

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: P945334

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945334
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-SB1B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5130 lumens
Efficiency: N/A
Efficacy: 128.9 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

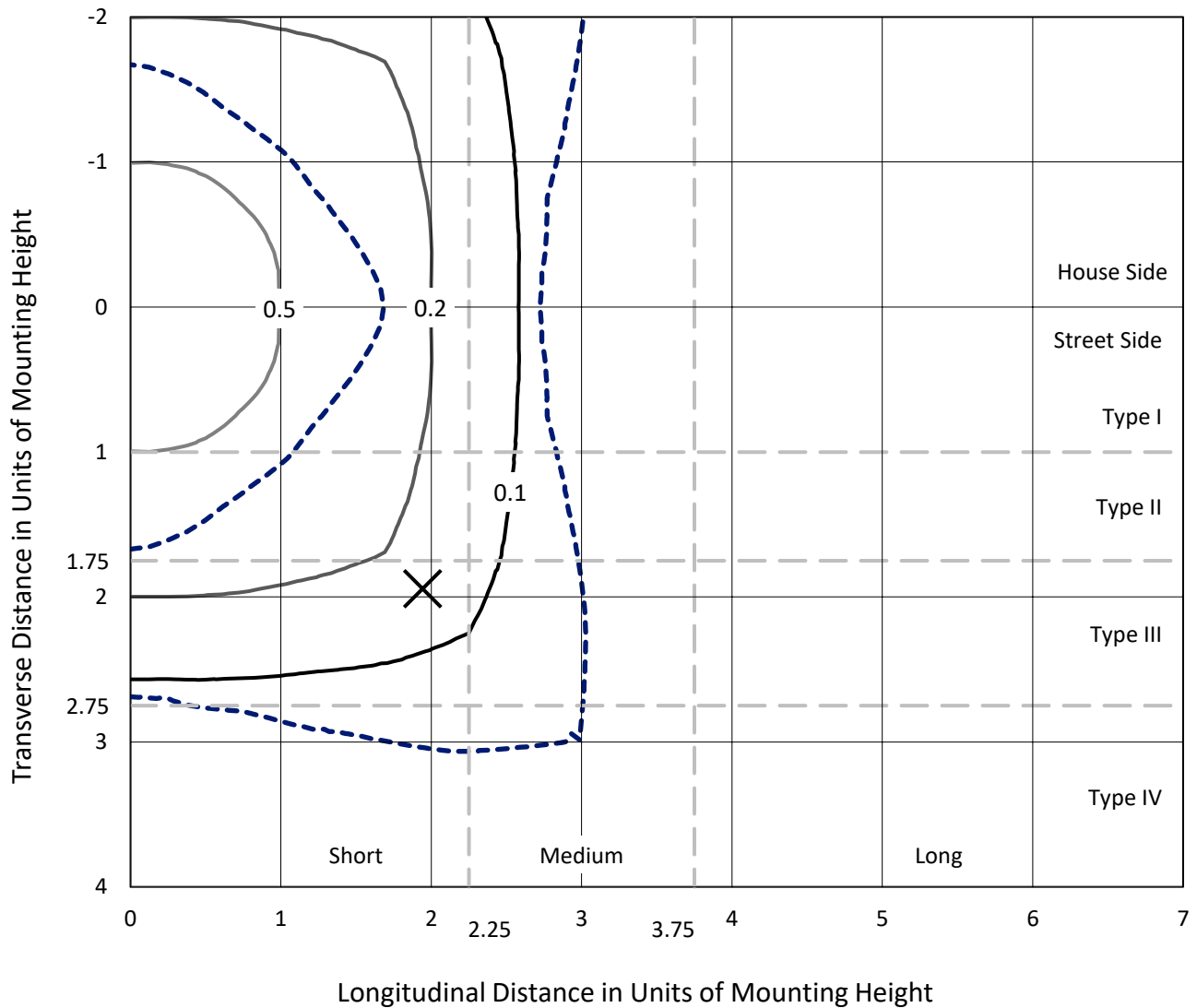
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

