

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: P944981

Luminaire Tested: **GALN-SB1A-827-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
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-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

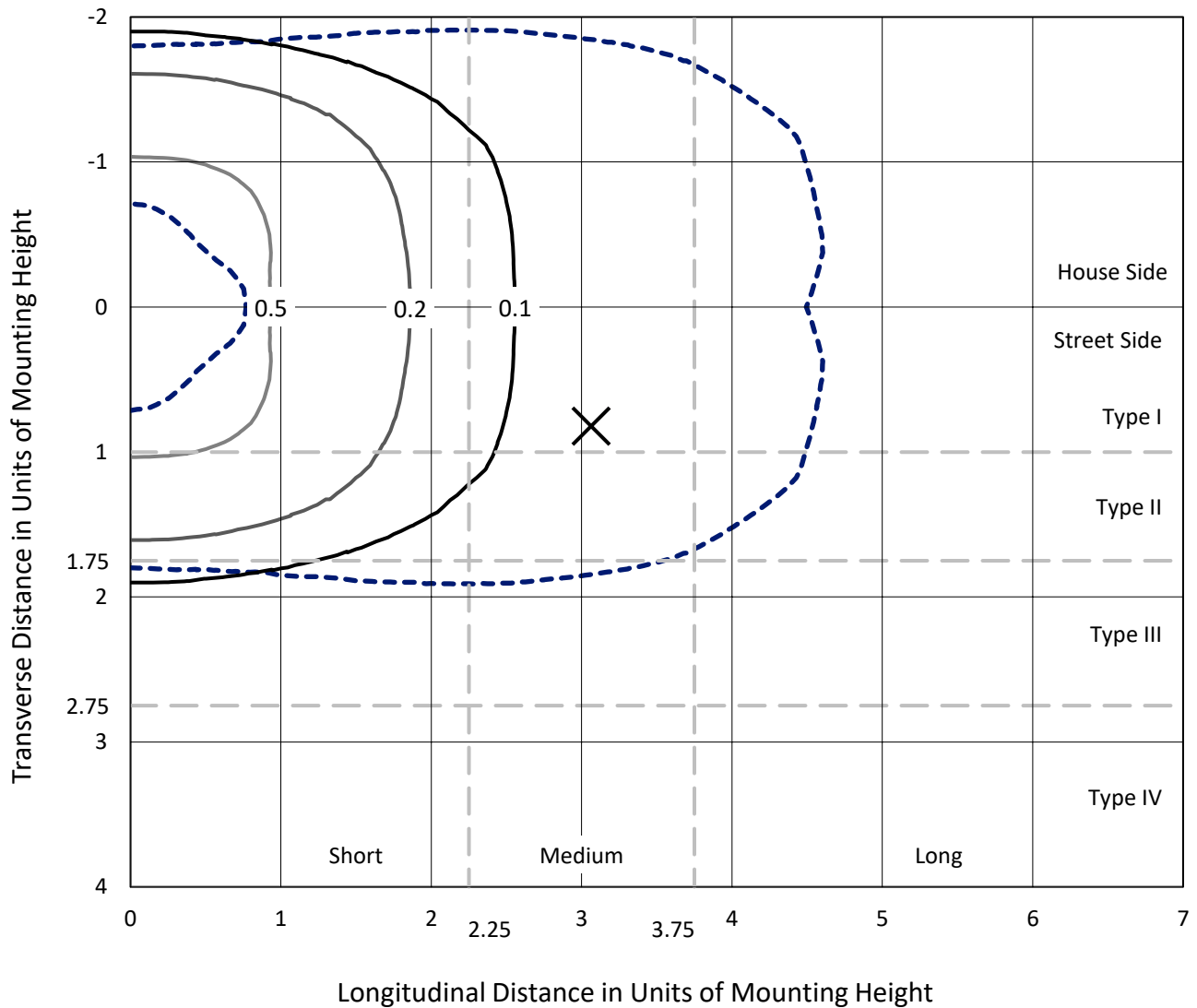
Lumens per Lamp: N/A  
Luminaire Lumens: 4018 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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

