

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: P651214

Luminaire Tested: **GALN-SA2D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651214  
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-SA2D-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA 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: 11547.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

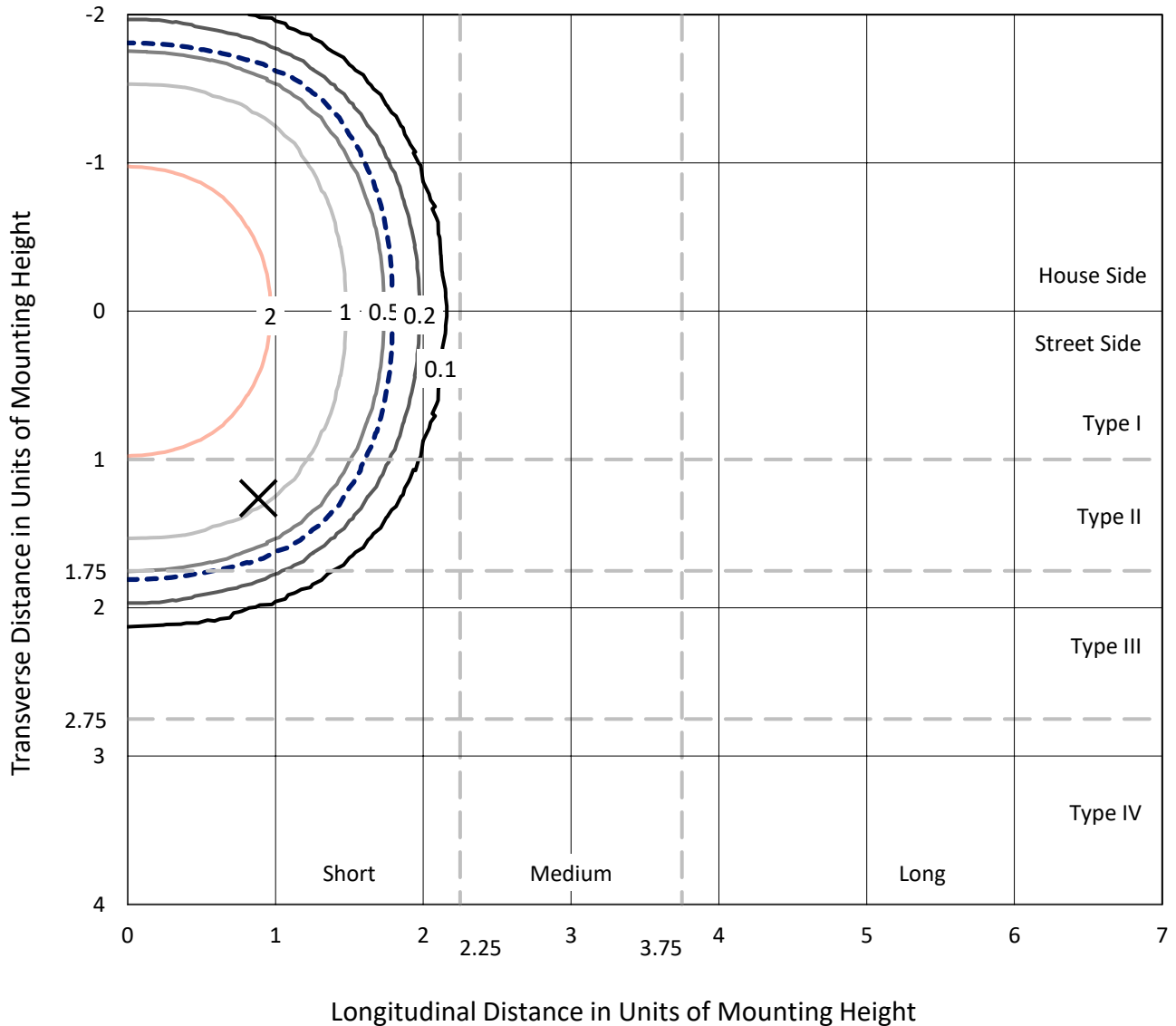
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

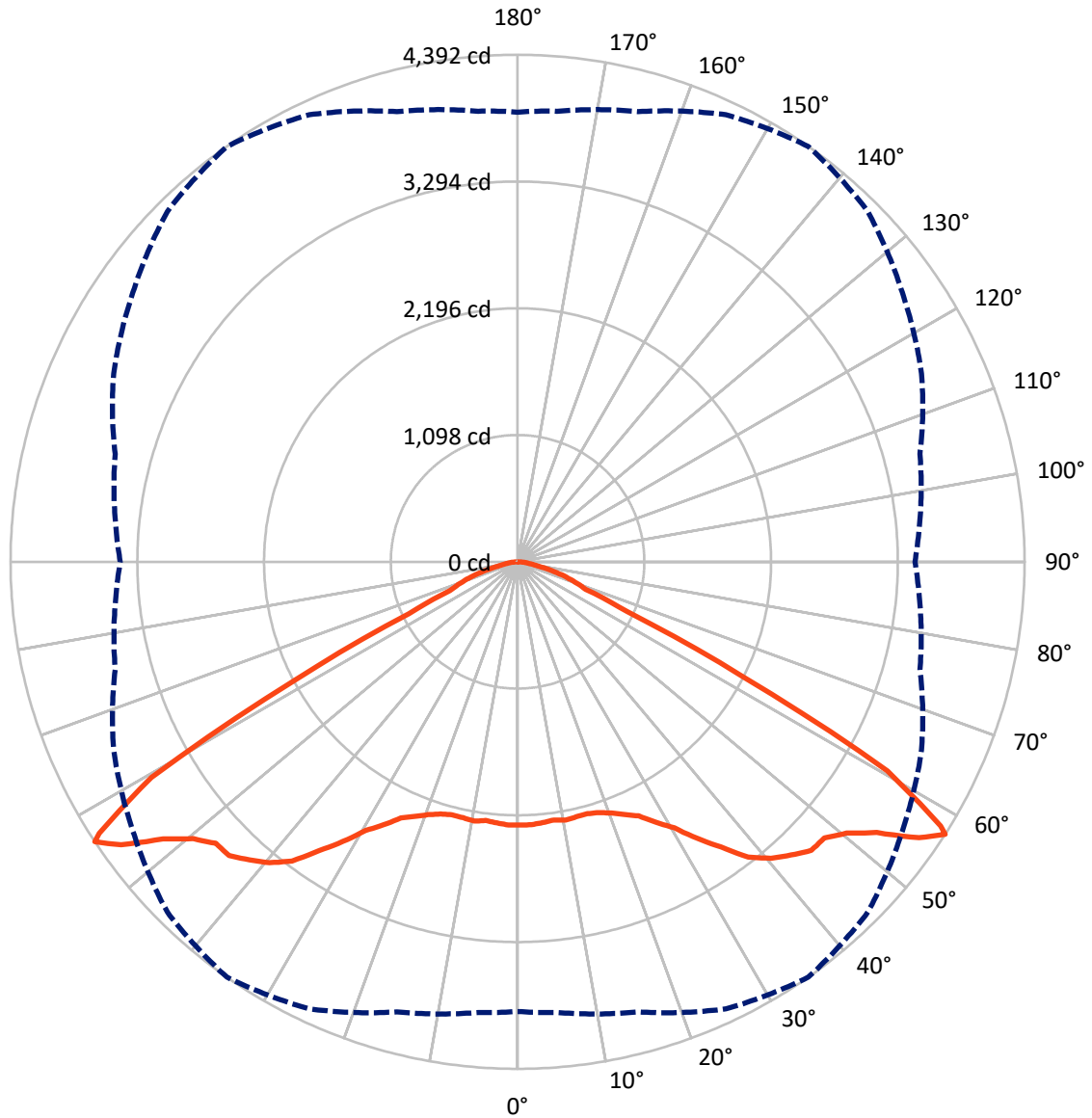
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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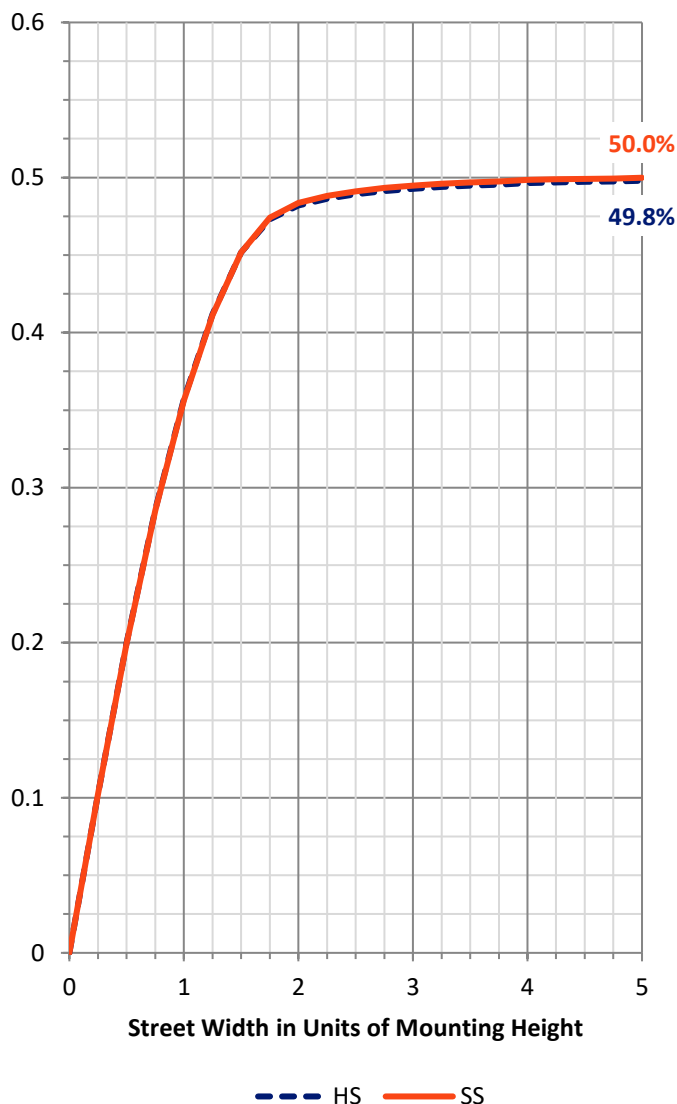
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5773.9	0.0	5773.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5773.9	0.0	5773.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11547.8	0.0	11547.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.2	1.9
