

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: P938820

Luminaire Tested: **GALN-SB1A-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938820
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-SB1A-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

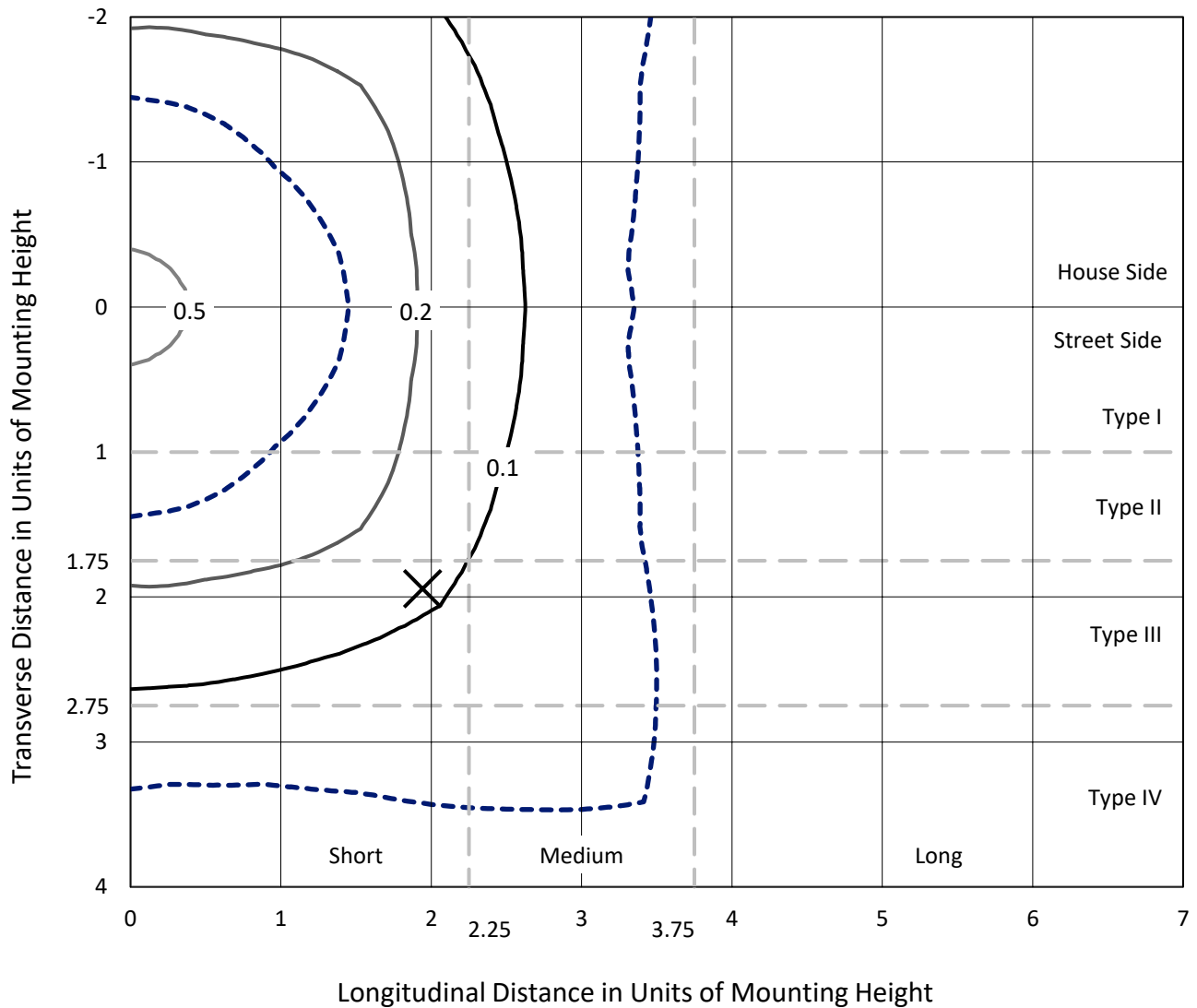
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938820
 CATALOG NUMBER: GALN-SB1A-850-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

