

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: P946447

Luminaire Tested: **GALN-SB2A-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946447
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 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: 8714 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

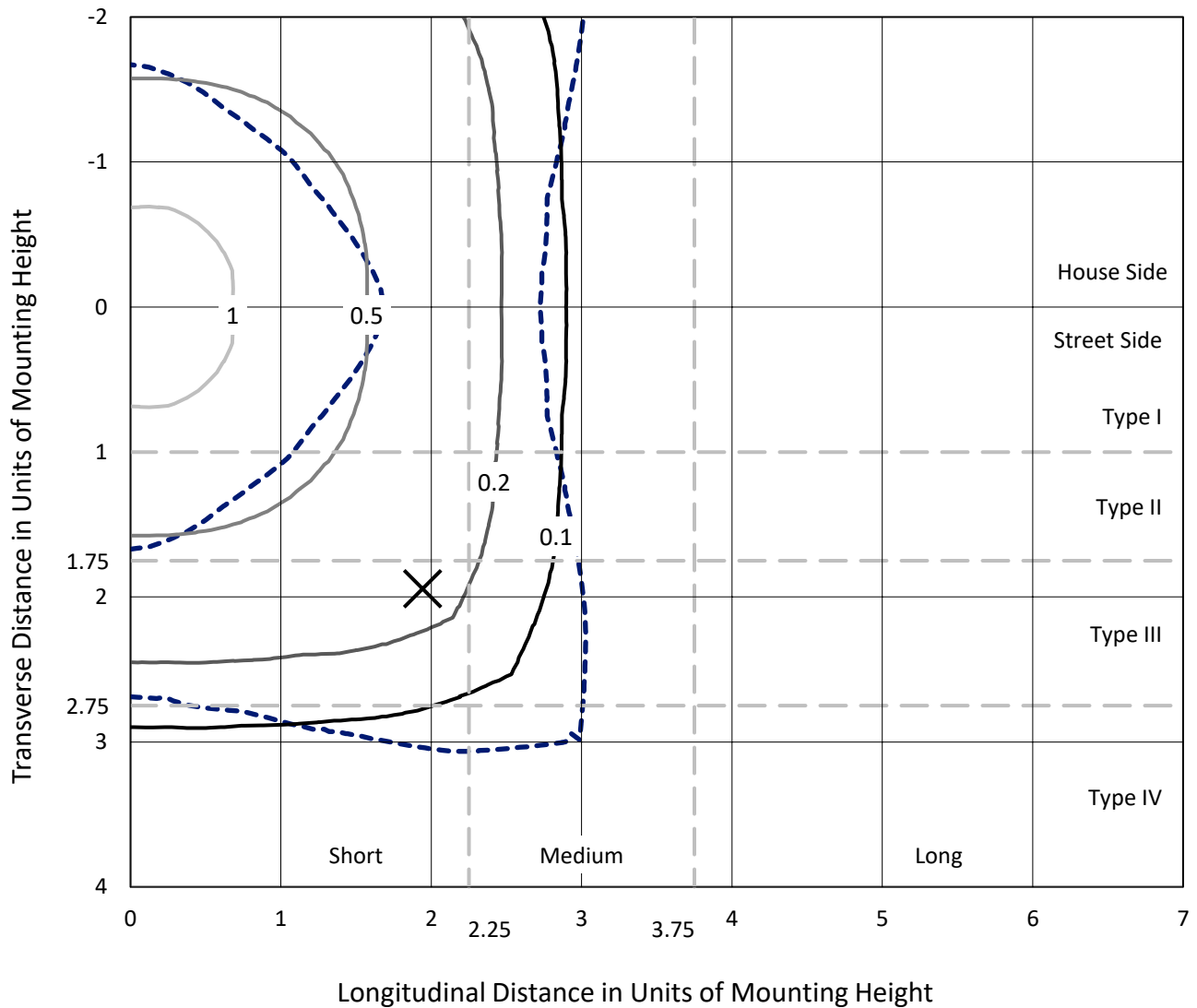
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

