

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: P946321

Luminaire Tested: **GALN-SB2A-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946321
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-SB2A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9395 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

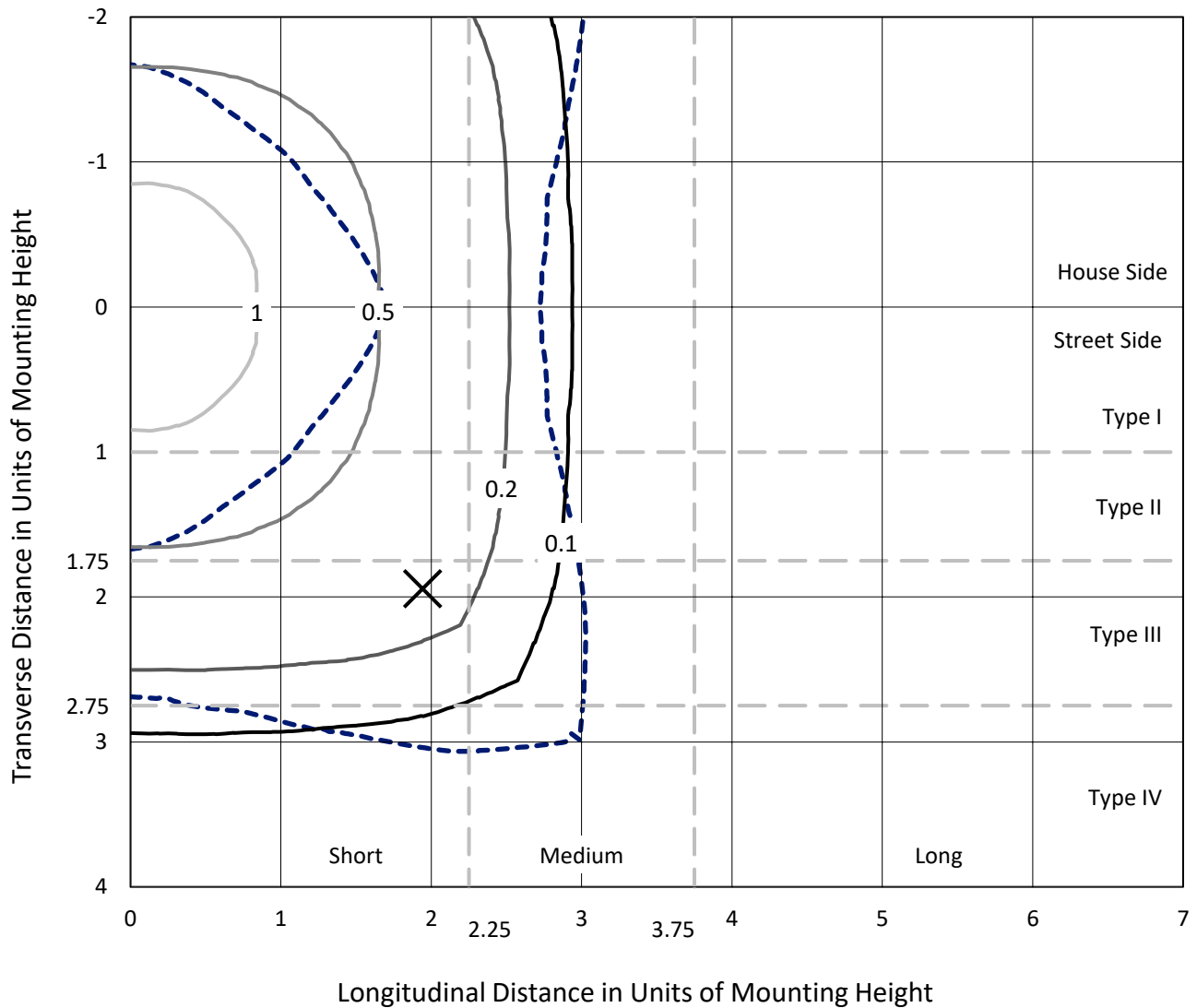
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946321
 CATALOG NUMBER: GALN-SB2A-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

