

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: P940140

Luminaire Tested: **GALN-SB3A-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

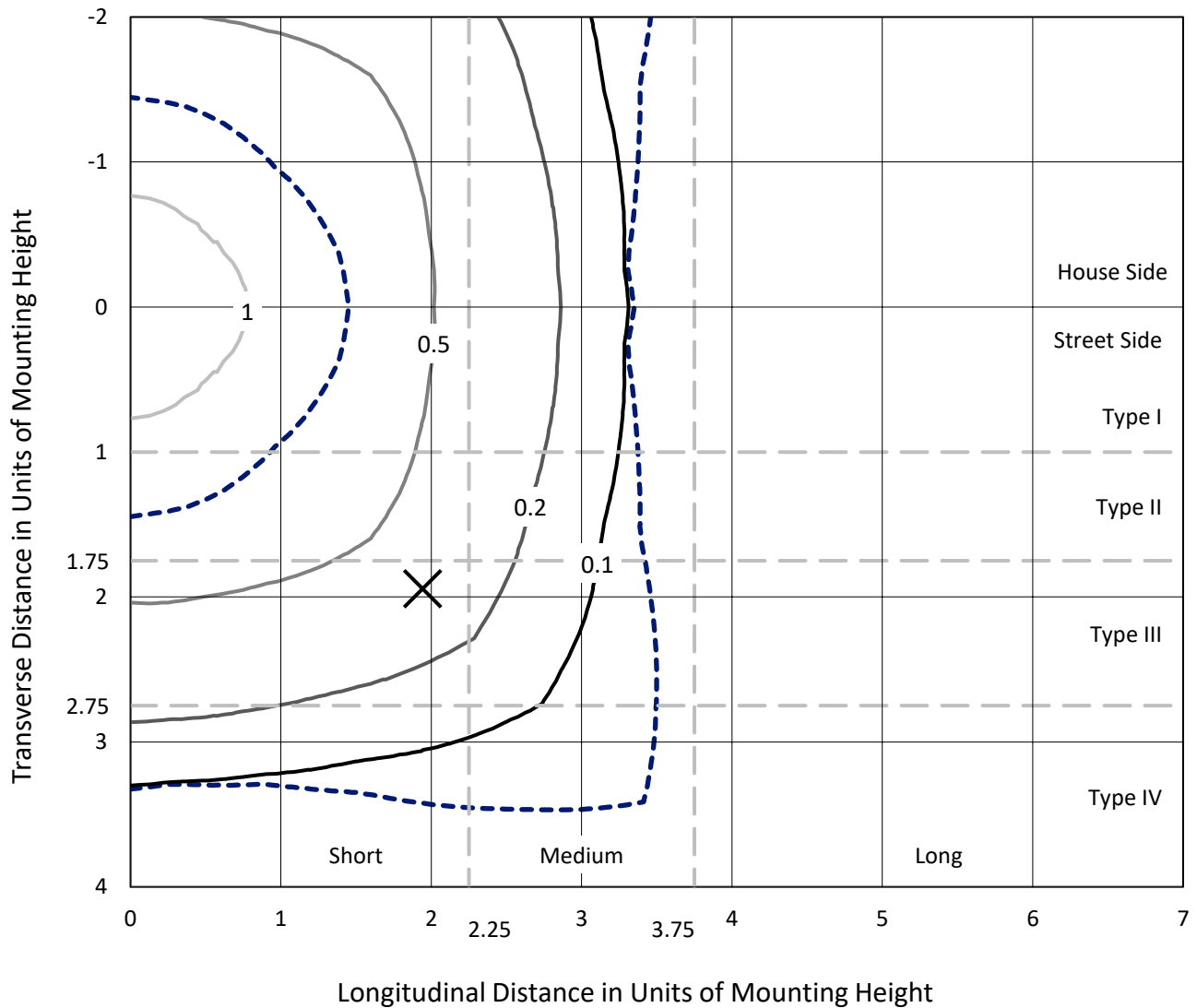
Lumens per Lamp: N/A  
Luminaire Lumens: 11838 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

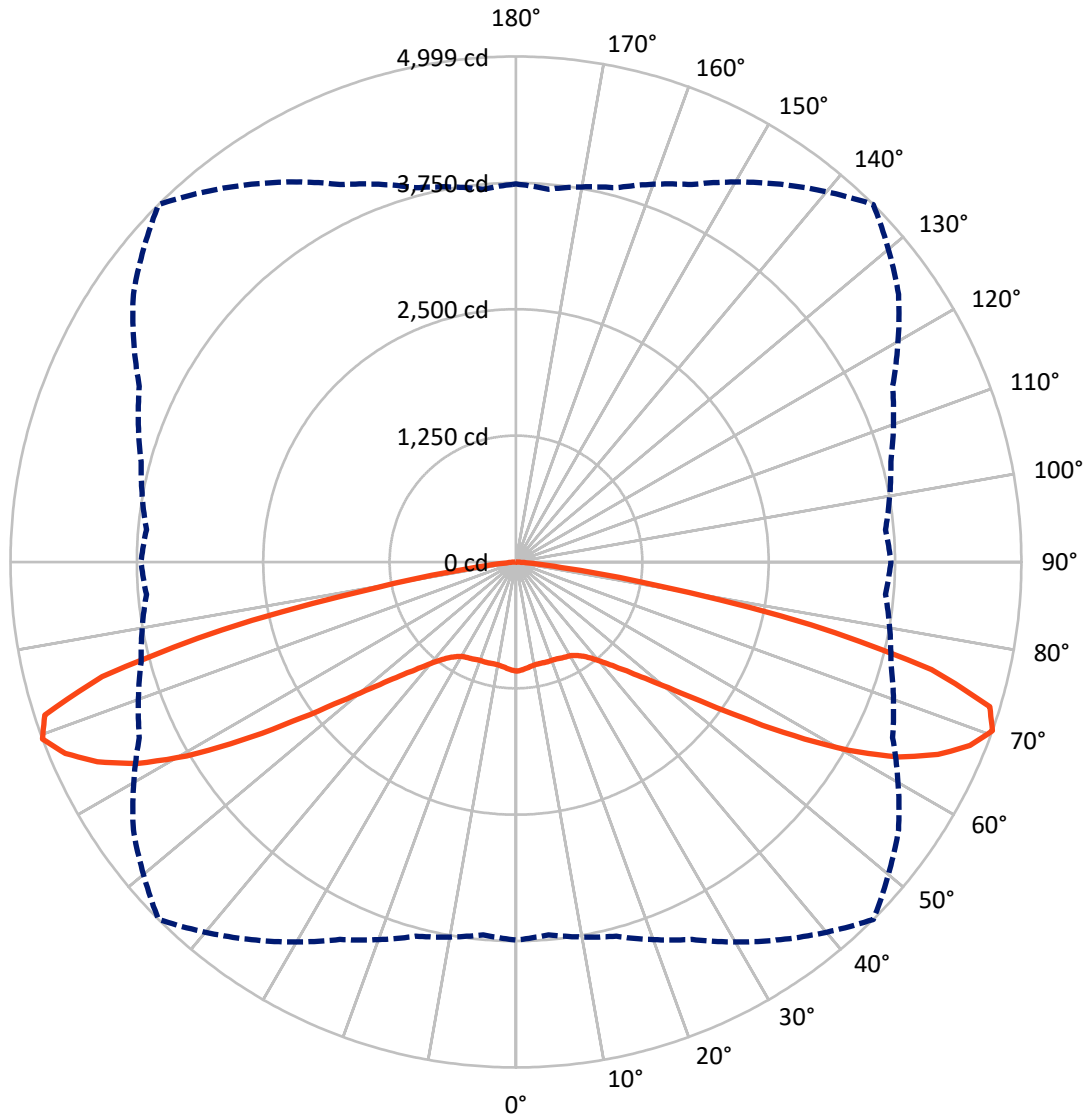
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	5919.0	0.0	5919.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5919.0	0.0	5919.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11838.0	0.0	11838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	0.8
10°-20°	295.0	2.5
20°-30°	490.8	4.1
30°-40°	742.3	6.3
40°-50°	1233.5	10.4
50°-60°	2327.6	19.7
60°-70°	3930.3	33.2
70°-80°	2582.6	21.8
80°-90°	135.3	1.1
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°	11838.0	100.0
0°-180°	11838.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940140

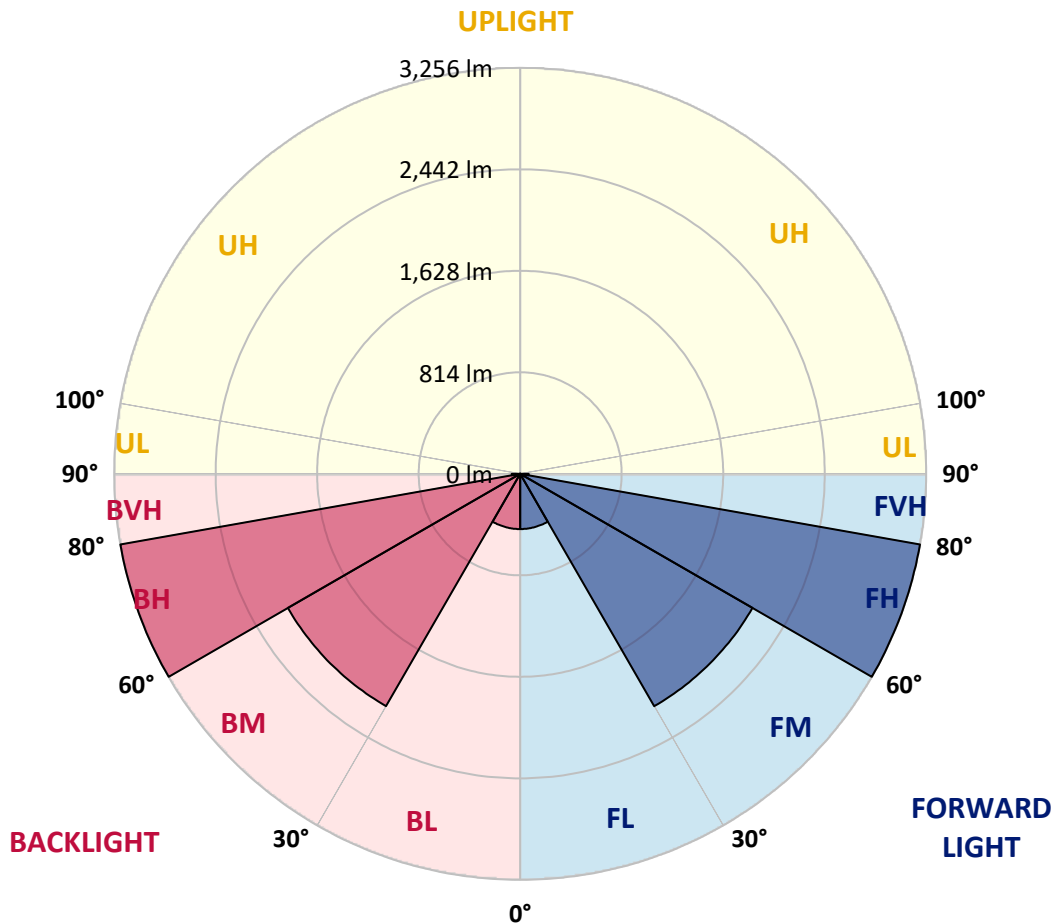
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	3.7			
FM (30°-60°)	2151.7	18.2			
FH (60°-80°)	3256.5	27.5			G2/5000