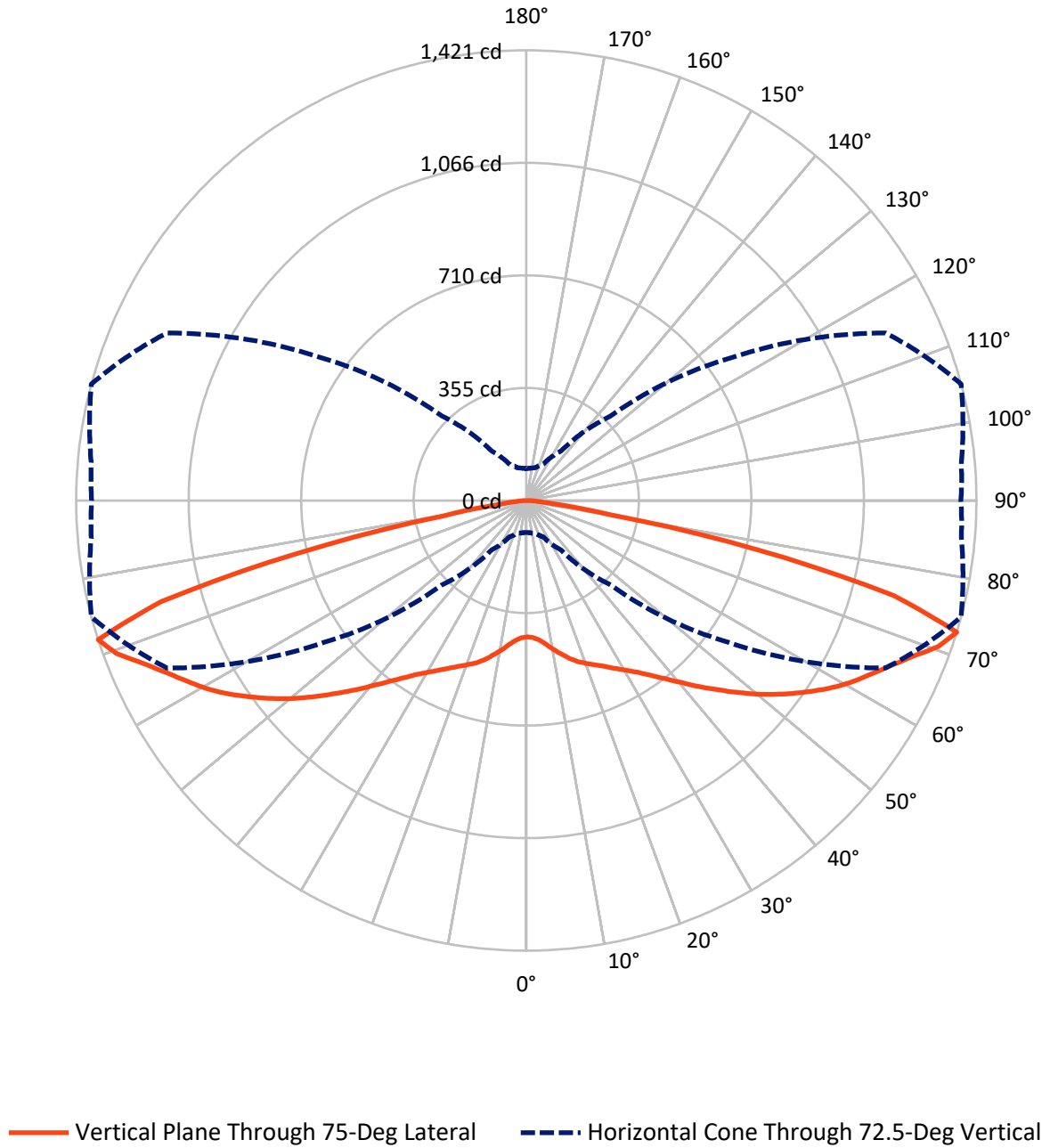
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2009.0	0.0	2009.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2009.0	0.0	2009.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4018.0	0.0	4018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	1.0
10°-20°	139.1	3.5
20°-30°	268.7	6.7
30°-40°	453.7	11.3
40°-50°	719.5	17.9
50°-60°	963.4	24.0
60°-70°	916.8	22.8
70°-80°	478.4	11.9
80°-90°	36.2	0.9
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°	4018.0	100.0
0°-180°	4018.0	100.0

