

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: P945251

Luminaire Tested: **GALN-SB1B-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945251  
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-SB1B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5903 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

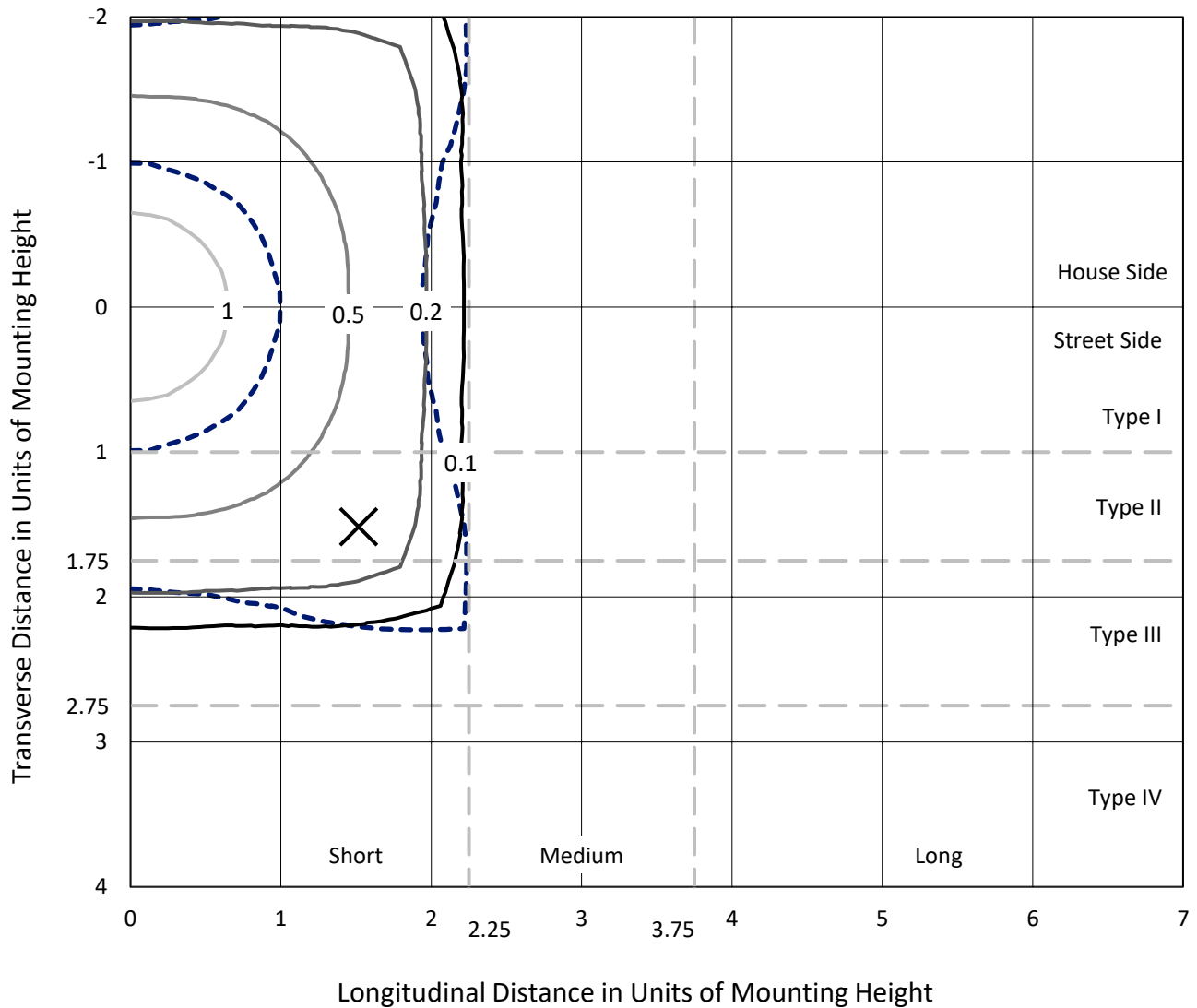
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