FVH (80°-90°)	67.7	0.6			G1/100
BL (0°-30°)	443.1	3.7	B1/500		
BM (30°-60°)	2151.7	18.2	B2/2500		
BH (60°-80°)	3256.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	67.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1073.1	1076.2	1074.9	1072.5	1072.5	1070.6	1072.5	1073.7	1075.6	1076.8
5°	1058.9	1061.4	1060.8	1058.9	1059.6	1057.7	1058.9	1060.8	1062.0	1062.6
7.5°	1046.6	1049.1	1047.9	1044.8	1044.8	1042.9	1043.6	1045.4	1047.3	1047.9
10°	1043.6	1046.0	1042.3	1037.4	1035.6	1033.1	1033.7	1035.6	1039.3	1041.1
12.5°	1044.8	1046.6	1042.9	1035.6	1033.7	1031.3	1031.3	1033.1	1038.0	1040.5
15°	1048.5	1050.3	1044.8	1036.8	1034.9	1033.1	1032.5	1034.9	1040.5	1044.8
17.5°	1055.3	1057.1	1048.5	1037.4	1034.9	1035.6	1034.9	1036.8	1045.4	1053.4
20°	1061.4	1062.6	1050.9	1037.4	1034.9	1035.6	1034.9	1038.6	1049.7	1060.8
22.5°	1063.3	1064.5	1053.4	1041.7	1039.9	1040.5	1039.9	1043.6	1054.0	1065.1
25°	1063.9	1065.7	1057.1	1047.9	1050.9	1052.2	1050.9	1051.6	1059.6	1069.4
27.5°	1073.1	1075.6	1067.6	1059.6	1061.4	1060.8	1062.6	1064.5	1070.6	1080.5
