

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: P944977

Luminaire Tested: **GALN-SB1A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944977
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-SB1A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4086 lumens
Efficiency: N/A
Efficacy: 132.2 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

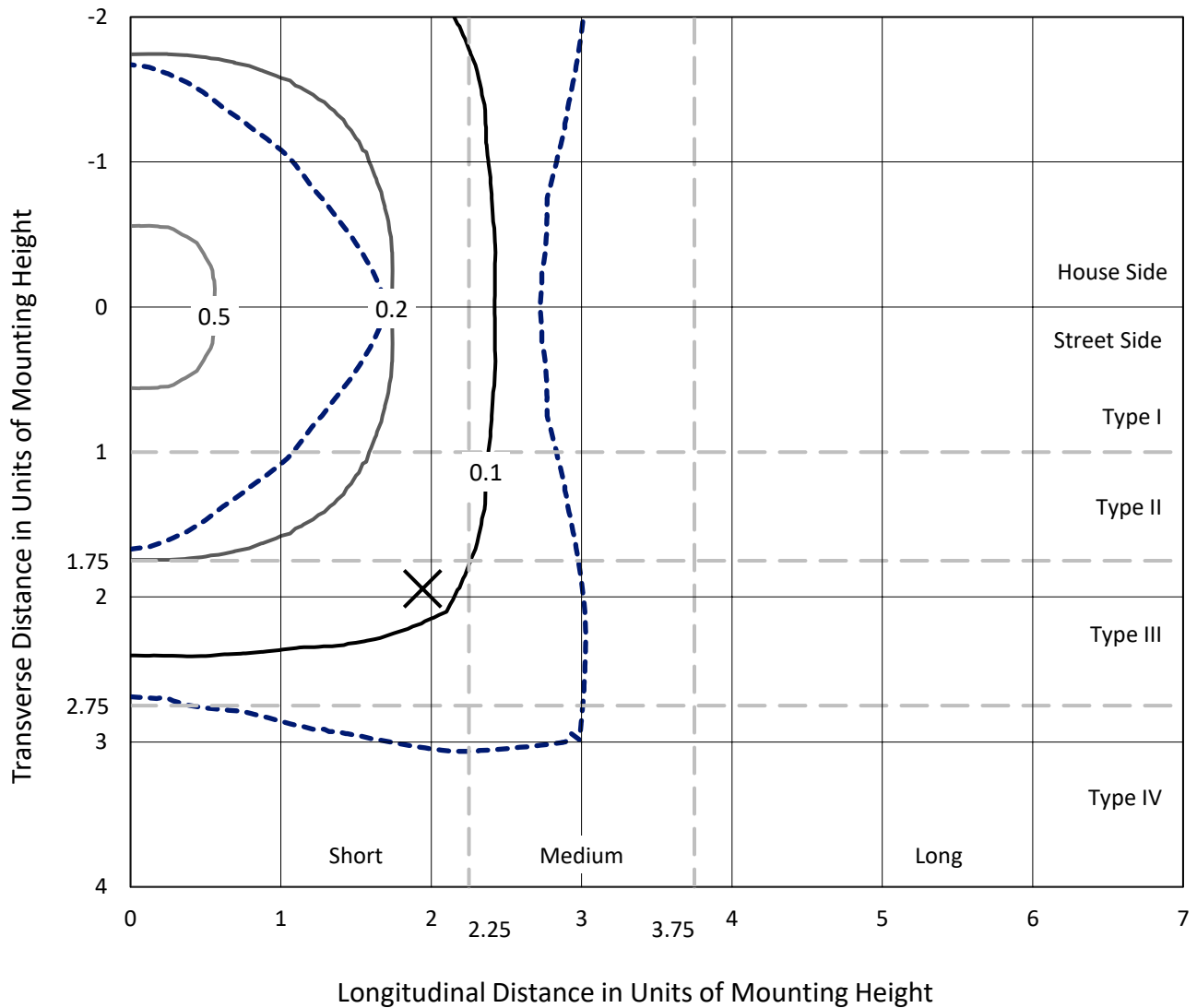
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