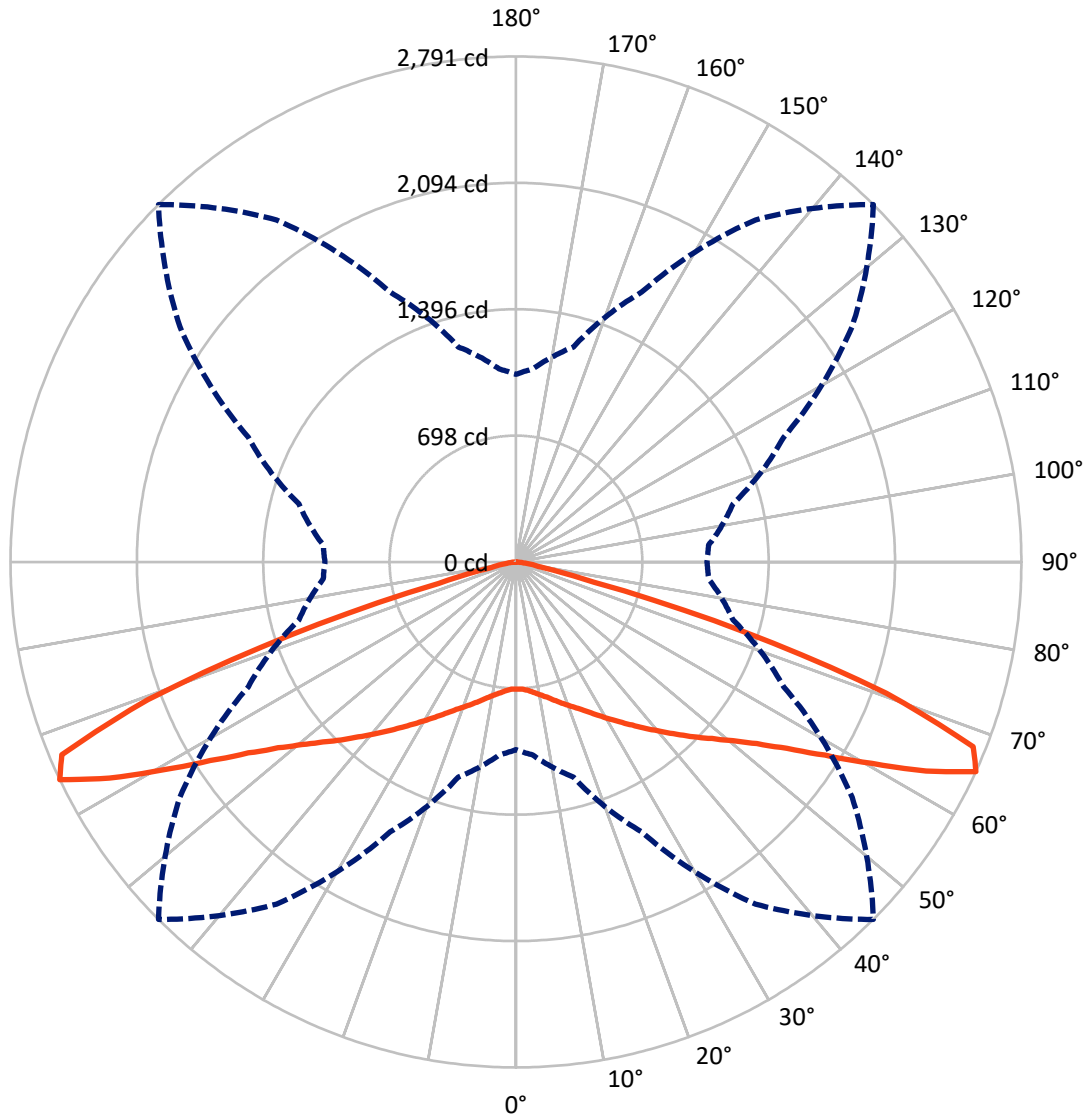
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	2951.5	0.0	2951.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2951.5	0.0	2951.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5903.0	0.0	5903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.2
10°-20°	226.2	3.8
20°-30°	427.2	7.2
30°-40°	699.4	11.8
40°-50°	1084.5	18.4
50°-60°	1602.0	27.1
60°-70°	1525.0	25.8
70°-80°	246.1	4.2
80°-90°	23.2	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°	5903.0	100.0
0°-180°	5903.0	100.0

