

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: P947224

Luminaire Tested: **GALN-SB2C-927-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-927-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

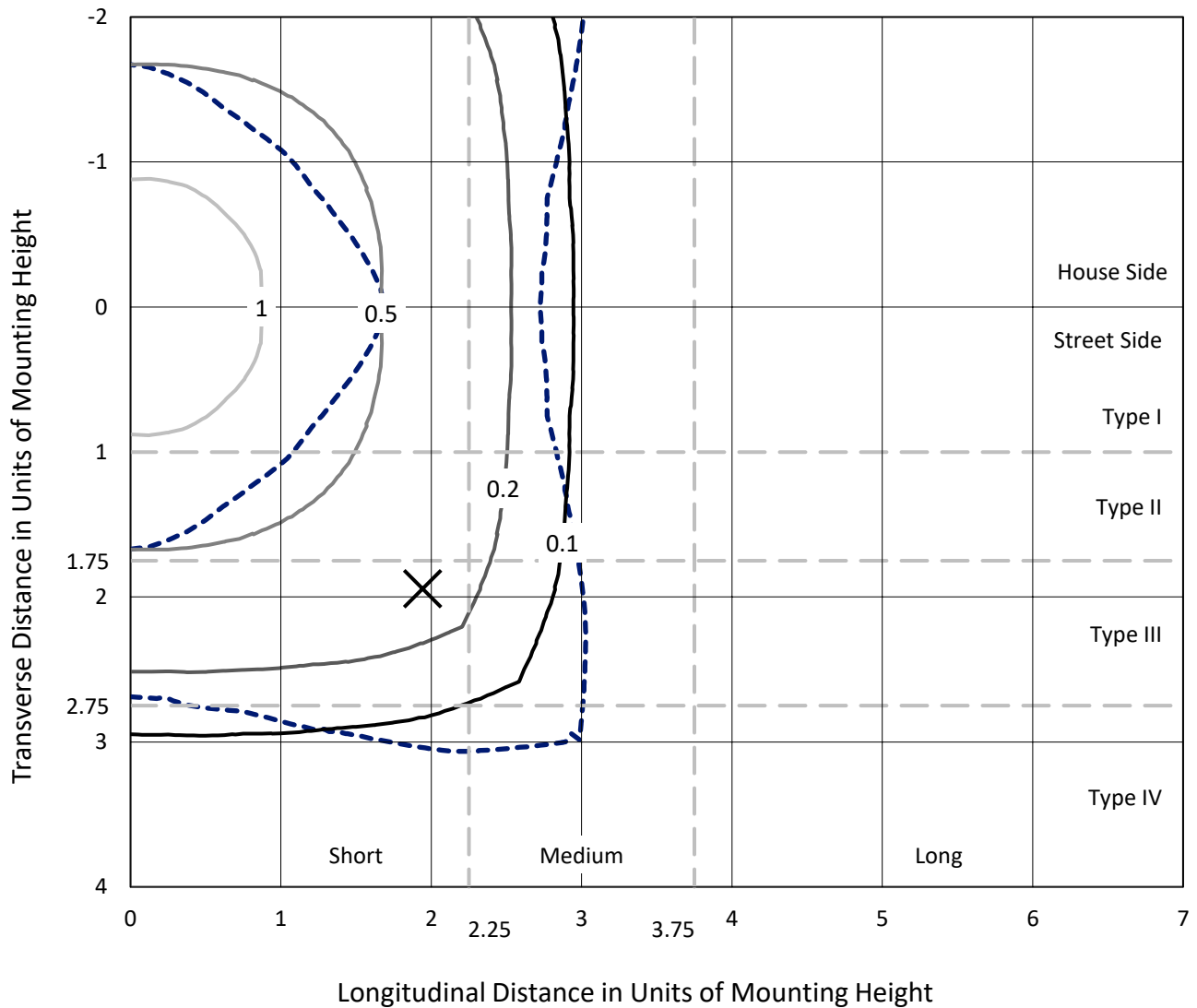
Lumens per Lamp: N/A  
Luminaire Lumens: 9547 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

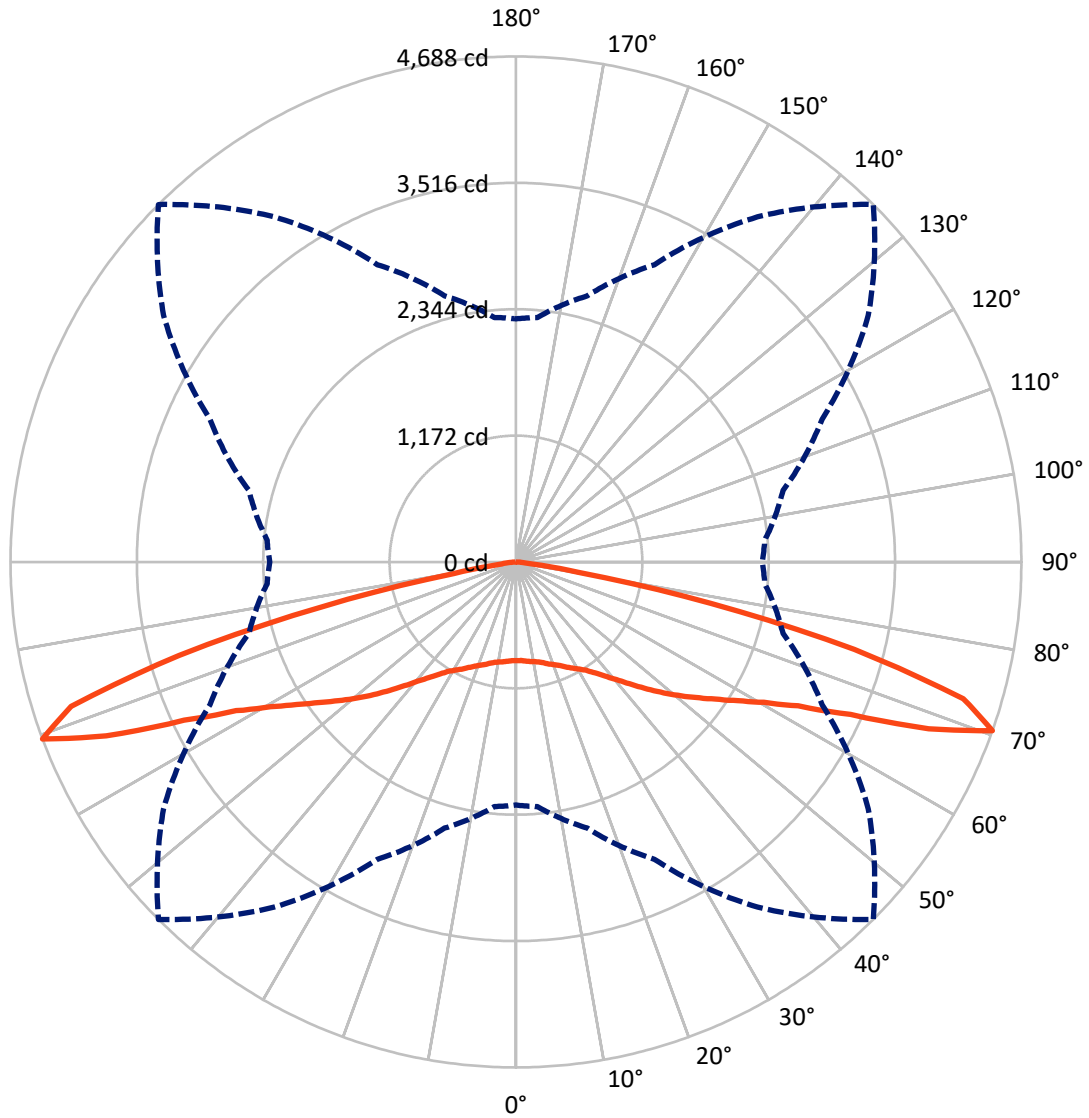
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4773.5	0.0	4773.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4773.5	0.0	4773.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9547.0	0.0	9547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	0.9
10°-20°	275.5	2.9
20°-30°	492.3	5.2
30°-40°	798.1	8.4
40°-50°	1299.9	13.6
50°-60°	1982.0	20.8
60°-70°	2948.5	30.9
70°-80°	1607.1	16.8
80°-90°	54.7	0.6
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°	9547.0	100.0
0°-180°	9547.0	100.0

**Coefficient of Utilization**



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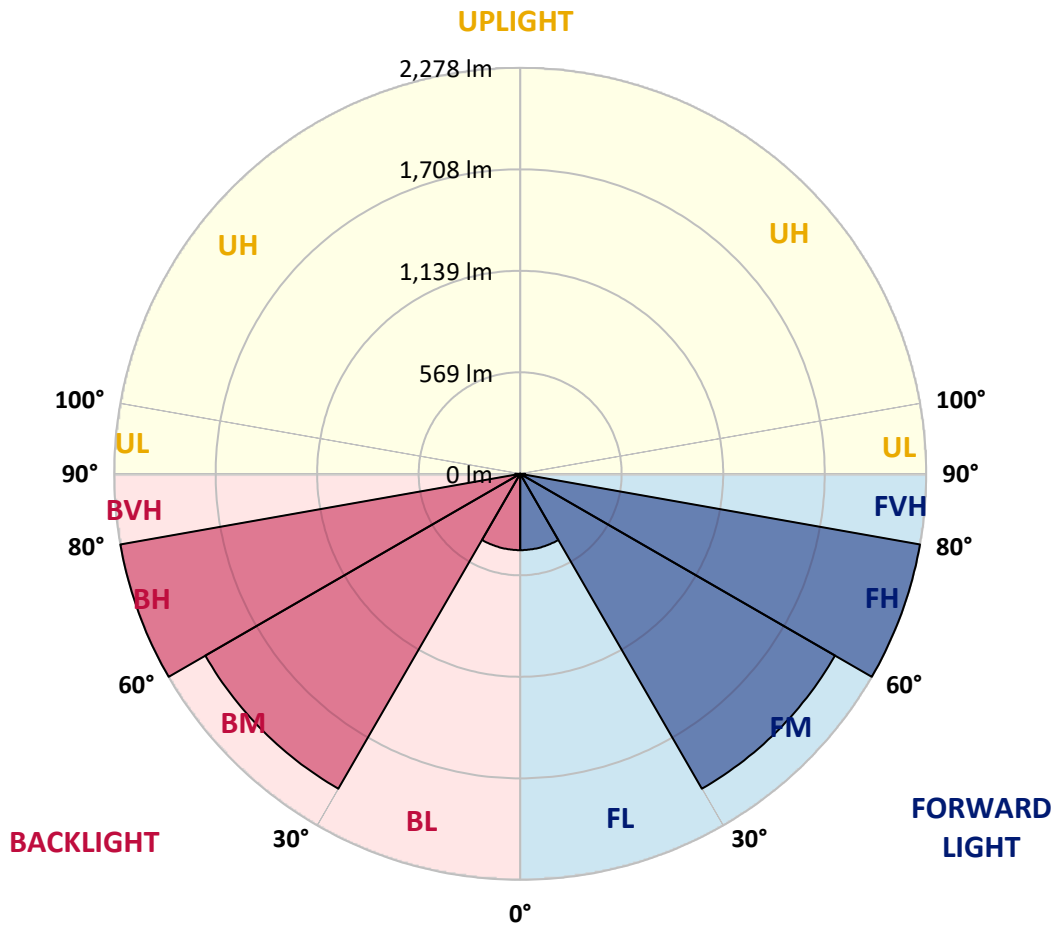
