

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: P946699

Luminaire Tested: **GALN-SB2B-740-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946699  
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-SB2B-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

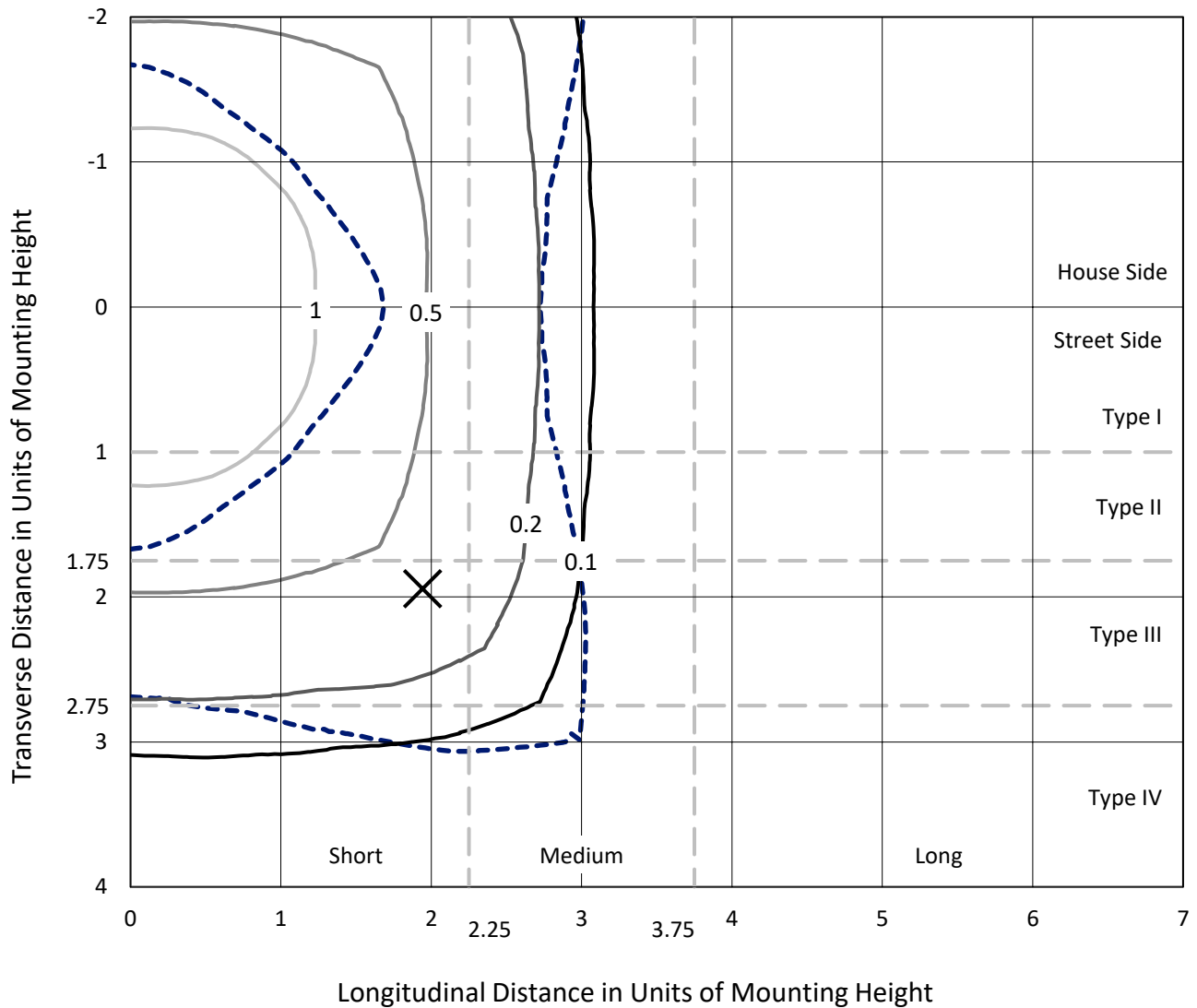
Lumens per Lamp: N/A  
Luminaire Lumens: 12477 lumens  
Efficiency: N/A  
Efficacy: 168.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

