

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: P940180

Luminaire Tested: **GALN-SB3A-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13022 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

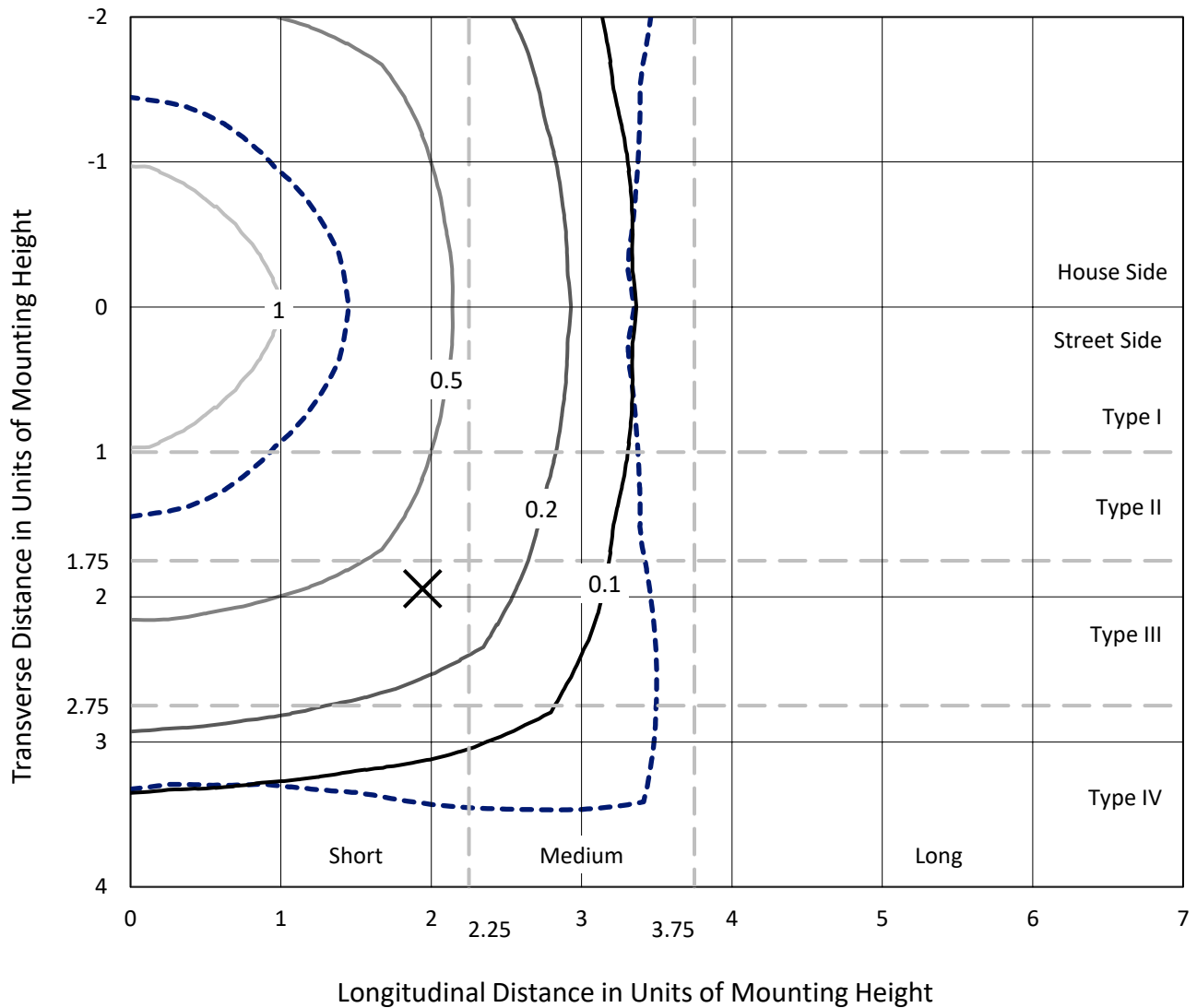
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

