

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: P945355

Luminaire Tested: **GALN-SB1B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945355
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-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5301 lumens
Efficiency: N/A
Efficacy: 133.2 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

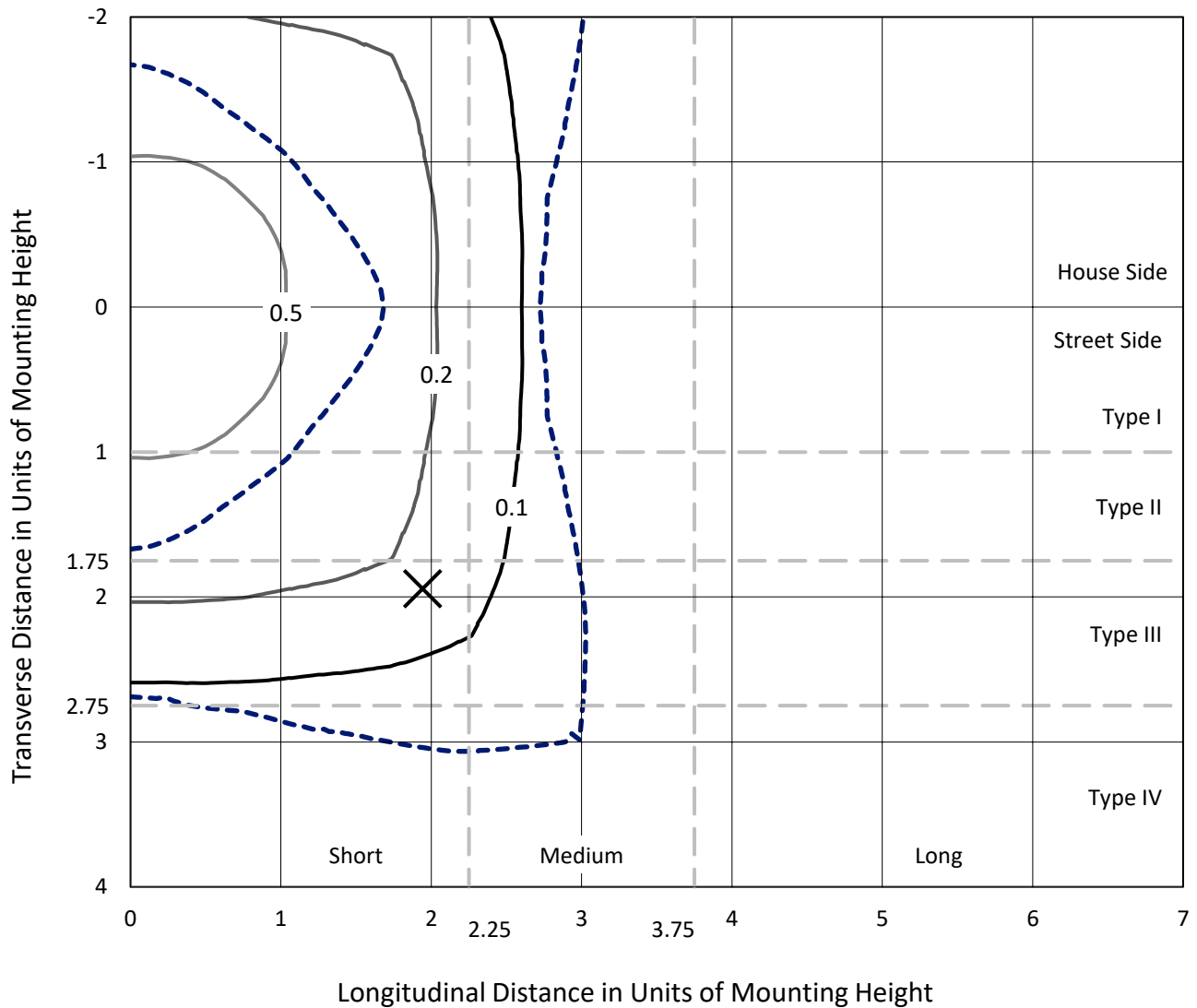
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

