

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: P945398

Luminaire Tested: **GALN-SB1B-840-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945398  
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-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5646 lumens  
Efficiency: N/A  
Efficacy: 141.9 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

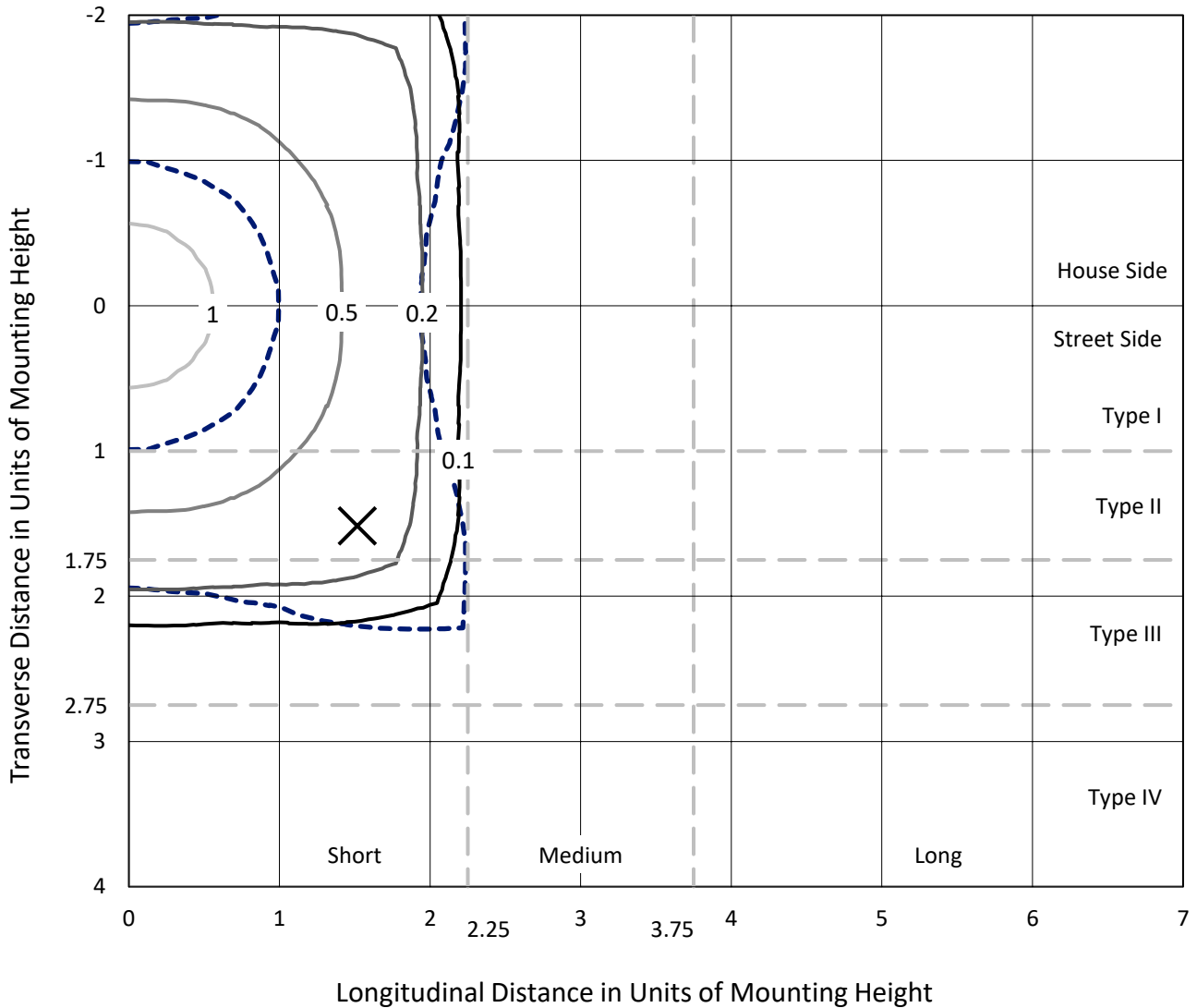
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

