

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: P651220

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11099.5 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

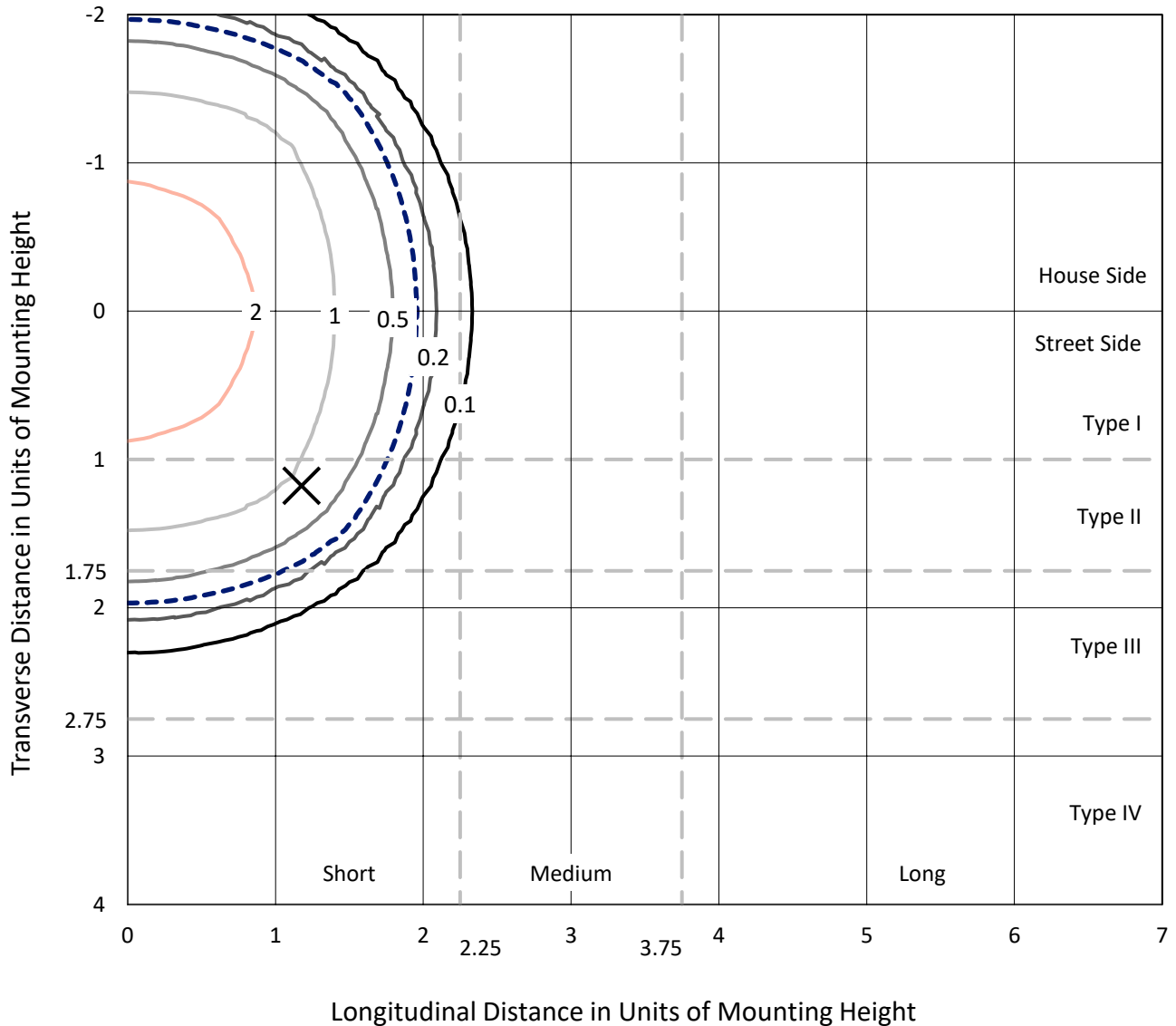
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

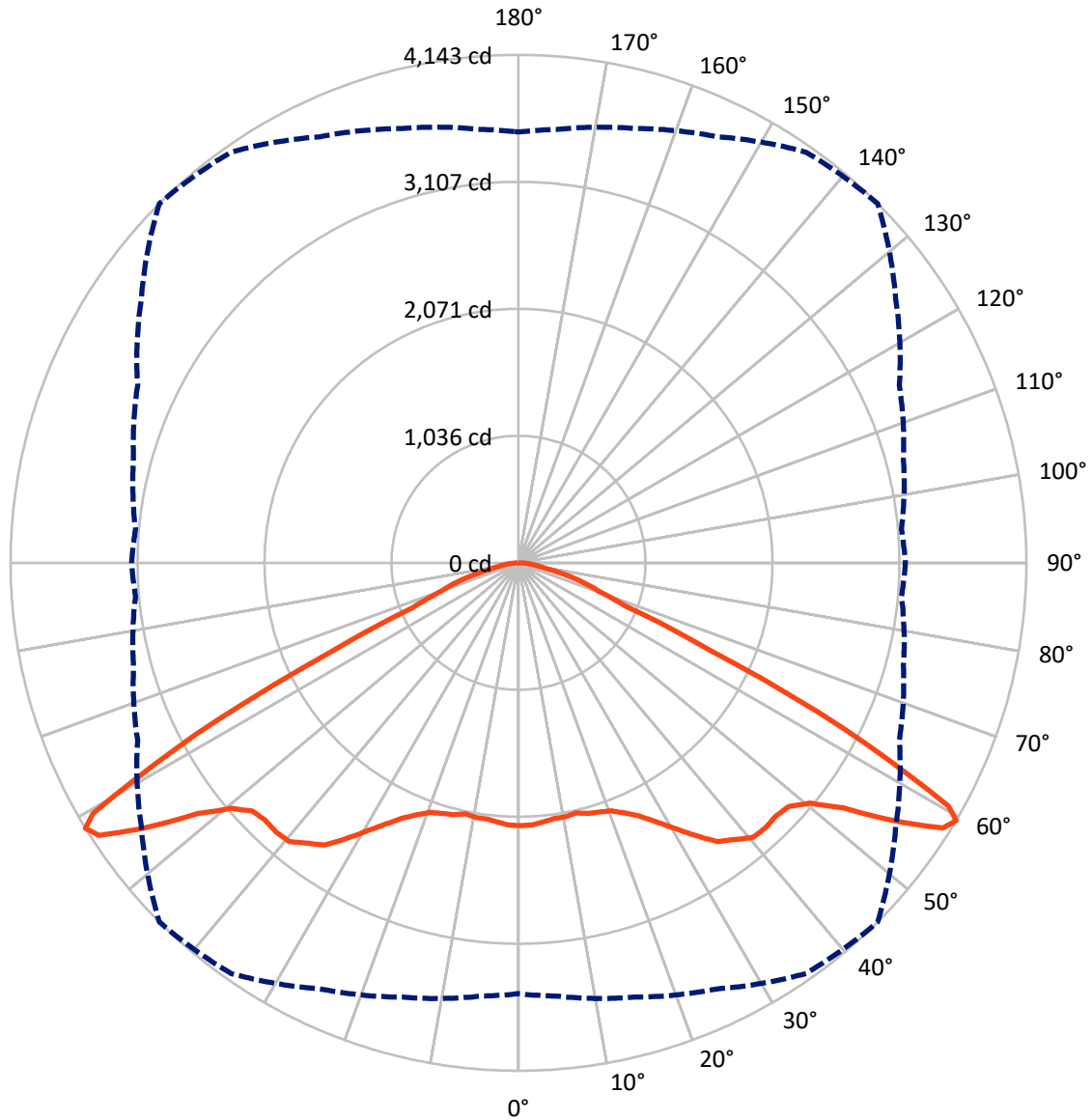
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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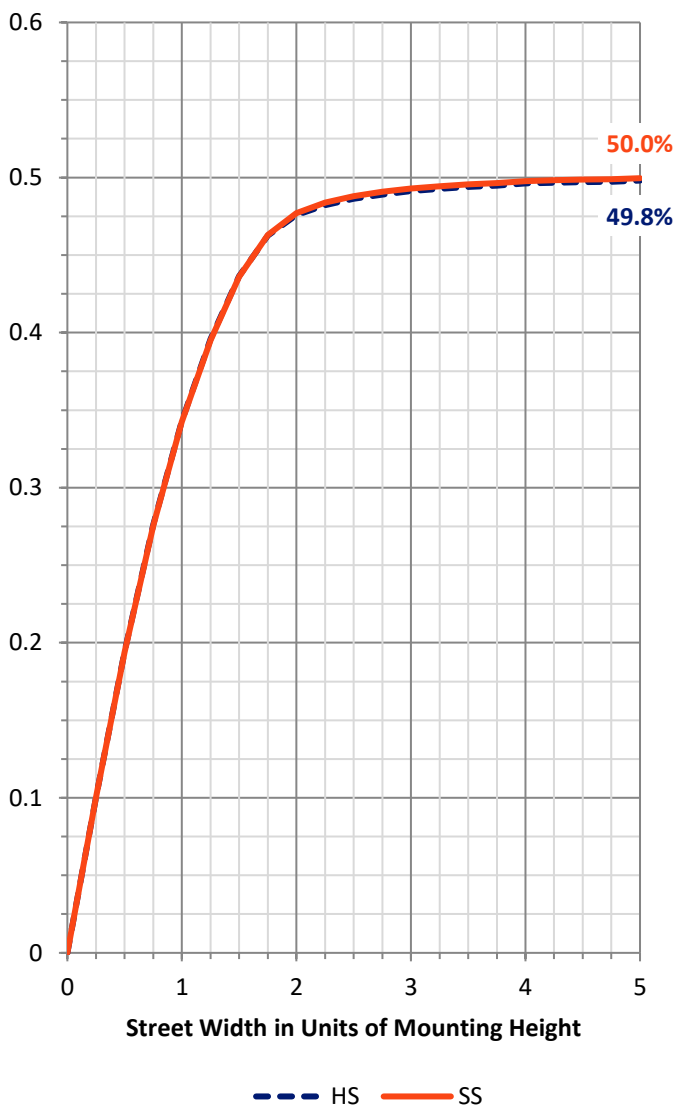
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5549.8	0.0	5549.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5549.8	0.0	5549.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11099.5	0.0	11099.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.1	1.8
10°-20°	601.0	5.4
20°-30°	1049.4	9.5
30°-40°	1676.1	15.1
40°-50°	2283.2	20.6
50°-60°	3087.5	27.8
60°-70°	1693.2	15.3
70°-80°	433.2	3.9
