

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: P946448

Luminaire Tested: **GALN-SB2A-835-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

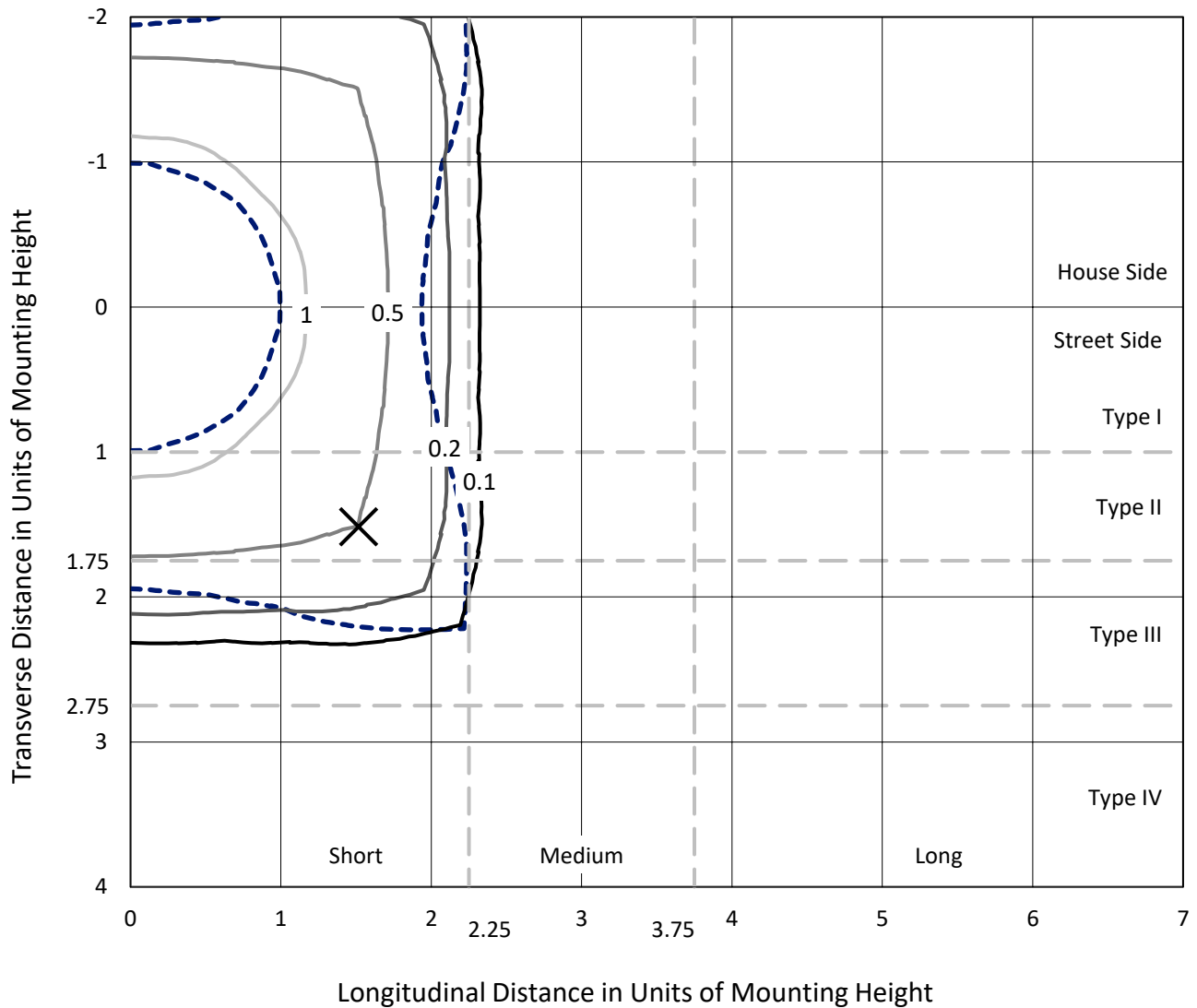
Lumens per Lamp: N/A  
Luminaire Lumens: 8719 lumens  
Efficiency: N/A  
Efficacy: 152.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