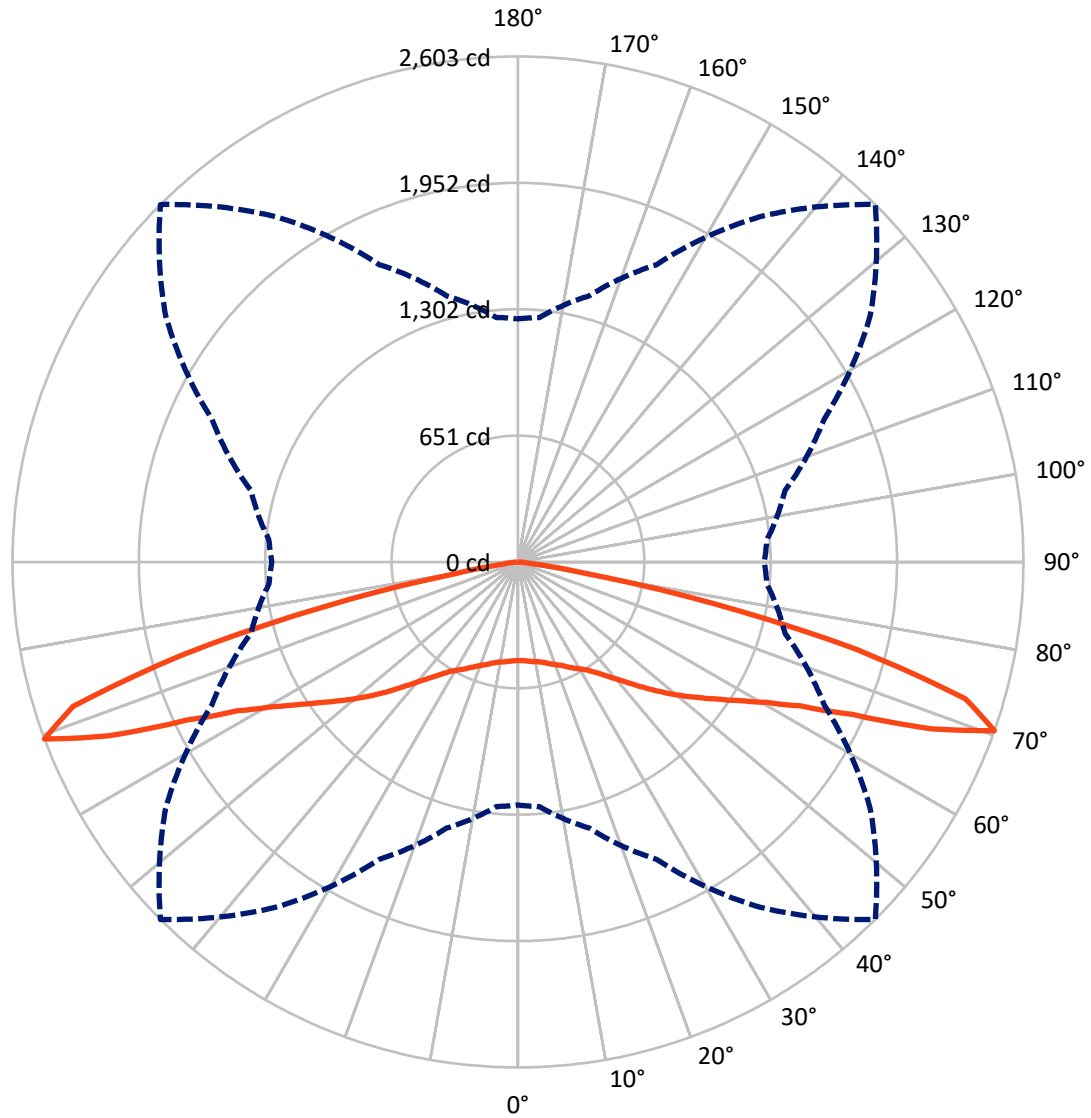
✕ Max cd
 - - - 1/2 Max cd



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	2650.5	0.0	2650.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2650.5	0.0	2650.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5301.0	0.0	5301.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.9
10°-20°	153.0	2.9
20°-30°	273.4	5.2
30°-40°	443.1	8.4
40°-50°	721.8	13.6
50°-60°	1100.5	20.8
60°-70°	1637.2	30.9
70°-80°	892.3	16.8
80°-90°	30.4	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°	5301.0	100.0
0°-180°	5301.0	100.0