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.3	4.5			
FM (30°-60°)	2040.0	21.4			
FH (60°-80°)	2277.8	23.9			G2/5000
FVH (80°-90°)	27.4	0.3			G1/100
BL (0°-30°)	428.3	4.5	B1/500		
BM (30°-60°)	2040.0	21.4	B2/2500		
BH (60°-80°)	2277.8	23.9	B3/2500		G2/5000
BVH (80°-90°)	27.4	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-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5	914.5
2.5°	918.8	919.8	917.9	916.9	915.9	914.5	915.0	917.4	919.3	918.8
5°	926.5	927.4	926.0	925.5	923.6	923.1	923.1	925.5	927.0	926.0
7.5°	935.1	936.6	934.2	933.7	932.7	931.8	931.3	933.7	935.1	935.1
10°	943.3	944.7	942.8	941.3	940.4	940.4	939.4	941.3	943.7	943.3
12.5°	951.9	952.8	950.9	950.0	950.0	951.4	950.0	950.9	952.8	951.9
15°	962.4	962.9	962.4	963.9	966.3	971.1	966.7	965.8	966.7	964.4
17.5°	976.8	977.8	979.7	983.0	986.4	995.0	987.4	985.0	985.0	980.2
20°	994.5	996.0	998.9	1004.6	1008.9	1017.1	1009.4	1006.1	1004.6	998.4
22.5°	1013.2	1015.6	1019.9	1027.6	1035.3	1043.0	1035.3	1029.5	1025.2	1017.1