10°-20°	640.4	5.5
20°-30°	1118.4	9.7
30°-40°	1832.5	15.9
40°-50°	2686.8	23.3
50°-60°	3384.3	29.3
60°-70°	1272.8	11.0
70°-80°	338.4	2.9
80°-90°	58.0	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°	11547.8	100.0
0°-180°	11547.8	100.0

**Coefficient of Utilization**

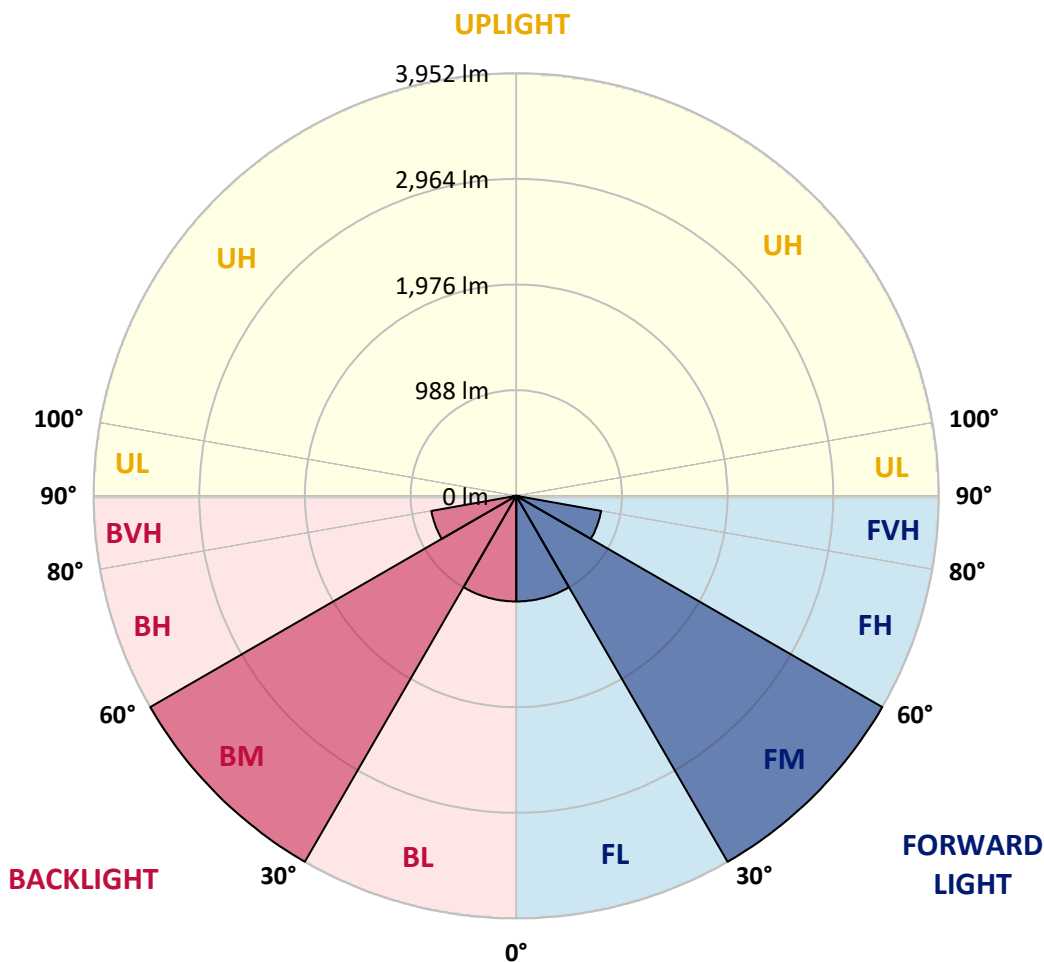


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.5	8.6			
FM (30°-60°)	3951.8	34.2			
FH (60°-80°)	805.6	7.0			G1/1800
FVH (80°-90°)	29.0	0.3			G1/100
BL (0°-30°)	987.5	8.6	B2/1000		
BM (30°-60°)	3951.8	34.2	B3/5000		
BH (60°-80°)	805.6	7.0	B2/1000		G1/1800
BVH (80°-90°)	29.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6
2.5°	2269.2	2292.0	2282.1	2276.3	2280.6	2273.5	2262.1	2274.9	2272.0	2260.7	2256.4
5°	2263.6	2280.6	2269.2	2280.6	2269.2	2289.1	2283.5	2262.1	2287.7	2263.6	2272.0