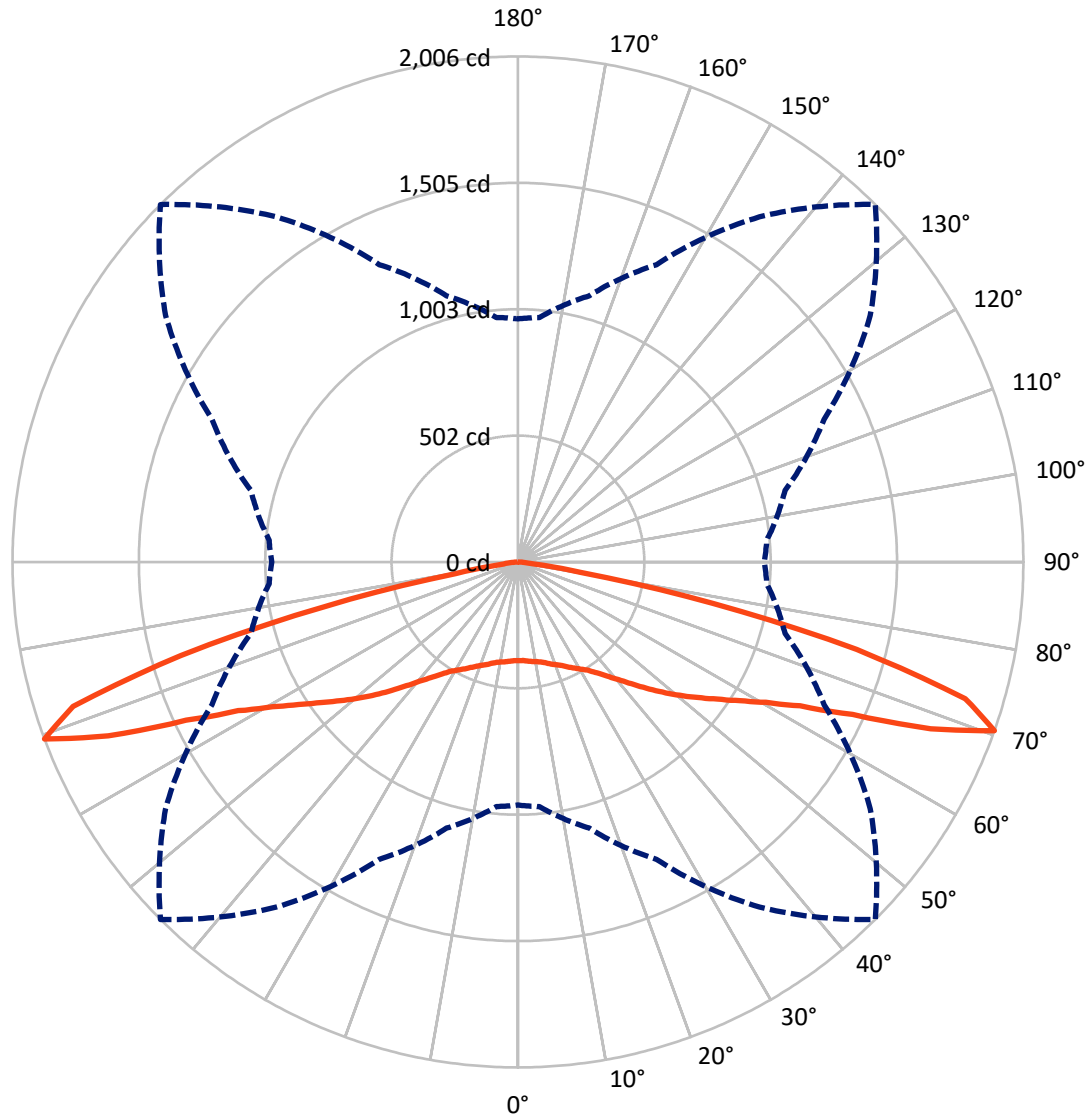
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2043.0	0.0	2043.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2043.0	0.0	2043.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4086.0	0.0	4086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.9
10°-20°	117.9	2.9
20°-30°	210.7	5.2
30°-40°	341.6	8.4
40°-50°	556.4	13.6
50°-60°	848.3	20.8
60°-70°	1261.9	30.9
70°-80°	687.8	16.8
80°-90°	23.4	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°	4086.0	100.0
0°-180°	4086.0	100.0