30°	1092.2	1094.0	1087.2	1079.2	1078.0	1073.7	1079.2	1085.4	1092.2	1100.8
32.5°	1123.6	1127.2	1118.6	1110.0	1104.5	1102.0	1106.3	1116.8	1126.0	1135.2
35°	1175.9	1178.3	1170.3	1154.3	1144.5	1144.5	1148.2	1161.7	1176.5	1188.2
37.5°	1249.7	1252.8	1238.6	1219.5	1204.8	1204.8	1209.7	1223.8	1246.0	1262.6
40°	1339.5	1343.8	1326.0	1306.3	1292.1	1289.7	1295.8	1311.8	1332.8	1353.7
42.5°	1447.8	1452.7	1429.4	1412.1	1401.1	1401.1	1404.1	1418.9	1438.0	1463.8
45°	1586.3	1594.9	1562.9	1545.7	1535.2	1537.7	1539.5	1552.4	1569.6	1599.2
47.5°	1751.2	1759.8	1725.9	1708.1	1706.2	1717.9	1710.6	1719.8	1729.0	1762.9
50°	1938.2	1953.0	1929.6	1928.4	1932.1	1953.6	1936.4	1941.3	1930.8	1952.4
52.5°	2167.1	2188.6	2184.3	2191.7	2232.9	2277.3	2237.9	2220.6	2181.3	2188.0
55°	2444.6	2477.2	2483.4	2527.7	2621.2	2711.7	2628.0	2558.4	2474.8	2459.4
57.5°	2760.3	2786.1	2815.6	2906.1	3080.8	3241.4	3080.8	2927.0	2795.3	2764.0
60°	3099.9	3131.9	3160.2	3293.7	3553.4	3779.2	3548.5	3304.2	3130.1	3087.6
62.5°	3464.8	3506.0	3525.7	3674.0	3976.7	4246.2	3981.0	3685.1	3491.9	3446.3
