

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: P946825

Luminaire Tested: **GALN-SB2B-840-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946825
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-840-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 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: 11281 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

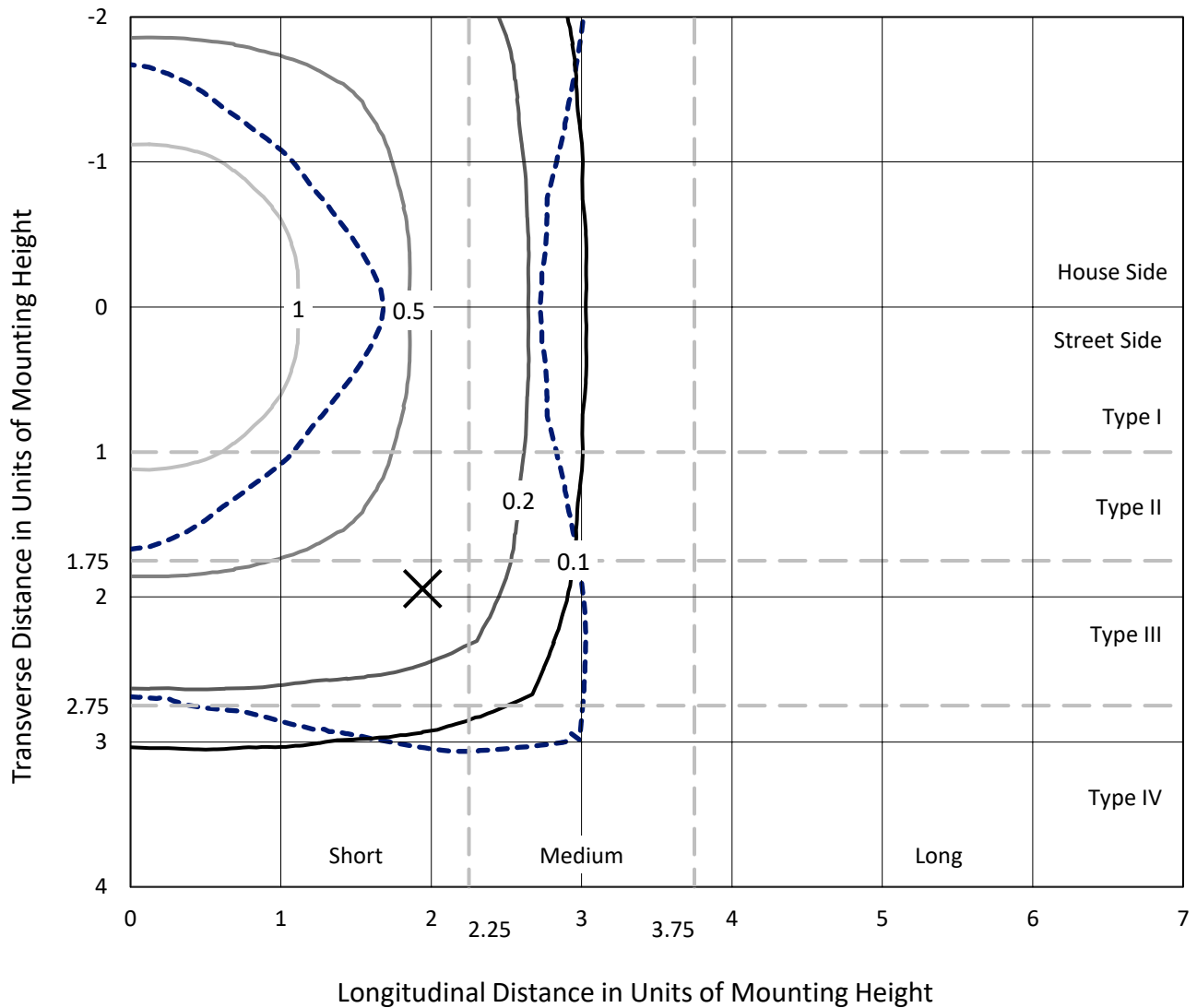
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946825
 CATALOG NUMBER: GALN-SB2B-840-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