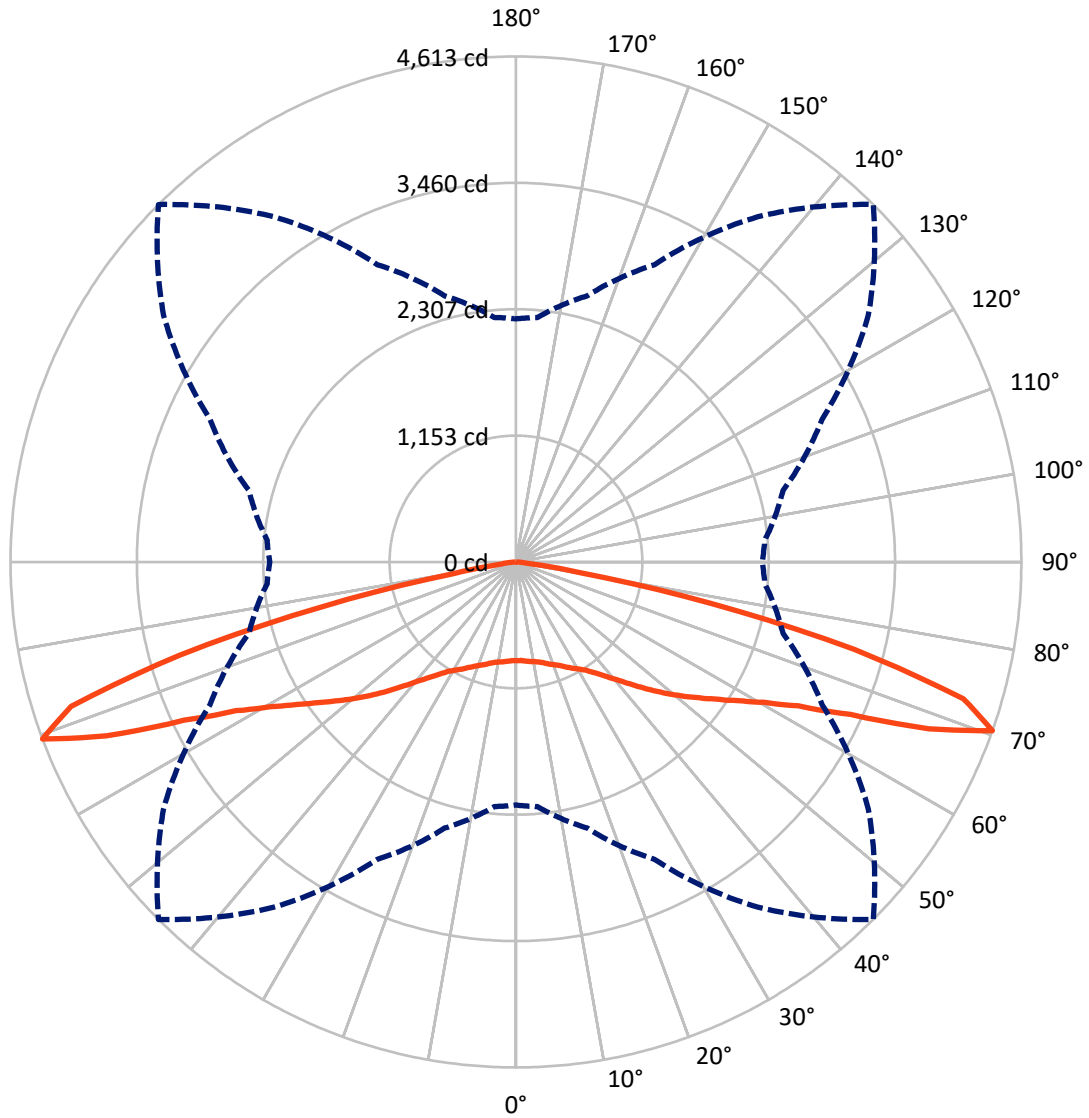
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

REPORT NUMBER: P946321
CATALOG NUMBER: GALN-SB2A-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946321

CATALOG NUMBER: GALN-SB2A-735-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4697.5	0.0	4697.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4697.5	0.0	4697.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9395.0	0.0	9395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	0.9
10°-20°	271.1	2.9
20°-30°	484.5	5.2
30°-40°	785.4	8.4
40°-50°	1279.2	13.6
50°-60°	1950.4	20.8
60°-70°	2901.6	30.9
70°-80°	1581.5	16.8
80°-90°	53.8	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°	9395.0	100.0
0°-180°	9395.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946321