80°-90°	73.9	0.7
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°	11099.5	100.0
0°-180°	11099.5	100.0

**Coefficient of Utilization**



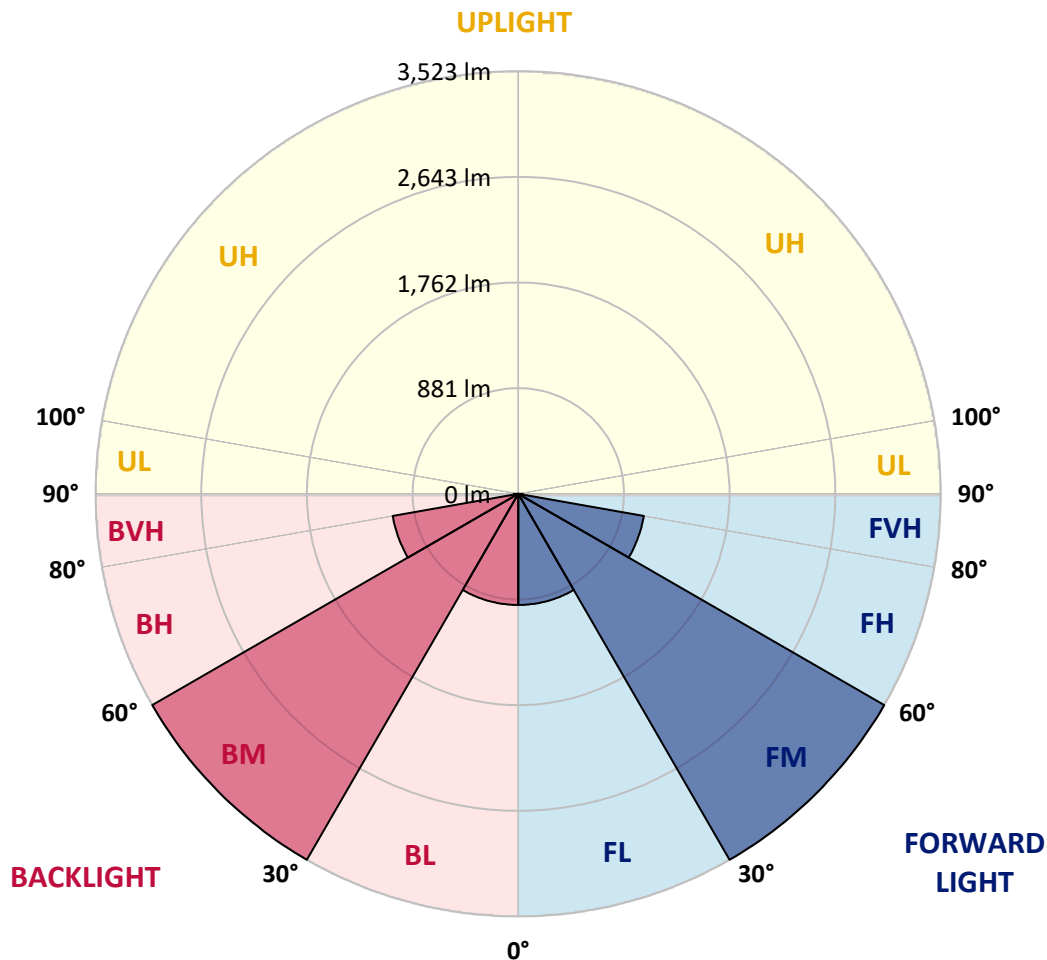
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.3	8.3			
FM (30°-60°)	3523.4	31.7			
FH (60°-80°)	1063.2	9.6			G1/1800
FVH (80°-90°)	36.9	0.3			G1/100
BL (0°-30°)	926.3	8.3	B2/1000		
BM (30°-60°)	3523.4	31.7	B3/5000		
BH (60°-80°)	1063.2	9.6	B3/2500		G1/1800
BVH (80°-90°)	36.9	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°	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9
2.5°	2131.1	2146.7	2135.4	2145.3	2143.9	2139.6	2132.5	2128.2	2122.5	2131.1	2116.9
5°	2122.5	2135.4	2148.2	2131.1	2131.1	2122.5	2118.3	2109.7	2109.7	2108.3	2106.9
7.5°	2136.8	2123.9	2118.3	2121.2	2123.9	2105.4	2118.3	2101.2	2087.0	2096.9	2108.3
