

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: P938950

Luminaire Tested: **GALN-SB1B-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938950
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-SB1B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4955 lumens
Efficiency: N/A
Efficacy: 124.5 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

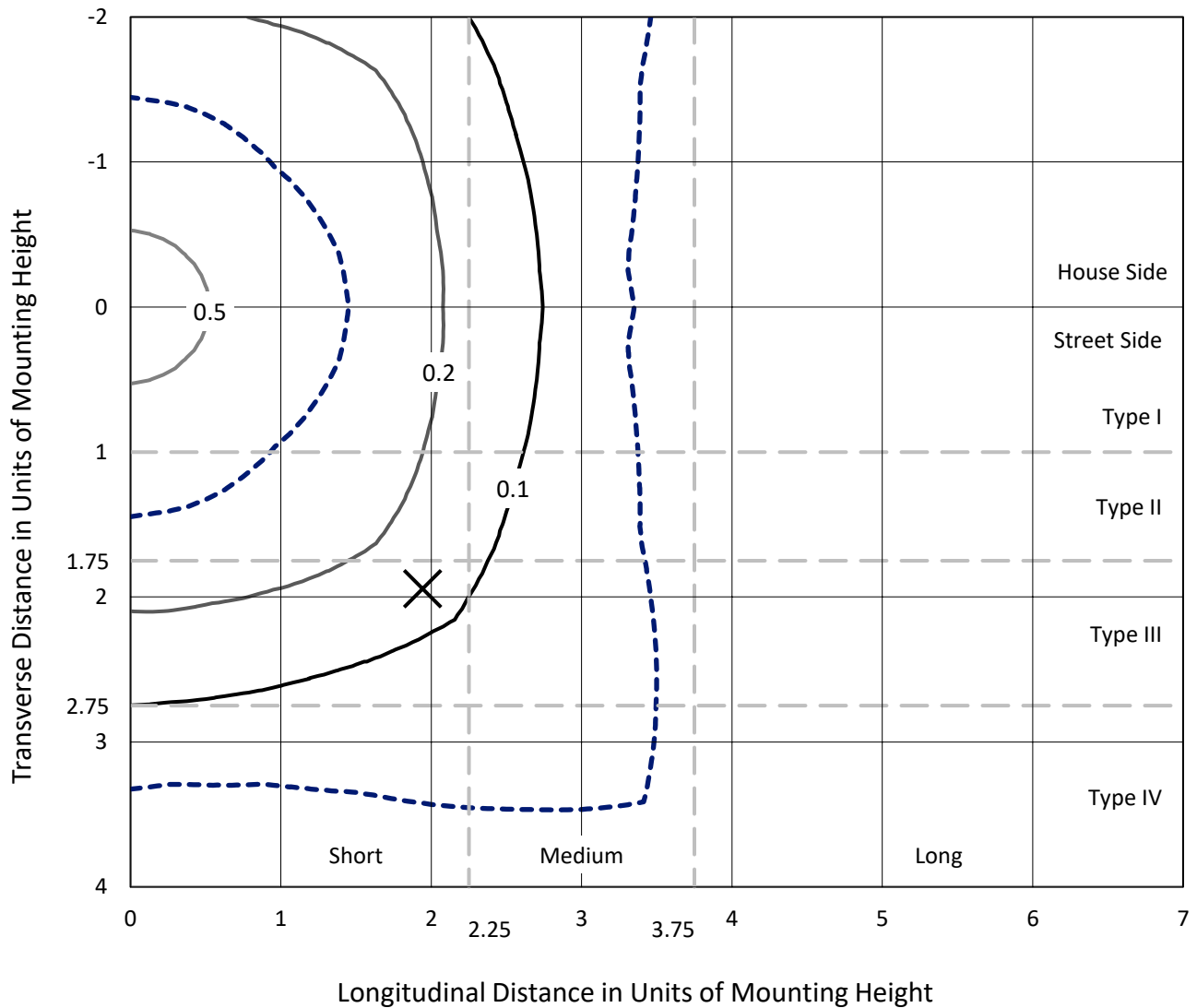
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