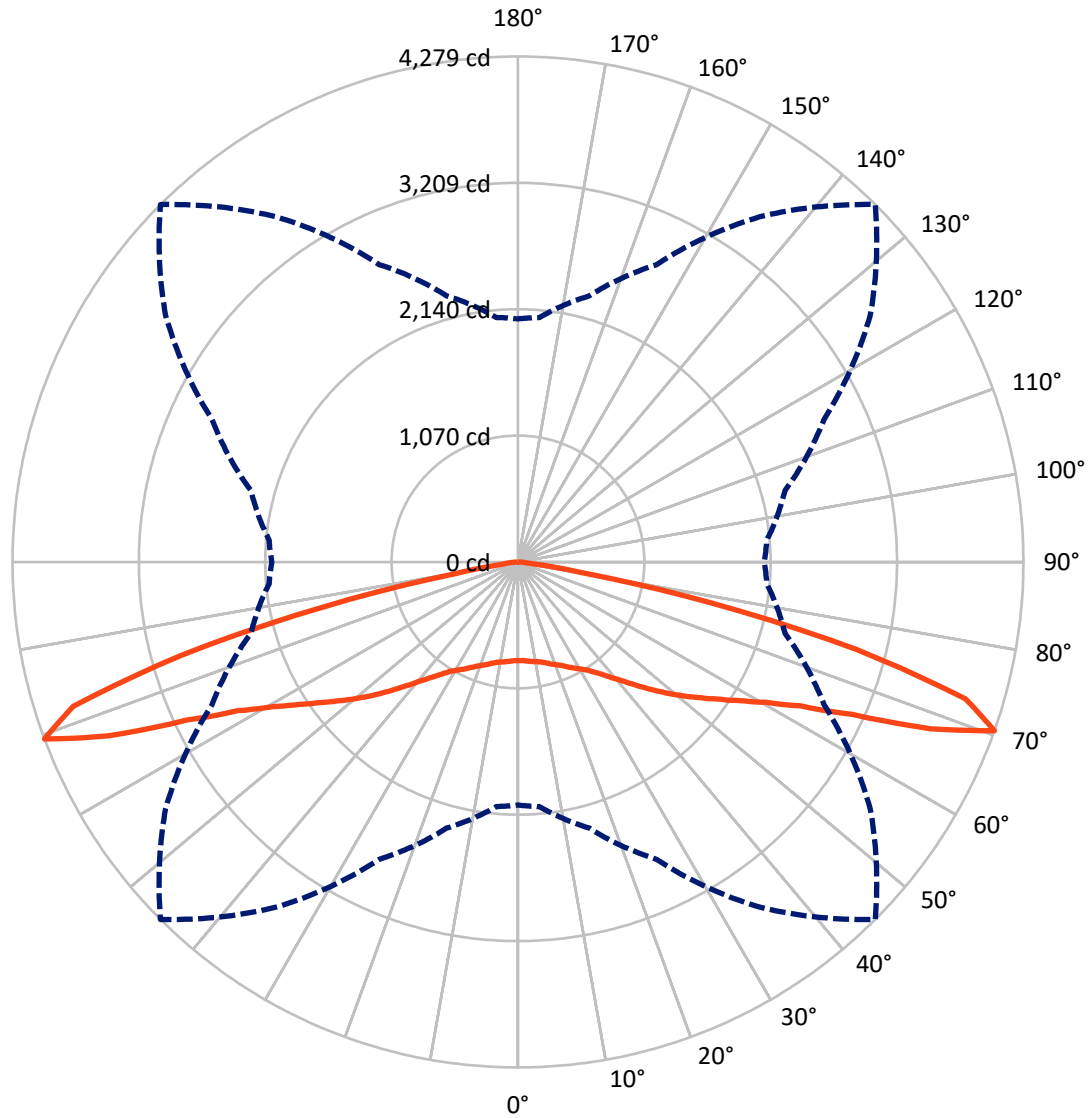
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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
House Side	Lumens	4357.0	0.0	4357.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4357.0	0.0	4357.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8714.0	0.0	8714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	0.9
10°-20°	251.5	2.9
20°-30°	449.4	5.2
30°-40°	728.4	8.4
40°-50°	1186.5	13.6
50°-60°	1809.0	20.8
60°-70°	2691.3	30.9
70°-80°	1466.8	16.8
80°-90°	49.9	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°	8714.0	100.0
0°-180°	8714.0	100.0