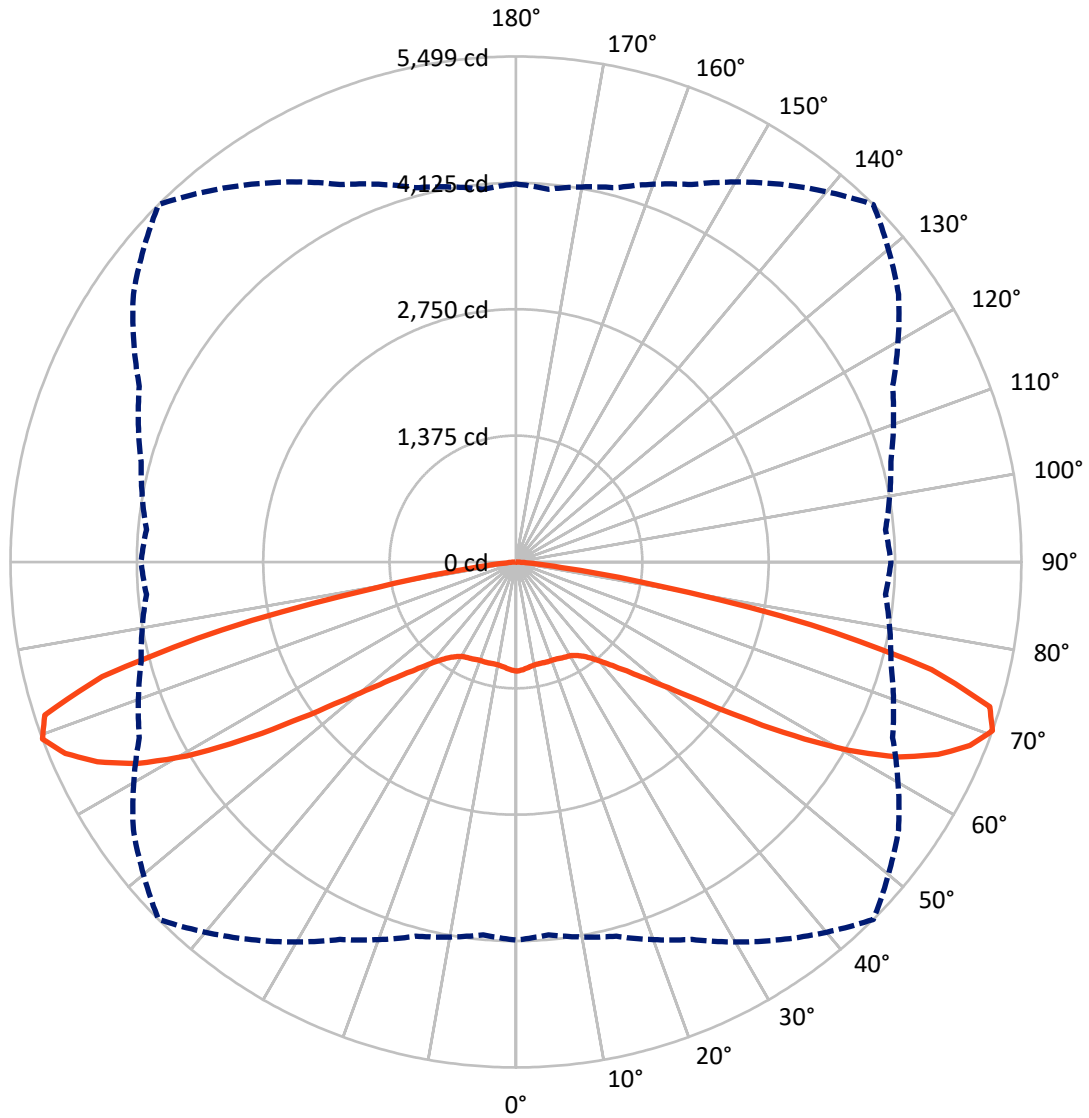
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6511.0	0.0	6511.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6511.0	0.0	6511.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13022.0	0.0	13022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	0.8
10°-20°	324.5	2.5
20°-30°	539.9	4.1
30°-40°	816.6	6.3
40°-50°	1356.9	10.4
50°-60°	2560.5	19.7
60°-70°	4323.4	33.2
70°-80°	2840.9	21.8
80°-90°	148.8	1.1
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°	13022.0	100.0
0°-180°	13022.0	100.0