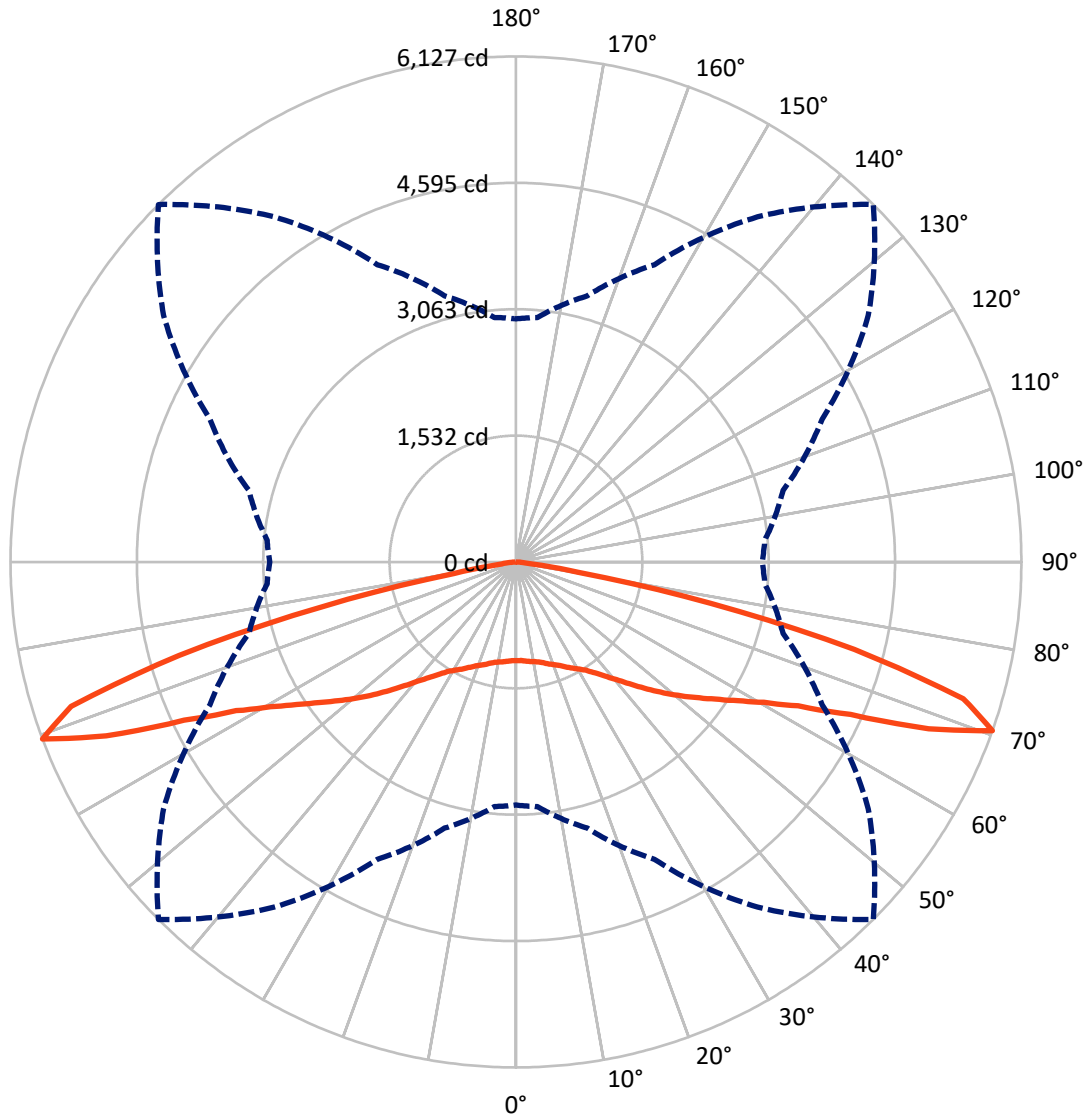
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6238.5	0.0	6238.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6238.5	0.0	6238.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12477.0	0.0	12477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	0.9
10°-20°	360.0	2.9
20°-30°	643.4	5.2
30°-40°	1043.0	8.4
40°-50°	1698.9	13.6
50°-60°	2590.2	20.8
60°-70°	3853.5	30.9
70°-80°	2100.3	16.8
80°-90°	71.5	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°	12477.0	100.0
0°-180°	12477.0	100.0