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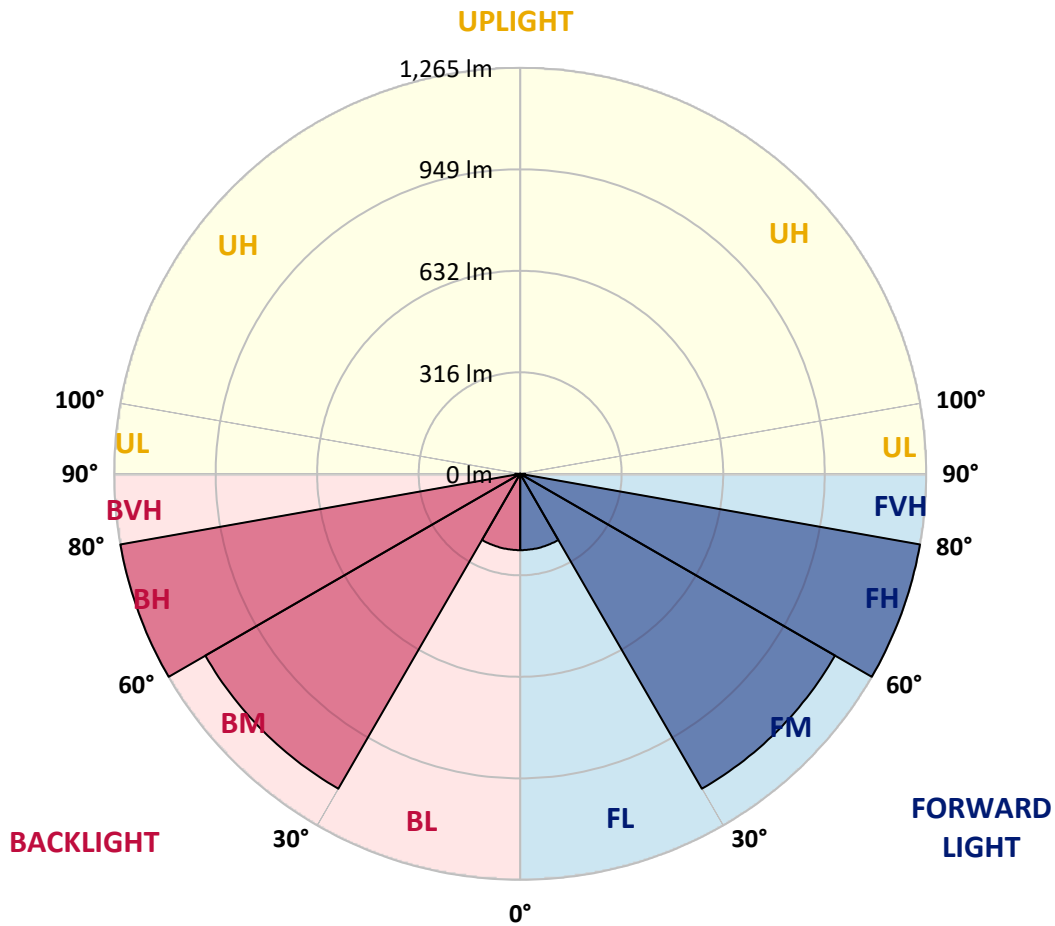
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.8	4.5			
FM (30°-60°)	1132.7	21.4			
FH (60°-80°)	1264.8	23.9			G1/1800
FVH (80°-90°)	15.2	0.3			G1/100
BL (0°-30°)	237.8	4.5	B1/500		
BM (30°-60°)	1132.7	21.4	B2/2500		
BH (60°-80°)	1264.8	23.9	B3/2500		G1/1800
BVH (80°-90°)	15.2	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°	507.8	507.8	507.8	507.8	507.8	507.8	507.8	507.8	507.8	507.8
2.5°	510.2	510.7	509.6	509.1	508.6	507.8	508.0	509.4	510.4	510.2
5°	514.4	515.0	514.2	513.9	512.8	512.6	512.6	513.9	514.7	514.2
7.5°	519.2	520.0	518.7	518.4	517.9	517.4	517.1	518.4	519.2	519.2
10°	523.7	524.5	523.5	522.7	522.2	522.2	521.6	522.7	524.0	523.7
12.5°	528.5	529.1	528.0	527.5	527.5	528.3	527.5	528.0	529.1	528.5
15°	534.4	534.7	534.4	535.2	536.5	539.2	536.8	536.3	536.8	535.5
17.5°	542.4	542.9	544.0	545.8	547.7	552.5	548.2	546.9	546.9	544.2
20°	552.2	553.0	554.6	557.8	560.2	564.7	560.5	558.6	557.8	554.4
22.5°	562.6	563.9	566.3	570.6	574.8	579.1	574.8	571.7	569.3	564.7
25°	574.6	576.2	579.9	586.8	592.7	598.8	593.7	587.4	582.6	576.2
27.5°	591.6	593.5	598.0	606.5	614.0	619.3	614.5	606.2	599.6	591.9
30°	615.6	617.4	622.8	631.8	636.9	640.3	637.1	630.7	622.8	614.0
32.5°	646.4	648.8	654.7	663.2	664.3	664.8	663.7	660.5	654.7	644.0
35°	685.6	688.2	694.9	701.8	700.7	701.8	700.2	699.1	694.9	682.6
37.5°	733.5	736.7	743.6	748.9	746.2	744.9	745.2	745.4	743.0	729.5
40°	789.1	793.3	798.4	804.0	799.5	795.5	798.1	800.3	798.1	784.3