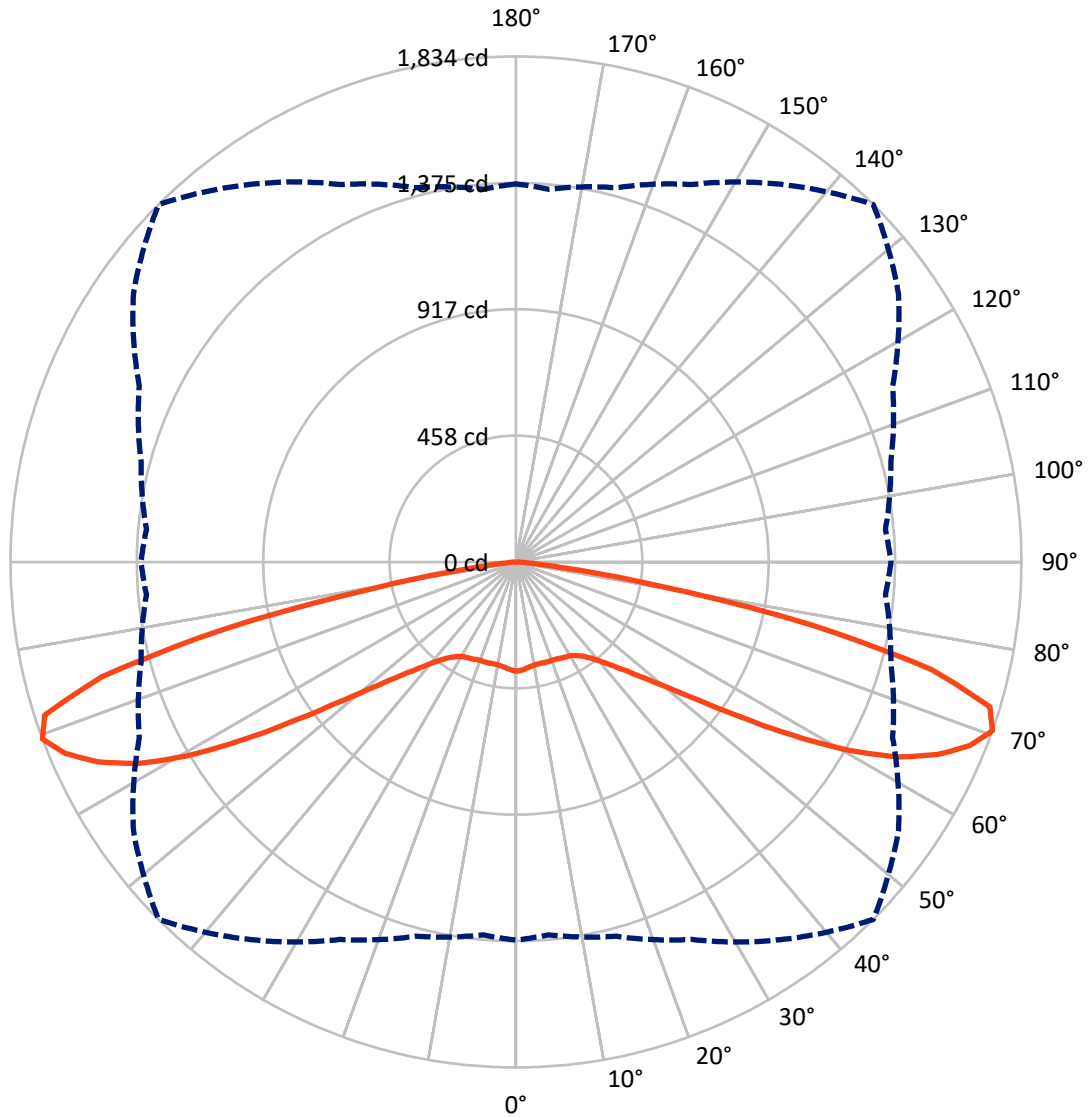
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

REPORT NUMBER: P938820
CATALOG NUMBER: GALN-SB1A-850-U-5WQ

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	2171.0	0.0	2171.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2171.0	0.0	2171.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4342.0	0.0	4342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	0.8
10°-20°	108.2	2.5
20°-30°	180.0	4.1
30°-40°	272.3	6.3
40°-50°	452.4	10.4
50°-60°	853.7	19.7
60°-70°	1441.6	33.2
70°-80°	947.3	21.8
80°-90°	49.6	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°	4342.0	100.0
0°-180°	4342.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938820