**Coefficient of Utilization**



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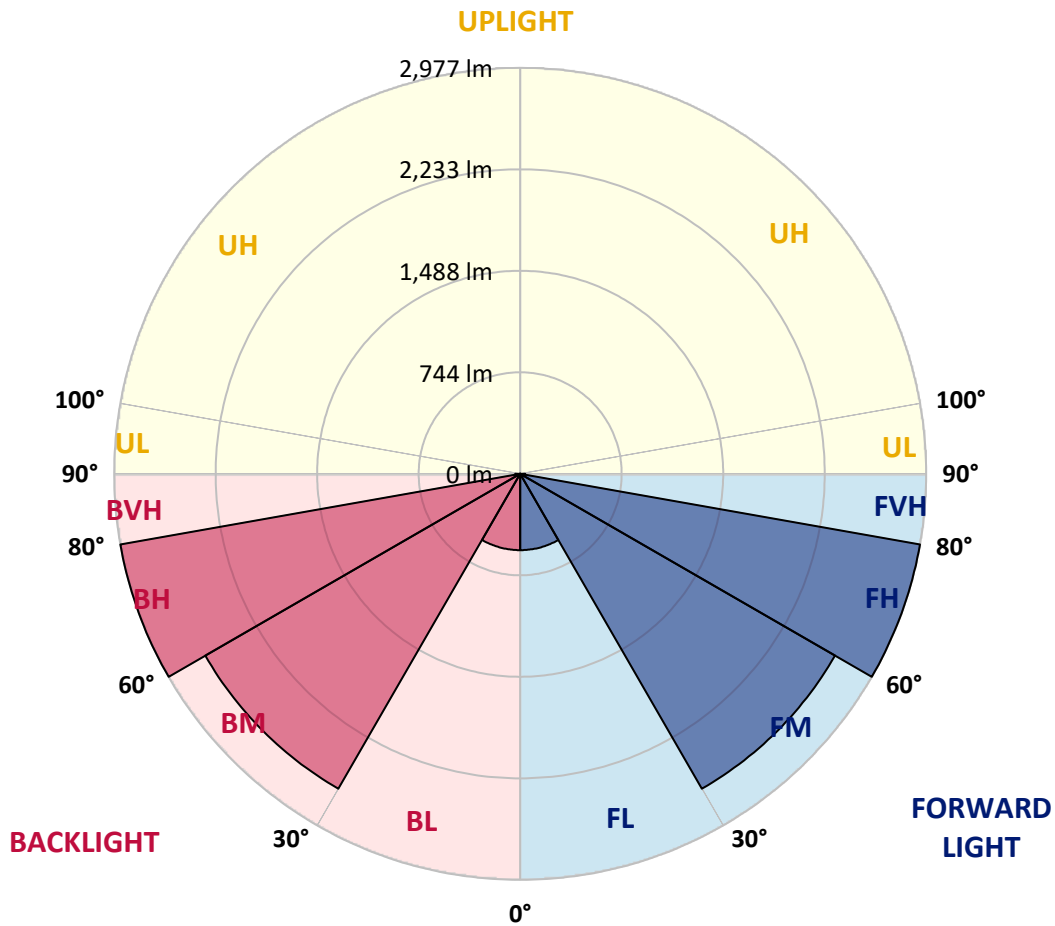
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.8	4.5			
FM (30°-60°)	2666.1	21.4			
FH (60°-80°)	2976.9	23.9			G2/5000
FVH (80°-90°)	35.8	0.3			G1/100
BL (0°-30°)	559.8	4.5	B2/1000		
BM (30°-60°)	2666.1	21.4	B3/5000		
BH (60°-80°)	2976.9	23.9	B4/5000		G2/5000
BVH (80°-90°)	35.8	0.3			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°	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2	1195.2
2.5°	1200.8	1202.1	1199.6	1198.3	1197.0	1195.2	1195.8	1198.9	1201.4	1200.8
5°	1210.8	1212.1	1210.2	1209.6	1207.1	1206.4	1206.4	1209.6	1211.5	1210.2
7.5°	1222.1	1224.0	1220.8	1220.2	1219.0	1217.7	1217.1	1220.2	1222.1	1222.1
10°	1232.8	1234.6	1232.1	1230.2	1229.0	1229.0	1227.7	1230.2	1233.4	1232.8
12.5°	1244.0	1245.3	1242.8	1241.5	1241.5	1243.4	1241.5	1242.8	1245.3	1244.0
15°	1257.8	1258.4	1257.8	1259.7	1262.8	1269.1	1263.4	1262.2	1263.4	1260.3
17.5°	1276.6	1277.9	1280.4	1284.7	1289.1	1300.4	1290.4	1287.2	1287.2	1281.0
20°	1299.8	1301.7	1305.4	1312.9	1318.6	1329.2	1319.2	1314.8	1312.9	1304.8
22.5°	1324.2	1327.3	1333.0	1343.0	1353.0	1363.0	1353.0	1345.5	1339.9	1329.2
25°	1352.4	1356.2	1364.9	1381.2	1395.0	1409.4	1397.5	1382.5	1371.2	1356.2
27.5°	1392.5	1396.9	1407.5	1427.6	1445.1	1457.6	1446.4	1426.9	1411.3	1393.1
30°	1448.9	1453.2	1465.8	1487.1	1499.0	1507.1	1499.6	1484.6	1465.8	1445.1
32.5°	1521.5	1527.2	1540.9	1561.0	1563.5	1564.7	1562.2	1554.7	1540.9	1515.9
35°	1613.6	1619.9	1635.5	1651.8	1649.3	1651.8	1648.1	1645.5	1635.5	1606.7
37.5°	1726.4	1733.9	1750.2	1762.7	1756.4	1753.3	1753.9	1754.5	1748.9	1717.0
