595.8	3811.7	3925.5	3917.7	3656.6	3409.6	3205.3	3042.4	3046.3
60°	2473.5	2479.9	2648.1	2990.7	3346.3	3354.0	3035.9	2708.8	2481.2	2304.1	2328.6
62.5°	1304.6	1334.3	1401.6	1677.0	1984.8	2059.7	1867.1	1699.0	1502.4	1368.0	1380.9
65°	690.5	686.6	718.9	796.5	947.7	986.6	960.7	827.5	759.0	737.0	738.3
67.5°	561.1	567.6	563.7	567.6	577.9	594.8	590.9	596.1	600.0	606.4	605.1
70°	475.8	475.8	478.4	479.7	479.7	487.4	496.5	513.3	514.6	521.1	523.7
72.5°	375.0	372.4	376.3	385.3	386.6	393.1	406.0	416.4	420.2	420.2	412.4
75°	254.7	257.3	262.5	270.2	278.0	289.6	300.0	306.5	309.0	305.1	301.2
77.5°	143.6	146.1	150.0	161.6	170.6	181.0	192.7	199.1	205.6	206.9	199.1
80°	85.4	85.4	91.8	100.8	111.2	121.5	131.9	139.6	142.2	142.2	138.3
82.5°	51.7	53.0	58.2	67.2	76.3	82.8	91.8	98.2	103.4	102.2	99.6
85°	27.2	27.2	32.3	40.1	46.5	53.0	53.0	49.1	46.5	40.1	37.5
87.5°	9.1	7.7	10.3	10.3	9.1	10.3	10.3	11.6	11.6	11.6	11.6
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)