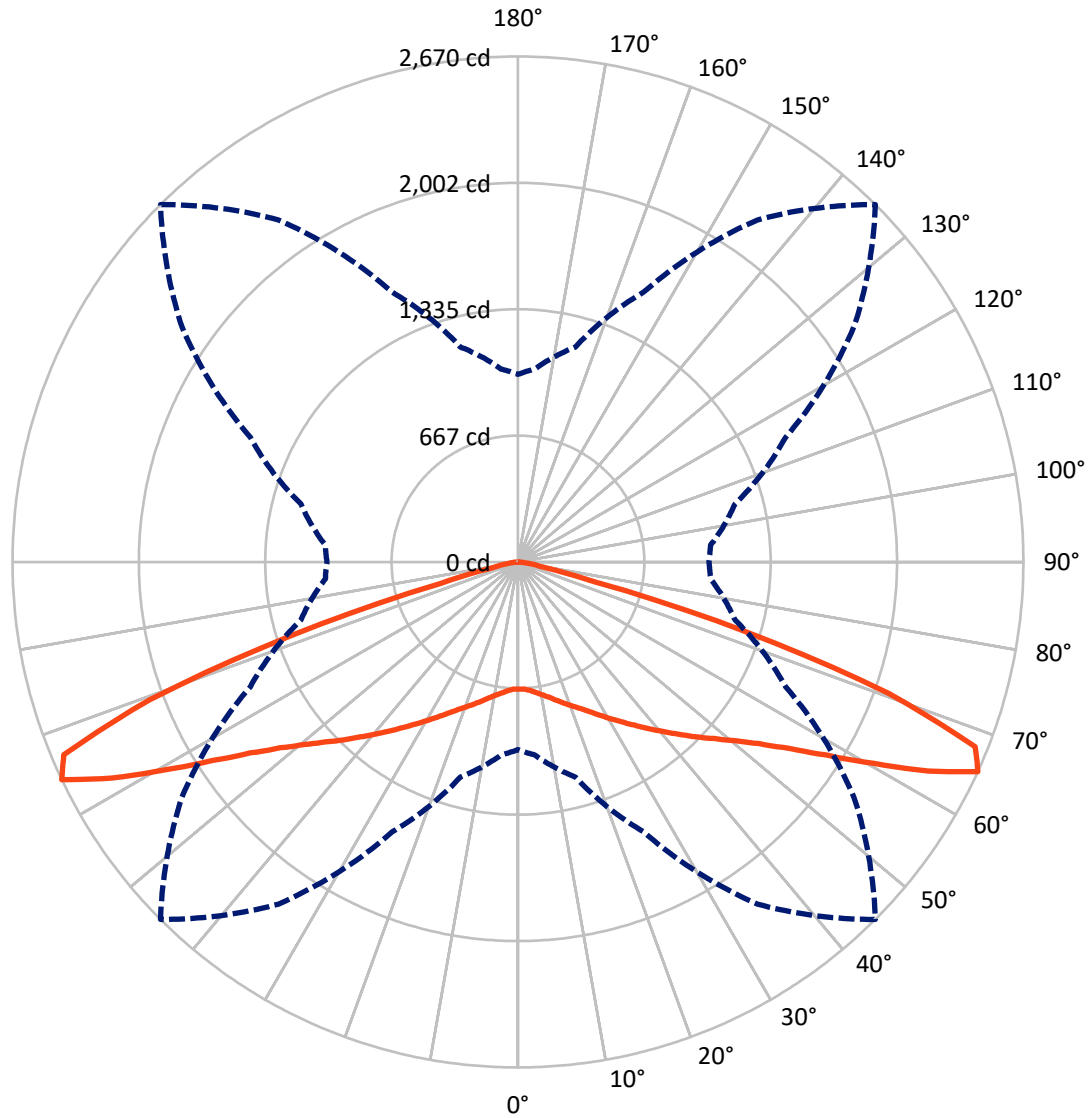
✕ Max cd  
 - - - 1/2 Max cd



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	2823.0	0.0	2823.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2823.0	0.0	2823.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5646.0	0.0	5646.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	1.2
10°-20°	216.4	3.8
20°-30°	408.6	7.2
30°-40°	669.0	11.8
40°-50°	1037.3	18.4
50°-60°	1532.3	27.1
60°-70°	1458.6	25.8
70°-80°	235.4	4.2
80°-90°	22.2	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°	5646.0	100.0
0°-180°	5646.0	100.0