Coefficient of Utilization



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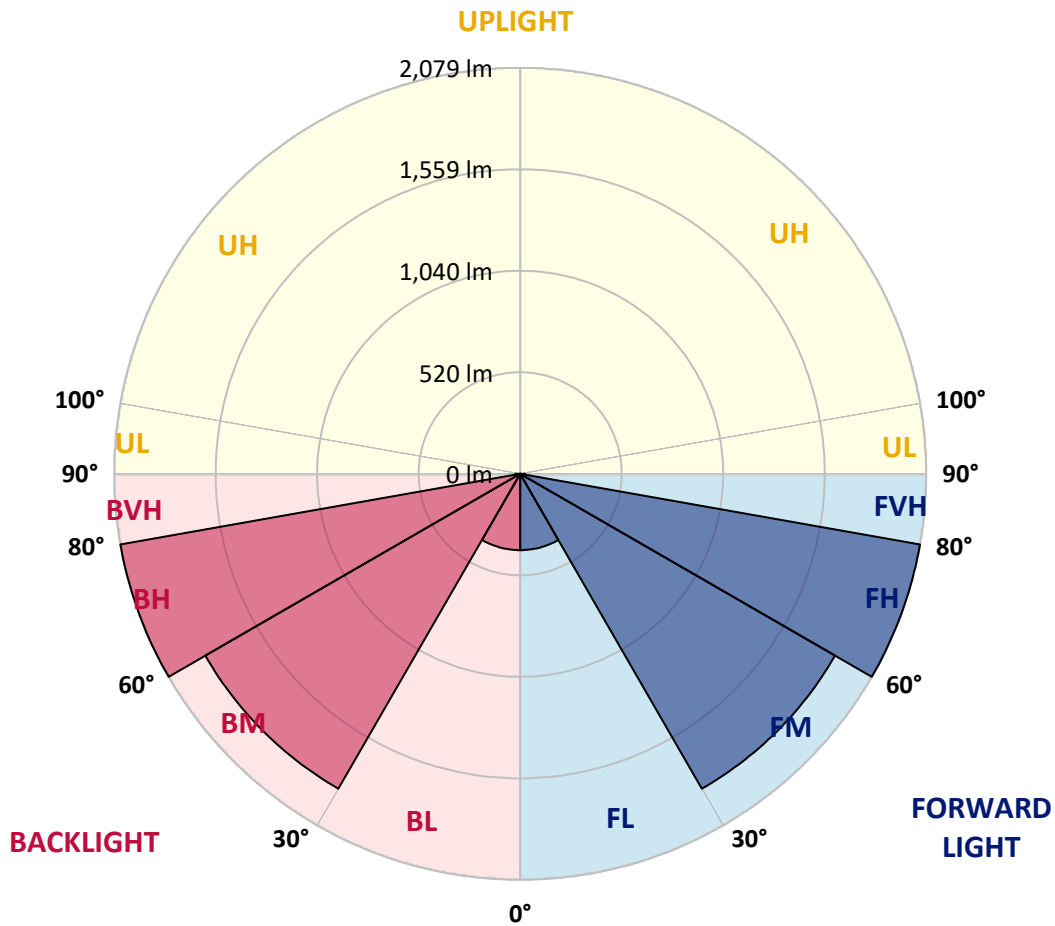
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.0	4.5			
FM (30°-60°)	1862.0	21.4			
FH (60°-80°)	2079.1	23.9			G2/5000
FVH (80°-90°)	25.0	0.3			G1/100
BL (0°-30°)	391.0	4.5	B1/500		
BM (30°-60°)	1862.0	21.4	B2/2500		
BH (60°-80°)	2079.1	23.9	B3/2500		G2/5000
BVH (80°-90°)	25.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	838.6	839.5	837.8	836.9	836.0	834.7	835.1	837.3	839.1	838.6
5°	845.6	846.5	845.2	844.8	843.0	842.6	842.6	844.8	846.1	845.2
7.5°	853.5	854.8	852.6	852.2	851.3	850.5	850.0	852.2	853.5	853.5
10°	861.0	862.3	860.5	859.2	858.3	858.3	857.5	859.2	861.4	861.0
12.5°	868.8	869.7	868.0	867.1	867.1	868.4	867.1	868.0	869.7	868.8
15°	878.5	878.9	878.5	879.8	882.0	886.3	882.4	881.5	882.4	880.2
17.5°	891.6	892.5	894.2	897.3	900.3	908.2	901.2	899.0	899.0	894.6
20°	907.8	909.1	911.7	917.0	920.9	928.3	921.3	918.3	917.0	911.3
22.5°	924.8	927.0	931.0	938.0	945.0	952.0	945.0	939.7	935.8	928.3
25°	944.5	947.1	953.3	964.6	974.3	984.3	976.0	965.5	957.6	947.1
27.5°	972.5	975.6	983.0	997.0	1009.3	1018.0	1010.1	996.6	985.6	973.0
30°	1011.9	1015.0	1023.7	1038.6	1046.9	1052.6	1047.3	1036.8	1023.7	1009.3
32.5°	1062.6	1066.6	1076.2	1090.2	1091.9	1092.8	1091.1	1085.8	1076.2	1058.7
35°	1126.9	1131.3	1142.3	1153.6	1151.9	1153.6	1151.0	1149.3	1142.3	1122.1
37.5°	1205.7	1210.9	1222.3	1231.1	1226.7	1224.5	1224.9	1225.4	1221.4	1199.1
40°	1297.1	1304.1	1312.4	1321.6	1314.2	1307.6	1312.0	1315.5	1312.0	1289.3
42.5°	1391.2	1401.2	1410.0	1423.1	1417.0	1408.7	1414.8	1418.7	1411.3	1386.8