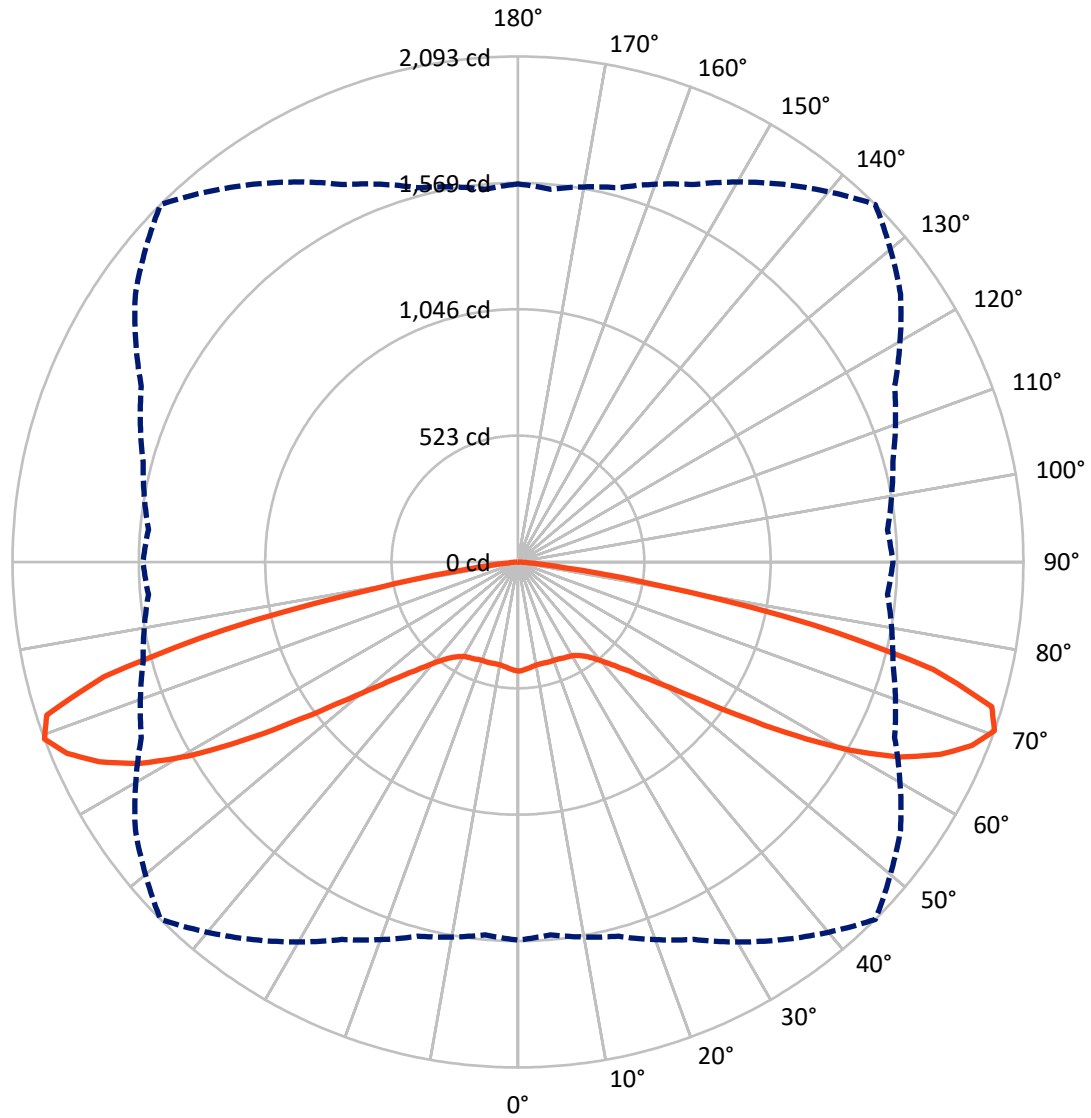
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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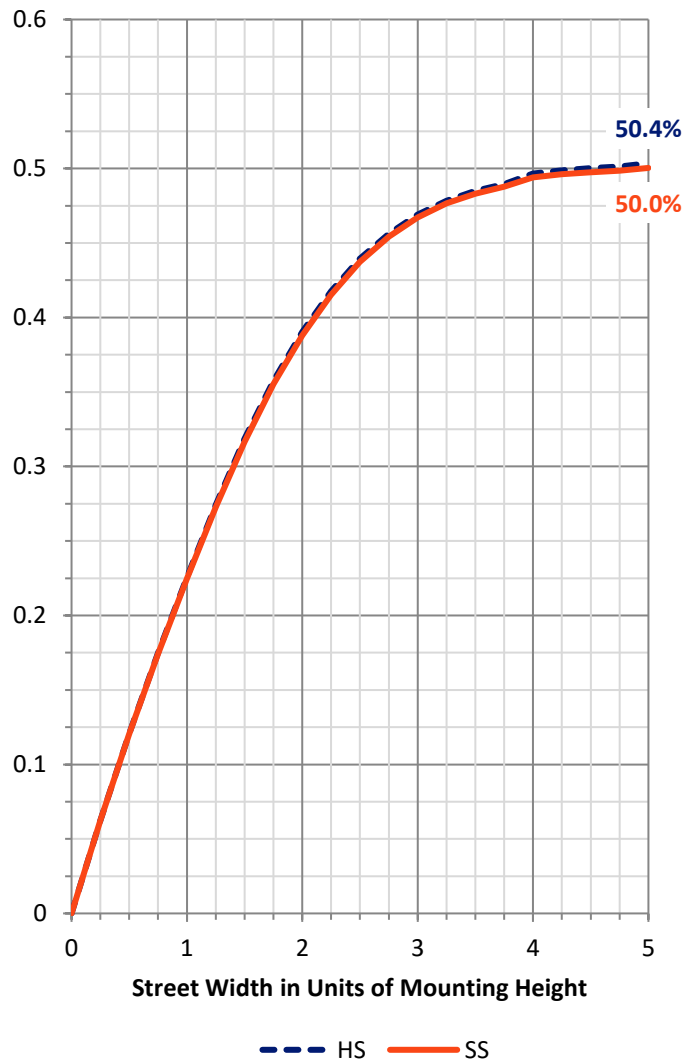
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.5	0.0	2477.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2477.5	0.0	2477.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4955.0	0.0	4955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	0.8
10°-20°	123.5	2.5
20°-30°	205.5	4.1
30°-40°	310.7	6.3
40°-50°	516.3	10.4
50°-60°	974.3	19.7
60°-70°	1645.1	33.2
70°-80°	1081.0	21.8
80°-90°	56.6	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°	4955.0	100.0
0°-180°	4955.0	100.0