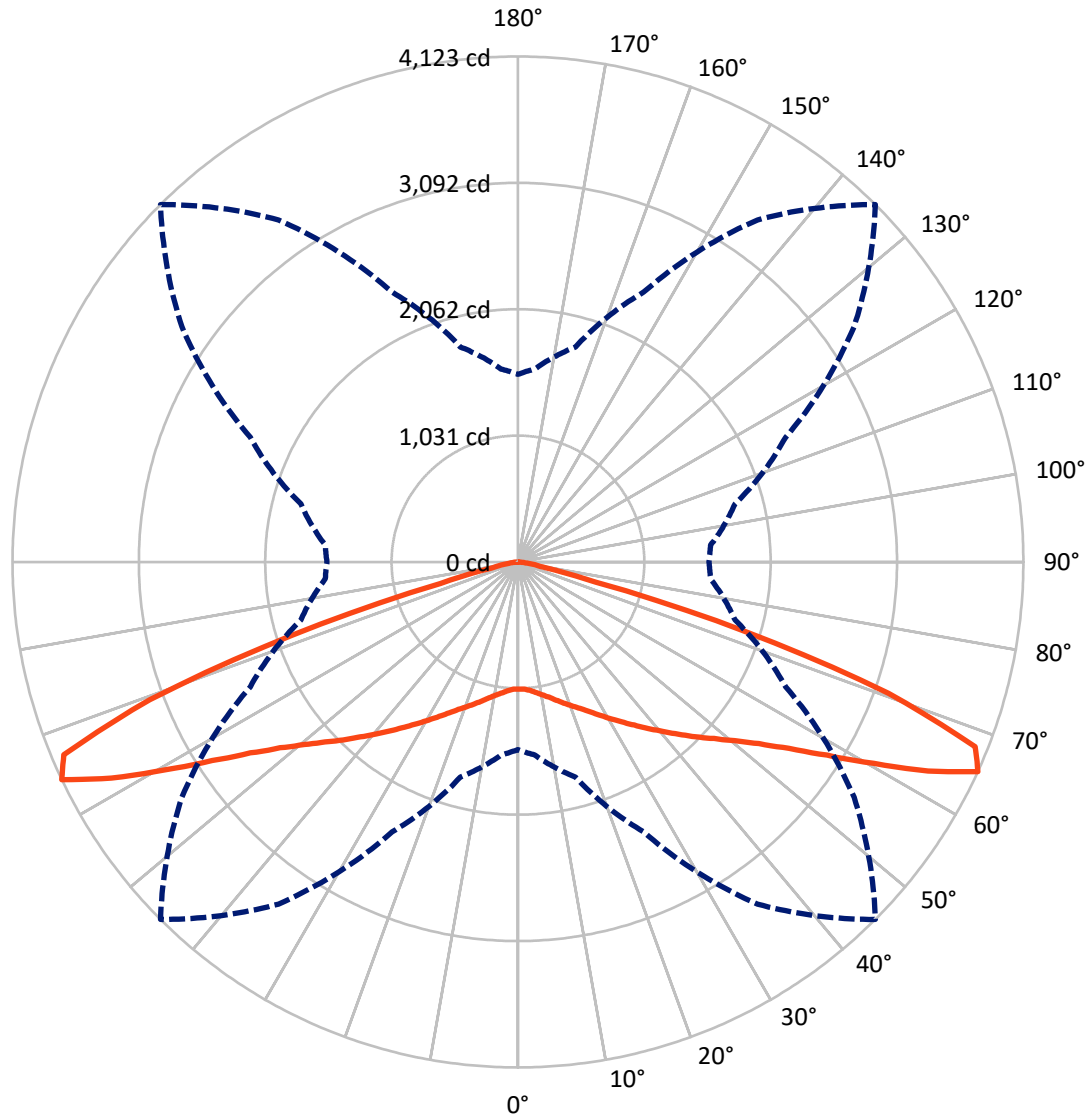
✕ Max cd  
 - - - 1/2 Max cd



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 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4359.5	0.0	4359.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4359.5	0.0	4359.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8719.0	0.0	8719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	1.2
10°-20°	334.2	3.8
20°-30°	630.9	7.2
30°-40°	1033.1	11.8
40°-50°	1601.9	18.4
50°-60°	2366.3	27.1
60°-70°	2252.5	25.8
70°-80°	363.5	4.2
80°-90°	34.3	0.4
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°	8719.0	100.0
0°-180°	8719.0	100.0