Coefficient of Utilization



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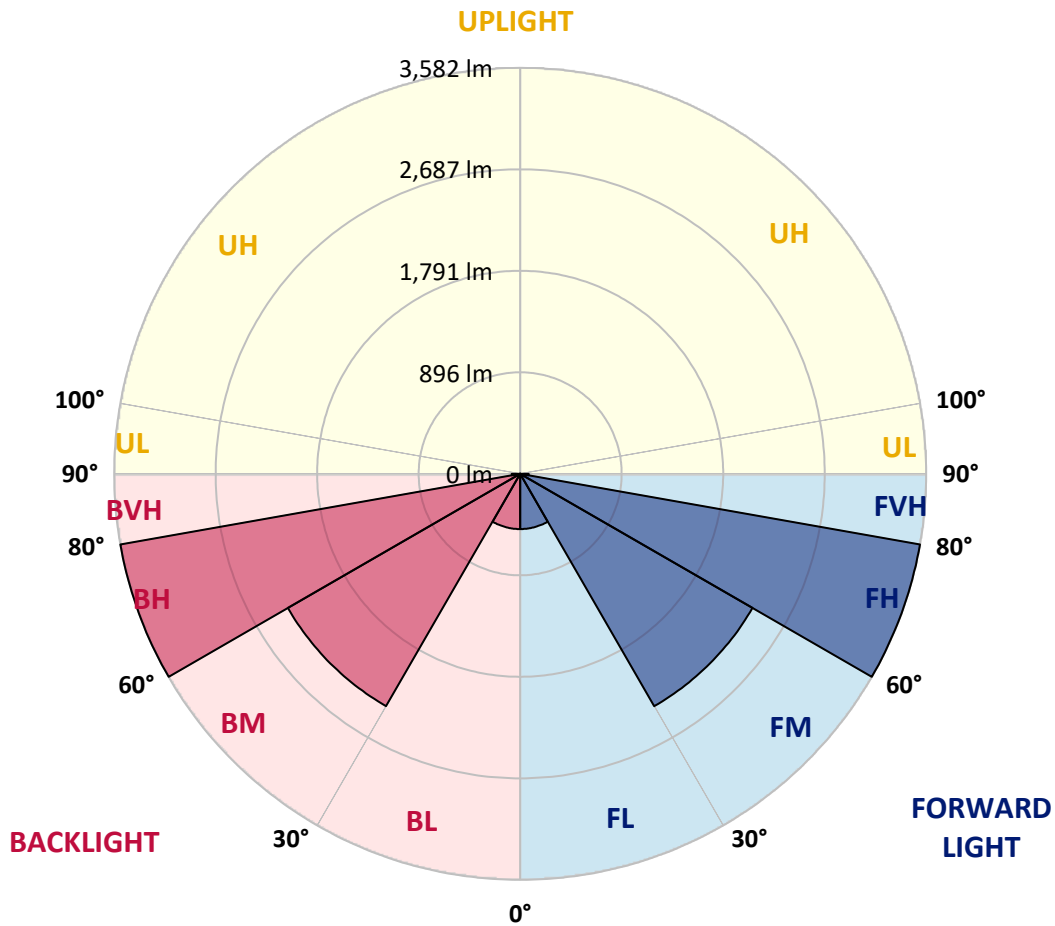
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.4	3.7			
FM (30°-60°)	2367.0	18.2			
FH (60°-80°)	3582.2	27.5			G2/5000
FVH (80°-90°)	74.4	0.6			G1/100
BL (0°-30°)	487.4	3.7	B1/500		
BM (30°-60°)	2367.0	18.2	B2/2500		
BH (60°-80°)	3582.2	27.5	B4/5000		G2/5000
BVH (80°-90°)	74.4	0.6			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1187.9	1187.9	1187.9	1187.9	1187.9	1187.9	1187.9	1187.9	1187.9	1187.9
2.5°	1180.4	1183.8	1182.5	1179.7	1179.7	1177.7	1179.7	1181.1	1183.1	1184.5
5°	1164.9	1167.6	1166.9	1164.9	1165.5	1163.5	1164.9	1166.9	1168.2	1168.9
7.5°	1151.3	1154.0	1152.7	1149.3	1149.3	1147.3	1147.9	1150.0	1152.0	1152.7
10°	1147.9	1150.6	1146.6	1141.2	1139.1	1136.4	1137.1	1139.1	1143.2	1145.2
12.5°	1149.3	1151.3	1147.3	1139.1	1137.1	1134.4	1134.4	1136.4	1141.8	1144.6
15°	1153.3	1155.4	1149.3	1140.5	1138.5	1136.4	1135.8	1138.5	1144.6	1149.3
17.5°	1160.8	1162.8	1153.3	1141.2	1138.5	1139.1	1138.5	1140.5	1150.0	1158.8
20°	1167.6	1168.9	1156.1	1141.2	1138.5	1139.1	1138.5	1142.5	1154.7	1166.9
22.5°	1169.6	1170.9	1158.8	1145.9	1143.9	1144.6	1143.9	1147.9	1159.4	1171.6
25°	1170.3	1172.3	1162.8	1152.7	1156.1	1157.4	1156.1	1156.7	1165.5	1176.4
27.5°	1180.4	1183.1	1174.3	1165.5	1167.6	1166.9	1168.9	1170.9	1177.7	1188.5
30°	1201.4	1203.4	1196.0	1187.2	1185.8	1181.1	1187.2	1194.0	1201.4	1210.9
32.5°	1235.9	1240.0	1230.5	1221.0	1214.9	1212.2	1217.0	1228.5	1238.6	1248.8
35°	1293.5	1296.2	1287.4	1269.8	1258.9	1258.9	1263.0	1277.9	1294.1	1307.0
37.5°	1374.7	1378.1	1362.5	1341.5	1325.3	1325.3	1330.7	1346.3	1370.6	1388.9
40°	1473.5	1478.2	1458.6	1436.9	1421.4	1418.7	1425.4	1443.0	1466.1	1489.1