25°	1034.8	1037.7	1044.4	1056.9	1067.4	1078.4	1069.3	1057.8	1049.2	1037.7
27.5°	1065.5	1068.8	1077.0	1092.3	1105.7	1115.3	1106.7	1091.8	1079.9	1066.0
30°	1108.6	1112.0	1121.6	1137.9	1147.0	1153.2	1147.4	1135.9	1121.6	1105.7
32.5°	1164.2	1168.5	1179.1	1194.4	1196.3	1197.3	1195.4	1189.6	1179.1	1159.9
35°	1234.7	1239.5	1251.5	1263.9	1262.0	1263.9	1261.0	1259.1	1251.5	1229.4
37.5°	1320.9	1326.7	1339.2	1348.7	1344.0	1341.6	1342.0	1342.5	1338.2	1313.8
40°	1421.1	1428.8	1437.9	1448.0	1439.8	1432.6	1437.4	1441.3	1437.4	1412.5
42.5°	1524.2	1535.2	1544.8	1559.2	1552.5	1543.3	1550.1	1554.4	1546.2	1519.4
45°	1638.7	1649.3	1661.7	1683.3	1678.5	1668.9	1678.5	1679.5	1665.6	1633.9
47.5°	1757.1	1768.1	1786.8	1815.6	1813.7	1803.1	1815.6	1808.9	1791.1	1753.3
50°	1869.3	1884.6	1913.4	1953.6	1957.5	1944.5	1961.3	1948.4	1918.6	1871.2
52.5°	1974.7	1991.0	2036.5	2091.2	2105.1	2088.3	2110.8	2088.3	2043.7	1982.9
55°	2085.4	2103.6	2157.8	2229.2	2257.0	2244.6	2265.6	2231.6	2168.4	2094.5
57.5°	2215.8	2226.8	2291.5	2376.4	2423.3	2426.2	2435.8	2378.3	2301.6	2217.7