65°	3814.9	3848.7	3870.9	4029.0	4318.2	4588.3	4337.9	4046.3	3847.5	3787.8
67.5°	3978.0	3996.4	4050.6	4229.6	4534.8	4843.1	4586.5	4248.7	4026.6	3922.0
70°	3739.2	3701.7	3832.1	4118.9	4560.7	4999.4	4619.7	4110.3	3838.3	3668.5
72.5°	2889.5	2824.9	3051.3	3541.7	4265.3	4899.7	4294.8	3569.4	3192.2	2847.6
75°	1572.1	1498.9	1811.5	2431.7	3401.4	4246.8	3479.6	2501.2	2017.0	1560.4
77.5°	443.6	415.9	668.2	1176.5	2045.9	2981.8	2124.7	1202.3	792.5	470.1
80°	136.0	131.7	178.4	354.4	868.8	1428.1	835.0	358.7	227.0	143.4
82.5°	80.6	73.8	88.6	129.2	221.5	448.6	215.4	134.8	108.3	72.6
85°	46.1	43.1	52.3	62.8	74.5	95.4	62.1	64.0	57.8	38.8
87.5°	19.1	17.2	20.3	19.7	17.2	22.2	16.6	19.7	23.4	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1079.9
1076.2
1062.6
1047.9
1041.1
1041.1
1045.4
1053.4
1061.4
1065.1
1068.8
1078.0
1098.9
1131.5
1183.9
1256.5
1346.9
1462.0
1598.0
1753.0
1939.4
2165.3
2435.4
2741.8
3050.7
3409.4
3758.3
3923.2
3709.1
2933.2
1661.9
522.4
151.4
78.8
40.6
14.2
0.0

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