**Coefficient of Utilization**



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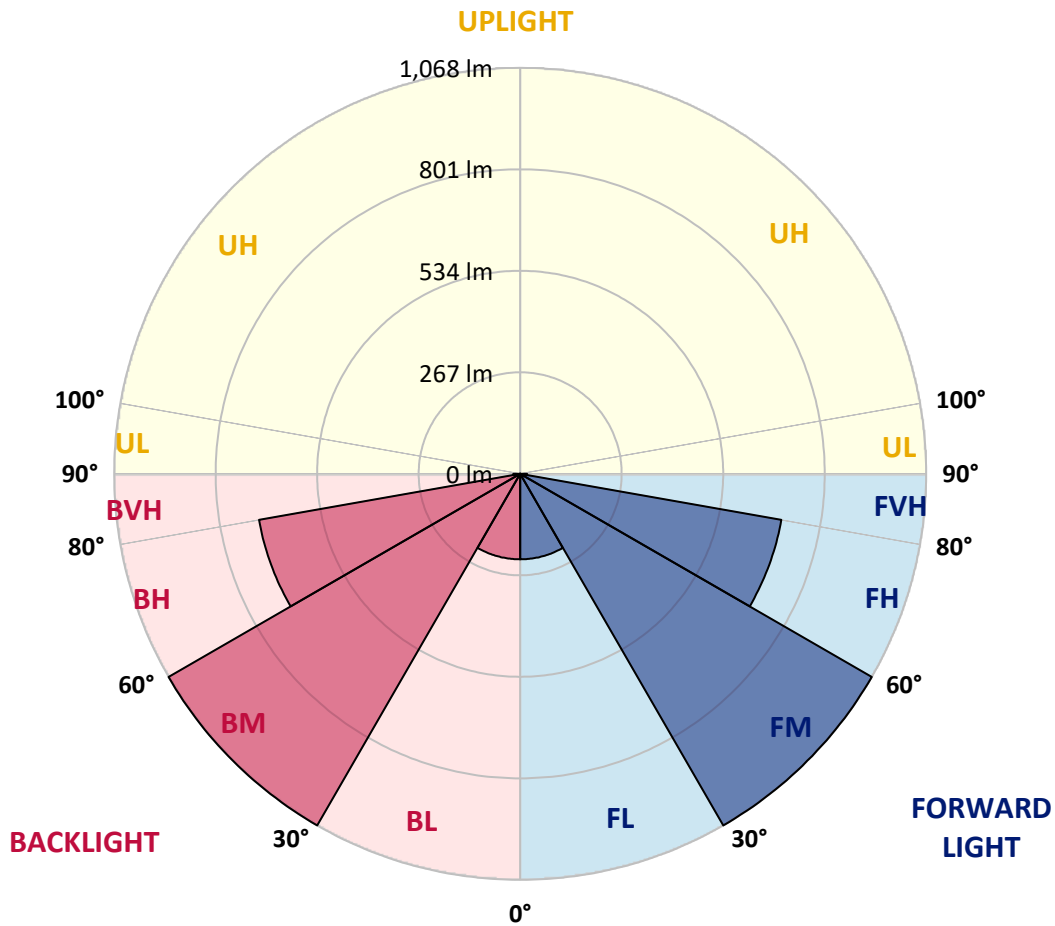
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.0	5.6			
FM (30°-60°)	1068.3	26.6			
FH (60°-80°)	697.6	17.4			G1/1800
FVH (80°-90°)	18.1	0.5			G1/100
BL (0°-30°)	225.0	5.6	B1/500		
BM (30°-60°)	1068.3	26.6	B2/2500		
BH (60°-80°)	697.6	17.4	B2/1000		G2/1000
BVH (80°-90°)	18.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4	430.4
2.5°	430.4	430.0	430.4	430.8	430.6	430.6	431.6	432.2	433.5	433.3
5°	427.5	427.3	429.0	430.8	432.2	434.7	437.8	440.0	442.9	443.5
7.5°	426.1	425.5	428.3	431.6	436.1	442.3	448.2	454.4	459.3	461.0
10°	427.1	427.3	431.2	437.4	444.6	453.2	461.6	472.0	479.0	480.7
12.5°	431.8	431.4	438.0	447.8	457.7	468.6	478.4	489.9	497.5	501.4
15°	440.5	439.6	448.9	463.4	477.8	490.5	498.5	509.4	518.2	523.1
17.5°	450.7	451.1	463.2	482.1	501.0	515.3	522.9	528.5	535.2	539.5
20°	468.8	469.6	483.1	505.5	527.0	543.4	549.6	547.5	549.4	552.7
22.5°	493.0	493.4	508.6	532.8	555.3	573.4	577.5	569.1	564.0	566.2
25°	521.1	523.7	538.9	563.7	586.9	604.2	606.0	593.3	580.6	581.2
27.5°	555.3	557.8	573.2	597.8	621.4	636.4	636.2	619.1	600.5	595.7
30°	592.5	595.1	610.9	636.4	658.3	671.4	668.6	648.3	621.6	612.8
32.5°	636.6	638.2	654.2	679.7	700.0	710.4	704.5	679.4	646.2	636.2
35°	689.9	692.4	704.3	728.3	746.1	754.7	744.7	715.1	677.8	666.5
37.5°	750.8	749.2	762.7	784.1	798.8	804.2	790.4	755.4	713.9	700.6
40°	814.4	813.6	828.4	848.9	856.9	860.2	839.9	801.5	755.6	741.2