60°	2357.2	2372.5	2443.0	2544.6	2618.9	2642.9	2632.8	2547.5	2458.3	2362.0
62.5°	2538.4	2555.1	2639.5	2761.2	2878.7	2938.1	2898.8	2775.1	2664.9	2549.4
65°	2688.4	2707.1	2859.5	3076.6	3290.4	3409.7	3311.0	3083.3	2884.9	2721.9
67.5°	2579.6	2602.6	2841.8	3240.5	3772.1	4128.2	3790.3	3289.4	2900.7	2679.8
70°	2254.6	2276.2	2555.1	3042.6	3907.7	4688.0	3989.2	3132.2	2564.3	2316.9
72.5°	1496.9	1566.4	1848.7	2433.4	3489.3	4338.1	3523.8	2384.0	1714.9	1493.5
75°	496.6	552.2	744.8	1261.5	2337.1	3244.4	2224.9	1116.3	590.0	424.7
77.5°	125.1	144.3	198.9	360.9	932.2	1847.2	839.3	294.8	160.6	112.2
80°	60.9	67.1	95.9	120.3	233.4	587.1	219.0	113.1	75.7	58.5
82.5°	33.6	34.0	54.2	68.1	86.8	151.9	90.1	66.1	43.6	35.5
85°	20.6	20.1	28.8	36.4	36.4	54.2	43.1	36.4	24.9	22.0
87.5°	8.1	8.1	10.5	11.5	10.1	13.9	11.0	12.0	9.6	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
914.5
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1977.1
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