7.5°	2259.3	2265.0	2267.8	2262.1	2257.8	2282.1	2269.2	2259.3	2245.0	2240.8	2247.9
10°	2249.3	2263.6	2242.2	2270.6	2276.3	2259.3	2259.3	2240.8	2229.4	2222.3	2246.5
12.5°	2274.9	2250.7	2247.9	2262.1	2266.4	2273.5	2253.5	2243.6	2222.3	2225.1	2220.8
15°	2245.0	2255.0	2256.4	2259.3	2263.6	2280.6	2262.1	2240.8	2232.3	2202.3	2205.2
17.5°	2256.4	2246.5	2256.4	2289.1	2283.5	2296.3	2276.3	2243.6	2223.7	2206.6	2229.4
20°	2276.3	2272.0	2276.3	2316.2	2323.3	2334.7	2317.6	2287.7	2249.3	2229.4	2240.8
22.5°	2297.7	2294.8	2297.7	2336.0	2377.3	2391.6	2374.5	2304.8	2284.8	2247.9	2235.0
25°	2336.0	2338.9	2368.8	2411.5	2438.5	2465.6	2434.3	2384.5	2320.4	2297.7	2270.6
27.5°	2421.4	2428.6	2445.6	2508.2	2555.2	2579.3	2535.3	2467.0	2427.1	2380.2	2373.0
30°	2526.7	2526.7	2556.6	2610.6	2674.7	2711.7	2657.6	2576.5	2528.1	2502.6	2486.9
32.5°	2666.1	2650.5	2661.8	2757.2	2856.8	2888.1	2815.5	2715.9	2639.1	2605.0	2593.6