**Coefficient of Utilization**



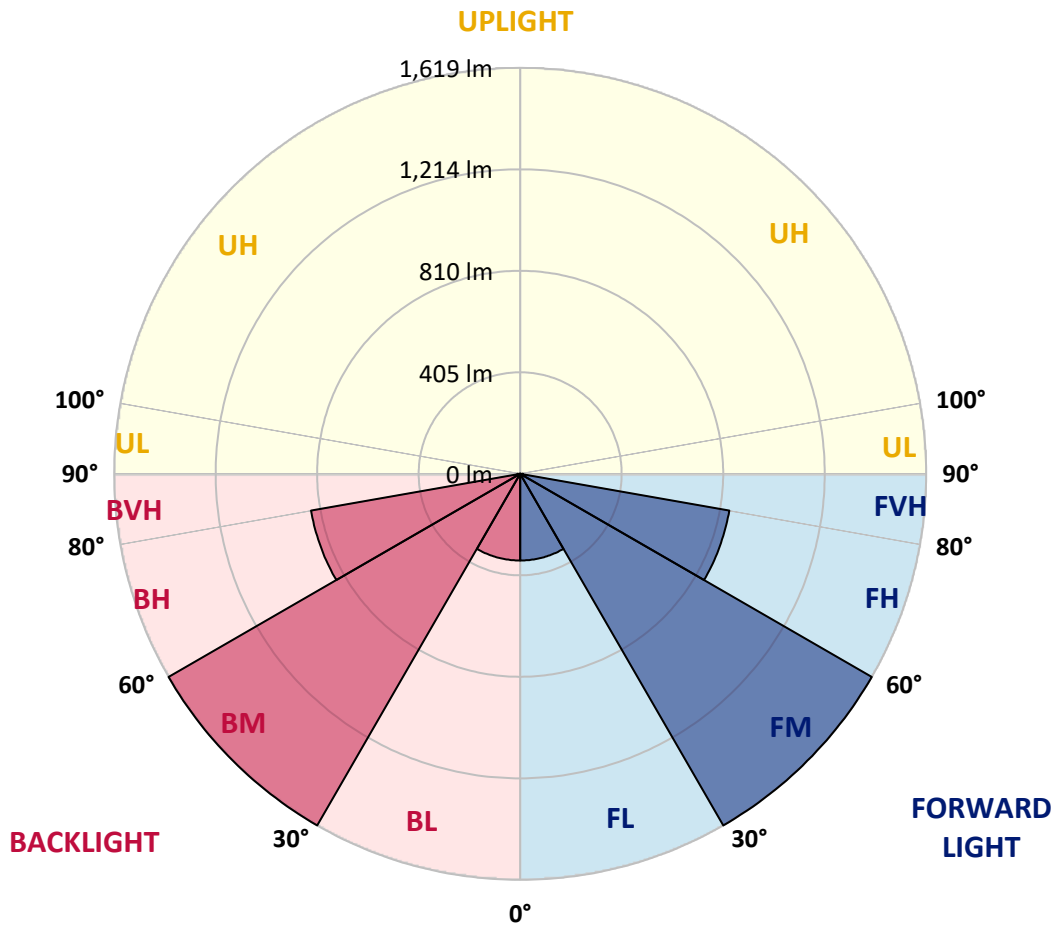
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.6	6.1			
FM (30°-60°)	1619.3	28.7			
FH (60°-80°)	847.0	15.0			G1/1800
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	345.6	6.1	B1/500		
BM (30°-60°)	1619.3	28.7	B2/2500		
BH (60°-80°)	847.0	15.0	B2/1000		G1/1800
BVH (80°-90°)	11.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9	671.9
2.5°	676.5	674.2	675.9	674.5	673.3	672.2	672.8	674.8	675.6	675.9
5°	685.5	683.5	684.4	684.4	682.4	681.8	682.1	683.5	685.2	685.2
7.5°	700.3	698.3	700.3	699.1	697.4	696.9	696.6	697.7	700.3	700.3
10°	718.1	715.8	717.0	716.4	714.4	713.6	713.3	715.0	717.3	717.0
12.5°	737.7	735.1	736.5	734.8	734.3	733.4	733.4	733.1	734.5	733.4
15°	759.5	757.8	758.3	757.2	758.0	757.5	755.2	754.1	754.6	752.9
17.5°	785.2	781.3	783.3	782.7	782.7	783.8	780.1	778.7	779.9	778.2
20°	815.0	811.0	811.9	810.7	809.3	810.5	805.9	807.1	807.9	806.8
22.5°	847.6	842.5	842.2	842.7	839.6	839.9	836.8	839.6	841.3	838.2
25°	881.0	875.6	879.3	877.9	873.9	874.8	872.5	875.3	876.7	872.8
27.5°	916.4	912.7	916.1	917.0	912.1	915.5	912.1	914.7	916.1	910.2
30°	957.8	954.1	957.2	959.5	953.8	959.2	956.3	958.0	958.3	951.2
32.5°	1002.8	997.1	1005.1	1006.2	1000.0	1006.5	1002.8	1005.1	1006.5	996.8
35°	1057.8	1050.7	1059.7	1058.3	1052.9	1058.3	1054.9	1058.3	1061.7	1050.1
37.5°	1117.0	1109.6	1119.2	1116.7	1111.6	1115.3	1113.3	1115.5	1120.9	1108.5
40°	1182.1	1173.0	1186.1	1181.5	1176.7	1176.2	1177.3	1178.7	1185.8	1171.9