Coefficient of Utilization



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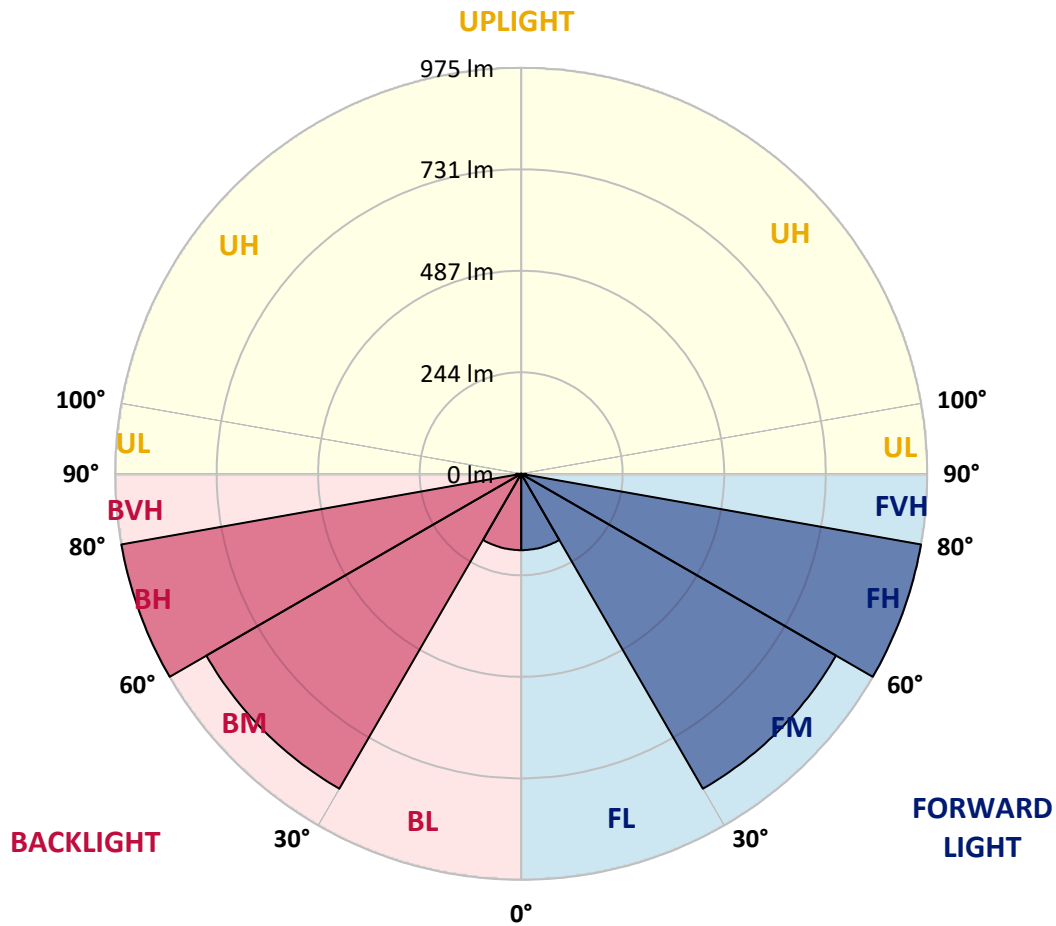
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.3	4.5			
FM (30°-60°)	873.1	21.4			
FH (60°-80°)	974.9	23.9			G1/1800
FVH (80°-90°)	11.7	0.3			G1/100
BL (0°-30°)	183.3	4.5	B1/500		
BM (30°-60°)	873.1	21.4	B1/1000		
BH (60°-80°)	974.9	23.9	B2/1000		G1/1800
BVH (80°-90°)	11.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4
2.5°	393.2	393.7	392.8	392.4	392.0	391.4	391.6	392.6	393.4	393.2
5°	396.5	396.9	396.3	396.1	395.3	395.1	395.1	396.1	396.7	396.3
7.5°	400.2	400.8	399.8	399.6	399.2	398.8	398.6	399.6	400.2	400.2
10°	403.7	404.3	403.5	402.9	402.5	402.5	402.1	402.9	403.9	403.7
12.5°	407.4	407.8	407.0	406.6	406.6	407.2	406.6	407.0	407.8	407.4
15°	411.9	412.1	411.9	412.5	413.6	415.6	413.8	413.3	413.8	412.7
17.5°	418.1	418.5	419.3	420.7	422.2	425.9	422.6	421.6	421.6	419.5
20°	425.7	426.3	427.5	430.0	431.8	435.3	432.0	430.6	430.0	427.3
22.5°	433.7	434.7	436.5	439.8	443.1	446.4	443.1	440.6	438.8	435.3
25°	442.9	444.1	447.0	452.3	456.8	461.6	457.7	452.7	449.0	444.1
27.5°	456.0	457.4	460.9	467.5	473.2	477.3	473.7	467.3	462.2	456.2
30°	474.5	475.9	480.0	487.0	490.9	493.6	491.1	486.2	480.0	473.2
32.5°	498.3	500.1	504.6	511.2	512.0	512.4	511.6	509.1	504.6	496.4
35°	528.4	530.5	535.6	540.9	540.1	540.9	539.7	538.9	535.6	526.2
37.5°	565.4	567.8	573.1	577.2	575.2	574.2	574.4	574.6	572.7	562.3
40°	608.2	611.5	615.4	619.7	616.2	613.1	615.2	616.8	615.2	604.5