45°	1495.7	1505.4	1516.7	1536.4	1532.1	1523.3	1532.1	1532.9	1520.2	1491.4
47.5°	1603.8	1613.9	1630.9	1657.2	1655.4	1645.8	1657.2	1651.0	1634.9	1600.3
50°	1706.2	1720.2	1746.4	1783.2	1786.7	1774.9	1790.2	1778.4	1751.2	1707.9
52.5°	1802.4	1817.3	1858.9	1908.7	1921.4	1906.1	1926.7	1906.1	1865.4	1809.9
55°	1903.5	1920.1	1969.5	2034.7	2060.1	2048.7	2068.0	2036.9	1979.2	1911.8
57.5°	2022.5	2032.5	2091.6	2169.0	2211.9	2214.5	2223.3	2170.8	2100.8	2024.2
60°	2151.5	2165.5	2229.8	2322.6	2390.4	2412.3	2403.1	2325.2	2243.8	2155.9
62.5°	2316.9	2332.2	2409.2	2520.3	2627.5	2681.7	2645.9	2533.0	2432.4	2327.0
65°	2453.8	2470.9	2610.0	2808.2	3003.3	3112.2	3022.1	2814.3	2633.2	2484.4
67.5°	2354.5	2375.5	2593.8	2957.8	3443.0	3768.0	3459.6	3002.4	2647.6	2445.9
70°	2057.9	2077.6	2332.2	2777.1	3566.8	4279.0	3641.1	2858.9	2340.5	2114.8
72.5°	1366.2	1429.7	1687.4	2221.1	3184.9	3959.6	3216.3	2176.0	1565.3	1363.2
75°	453.2	504.0	679.8	1151.4	2133.2	2961.3	2030.8	1018.9	538.5	387.6
77.5°	114.2	131.7	181.6	329.4	850.9	1686.0	766.0	269.0	146.6	102.4
80°	55.6	61.2	87.5	109.8	213.1	535.9	199.9	103.2	69.1	53.4
82.5°	30.6	31.1	49.4	62.1	79.2	138.7	82.2	60.4	39.8	32.4
85°	18.8	18.4	26.2	33.2	33.2	49.4	39.4	33.2	22.7	20.1
87.5°	7.4	7.4	9.6	10.5	9.2	12.7	10.1	10.9	8.7	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
834.7
839.1
845.6
853.5
861.0
868.4
880.2
894.6
911.3
927.9
946.7
972.5
1009.3
1059.1
1122.1
1199.1
1289.3
1388.6
1494.4
1598.1
1707.0
1804.6
1902.6
2013.7
2141.9
2308.6
2459.9
2415.8
2084.6
1319.0
366.6
91.4
49.0
32.4
21.0
8.7
0.0

OF REPORT)