

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: P945335

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

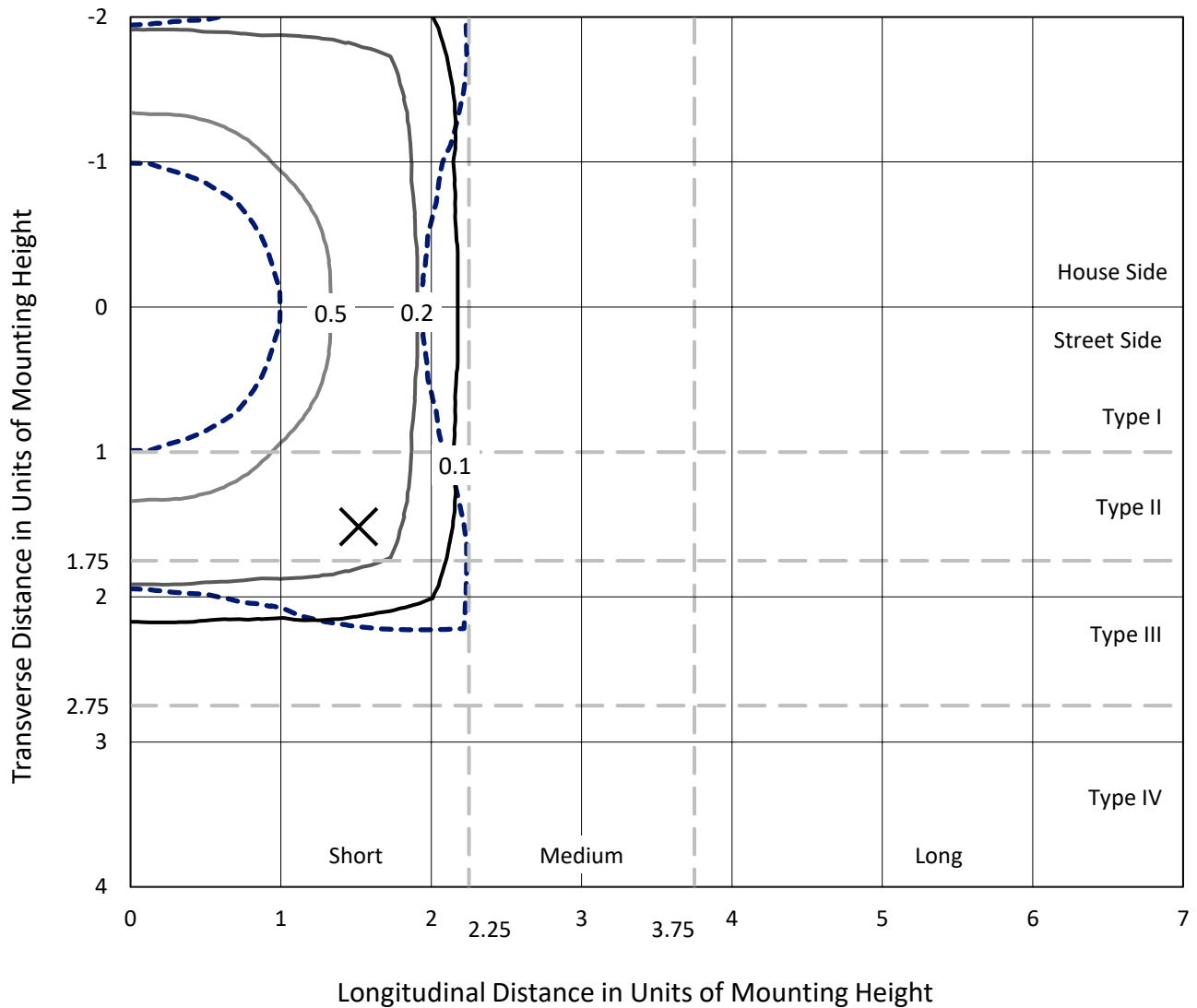
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