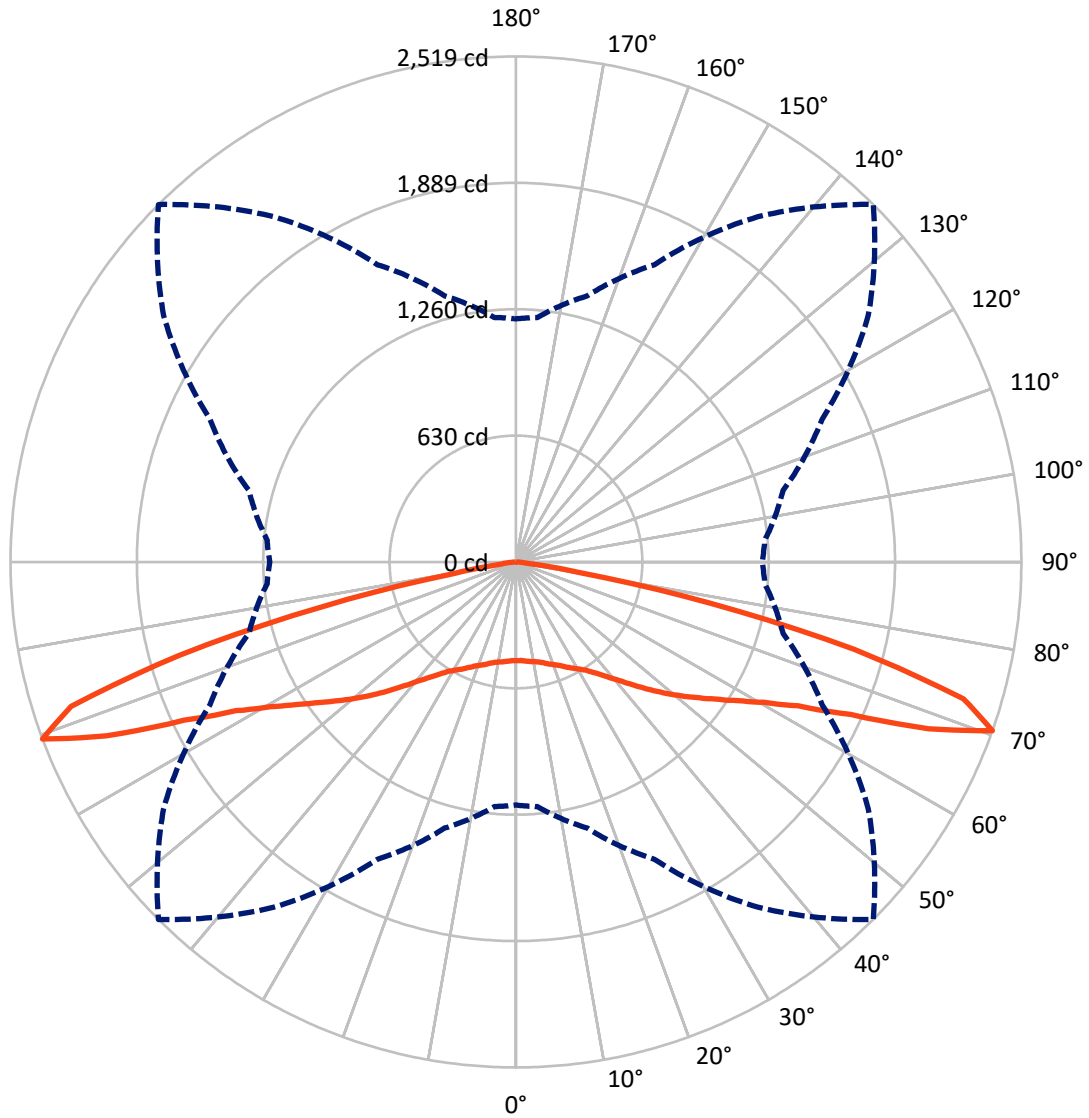
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	2565.0	0.0	2565.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2565.0	0.0	2565.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5130.0	0.0	5130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	0.9
10°-20°	148.0	2.9
20°-30°	264.6	5.2
30°-40°	428.8	8.4
40°-50°	698.5	13.6
50°-60°	1065.0	20.8
60°-70°	1584.4	30.9
70°-80°	863.5	16.8
80°-90°	29.4	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°	5130.0	100.0
0°-180°	5130.0	100.0

