

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: P647287

Luminaire Tested: **GALN-SA2D-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12159.2 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

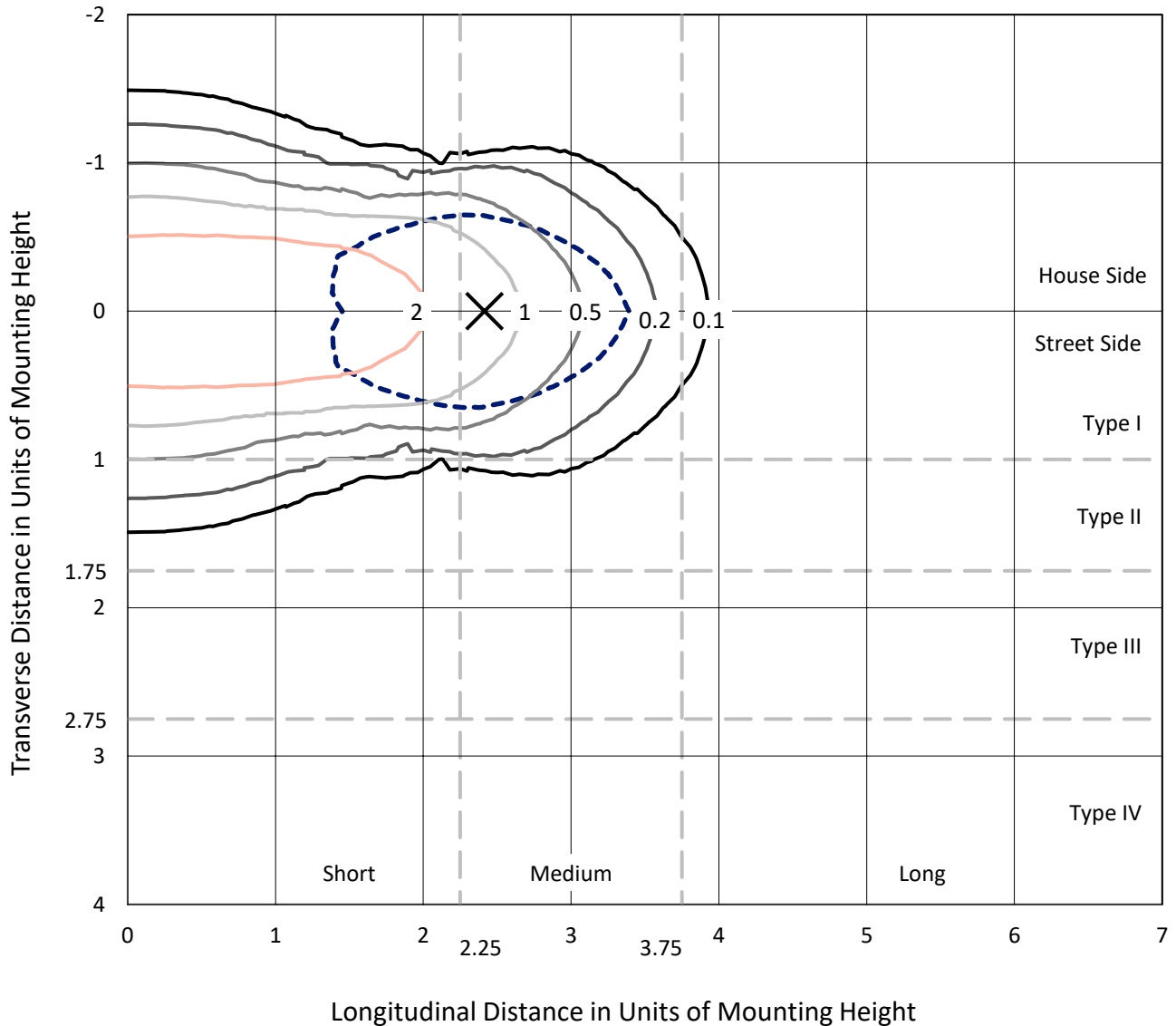
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

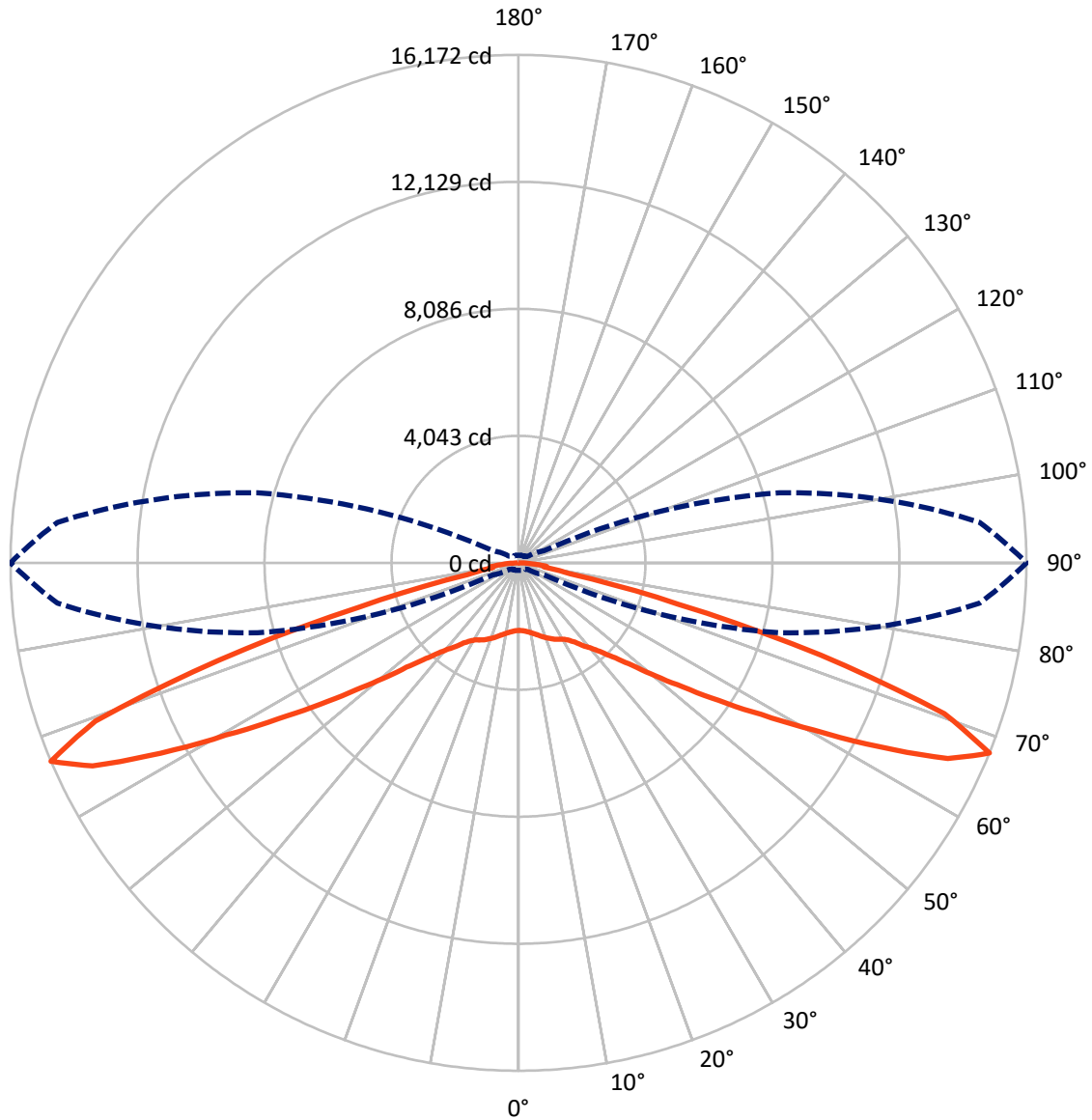
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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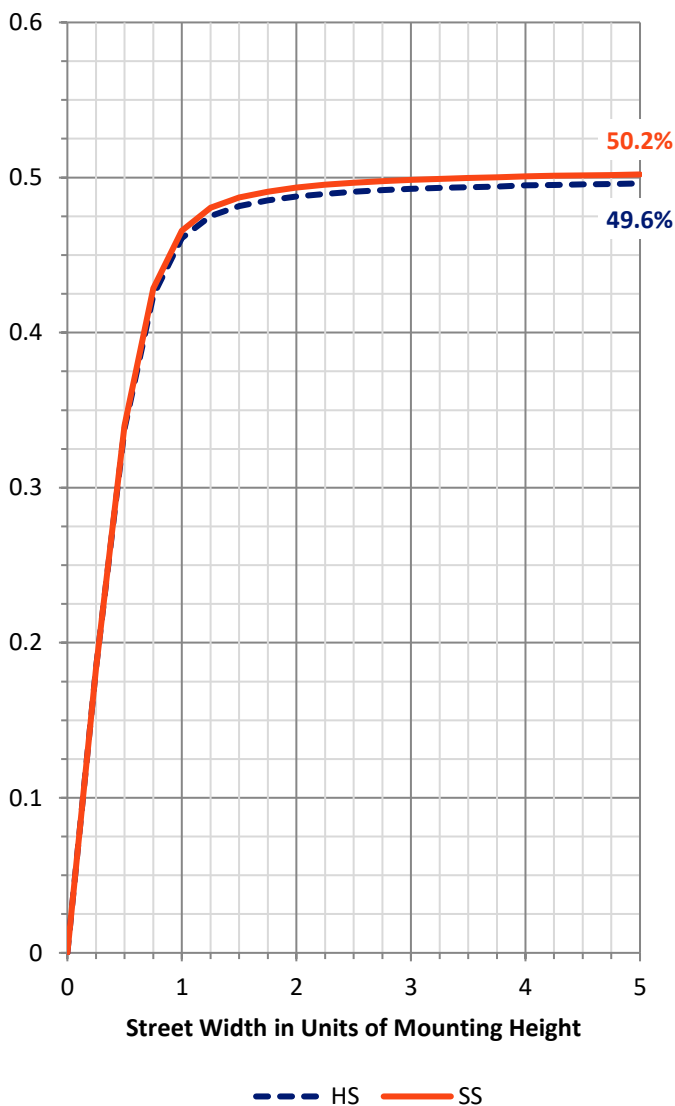
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6079.6	0.0	6079.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6079.6	0.0	6079.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12159.2	0.0	12159.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	1.8
10°-20°	686.6	5.6
20°-30°	1149.3	9.5
30°-40°	1556.9	12.8
40°-50°	1972.1	16.2