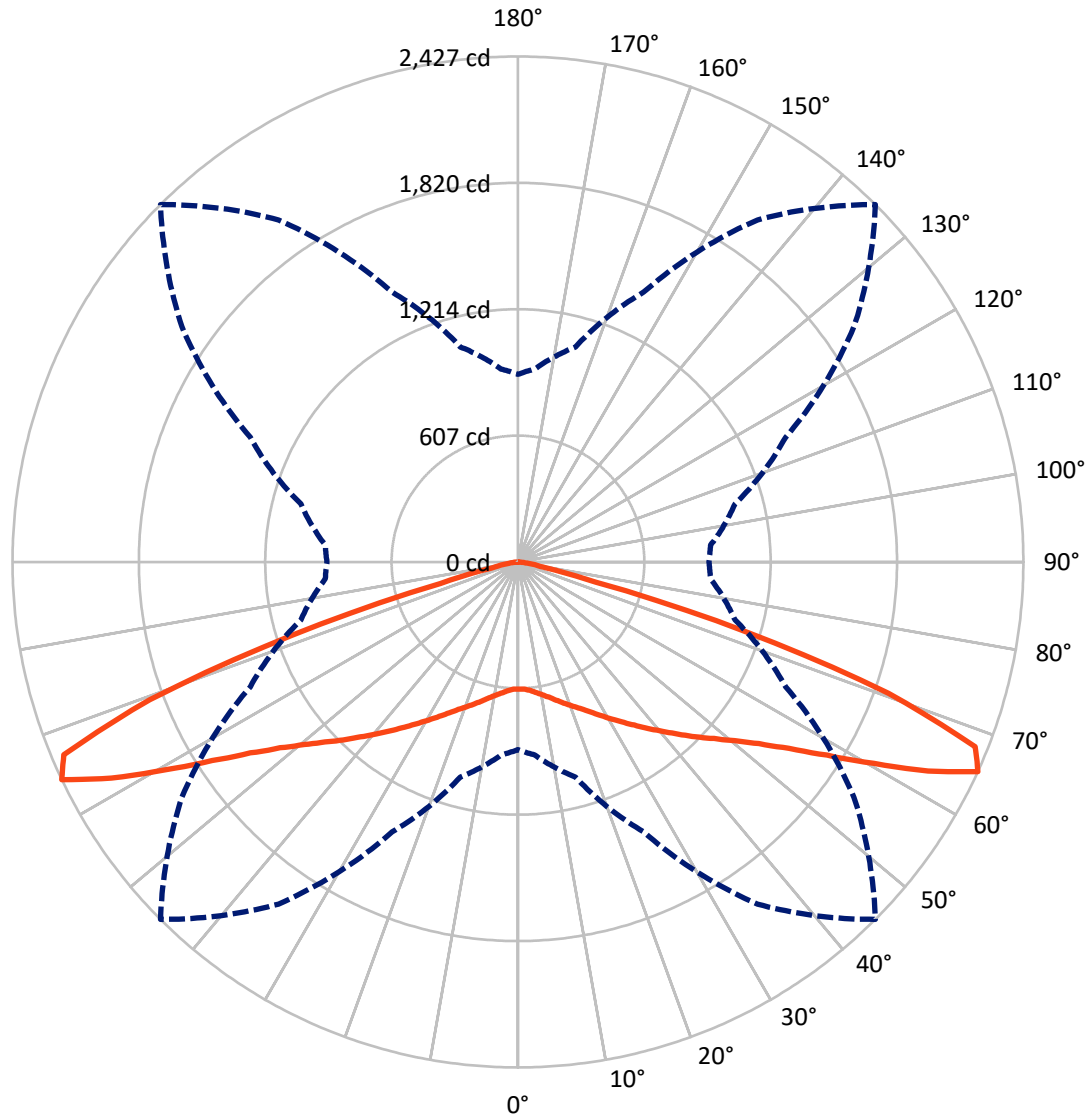
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.5	0.0	2566.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2566.5	0.0	2566.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5133.0	0.0	5133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.2
10°-20°	196.7	3.8
20°-30°	371.4	7.2
30°-40°	608.2	11.8
40°-50°	943.0	18.4
50°-60°	1393.1	27.1
60°-70°	1326.1	25.8
70°-80°	214.0	4.2
80°-90°	20.2	0.4
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°	5133.0	100.0
0°-180°	5133.0	100.0