Coefficient of Utilization



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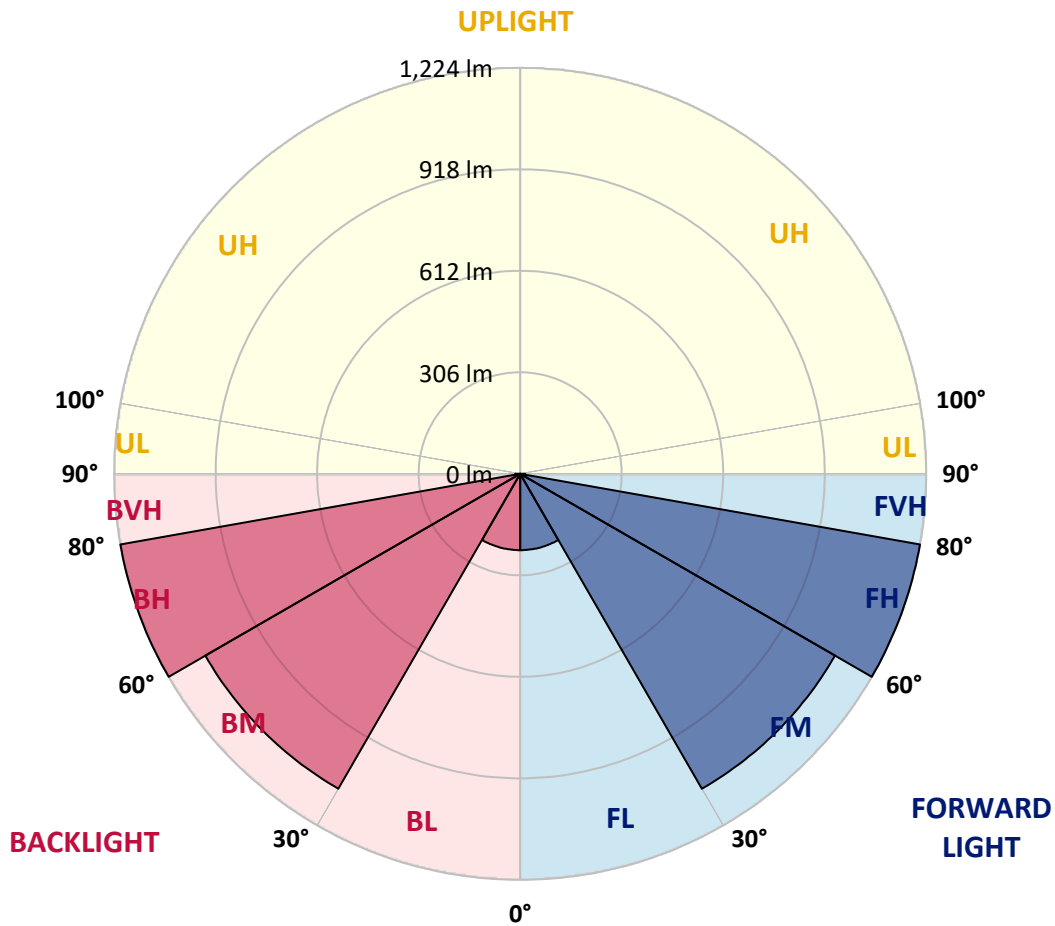
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.2	4.5			
FM (30°-60°)	1096.2	21.4			
FH (60°-80°)	1224.0	23.9			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	230.2	4.5	B1/500		
BM (30°-60°)	1096.2	21.4	B2/2500		
BH (60°-80°)	1224.0	23.9	B3/2500		G1/1800
BVH (80°-90°)	14.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4
2.5°	493.7	494.2	493.2	492.7	492.2	491.4	491.7	492.9	494.0	493.7
5°	497.8	498.4	497.6	497.3	496.3	496.0	496.0	497.3	498.1	497.6
7.5°	502.5	503.2	502.0	501.7	501.2	500.7	500.4	501.7	502.5	502.5
10°	506.9	507.6	506.6	505.8	505.3	505.3	504.8	505.8	507.1	506.9
12.5°	511.5	512.0	511.0	510.5	510.5	511.2	510.5	511.0	512.0	511.5
15°	517.2	517.4	517.2	517.9	519.2	521.8	519.5	519.0	519.5	518.2
17.5°	524.9	525.4	526.4	528.2	530.0	534.7	530.5	529.3	529.3	526.7
20°	534.4	535.2	536.7	539.8	542.1	546.5	542.4	540.6	539.8	536.5
22.5°	544.5	545.7	548.1	552.2	556.3	560.4	556.3	553.2	550.9	546.5
25°	556.0	557.6	561.2	567.9	573.6	579.5	574.6	568.4	563.8	557.6
27.5°	572.5	574.3	578.7	587.0	594.2	599.3	594.7	586.7	580.3	572.8
30°	595.7	597.5	602.7	611.4	616.3	619.7	616.6	610.4	602.7	594.2
32.5°	625.6	627.9	633.6	641.8	642.8	643.4	642.3	639.2	633.6	623.3
35°	663.4	666.0	672.5	679.2	678.1	679.2	677.6	676.6	672.5	660.6
37.5°	709.8	712.9	719.6	724.7	722.2	720.9	721.1	721.4	719.1	705.9
40°	763.6	767.7	772.6	778.1	773.7	769.8	772.4	774.4	772.4	759.0