42.5°	1251.8	1242.2	1261.7	1254.6	1247.8	1243.3	1247.0	1249.8	1256.6	1241.0
45°	1331.4	1320.3	1345.8	1337.3	1326.6	1317.2	1323.2	1327.4	1337.3	1318.6
47.5°	1419.2	1406.7	1433.9	1431.4	1413.8	1393.4	1407.0	1419.2	1426.6	1403.9
50°	1505.0	1495.4	1531.1	1534.2	1512.7	1484.1	1503.1	1521.5	1523.5	1493.7
52.5°	1585.5	1575.9	1627.7	1647.2	1628.0	1594.0	1614.1	1632.8	1617.8	1579.3
55°	1649.8	1641.9	1707.9	1758.3	1764.8	1736.8	1748.7	1748.1	1698.8	1639.6
57.5°	1665.4	1664.2	1747.5	1854.3	1922.3	1925.7	1902.2	1842.1	1735.9	1656.3
60°	1594.6	1601.6	1716.1	1904.5	2085.8	2161.1	2059.4	1888.0	1693.7	1583.2
62.5°	1382.7	1401.4	1539.3	1843.3	2217.8	2431.9	2185.5	1818.3	1520.3	1376.2
65°	990.9	1023.5	1175.9	1573.0	2205.9	2669.9	2167.3	1560.3	1187.2	1020.9
67.5°	449.6	482.7	612.2	1077.0	1917.5	2605.3	1913.0	1088.3	642.8	484.4
70°	162.9	168.5	210.2	431.1	1225.5	2075.8	1277.9	434.3	223.5	179.6
72.5°	98.6	99.4	108.2	154.4	425.8	1260.3	443.9	159.5	110.5	98.0
75°	62.6	62.0	77.1	94.3	151.0	425.2	158.4	94.3	76.8	70.0
77.5°	45.0	46.5	55.2	70.5	95.2	144.2	93.5	67.4	55.2	45.3
80°	33.7	34.6	40.2	55.0	66.9	89.8	59.5	49.9	41.6	28.3
82.5°	24.4	24.4	26.3	39.9	40.8	48.4	32.3	35.1	27.5	20.1
85°	14.4	14.2	16.4	23.8	21.2	17.8	14.7	21.5	17.3	12.5
87.5°	5.1	5.4	5.1	6.8	5.7	4.8	4.5	5.9	4.8	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
671.9
675.9
685.2
699.4
716.4
734.0
753.2
779.6
809.3
841.3
877.3
914.7
955.5
1003.4
1057.2
1116.1
1176.4
1249.2
1328.3
1411.6
1497.4
1580.4
1641.6
1651.2
1570.2
1367.7
1008.7
477.3
177.3
99.7
70.5
46.2
29.2
20.1
12.2
4.0
0.0

OF REPORT)