50°-60°	2463.7	20.3
60°-70°	2895.9	23.8
70°-80°	1107.8	9.1
80°-90°	112.2	0.9
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°	12159.2	100.0
0°-180°	12159.2	100.0

**Coefficient of Utilization**



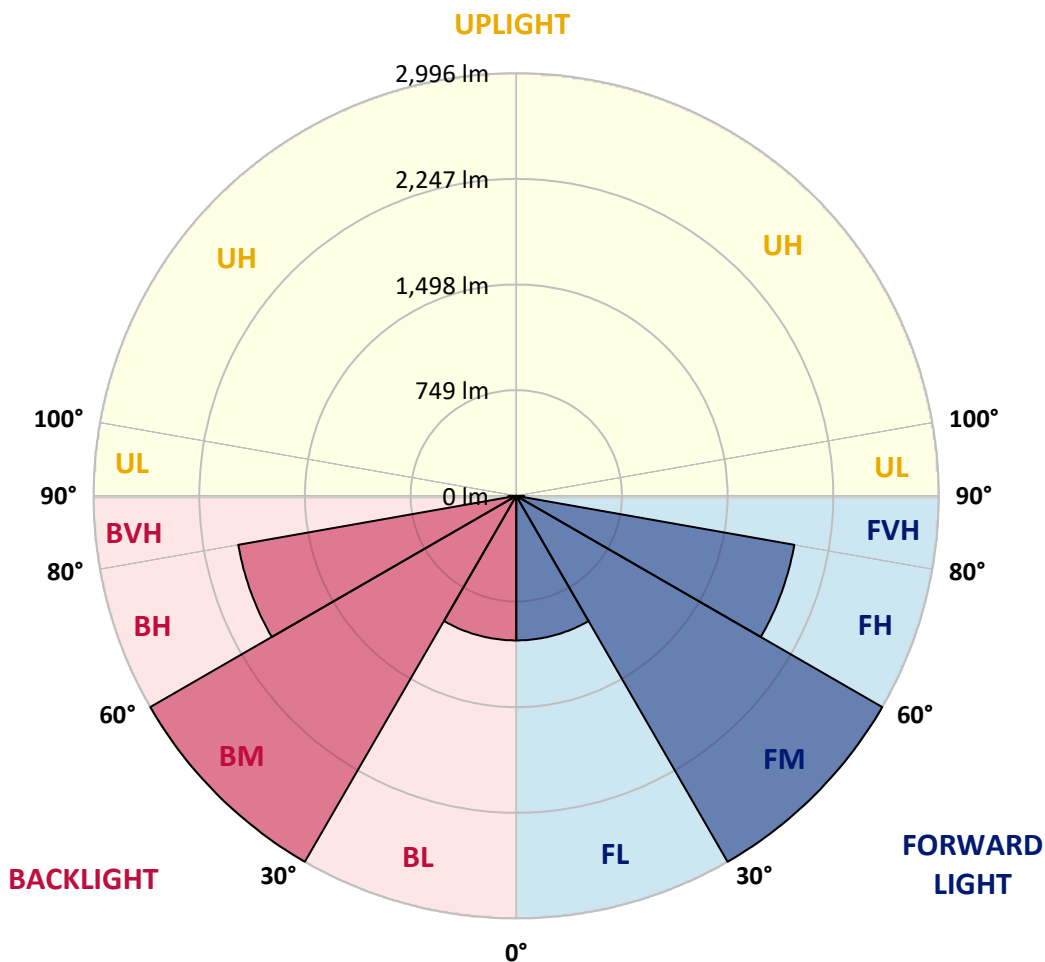
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.2	8.4			
FM (30°-60°)	2996.4	24.6			
FH (60°-80°)	2001.9	16.5			G2/5000
FVH (80°-90°)	56.1	0.5			G1/100
BL (0°-30°)	1025.2	8.4	B3/2500		
BM (30°-60°)	2996.4	24.6	B3/5000		
BH (60°-80°)	2001.9	16.5	B3/2500		G3/2500
BVH (80°-90°)	56.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5	2152.5
2.5°	2180.2	2178.9	2179.5	2178.9	2180.8	2179.5	2171.4	2164.7	2159.3	2160.0	2157.9
5°	2226.6	2227.3	2227.9	2224.6	2229.3	2226.6	2213.9	2203.0	2192.3	2188.3	2186.9
7.5°	2265.0	2268.4	2270.4	2273.8	2281.8	2281.8	2275.1	2259.6	2236.0	2222.5	2221.9