Coefficient of Utilization



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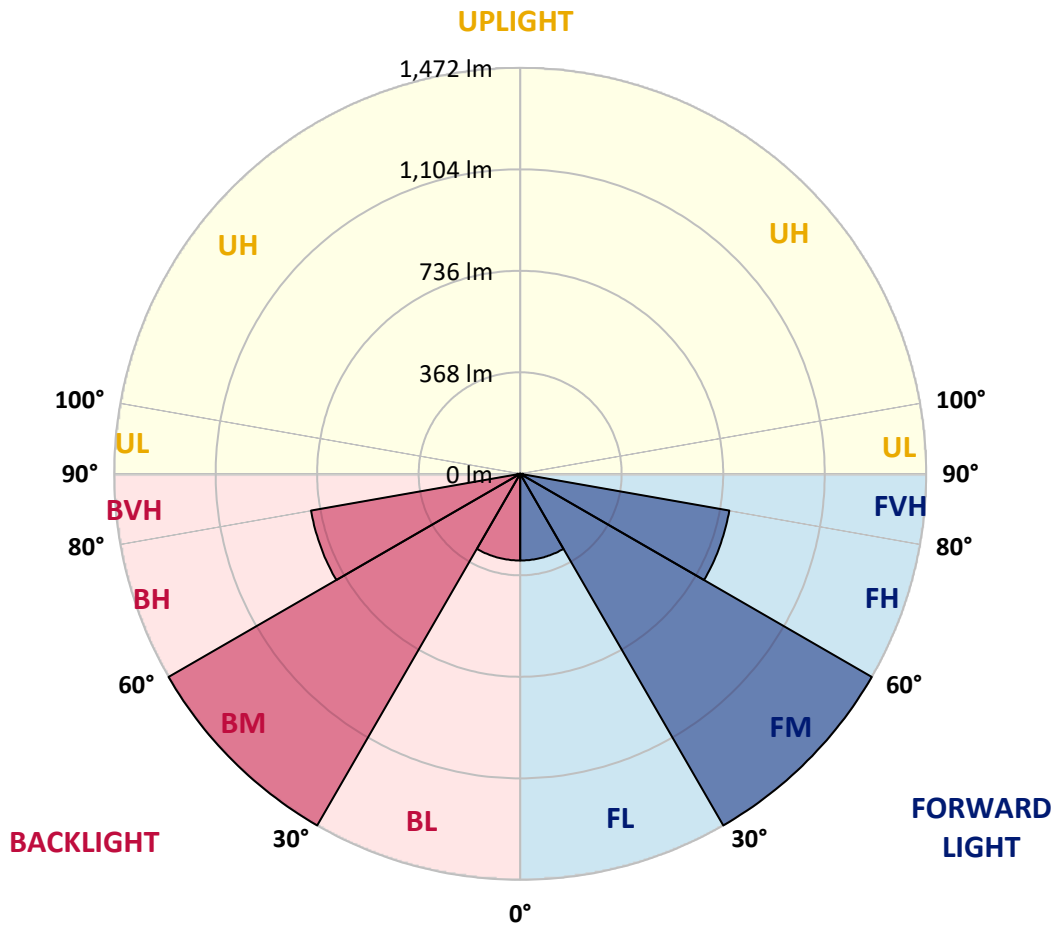
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.2	6.1			
FM (30°-60°)	1472.2	28.7			
FH (60°-80°)	770.0	15.0			G1/1800
FVH (80°-90°)	10.1	0.2			G1/100
BL (0°-30°)	314.2	6.1	B1/500		
BM (30°-60°)	1472.2	28.7	B2/2500		
BH (60°-80°)	770.0	15.0	B2/1000		G1/1800
BVH (80°-90°)	10.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	615.0	612.9	614.5	613.2	612.2	611.1	611.7	613.5	614.2	614.5
5°	623.2	621.4	622.2	622.2	620.4	619.9	620.1	621.4	623.0	623.0
7.5°	636.6	634.8	636.6	635.6	634.1	633.5	633.3	634.3	636.6	636.6
10°	652.9	650.8	651.8	651.3	649.5	648.7	648.5	650.0	652.1	651.8
12.5°	670.6	668.3	669.6	668.1	667.5	666.8	666.8	666.5	667.8	666.8
15°	690.5	688.9	689.4	688.4	689.2	688.7	686.6	685.6	686.1	684.5
17.5°	713.9	710.3	712.1	711.6	711.6	712.6	709.3	708.0	709.0	707.5
20°	740.9	737.3	738.1	737.1	735.8	736.8	732.7	733.7	734.5	733.5
22.5°	770.6	765.9	765.7	766.2	763.3	763.6	760.8	763.3	764.9	762.1
25°	800.9	796.0	799.4	798.1	794.5	795.3	793.2	795.8	797.1	793.5
27.5°	833.1	829.8	832.9	833.6	829.3	832.4	829.3	831.6	832.9	827.5
30°	870.7	867.4	870.2	872.3	867.1	872.0	869.4	871.0	871.2	864.8
32.5°	911.7	906.5	913.7	914.8	909.1	915.0	911.7	913.7	915.0	906.3
35°	961.6	955.2	963.4	962.2	957.3	962.2	959.1	962.2	965.2	954.7
37.5°	1015.5	1008.8	1017.5	1015.2	1010.6	1013.9	1012.1	1014.2	1019.1	1007.7
40°	1074.7	1066.5	1078.3	1074.2	1069.8	1069.3	1070.3	1071.6	1078.1	1065.4