Coefficient of Utilization



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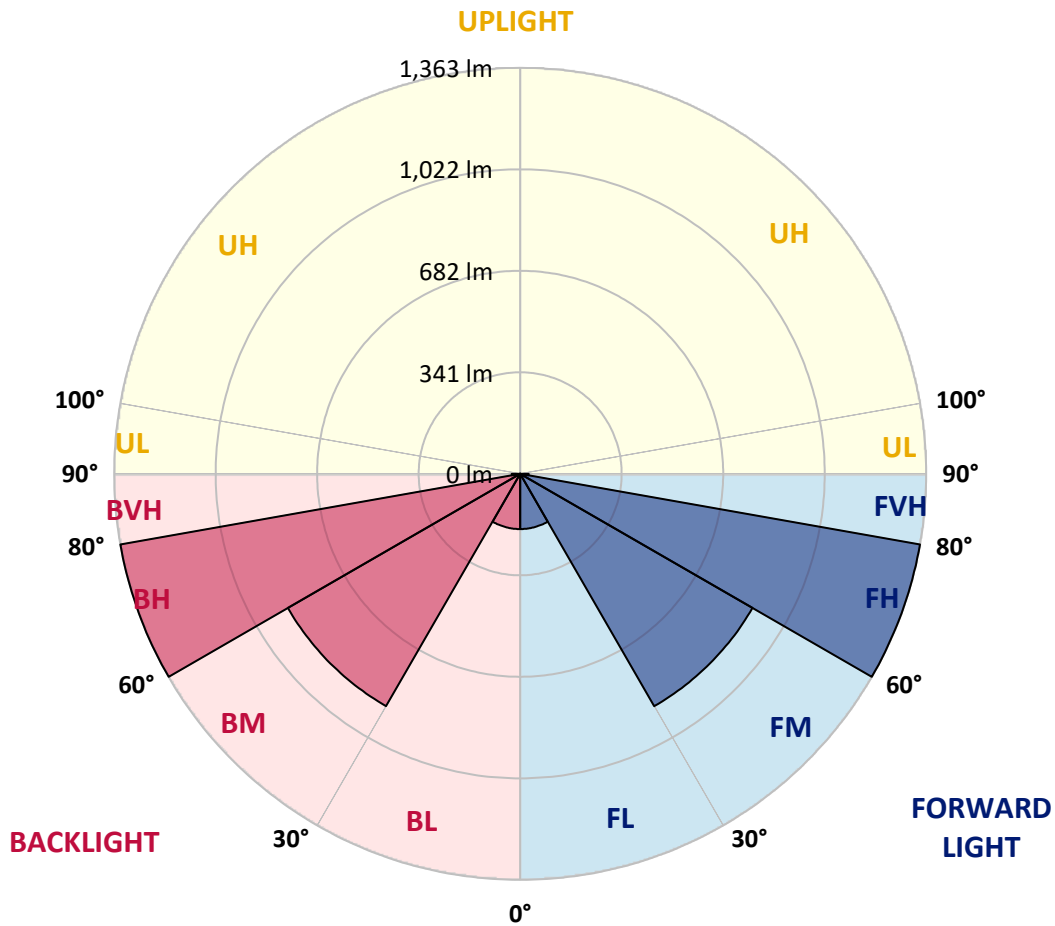
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.5	3.7			
FM (30°-60°)	900.7	18.2			
FH (60°-80°)	1363.0	27.5			G1/1800
FVH (80°-90°)	28.3	0.6			G1/100
BL (0°-30°)	185.5	3.7	B1/500		
BM (30°-60°)	900.7	18.2	B1/1000		
BH (60°-80°)	1363.0	27.5	B3/2500		G1/1800
BVH (80°-90°)	28.3	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°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	449.2	450.5	449.9	448.9	448.9	448.1	448.9	449.4	450.2	450.7
5°	443.2	444.3	444.0	443.2	443.5	442.7	443.2	444.0	444.5	444.8
7.5°	438.1	439.1	438.6	437.3	437.3	436.5	436.8	437.6	438.3	438.6
10°	436.8	437.8	436.3	434.2	433.5	432.4	432.7	433.5	435.0	435.8
12.5°	437.3	438.1	436.5	433.5	432.7	431.6	431.6	432.4	434.5	435.5
15°	438.9	439.6	437.3	434.0	433.2	432.4	432.2	433.2	435.5	437.3
17.5°	441.7	442.5	438.9	434.2	433.2	433.5	433.2	434.0	437.6	440.9
20°	444.3	444.8	439.9	434.2	433.2	433.5	433.2	434.7	439.4	444.0
22.5°	445.0	445.6	440.9	436.0	435.3	435.5	435.3	436.8	441.2	445.8
25°	445.3	446.1	442.5	438.6	439.9	440.4	439.9	440.1	443.5	447.6
27.5°	449.2	450.2	446.8	443.5	444.3	444.0	444.8	445.6	448.1	452.3
30°	457.1	457.9	455.1	451.7	451.2	449.4	451.7	454.3	457.1	460.8
32.5°	470.3	471.8	468.2	464.6	462.3	461.3	463.1	467.4	471.3	475.2
35°	492.2	493.2	489.9	483.2	479.0	479.0	480.6	486.2	492.4	497.3
37.5°	523.1	524.4	518.4	510.5	504.3	504.3	506.3	512.3	521.5	528.5
40°	560.7	562.5	555.0	546.8	540.8	539.8	542.4	549.1	557.8	566.6