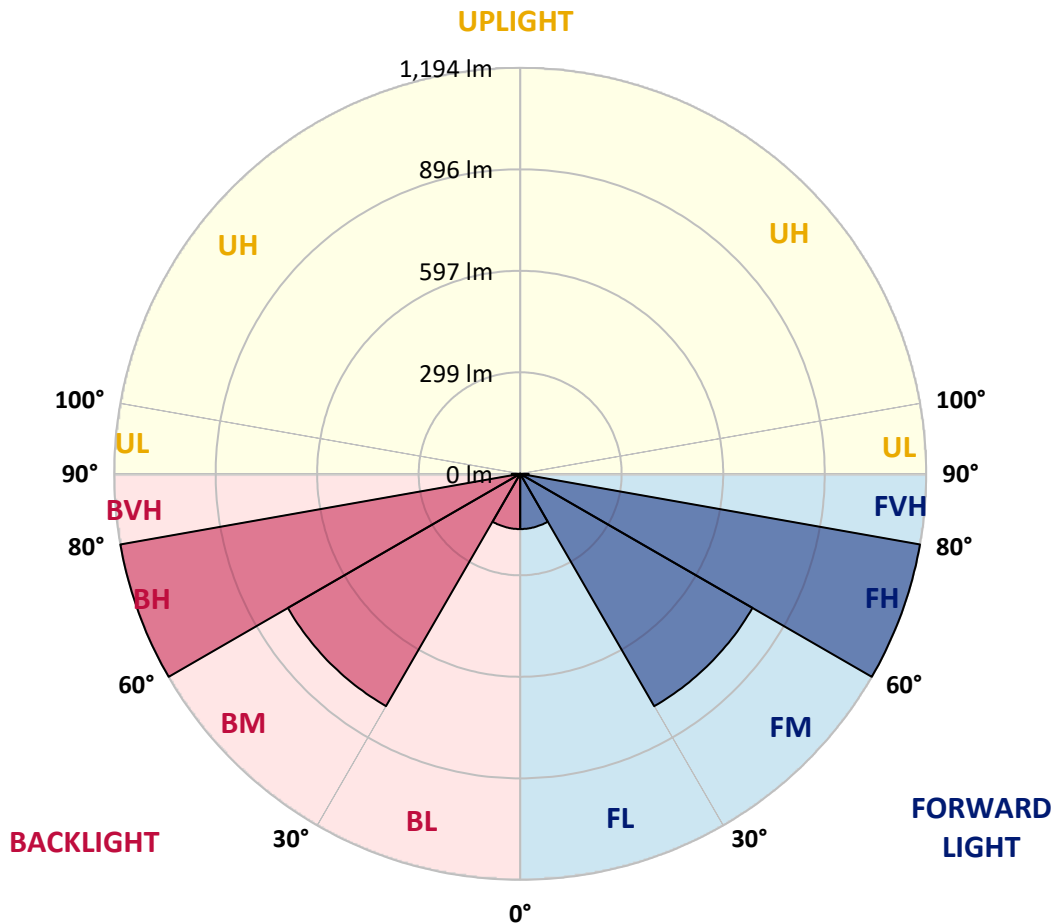
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	162.5	3.7			
FM (30°-60°)	789.2	18.2			
FH (60°-80°)	1194.4	27.5			G1/1800
FVH (80°-90°)	24.8	0.6			G1/100
BL (0°-30°)	162.5	3.7	B1/500		
BM (30°-60°)	789.2	18.2	B1/1000		
BH (60°-80°)	1194.4	27.5	B3/2500		G1/1800
BVH (80°-90°)	24.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1
2.5°	393.6	394.7	394.3	393.4	393.4	392.7	393.4	393.8	394.5	394.9
5°	388.4	389.3	389.1	388.4	388.6	388.0	388.4	389.1	389.5	389.8
7.5°	383.9	384.8	384.3	383.2	383.2	382.5	382.8	383.4	384.1	384.3
10°	382.8	383.7	382.3	380.5	379.8	378.9	379.2	379.8	381.2	381.9
12.5°	383.2	383.9	382.5	379.8	379.2	378.2	378.2	378.9	380.7	381.6
15°	384.6	385.2	383.2	380.3	379.6	378.9	378.7	379.6	381.6	383.2
17.5°	387.1	387.7	384.6	380.5	379.6	379.8	379.6	380.3	383.4	386.4
20°	389.3	389.8	385.5	380.5	379.6	379.8	379.6	381.0	385.0	389.1
22.5°	390.0	390.4	386.4	382.1	381.4	381.6	381.4	382.8	386.6	390.7
25°	390.2	390.9	387.7	384.3	385.5	385.9	385.5	385.7	388.6	392.2
27.5°	393.6	394.5	391.6	388.6	389.3	389.1	389.8	390.4	392.7	396.3
30°	400.6	401.3	398.8	395.9	395.4	393.8	395.9	398.1	400.6	403.8
32.5°	412.1	413.5	410.3	407.1	405.1	404.2	405.8	409.6	413.0	416.4
35°	431.3	432.2	429.3	423.4	419.8	419.8	421.1	426.1	431.5	435.8
37.5°	458.4	459.5	454.3	447.3	441.9	441.9	443.7	448.9	457.0	463.1
40°	491.3	492.9	486.4	479.1	473.9	473.0	475.3	481.2	488.8	496.5
42.5°	531.0	532.8	524.3	517.9	513.9	513.9	515.0	520.4	527.4	536.9