35°	2785.6	2795.7	2821.2	2923.7	3034.7	3107.2	2993.4	2863.9	2785.6	2754.4	2748.6
37.5°	2940.7	2957.8	2970.6	3111.4	3245.2	3272.2	3162.7	3058.8	2963.5	2937.9	2923.7
40°	3159.8	3148.5	3152.7	3256.6	3377.5	3394.6	3286.5	3212.5	3134.2	3118.6	3118.6
42.5°	3340.5	3327.8	3342.0	3380.3	3472.8	3460.0	3400.2	3346.2	3313.5	3296.4	3313.5
45°	3450.0	3447.3	3472.8	3501.3	3566.8	3524.0	3477.1	3485.6	3454.3	3425.9	3424.5
47.5°	3569.5	3551.0	3582.4	3625.0	3575.3	3555.3	3552.5	3571.0	3561.0	3511.3	3495.6
50°	3627.9	3620.8	3670.5	3720.4	3693.3	3647.8	3657.8	3687.6	3559.6	3492.8	3454.3
52.5°	3784.4	3785.8	3881.1	3908.2	3896.8	3829.9	3851.3	3770.2	3619.3	3525.5	3529.8
55°	4030.5	4020.6	4127.3	4206.9	4219.7	4134.4	4031.9	3918.1	3728.9	3633.6	3605.1
57°	3895.3	3918.1	4036.2	4272.4	4391.9	4290.9	4067.5	3859.8	3608.0	3492.8	3441.5
57.5°	3714.7	3751.7	3956.6	4194.2	4319.4	4310.8	4023.4	3751.7	3526.9	3347.6	3351.9