10°	2123.9	2129.7	2108.3	2118.3	2102.7	2105.4	2096.9	2108.3	2092.7	2092.7	2092.7
12.5°	2136.8	2121.2	2128.2	2121.2	2116.9	2092.7	2104.1	2091.2	2089.8	2104.1	2091.2
15°	2162.4	2136.8	2131.1	2116.9	2121.2	2121.2	2109.7	2111.2	2095.5	2104.1	2106.9
17.5°	2153.9	2139.6	2135.4	2118.3	2132.5	2136.8	2115.5	2101.2	2111.2	2109.7	2108.3
20°	2160.9	2166.7	2162.4	2165.2	2171.0	2159.5	2139.6	2119.7	2106.9	2125.4	2123.9
22.5°	2206.5	2200.8	2198.0	2195.1	2205.1	2216.5	2189.5	2158.1	2158.1	2171.0	2176.6
25°	2243.5	2242.0	2240.7	2253.5	2287.6	2287.6	2253.5	2213.6	2203.7	2212.2	2205.1
27.5°	2297.5	2313.2	2307.5	2330.2	2380.0	2391.5	2345.9	2299.0	2272.0	2262.0	2274.7
30°	2421.3	2402.8	2407.1	2431.2	2475.4	2512.3	2442.7	2392.9	2355.9	2354.5	2360.1
32.5°	2503.8	2518.0	2530.8	2553.6	2623.3	2651.8	2567.8	2486.8	2464.0	2451.2	2455.5
35°	2668.8	2656.0	2653.2	2676.0	2745.7	2792.6	2687.3	2616.2	2586.3	2614.8	2614.8