**Coefficient of Utilization**



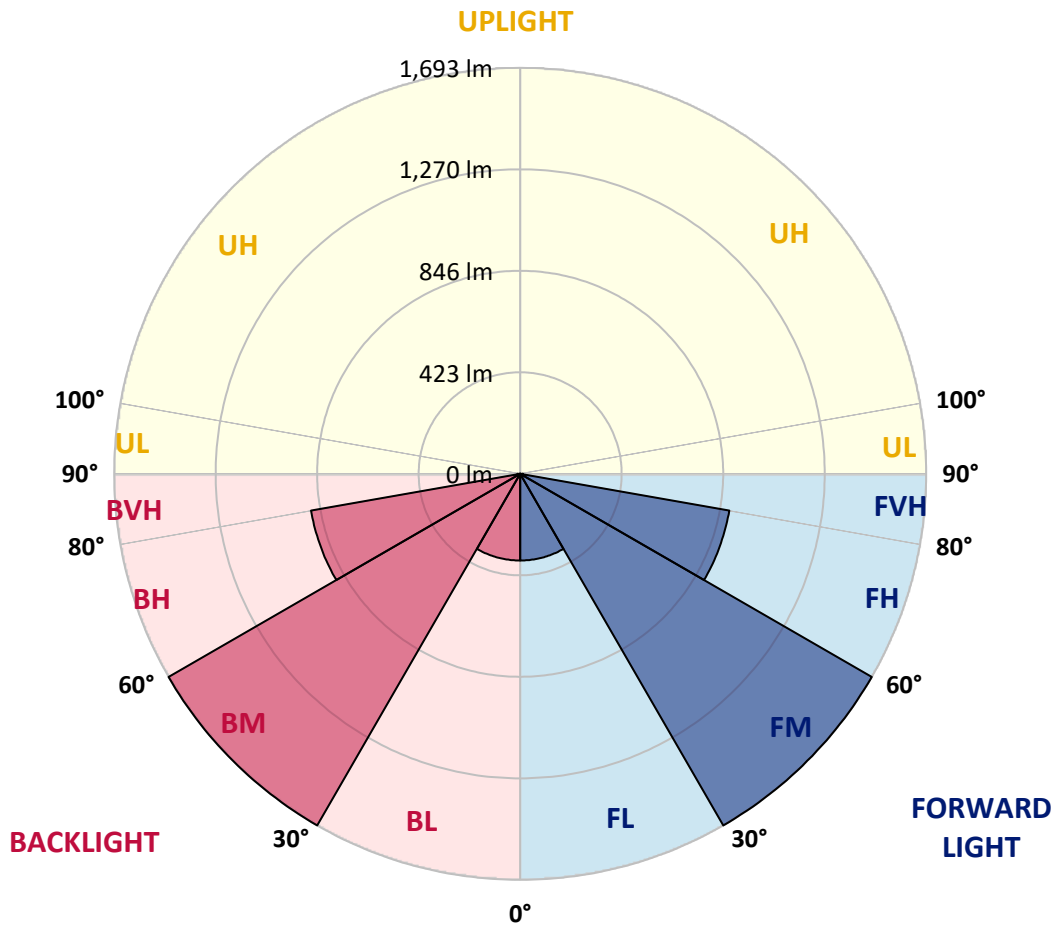
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.4	6.1			
FM (30°-60°)	1693.0	28.7			
FH (60°-80°)	885.5	15.0			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	361.4	6.1	B1/500		
BM (30°-60°)	1693.0	28.7	B2/2500		
BH (60°-80°)	885.5	15.0	B2/1000		G1/1800
BVH (80°-90°)	11.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5
2.5°	707.3	704.9	706.7	705.2	704.0	702.8	703.4	705.5	706.4	706.7
5°	716.7	714.7	715.5	715.5	713.5	712.9	713.2	714.7	716.4	716.4
7.5°	732.1	730.1	732.1	730.9	729.2	728.6	728.3	729.5	732.1	732.1
10°	750.8	748.4	749.6	749.0	746.9	746.1	745.8	747.5	749.9	749.6
12.5°	771.2	768.6	770.0	768.3	767.7	766.8	766.8	766.5	768.0	766.8
15°	794.0	792.3	792.8	791.7	792.6	792.0	789.6	788.4	789.0	787.2
17.5°	821.0	816.8	818.9	818.3	818.3	819.5	815.7	814.2	815.4	813.6
20°	852.1	847.9	848.8	847.6	846.2	847.3	842.6	843.8	844.7	843.5
22.5°	886.1	880.8	880.5	881.1	877.8	878.1	874.9	877.8	879.6	876.4
25°	921.1	915.5	919.3	917.8	913.7	914.6	912.2	915.2	916.6	912.5
27.5°	958.1	954.3	957.8	958.7	953.7	957.2	953.7	956.3	957.8	951.6
30°	1001.4	997.5	1000.8	1003.1	997.2	1002.8	999.9	1001.6	1001.9	994.5
32.5°	1048.4	1042.5	1050.8	1052.0	1045.5	1052.3	1048.4	1050.8	1052.3	1042.2
35°	1105.9	1098.5	1108.0	1106.5	1100.9	1106.5	1102.9	1106.5	1110.0	1097.9
37.5°	1167.8	1160.1	1170.2	1167.5	1162.2	1166.0	1163.9	1166.3	1171.9	1158.9
40°	1235.9	1226.4	1240.1	1235.3	1230.3	1229.7	1230.9	1232.4	1239.8	1225.3