**Coefficient of Utilization**



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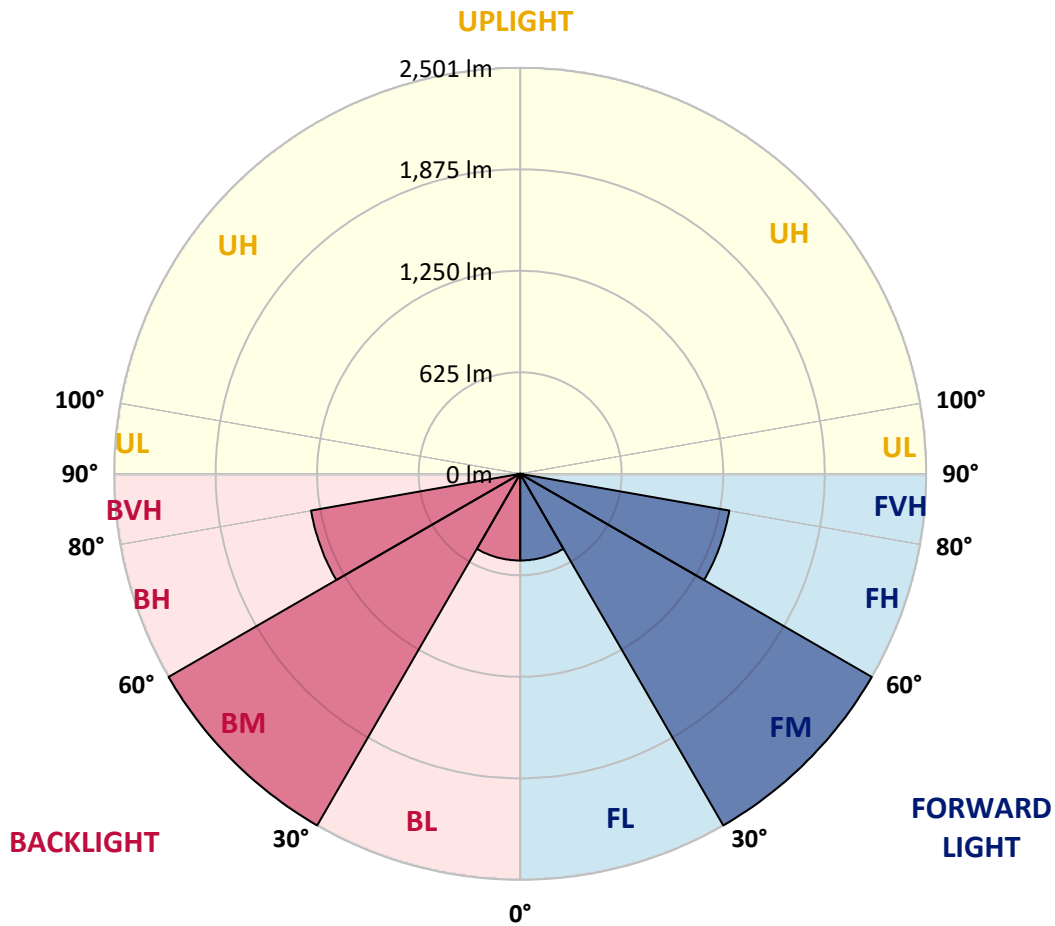
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	6.1			
FM (30°-60°)	2500.6	28.7			
FH (60°-80°)	1308.0	15.0			G1/1800
FVH (80°-90°)	17.1	0.2			G1/100
BL (0°-30°)	533.7	6.1	B2/1000		
BM (30°-60°)	2500.6	28.7	B3/5000		
BH (60°-80°)	1308.0	15.0	B3/2500		G1/1800
BVH (80°-90°)	17.1	0.2			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°
0°	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6	1037.6
2.5°	1044.6	1041.1	1043.8	1041.6	1039.8	1038.1	1039.0	1042.0	1043.3	1043.8
5°	1058.6	1055.6	1056.9	1056.9	1053.8	1053.0	1053.4	1055.6	1058.2	1058.2
7.5°	1081.4	1078.3	1081.4	1079.6	1077.0	1076.1	1075.7	1077.5	1081.4	1081.4
10°	1109.0	1105.5	1107.2	1106.3	1103.3	1102.0	1101.5	1104.1	1107.6	1107.2
12.5°	1139.1	1135.2	1137.4	1134.8	1133.9	1132.6	1132.6	1132.1	1134.3	1132.6
15°	1172.8	1170.2	1171.1	1169.3	1170.6	1169.8	1166.3	1164.5	1165.4	1162.8
17.5°	1212.6	1206.5	1209.6	1208.7	1208.7	1210.4	1204.8	1202.6	1204.3	1201.7
20°	1258.6	1252.4	1253.8	1252.0	1249.8	1251.6	1244.6	1246.3	1247.6	1245.9
22.5°	1308.9	1301.0	1300.6	1301.4	1296.6	1297.1	1292.2	1296.6	1299.2	1294.4
25°	1360.5	1352.2	1357.9	1355.7	1349.6	1350.9	1347.4	1351.7	1353.9	1347.8
27.5°	1415.2	1409.5	1414.7	1416.0	1408.6	1413.9	1408.6	1412.5	1414.7	1405.5
30°	1479.0	1473.4	1478.2	1481.7	1472.9	1481.2	1476.9	1479.5	1479.9	1469.0
32.5°	1548.6	1539.8	1552.1	1553.8	1544.2	1554.3	1548.6	1552.1	1554.3	1539.4
35°	1633.5	1622.5	1636.5	1634.3	1626.0	1634.3	1629.1	1634.3	1639.6	1621.7
37.5°	1724.9	1713.5	1728.4	1724.5	1716.6	1722.3	1719.2	1722.7	1731.0	1711.8