10°	2303.4	2306.1	2312.1	2322.9	2336.4	2349.2	2346.5	2325.6	2295.3	2272.4	2267.0
12.5°	2316.8	2320.2	2340.4	2371.4	2401.7	2426.6	2426.6	2409.8	2370.7	2335.7	2325.6
15°	2269.7	2275.8	2312.1	2378.1	2457.6	2512.1	2524.2	2500.7	2458.9	2405.1	2392.9
17.5°	2176.1	2190.9	2244.2	2341.7	2473.7	2586.9	2621.9	2610.4	2556.6	2487.8	2473.7
20°	2075.8	2091.9	2148.6	2277.8	2460.3	2630.6	2732.3	2734.9	2668.3	2568.6	2547.8
22.5°	1965.4	1977.5	2050.2	2201.7	2419.9	2640.7	2827.2	2873.7	2783.4	2649.4	2619.8
25°	1841.5	1854.9	1931.0	2094.7	2343.8	2629.2	2914.1	3016.4	2904.0	2735.6	2697.9
27.5°	1723.0	1728.4	1809.8	1976.1	2243.5	2599.6	2978.1	3147.7	3037.3	2807.0	2759.2
30°	1609.2	1622.0	1694.0	1858.3	2128.4	2541.7	3033.3	3297.2	3180.7	2881.8	2820.4
32.5°	1488.7	1504.1	1582.3	1748.6	2013.2	2454.9	3066.9	3460.8	3380.7	3003.0	2937.7