42.5°	1308.8	1298.7	1319.1	1311.7	1304.6	1299.9	1303.7	1306.7	1313.8	1297.5
45°	1392.0	1380.4	1407.1	1398.2	1387.0	1377.2	1383.4	1387.9	1398.2	1378.7
47.5°	1483.8	1470.8	1499.2	1496.5	1478.2	1456.9	1471.1	1483.8	1491.5	1467.8
50°	1573.6	1563.5	1600.8	1604.1	1581.5	1551.6	1571.5	1590.7	1592.8	1561.7
52.5°	1657.7	1647.6	1701.8	1722.2	1702.1	1666.6	1687.6	1707.1	1691.4	1651.1
55°	1724.9	1716.6	1785.6	1838.3	1845.1	1815.8	1828.3	1827.7	1776.1	1714.2
57.5°	1741.2	1740.0	1827.1	1938.7	2009.8	2013.4	1988.8	1926.0	1814.9	1731.7
60°	1667.1	1674.5	1794.2	1991.2	2180.7	2259.5	2153.2	1974.0	1770.8	1655.3
62.5°	1445.6	1465.2	1609.4	1927.2	2318.7	2542.6	2285.0	1901.1	1589.5	1438.8
65°	1036.0	1070.1	1229.4	1644.6	2306.3	2791.4	2266.0	1631.3	1241.2	1067.4
67.5°	470.0	504.7	640.0	1126.0	2004.8	2723.9	2000.0	1137.9	672.0	506.5
70°	170.3	176.2	219.8	450.8	1281.2	2170.3	1336.0	454.0	233.7	187.8
72.5°	103.1	104.0	113.1	161.4	445.1	1317.7	464.1	166.7	115.5	102.5
75°	65.5	64.9	80.6	98.6	157.9	444.6	165.6	98.6	80.3	73.2
77.5°	47.1	48.6	57.8	73.7	99.5	150.8	97.7	70.5	57.8	47.4
80°	35.2	36.1	42.1	57.5	69.9	93.9	62.2	52.1	43.5	29.6
82.5°	25.5	25.5	27.5	41.8	42.6	50.6	33.8	36.7	28.7	21.0
85°	15.1	14.8	17.2	24.9	22.2	18.7	15.4	22.5	18.1	13.0
87.5°	5.3	5.6	5.3	7.1	5.9	5.0	4.7	6.2	5.0	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
702.5
706.7
716.4
731.2
749.0
767.4
787.5
815.1
846.2
879.6
917.2
956.3
999.0
1049.0
1105.3
1166.9
1230.0
1306.1
1388.7
1475.8
1565.6
1652.3
1716.3
1726.4
1641.7
1429.9
1054.7
499.0
185.4
104.3
73.7
48.3
30.5
21.0
12.7
4.1
0.0

OF REPORT)