60°	2721.6	2728.8	2913.7	3290.7	3682.0	3690.5	3340.5	2980.6	2730.1	2535.3	2562.3
62.5°	1435.5	1468.2	1542.2	1845.2	2183.8	2266.4	2054.4	1869.5	1653.2	1505.2	1519.4
65°	759.8	755.5	791.0	876.4	1042.8	1085.6	1057.1	910.6	835.1	811.0	812.4
67.5°	617.5	624.5	620.3	624.5	636.0	654.5	650.2	655.9	660.1	667.2	665.8
70°	523.5	523.5	526.4	527.8	527.8	536.4	546.3	564.8	566.2	573.3	576.2
72.5°	412.6	409.7	414.0	423.9	425.4	432.5	446.7	458.1	462.4	462.4	453.8
75°	280.3	283.1	288.8	297.4	305.9	318.7	330.1	337.2	340.0	335.7	331.5
77.5°	157.9	160.8	165.0	177.9	187.8	199.1	212.0	219.1	226.2	227.7	219.1
80°	93.9	93.9	101.0	111.0	122.4	133.7	145.2	153.7	156.5	156.5	152.2
82.5°	56.9	58.4	64.0	74.0	83.9	91.1	101.0	108.2	113.8	112.4	109.6
85°	29.9	29.9	35.6	44.1	51.2	58.4	58.4	54.1	51.2	44.1	41.3
87.5°	9.9	8.6	11.4	11.4	9.9	11.4	11.4	12.8	12.8	12.8	12.8
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)