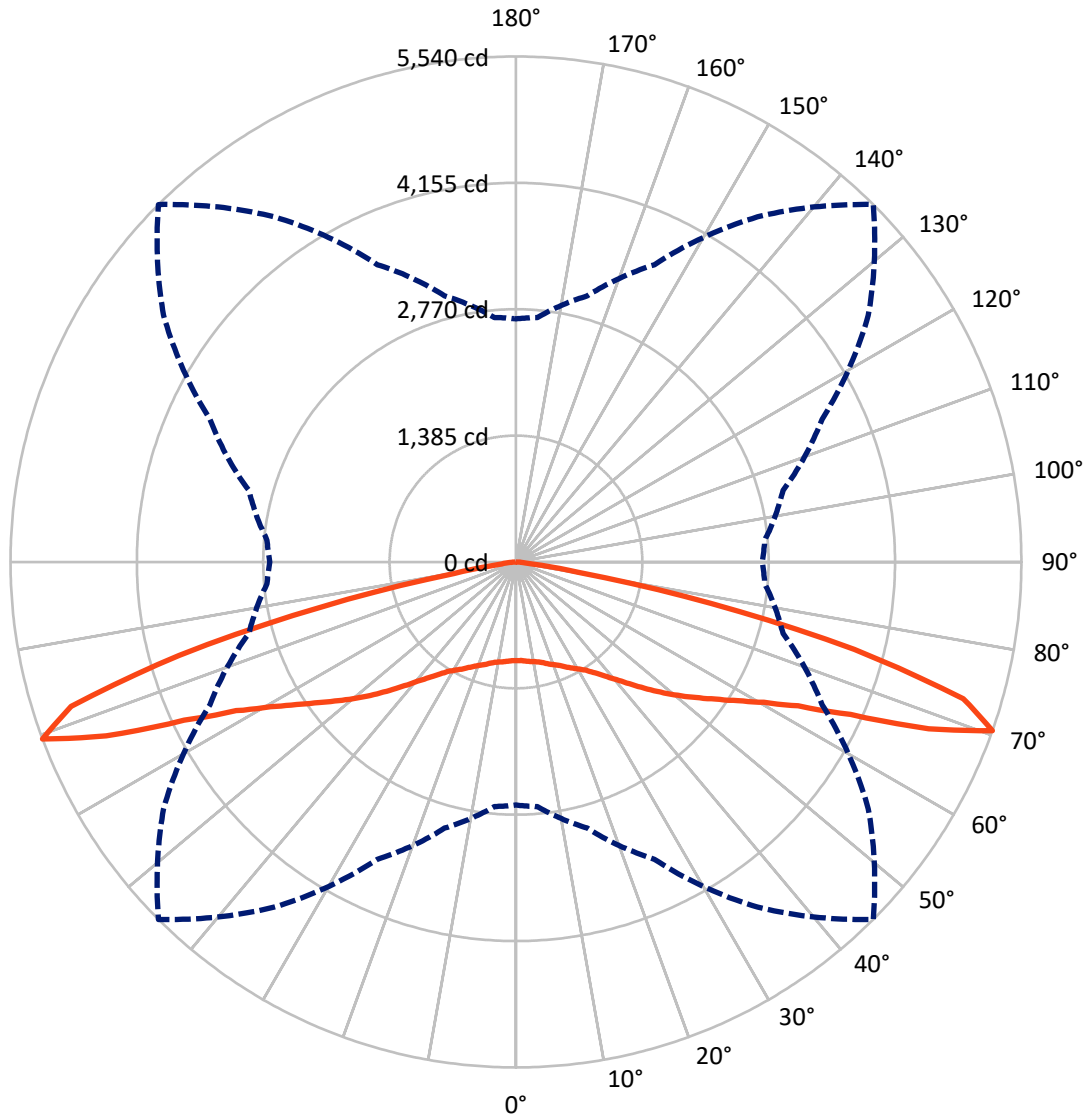
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

REPORT NUMBER: P946825
CATALOG NUMBER: GALN-SB2B-840-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P946825

CATALOG NUMBER: GALN-SB2B-840-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5640.5	0.0	5640.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5640.5	0.0	5640.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11281.0	0.0	11281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	0.9
10°-20°	325.5	2.9
20°-30°	581.8	5.2
30°-40°	943.0	8.4
40°-50°	1536.0	13.6
50°-60°	2342.0	20.8
60°-70°	3484.1	30.9
70°-80°	1898.9	16.8
80°-90°	64.7	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°	11281.0	100.0
0°-180°	11281.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946825