35°	1372.8	1382.9	1461.8	1623.3	1900.7	2353.9	3073.0	3645.3	3638.5	3186.7	3099.9
37.5°	1254.4	1269.2	1348.6	1503.5	1781.6	2246.8	3042.7	3841.2	3949.6	3441.9	3348.3
40°	1140.6	1153.4	1231.5	1387.7	1646.3	2116.2	2970.6	4020.3	4312.5	3704.5	3571.9
42.5°	1016.7	1020.1	1105.6	1264.5	1513.6	1964.7	2867.0	4179.9	4717.2	4056.6	3891.7
45°	875.9	884.7	964.2	1120.4	1361.4	1795.0	2726.2	4311.8	5230.2	4544.8	4320.0
47.5°	735.2	742.7	815.3	969.6	1195.1	1600.5	2509.4	4427.6	5756.8	5164.9	4870.0
50°	597.9	602.0	661.2	797.9	1008.0	1395.8	2240.8	4464.7	6351.9	6042.9	5666.6
52.5°	472.7	478.7	523.8	630.9	808.0	1154.1	1950.5	4373.1	7046.8	7083.9	6553.3
55°	383.1	385.2	418.8	497.6	631.6	900.9	1600.5	4118.0	7794.2	8417.6	7741.0
57.5°	330.0	331.3	350.2	393.8	486.2	679.3	1241.6	3635.2	8465.5	9980.4	9110.5
60°	299.7	300.3	311.1	336.7	385.2	521.2	889.4	2953.8	9128.0	11719.6	10812.6