42.5°	819.0	824.9	830.1	837.8	834.2	829.3	832.9	835.2	830.8	816.4
45°	880.6	886.2	892.9	904.5	901.9	896.8	901.9	902.4	895.0	878.0
47.5°	944.2	950.1	960.1	975.6	974.6	968.9	975.6	972.0	962.5	942.1
50°	1004.4	1012.7	1028.1	1049.8	1051.8	1044.9	1053.9	1046.9	1031.0	1005.5
52.5°	1061.1	1069.9	1094.3	1123.7	1131.1	1122.1	1134.2	1122.1	1098.2	1065.5
55°	1120.6	1130.4	1159.5	1197.9	1212.8	1206.1	1217.4	1199.1	1165.1	1125.5
57.5°	1190.6	1196.6	1231.3	1276.9	1302.2	1303.7	1308.9	1278.0	1236.7	1191.7
60°	1266.6	1274.9	1312.7	1367.3	1407.2	1420.1	1414.7	1368.9	1321.0	1269.2
62.5°	1364.0	1373.0	1418.3	1483.7	1546.8	1578.8	1557.6	1491.2	1432.0	1369.9
65°	1444.6	1454.6	1536.5	1653.2	1768.1	1832.2	1779.1	1656.8	1550.2	1462.6
67.5°	1386.1	1398.5	1527.0	1741.3	2026.9	2218.3	2036.7	1767.5	1558.7	1439.9
70°	1211.5	1223.1	1373.0	1634.9	2099.8	2519.1	2143.6	1683.1	1377.9	1245.0
72.5°	804.3	841.7	993.4	1307.6	1874.9	2331.1	1893.5	1281.0	921.5	802.5
75°	266.8	296.7	400.2	677.9	1255.8	1743.3	1195.5	599.8	317.0	228.2
77.5°	67.2	77.5	106.9	193.9	500.9	992.6	451.0	158.4	86.3	60.3
80°	32.7	36.1	51.5	64.6	125.4	315.5	117.7	60.8	40.7	31.4
82.5°	18.0	18.3	29.1	36.6	46.6	81.6	48.4	35.5	23.4	19.1
85°	11.1	10.8	15.5	19.6	19.6	29.1	23.2	19.6	13.4	11.8
87.5°	4.4	4.4	5.7	6.2	5.4	7.5	5.9	6.4	5.2	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
491.4
494.0
497.8
502.5
506.9
511.2
518.2
526.7
536.5
546.3
557.3
572.5
594.2
623.5
660.6
705.9
759.0
817.5
879.8
940.8
1005.0
1062.4
1120.1
1185.5
1261.0
1359.1
1448.2
1422.2
1227.2
776.5
215.8
53.8
28.8
19.1
12.4
5.2
0.0

OF REPORT)