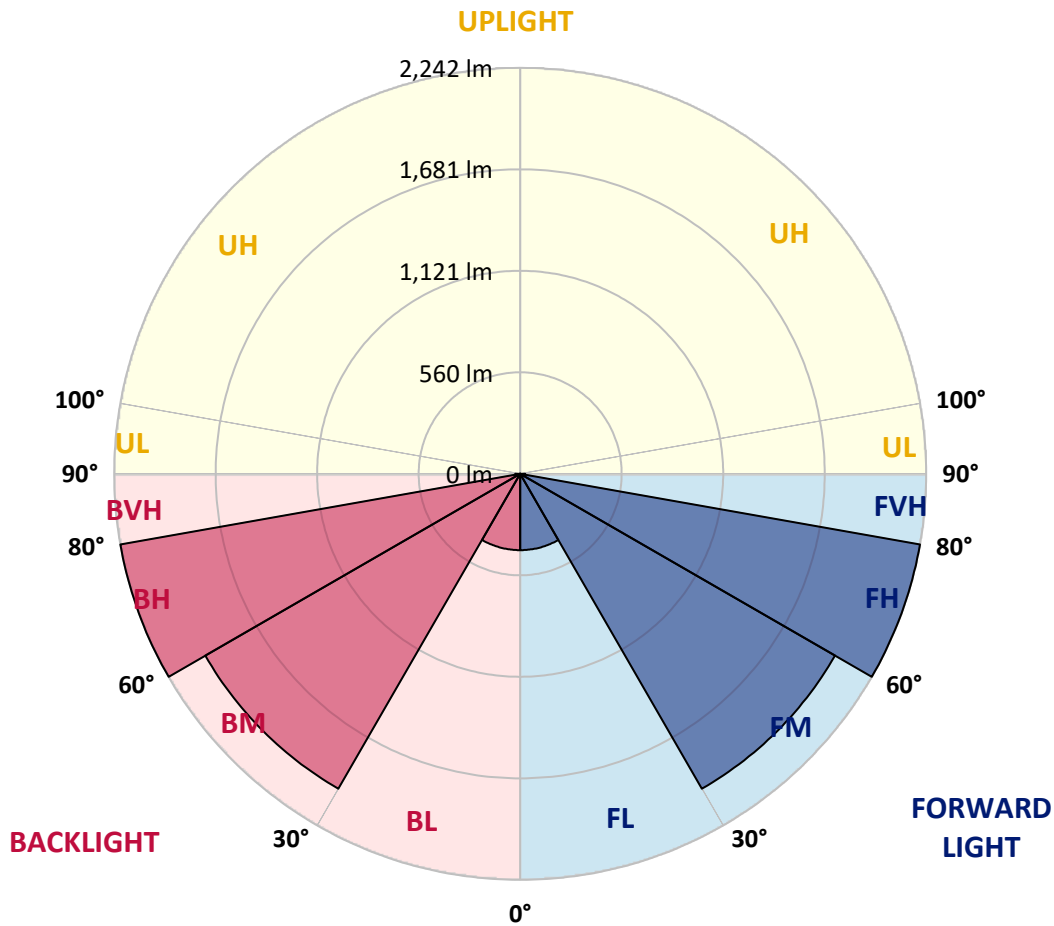
CATALOG NUMBER: GALN-SB2A-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.5	4.5			
FM (30°-60°)	2007.5	21.4			
FH (60°-80°)	2241.5	23.9			G2/5000
FVH (80°-90°)	26.9	0.3			G1/100
BL (0°-30°)	421.5	4.5	B1/500		
BM (30°-60°)	2007.5	21.4	B2/2500		
BH (60°-80°)	2241.5	23.9	B3/2500		G2/5000
BVH (80°-90°)	26.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P946321