40°	1825.5	1811.5	1831.6	1824.6	1817.2	1816.3	1818.1	1820.3	1831.2	1809.8
42.5°	1933.1	1918.2	1948.4	1937.5	1927.0	1920.0	1925.7	1930.1	1940.6	1916.5
45°	2056.0	2039.0	2078.4	2065.2	2048.6	2034.2	2043.4	2049.9	2065.2	2036.4
47.5°	2191.7	2172.4	2214.4	2210.5	2183.3	2151.9	2172.8	2191.7	2203.0	2168.0
50°	2324.2	2309.3	2364.5	2369.3	2336.0	2291.8	2321.1	2349.6	2352.6	2306.7
52.5°	2448.4	2433.6	2513.6	2543.8	2514.1	2461.6	2492.6	2521.5	2498.3	2438.8
55°	2547.8	2535.5	2637.4	2715.3	2725.4	2682.0	2700.4	2699.5	2623.4	2532.0
57.5°	2571.8	2570.1	2698.7	2863.6	2968.6	2973.8	2937.5	2844.8	2680.7	2557.8
60°	2462.4	2473.4	2650.1	2941.0	3221.0	3337.4	3180.3	2915.7	2615.6	2444.9
62.5°	2135.2	2164.1	2377.1	2846.5	3424.9	3755.6	3375.0	2808.0	2347.8	2125.2
65°	1530.2	1580.5	1815.9	2429.2	3406.5	4123.0	3347.0	2409.5	1833.4	1576.6
67.5°	694.2	745.4	945.3	1663.2	2961.1	4023.3	2954.1	1680.7	992.6	748.1
70°	251.5	260.3	324.6	665.8	1892.4	3205.7	1973.4	670.6	345.2	277.3
72.5°	152.2	153.5	167.1	238.4	657.5	1946.2	685.5	246.3	170.6	151.4
75°	96.7	95.8	119.0	145.7	233.2	656.6	244.5	145.7	118.6	108.1
77.5°	69.6	71.7	85.3	108.9	147.0	222.7	144.4	104.1	85.3	70.0
80°	52.1	53.4	62.1	84.9	103.2	138.7	91.9	77.0	64.3	43.7
82.5°	37.6	37.6	40.7	61.7	63.0	74.8	49.9	54.2	42.4	31.1
85°	22.3	21.9	25.4	36.7	32.8	27.6	22.7	33.2	26.7	19.2
87.5°	7.9	8.3	7.9	10.5	8.7	7.4	7.0	9.2	7.4	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1037.6
1043.8
1058.2
1080.1
1106.3
1133.5
1163.2
1203.9
1249.8
1299.2
1354.8
1412.5
1475.5
1549.5
1632.6
1723.6
1816.8
1929.2
2051.2
2179.8
2312.4
2440.6
2535.1
2549.9
2424.8
2112.0
1557.8
737.1
273.8
154.0
108.9
71.3
45.1
31.1
18.8
6.1
0.0

OF REPORT)