42.5°	872.1	871.5	891.4	914.1	923.8	920.1	894.4	850.5	803.8	787.4
45°	918.2	917.4	941.8	973.8	992.7	986.6	952.1	904.7	852.6	835.6
47.5°	953.7	954.1	980.4	1020.0	1053.0	1055.3	1011.0	959.9	906.3	887.1
50°	979.4	980.6	1008.7	1052.6	1097.7	1117.6	1071.1	1016.5	961.9	940.2
52.5°	985.7	988.0	1021.8	1073.3	1126.5	1164.4	1132.2	1070.9	1014.7	993.9
55°	951.9	956.4	999.3	1071.7	1144.1	1195.2	1186.0	1126.1	1067.8	1046.5
57.5°	874.1	880.5	930.5	1025.1	1140.2	1216.3	1227.6	1179.0	1120.9	1100.4
60°	765.2	772.8	820.8	924.0	1085.2	1224.1	1256.9	1230.5	1169.8	1149.9
62.5°	600.9	610.7	668.2	789.2	969.1	1187.8	1282.0	1277.0	1213.7	1188.8
65°	385.5	395.9	456.5	599.4	814.2	1076.6	1289.8	1322.4	1260.0	1225.3
67.5°	232.4	237.2	267.1	363.3	595.1	909.0	1223.7	1372.6	1314.2	1271.1
70°	148.7	151.4	169.2	213.4	336.4	663.2	1060.0	1382.1	1379.8	1318.1
72.5°	100.9	101.8	106.5	126.4	190.4	376.9	781.8	1251.2	1420.9	1378.6
75°	73.9	78.4	86.0	89.4	108.1	188.3	448.0	879.1	1197.4	1215.9
77.5°	55.0	55.2	65.6	69.8	77.1	100.3	189.6	490.7	743.5	780.6
80°	46.6	44.1	43.9	56.2	58.1	62.6	84.7	169.5	266.3	161.5
82.5°	38.8	36.1	32.6	43.9	39.6	38.4	36.7	68.9	84.7	41.6
85°	27.1	25.8	24.6	28.7	22.6	19.3	17.6	32.2	35.7	17.6
87.5°	11.7	12.1	12.3	12.7	9.4	6.8	6.8	9.0	9.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
430.4
433.1
443.5
461.4
482.3
503.0
525.0
541.6
555.1
567.8
582.2
597.2
613.8
638.6
668.2
703.0
745.9
791.5
839.5
892.8
946.8
999.3
1052.4
1105.1
1154.2
1191.7
1229.7
1274.4
1317.7
1372.0
1171.2
696.3
122.1
35.5
15.6
5.1
0.0

OF REPORT)