42.5°	1592.6	1598.0	1572.3	1553.4	1541.2	1541.2	1544.6	1560.8	1581.8	1610.2
45°	1744.9	1754.4	1719.2	1700.2	1688.7	1691.4	1693.5	1707.7	1726.6	1759.1
47.5°	1926.3	1935.8	1898.6	1878.9	1876.9	1889.8	1881.6	1891.8	1901.9	1939.2
50°	2132.1	2148.3	2122.6	2121.2	2125.3	2149.0	2130.0	2135.5	2123.9	2147.6
52.5°	2383.9	2407.5	2402.8	2410.9	2456.3	2505.0	2461.7	2442.7	2399.4	2406.9
55°	2689.1	2725.0	2731.8	2780.5	2883.4	2982.9	2890.8	2814.3	2722.3	2705.4
57.5°	3036.3	3064.8	3097.3	3196.8	3389.0	3565.6	3389.0	3219.8	3074.9	3040.4
60°	3410.0	3445.2	3476.3	3623.2	3908.8	4157.2	3903.4	3634.7	3443.1	3396.4
62.5°	3811.3	3856.7	3878.3	4041.5	4374.5	4670.9	4379.2	4053.6	3841.1	3791.0
65°	4196.5	4233.7	4258.1	4432.0	4750.1	5047.3	4771.8	4451.0	4232.3	4166.7
67.5°	4375.8	4396.1	4455.7	4652.7	4988.4	5327.5	5045.2	4673.6	4429.3	4314.2
70°	4113.2	4071.9	4215.4	4530.8	5016.8	5499.4	5081.8	4521.3	4222.2	4035.4
72.5°	3178.5	3107.4	3356.5	3895.9	4691.9	5389.7	4724.4	3926.4	3511.5	3132.5
75°	1729.3	1648.8	1992.6	2674.9	3741.6	4671.6	3827.6	2751.4	2218.7	1716.5
77.5°	488.0	457.5	735.1	1294.1	2250.5	3280.0	2337.2	1322.6	871.8	517.1
80°	149.6	144.8	196.3	389.9	955.7	1571.0	918.5	394.6	249.8	157.7
82.5°	88.7	81.2	97.5	142.1	243.7	493.4	236.9	148.2	119.1	79.9
85°	50.8	47.4	57.5	69.0	81.9	104.9	68.4	70.4	63.6	42.6
87.5°	21.0	19.0	22.3	21.7	19.0	24.4	18.3	21.7	25.7	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1187.9
1183.8
1168.9
1152.7
1145.2
1145.2
1150.0
1158.8
1167.6
1171.6
1175.7
1185.8
1208.9
1244.7
1302.3
1382.1
1481.6
1608.2
1757.8
1928.3
2133.4
2381.8
2679.0
3016.0
3355.8
3750.4
4134.2
4315.6
4080.0
3226.5
1828.2
574.6
166.5
86.6
44.7
15.6
0.0

OF REPORT)