45°	581.8	585.0	573.2	566.9	563.1	564.0	564.7	569.4	575.7	586.6
47.5°	642.3	645.5	633.0	626.5	625.8	630.1	627.4	630.8	634.2	646.6
50°	710.9	716.3	707.7	707.3	708.7	716.6	710.2	712.0	708.2	716.1
52.5°	794.9	802.8	801.2	803.9	819.0	835.3	820.8	814.5	800.1	802.5
55°	896.6	908.6	910.9	927.1	961.4	994.6	963.9	938.4	907.7	902.1
57.5°	1012.4	1021.9	1032.7	1065.9	1130.0	1188.9	1130.0	1073.6	1025.3	1013.8
60°	1137.0	1148.7	1159.1	1208.1	1303.3	1386.2	1301.5	1211.9	1148.1	1132.5
62.5°	1270.8	1286.0	1293.2	1347.6	1458.6	1557.5	1460.2	1351.6	1280.8	1264.1
65°	1399.2	1411.7	1419.8	1477.8	1583.9	1682.9	1591.1	1484.1	1411.2	1389.3
67.5°	1459.1	1465.8	1485.7	1551.4	1663.3	1776.4	1682.3	1558.4	1476.9	1438.5
70°	1371.5	1357.7	1405.6	1510.7	1672.8	1833.7	1694.4	1507.6	1407.8	1345.5
72.5°	1059.8	1036.1	1119.2	1299.0	1564.5	1797.1	1575.3	1309.2	1170.9	1044.5
75°	576.6	549.8	664.4	891.9	1247.6	1557.7	1276.3	917.4	739.8	572.3
77.5°	162.7	152.6	245.1	431.5	750.4	1093.7	779.3	441.0	290.7	172.4
80°	49.9	48.3	65.4	130.0	318.7	523.8	306.3	131.6	83.3	52.6
82.5°	29.6	27.1	32.5	47.4	81.2	164.5	79.0	49.4	39.7	26.6
85°	16.9	15.8	19.2	23.0	27.3	35.0	22.8	23.5	21.2	14.2
87.5°	7.0	6.3	7.4	7.2	6.3	8.1	6.1	7.2	8.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
396.1
394.7
389.8
384.3
381.9
381.9
383.4
386.4
389.3
390.7
392.0
395.4
403.1
415.0
434.2
460.8
494.0
536.2
586.1
643.0
711.4
794.2
893.3
1005.7
1118.9
1250.5
1378.5
1439.0
1360.4
1075.8
609.6
191.6
55.5
28.9
14.9
5.2
0.0

OF REPORT)