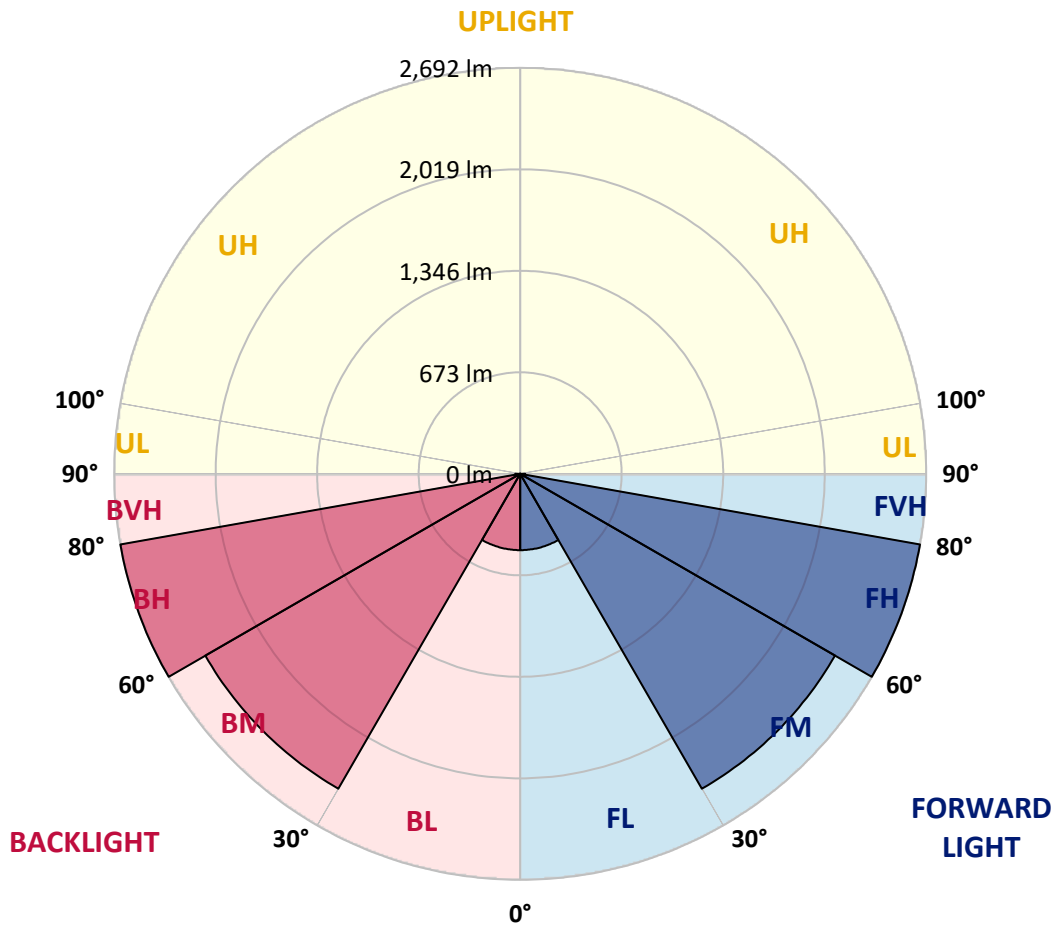
CATALOG NUMBER: GALN-SB2B-840-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.1	4.5			
FM (30°-60°)	2410.5	21.4			
FH (60°-80°)	2691.5	23.9			G2/5000
FVH (80°-90°)	32.3	0.3			G1/100
BL (0°-30°)	506.1	4.5	B2/1000		
BM (30°-60°)	2410.5	21.4	B2/2500		
BH (60°-80°)	2691.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	32.3	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