62.5°	280.8	280.8	288.1	302.3	325.9	400.0	644.3	2131.0	9581.8	13484.3	12910.7
65°	262.6	262.6	267.9	278.0	290.9	327.2	476.1	1389.7	9570.4	14769.7	15020.8
67.5°	241.7	241.7	245.8	255.9	263.2	281.4	367.6	910.3	8596.8	14741.4	16172.2
70°	216.8	216.8	222.2	230.9	237.0	248.4	290.2	622.8	6315.6	12586.8	14382.5
72.5°	191.9	192.5	195.9	204.7	209.4	216.1	241.0	436.3	3874.2	8570.5	10056.5
75°	164.3	165.6	169.0	177.7	181.8	184.5	203.3	311.1	1960.0	4620.9	5261.2
77.5°	132.6	135.3	137.3	146.8	149.5	153.5	167.6	224.9	860.5	1660.4	1675.2
80°	96.9	100.3	106.4	115.1	117.1	119.9	127.9	159.6	389.9	758.2	823.5
82.5°	71.3	76.1	68.7	80.1	80.1	76.7	90.2	107.0	179.1	750.7	898.2
85°	39.1	39.7	35.7	41.1	43.8	43.1	47.8	52.5	86.8	501.0	516.4
87.5°	9.4	10.1	10.8	12.8	15.5	15.5	16.8	14.8	28.3	162.2	92.9
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)