37.5°	2825.3	2789.8	2762.8	2792.6	2856.6	2862.3	2772.7	2734.3	2718.6	2751.3	2749.9
40°	2899.3	2896.5	2833.8	2850.9	2936.3	2944.8	2860.9	2815.4	2812.6	2855.2	2897.9
42.5°	2976.1	2949.1	2886.5	2897.9	2950.6	2953.3	2873.7	2860.9	2892.2	2933.5	2936.3
45°	2988.9	2966.2	2926.3	2897.9	2936.3	2944.8	2897.9	2906.4	2909.3	2959.1	2959.1
47.5°	3014.6	3011.7	2988.9	2967.6	2974.7	2967.6	2937.7	2950.6	2993.2	3017.4	3006.0
50°	3085.7	3055.8	3078.6	3060.1	3061.5	3081.4	3054.3	3067.2	3058.6	3037.3	3023.1
52.5°	3242.1	3227.9	3247.9	3260.6	3274.9	3320.4	3289.2	3220.9	3156.8	3099.9	3098.5
55°	3471.2	3481.2	3519.6	3585.0	3640.5	3713.0	3562.2	3398.6	3296.2	3206.6	3212.3
57.5°	3687.4	3680.3	3732.9	3882.3	4044.5	4081.5	3785.6	3552.3	3385.9	3328.9	3304.8
59°	3513.9	3548.0	3667.5	3834.0	4088.6	4142.7	3755.7	3427.1	3250.7	3135.5	3155.3
60°	3240.7	3253.6	3360.2	3592.2	3936.4	4028.9	3555.2	3233.6	2998.9	2932.1	2961.9