REPORT NUMBER: P946825

CATALOG NUMBER: GALN-SB2B-840-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6	1080.6
2.5°	1085.7	1086.8	1084.6	1083.4	1082.3	1080.6	1081.2	1084.0	1086.3	1085.7
5°	1094.8	1095.9	1094.2	1093.6	1091.4	1090.8	1090.8	1093.6	1095.3	1094.2
7.5°	1105.0	1106.7	1103.8	1103.3	1102.1	1101.0	1100.4	1103.3	1105.0	1105.0
10°	1114.6	1116.3	1114.0	1112.3	1111.2	1111.2	1110.1	1112.3	1115.2	1114.6
12.5°	1124.8	1125.9	1123.6	1122.5	1122.5	1124.2	1122.5	1123.6	1125.9	1124.8
15°	1137.2	1137.8	1137.2	1138.9	1141.8	1147.4	1142.3	1141.2	1142.3	1139.5
17.5°	1154.2	1155.4	1157.6	1161.6	1165.6	1175.8	1166.7	1163.9	1163.9	1158.2
20°	1175.2	1176.9	1180.3	1187.1	1192.2	1201.8	1192.7	1188.8	1187.1	1179.7
22.5°	1197.3	1200.1	1205.2	1214.3	1223.3	1232.4	1223.3	1216.5	1211.4	1201.8
25°	1222.8	1226.2	1234.1	1248.8	1261.3	1274.3	1263.5	1249.9	1239.7	1226.2
27.5°	1259.0	1263.0	1272.6	1290.7	1306.6	1317.9	1307.7	1290.2	1276.0	1259.6
30°	1310.0	1313.9	1325.3	1344.5	1355.3	1362.6	1355.9	1342.3	1325.3	1306.6
32.5°	1375.7	1380.8	1393.2	1411.4	1413.6	1414.8	1412.5	1405.7	1393.2	1370.6
35°	1458.9	1464.6	1478.7	1493.5	1491.2	1493.5	1490.1	1487.8	1478.7	1452.7
37.5°	1560.9	1567.7	1582.4	1593.7	1588.1	1585.2	1585.8	1586.4	1581.3	1552.4
40°	1679.2	1688.3	1699.1	1711.0	1701.3	1692.8	1698.5	1703.0	1698.5	1669.0
42.5°	1801.0	1814.0	1825.4	1842.3	1834.4	1823.7	1831.6	1836.7	1827.1	1795.3
45°	1936.4	1948.8	1963.5	1989.0	1983.4	1972.0	1983.4	1984.5	1968.1	1930.7
47.5°	2076.3	2089.3	2111.4	2145.3	2143.1	2130.6	2145.3	2137.4	2116.5	2071.7
50°	2208.8	2226.9	2260.9	2308.5	2313.0	2297.7	2317.5	2302.2	2267.1	2211.0
52.5°	2333.4	2352.6	2406.4	2471.0	2487.4	2467.6	2494.2	2467.6	2414.9	2343.0
55°	2464.2	2485.7	2549.7	2634.1	2667.0	2652.2	2677.2	2636.9	2562.2	2475.0
57.5°	2618.3	2631.3	2707.7	2808.0	2863.5	2866.9	2878.2	2810.2	2719.6	2620.5
60°	2785.3	2803.5	2886.7	3006.8	3094.6	3122.9	3111.0	3010.2	2904.8	2791.0
62.5°	2999.4	3019.2	3118.9	3262.8	3401.5	3471.7	3425.3	3279.2	3148.9	3012.4
65°	3176.7	3198.8	3378.9	3635.4	3888.0	4029.0	3912.4	3643.4	3408.9	3216.3
67.5°	3048.1	3075.3	3357.9	3829.1	4457.2	4878.0	4478.7	3886.9	3427.6	3166.5
70°	2664.1	2689.6	3019.2	3595.2	4617.5	5539.5	4713.8	3701.1	3030.0	2737.8
72.5°	1768.7	1850.8	2184.4	2875.4	4123.1	5126.1	4163.8	2817.0	2026.4	1764.8
75°	586.7	652.4	880.1	1490.6	2761.5	3833.6	2629.0	1319.0	697.2	501.8
77.5°	147.8	170.5	235.0	426.5	1101.6	2182.7	991.7	348.3	189.7	132.5
80°	71.9	79.3	113.3	142.2	275.8	693.8	258.8	133.7	89.5	69.1
82.5°	39.6	40.2	64.0	80.4	102.5	179.5	106.5	78.2	51.5	41.9
85°	24.4	23.8	34.0	43.0	43.0	64.0	51.0	43.0	29.5	26.1
87.5°	9.6	9.6	12.5	13.6	11.9	16.4	13.0	14.2	11.3	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1080.6
1086.3
1094.8
1105.0
1114.6
1124.2
1139.5
1158.2
1179.7
1201.2
1225.6
1259.0
1306.6
1371.1
1452.7
1552.4
1669.0
1797.6
1934.7
2068.9
2209.9
2336.2
2463.1
2606.9
2772.9
2988.6
3184.6
3127.4
2698.7
1707.6
474.6
118.4
63.4
41.9
27.2
11.3
0.0

OF REPORT)