40°	1857.3	1867.3	1879.2	1892.3	1881.7	1872.3	1878.6	1883.6	1878.6	1846.0
42.5°	1991.9	2006.4	2018.9	2037.7	2028.9	2017.0	2025.8	2031.4	2020.8	1985.7
45°	2141.7	2155.4	2171.7	2199.9	2193.6	2181.1	2193.6	2194.9	2176.7	2135.4
47.5°	2296.4	2310.8	2335.2	2372.8	2370.3	2356.5	2372.8	2364.0	2340.8	2291.4
50°	2443.0	2463.0	2500.6	2553.2	2558.2	2541.3	2563.2	2546.3	2507.5	2445.5
52.5°	2580.8	2602.1	2661.6	2733.0	2751.1	2729.2	2758.7	2729.2	2671.0	2591.4
55°	2725.5	2749.3	2820.0	2913.4	2949.7	2933.4	2961.0	2916.5	2833.8	2737.4
57.5°	2895.8	2910.2	2994.8	3105.7	3167.1	3170.8	3183.4	3108.2	3008.0	2898.3
60°	3080.6	3100.7	3192.8	3325.5	3422.6	3454.0	3440.8	3329.3	3212.8	3086.9
62.5°	3317.4	3339.3	3449.6	3608.7	3762.1	3839.8	3788.5	3626.8	3482.8	3331.8
65°	3513.5	3537.9	3737.1	4020.8	4300.2	4456.2	4327.2	4029.6	3770.3	3557.3
67.5°	3371.3	3401.3	3713.9	4235.1	4929.8	5395.2	4953.6	4299.0	3791.0	3502.2
70°	2946.6	2974.8	3339.3	3976.4	5107.0	6126.8	5213.5	4093.5	3351.2	3028.0
72.5°	1956.2	2047.1	2416.0	3180.2	4560.2	5669.5	4605.3	3115.7	2241.3	1951.9
75°	648.9	721.6	973.4	1648.7	3054.3	4240.1	2907.7	1458.9	771.1	555.0
77.5°	163.5	188.5	260.0	471.7	1218.3	2414.1	1096.8	385.2	209.8	146.6
80°	79.6	87.7	125.3	157.2	305.1	767.3	286.3	147.8	99.0	76.4
82.5°	43.8	44.5	70.8	88.9	113.4	198.6	117.8	86.4	57.0	46.4
85°	26.9	26.3	37.6	47.6	47.6	70.8	56.4	47.6	32.6	28.8
87.5°	10.6	10.6	13.8	15.0	13.2	18.2	14.4	15.7	12.5	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1195.2
1201.4
1210.8
1222.1
1232.8
1243.4
1260.3
1281.0
1304.8
1328.6
1355.5
1392.5
1445.1
1516.5
1606.7
1717.0
1846.0
1988.2
2139.8
2288.2
2444.2
2583.9
2724.2
2883.3
3066.8
3305.5
3522.2
3459.0
2984.8
1888.6
524.9
130.9
70.2
46.4
30.1
12.5
0.0

OF REPORT)