42.5°	652.3	657.0	661.1	667.3	664.4	660.5	663.4	665.3	661.8	650.3
45°	701.4	705.9	711.2	720.4	718.4	714.3	718.4	718.8	712.8	699.3
47.5°	752.0	756.7	764.7	777.0	776.2	771.7	777.0	774.2	766.6	750.4
50°	800.0	806.6	818.9	836.1	837.8	832.2	839.4	833.9	821.2	800.8
52.5°	845.2	852.1	871.6	895.0	901.0	893.8	903.4	893.8	874.7	848.6
55°	892.5	900.3	923.5	954.1	966.0	960.6	969.7	955.1	928.0	896.4
57.5°	948.3	953.1	980.7	1017.1	1037.2	1038.4	1042.5	1017.9	985.1	949.2
60°	1008.9	1015.4	1045.6	1089.1	1120.9	1131.1	1126.8	1090.3	1052.1	1010.9
62.5°	1086.4	1093.6	1129.7	1181.8	1232.0	1257.5	1240.7	1187.7	1140.5	1091.1
65°	1150.6	1158.6	1223.8	1316.8	1408.2	1459.3	1417.1	1319.6	1234.7	1165.0
67.5°	1104.0	1113.9	1216.2	1386.9	1614.4	1766.8	1622.2	1407.8	1241.5	1146.9
70°	965.0	974.2	1093.6	1302.2	1672.5	2006.4	1707.3	1340.6	1097.5	991.6
72.5°	640.6	670.4	791.2	1041.5	1493.4	1856.7	1508.1	1020.3	734.0	639.2
75°	212.5	236.3	318.8	539.9	1000.2	1388.6	952.2	477.8	252.5	181.7
77.5°	53.5	61.7	85.1	154.5	399.0	790.6	359.2	126.2	68.7	48.0
80°	26.1	28.7	41.0	51.5	99.9	251.3	93.7	48.4	32.4	25.0
82.5°	14.4	14.6	23.2	29.1	37.1	65.0	38.6	28.3	18.7	15.2
85°	8.8	8.6	12.3	15.6	15.6	23.2	18.5	15.6	10.7	9.4
87.5°	3.5	3.5	4.5	4.9	4.3	5.9	4.7	5.1	4.1	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°
391.4
393.4
396.5
400.2
403.7
407.2
412.7
419.5
427.3
435.1
443.9
456.0
473.2
496.6
526.2
562.3
604.5
651.1
700.7
749.4
800.4
846.2
892.1
944.2
1004.3
1082.5
1153.5
1132.8
977.5
618.5
171.9
42.9
23.0
15.2
9.8
4.1
0.0

OF REPORT)