62.5°	2290.5	2280.5	2357.3	2546.5	2855.2	2980.4	2643.3	2417.0	2269.1	2195.1	2212.2
65°	1217.8	1263.3	1294.6	1412.6	1576.3	1708.6	1569.1	1471.0	1388.5	1327.4	1325.9
67.5°	822.2	816.6	823.7	850.8	906.2	943.2	940.3	890.5	883.5	872.0	884.9
70°	692.8	690.0	677.2	677.2	688.5	697.1	707.0	712.7	724.1	738.3	736.9
72.5°	562.0	554.8	546.3	542.0	556.2	560.5	573.3	579.0	589.0	587.5	600.3
75°	371.3	371.3	381.2	392.7	397.0	405.4	406.9	423.9	423.9	426.8	415.4
77.5°	207.7	202.0	209.2	220.5	230.4	246.1	261.8	274.6	281.7	278.9	278.9
80°	120.9	120.9	128.0	140.9	153.7	167.9	179.2	189.2	196.3	193.5	187.8
82.5°	75.4	75.4	82.5	95.3	105.3	113.8	129.4	142.3	150.8	147.9	140.9
85°	38.4	38.4	46.9	55.5	68.3	74.0	72.6	66.9	65.4	58.4	58.4
87.5°	9.9	9.9	14.2	15.6	12.8	14.2	14.2	14.2	14.2	14.2	15.6
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)