42.5°	606.0	608.1	598.3	591.1	586.4	586.4	587.7	593.9	601.9	612.7
45°	664.0	667.6	654.2	647.0	642.6	643.6	644.4	649.8	657.0	669.4
47.5°	733.0	736.6	722.4	715.0	714.2	719.1	716.0	719.8	723.7	737.9
50°	811.3	817.5	807.7	807.2	808.7	817.7	810.5	812.6	808.2	817.2
52.5°	907.1	916.1	914.3	917.4	934.6	953.2	936.7	929.5	913.0	915.8
55°	1023.2	1036.9	1039.5	1058.0	1097.2	1135.0	1100.0	1070.9	1035.9	1029.4
57.5°	1155.4	1166.2	1178.5	1216.4	1289.5	1356.8	1289.5	1225.2	1170.0	1156.9
60°	1297.5	1310.9	1322.8	1378.7	1487.3	1581.9	1485.3	1383.0	1310.1	1292.4
62.5°	1450.2	1467.5	1475.7	1537.8	1664.5	1777.3	1666.3	1542.5	1461.6	1442.5
65°	1596.8	1611.0	1620.2	1686.4	1807.5	1920.5	1815.7	1693.6	1610.4	1585.5
67.5°	1665.0	1672.8	1695.4	1770.4	1898.1	2027.2	1919.8	1778.4	1685.4	1641.6
70°	1565.1	1549.4	1604.0	1724.0	1908.9	2092.6	1933.7	1720.4	1606.6	1535.5
72.5°	1209.4	1182.4	1277.2	1482.4	1785.3	2050.9	1797.7	1494.0	1336.2	1191.9
75°	658.0	627.4	758.2	1017.8	1423.7	1777.6	1456.4	1046.9	844.2	653.1
77.5°	185.7	174.1	279.7	492.4	856.3	1248.1	889.3	503.2	331.7	196.8
80°	56.9	55.1	74.7	148.3	363.7	597.8	349.5	150.2	95.0	60.0
82.5°	33.7	30.9	37.1	54.1	92.7	187.8	90.1	56.4	45.3	30.4
85°	19.3	18.0	21.9	26.3	31.2	39.9	26.0	26.8	24.2	16.2
87.5°	8.0	7.2	8.5	8.2	7.2	9.3	7.0	8.2	9.8	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
452.0
450.5
444.8
438.6
435.8
435.8
437.6
440.9
444.3
445.8
447.4
451.2
460.0
473.6
495.5
525.9
563.8
611.9
668.9
733.8
811.8
906.3
1019.4
1147.6
1276.9
1427.1
1573.1
1642.1
1552.5
1227.7
695.6
218.7
63.4
33.0
17.0
5.9
0.0

OF REPORT)