42.5°	846.3	852.4	857.7	865.7	862.0	856.9	860.7	863.1	858.5	843.6
45°	909.9	915.8	922.7	934.7	932.0	926.7	932.0	932.5	924.8	907.2
47.5°	975.6	981.8	992.1	1008.1	1007.0	1001.2	1008.1	1004.4	994.5	973.5
50°	1037.9	1046.4	1062.4	1084.8	1086.9	1079.7	1089.0	1081.8	1065.3	1039.0
52.5°	1096.5	1105.5	1130.8	1161.1	1168.9	1159.5	1172.0	1159.5	1134.8	1101.0
55°	1157.9	1168.1	1198.1	1237.8	1253.2	1246.3	1258.0	1239.1	1204.0	1163.0
57.5°	1230.3	1236.5	1272.4	1319.5	1345.6	1347.2	1352.5	1320.5	1278.0	1231.4
60°	1308.8	1317.4	1356.5	1412.9	1454.1	1467.5	1461.9	1414.5	1365.0	1311.5
62.5°	1409.4	1418.8	1465.6	1533.2	1598.4	1631.4	1609.6	1540.9	1479.7	1415.6
65°	1492.7	1503.1	1587.7	1708.3	1827.0	1893.3	1838.4	1712.0	1601.9	1511.4
67.5°	1432.3	1445.1	1577.9	1799.3	2094.5	2292.2	2104.6	1826.5	1610.6	1487.9
70°	1251.9	1263.9	1418.8	1689.4	2169.8	2603.0	2215.0	1739.2	1423.8	1286.5
72.5°	831.1	869.7	1026.5	1351.2	1937.4	2408.8	1956.6	1323.7	952.2	829.3
75°	275.7	306.6	413.6	700.5	1297.7	1801.5	1235.4	619.8	327.6	235.8
77.5°	69.5	80.1	110.4	200.4	517.6	1025.7	466.0	163.7	89.2	62.3
80°	33.8	37.3	53.2	66.8	129.6	326.0	121.6	62.8	42.0	32.5
82.5°	18.6	18.9	30.1	37.8	48.2	84.4	50.0	36.7	24.2	19.7
85°	11.4	11.2	16.0	20.2	20.2	30.1	24.0	20.2	13.8	12.2
87.5°	4.5	4.5	5.9	6.4	5.6	7.7	6.1	6.7	5.3	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
507.8
510.4
514.4
519.2
523.7
528.3
535.5
544.2
554.4
564.5
575.9
591.6
614.0
644.3
682.6
729.5
784.3
844.7
909.1
972.2
1038.4
1097.8
1157.4
1225.0
1303.0
1404.4
1496.5
1469.6
1268.1
802.4
223.0
55.6
29.8
19.7
12.8
5.3
0.0

OF REPORT)