CATALOG NUMBER: GALN-SB2A-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	904.2	905.1	903.2	902.3	901.4	899.9	900.4	902.8	904.7	904.2
5°	911.7	912.7	911.3	910.8	908.9	908.4	908.4	910.8	912.2	911.3
7.5°	920.2	921.6	919.3	918.8	917.9	916.9	916.5	918.8	920.2	920.2
10°	928.2	929.7	927.8	926.4	925.4	925.4	924.5	926.4	928.7	928.2
12.5°	936.7	937.7	935.8	934.8	934.8	936.3	934.8	935.8	937.7	936.7
15°	947.1	947.6	947.1	948.5	950.9	955.6	951.4	950.4	951.4	949.0
17.5°	961.3	962.2	964.1	967.4	970.7	979.2	971.6	969.3	969.3	964.6
20°	978.7	980.1	983.0	988.6	992.9	1000.9	993.3	990.0	988.6	982.5
22.5°	997.1	999.5	1003.7	1011.3	1018.8	1026.4	1018.8	1013.1	1008.9	1000.9
25°	1018.3	1021.2	1027.8	1040.0	1050.4	1061.3	1052.3	1041.0	1032.5	1021.2
27.5°	1048.5	1051.8	1059.8	1074.9	1088.1	1097.6	1089.1	1074.5	1062.7	1049.0
30°	1091.0	1094.3	1103.7	1119.7	1128.7	1134.8	1129.2	1117.9	1103.7	1088.1
32.5°	1145.7	1149.9	1160.3	1175.4	1177.3	1178.2	1176.3	1170.7	1160.3	1141.4
35°	1215.0	1219.7	1231.5	1243.8	1241.9	1243.8	1241.0	1239.1	1231.5	1209.8
37.5°	1299.9	1305.6	1317.8	1327.3	1322.6	1320.2	1320.7	1321.1	1316.9	1292.8
40°	1398.5	1406.0	1415.0	1424.9	1416.9	1409.8	1414.5	1418.3	1414.5	1390.0
42.5°	1499.9	1510.8	1520.2	1534.3	1527.7	1518.8	1525.4	1529.6	1521.6	1495.2
45°	1612.6	1623.0	1635.3	1656.5	1651.8	1642.4	1651.8	1652.7	1639.0	1607.9
47.5°	1729.1	1740.0	1758.4	1786.7	1784.8	1774.4	1786.7	1780.1	1762.6	1725.4
50°	1839.5	1854.6	1882.9	1922.5	1926.3	1913.6	1930.1	1917.3	1888.1	1841.4
52.5°	1943.3	1959.3	2004.1	2057.9	2071.6	2055.1	2077.2	2055.1	2011.2	1951.3
55°	2052.2	2070.2	2123.5	2193.7	2221.1	2208.8	2229.6	2196.1	2133.8	2061.2
57.5°	2180.5	2191.4	2255.0	2338.5	2384.8	2387.6	2397.0	2340.4	2265.0	2182.4
60°	2319.7	2334.8	2404.1	2504.1	2577.2	2600.8	2590.9	2506.9	2419.2	2324.4
62.5°	2498.0	2514.5	2597.5	2717.3	2832.8	2891.3	2852.7	2731.0	2622.5	2508.8
65°	2645.6	2664.0	2814.0	3027.6	3238.0	3355.5	3258.3	3034.2	2839.0	2678.6
67.5°	2538.5	2561.2	2796.5	3189.0	3712.0	4062.5	3730.0	3237.1	2854.5	2637.1
70°	2218.7	2240.0	2514.5	2994.2	3845.5	4613.4	3925.7	3082.4	2523.4	2280.0
72.5°	1473.0	1541.4	1819.2	2394.7	3433.7	4269.1	3467.7	2346.1	1687.6	1469.7
75°	488.6	543.4	733.0	1241.4	2299.9	3192.7	2189.5	1098.5	580.6	417.9
77.5°	123.1	142.0	195.7	355.2	917.4	1817.8	825.9	290.1	158.0	110.4
80°	59.9	66.0	94.3	118.4	229.7	577.8	215.6	111.3	74.5	57.5
82.5°	33.0	33.5	53.3	67.0	85.4	149.5	88.7	65.1	42.9	34.9
85°	20.3	19.8	28.3	35.8	35.8	53.3	42.5	35.8	24.5	21.7
87.5°	8.0	8.0	10.4	11.3	9.9	13.7	10.8	11.8	9.4	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
899.9
904.7
911.7
920.2
928.2
936.3
949.0
964.6
982.5
1000.4
1020.7
1048.5
1088.1
1141.9
1209.8
1292.8
1390.0
1497.1
1611.2
1723.0
1840.5
1945.6
2051.3
2171.1
2309.3
2489.0
2652.2
2604.6
2247.5
1422.1
395.3
98.6
52.8
34.9
22.6
9.4
0.0

OF REPORT)