42.5°	1138.1	1129.3	1147.1	1140.6	1134.5	1130.3	1133.7	1136.3	1142.4	1128.3
45°	1210.4	1200.4	1223.6	1215.8	1206.0	1197.5	1203.0	1206.8	1215.8	1198.8
47.5°	1290.3	1278.9	1303.7	1301.3	1285.4	1266.8	1279.2	1290.3	1297.0	1276.4
50°	1368.3	1359.5	1392.0	1394.8	1375.2	1349.2	1366.5	1383.2	1385.0	1358.0
52.5°	1441.4	1432.7	1479.8	1497.6	1480.1	1449.2	1467.4	1484.4	1470.8	1435.8
55°	1499.9	1492.7	1552.7	1598.5	1604.5	1579.0	1589.8	1589.3	1544.5	1490.6
57.5°	1514.1	1513.0	1588.7	1685.8	1747.6	1750.7	1729.4	1674.8	1578.2	1505.8
60°	1449.7	1456.1	1560.2	1731.4	1896.2	1964.8	1872.3	1716.5	1539.8	1439.4
62.5°	1257.0	1274.0	1399.5	1675.8	2016.3	2211.0	1986.9	1653.1	1382.2	1251.1
65°	900.9	930.5	1069.0	1430.1	2005.4	2427.3	1970.4	1418.5	1079.3	928.2
67.5°	408.7	438.8	556.5	979.2	1743.3	2368.6	1739.1	989.5	584.4	440.4
70°	148.1	153.2	191.1	392.0	1114.1	1887.2	1161.8	394.8	203.2	163.3
72.5°	89.6	90.4	98.4	140.4	387.1	1145.8	403.6	145.0	100.4	89.1
75°	56.9	56.4	70.1	85.8	137.3	386.6	144.0	85.8	69.8	63.6
77.5°	40.9	42.2	50.2	64.1	86.5	131.1	85.0	61.3	50.2	41.2
80°	30.6	31.4	36.6	50.0	60.8	81.6	54.1	45.3	37.9	25.8
82.5°	22.1	22.1	24.0	36.3	37.1	44.0	29.4	31.9	25.0	18.3
85°	13.1	12.9	14.9	21.6	19.3	16.2	13.4	19.6	15.7	11.3
87.5°	4.6	4.9	4.6	6.2	5.2	4.4	4.1	5.4	4.4	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
610.9
614.5
623.0
635.9
651.3
667.3
684.8
708.7
735.8
764.9
797.6
831.6
868.7
912.2
961.1
1014.7
1069.6
1135.7
1207.6
1283.3
1361.3
1436.8
1492.4
1501.2
1427.5
1243.4
917.1
434.0
161.2
90.7
64.1
42.0
26.5
18.3
11.1
3.6
0.0

OF REPORT)