

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: P944978

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944978  
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-SB1A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4089 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

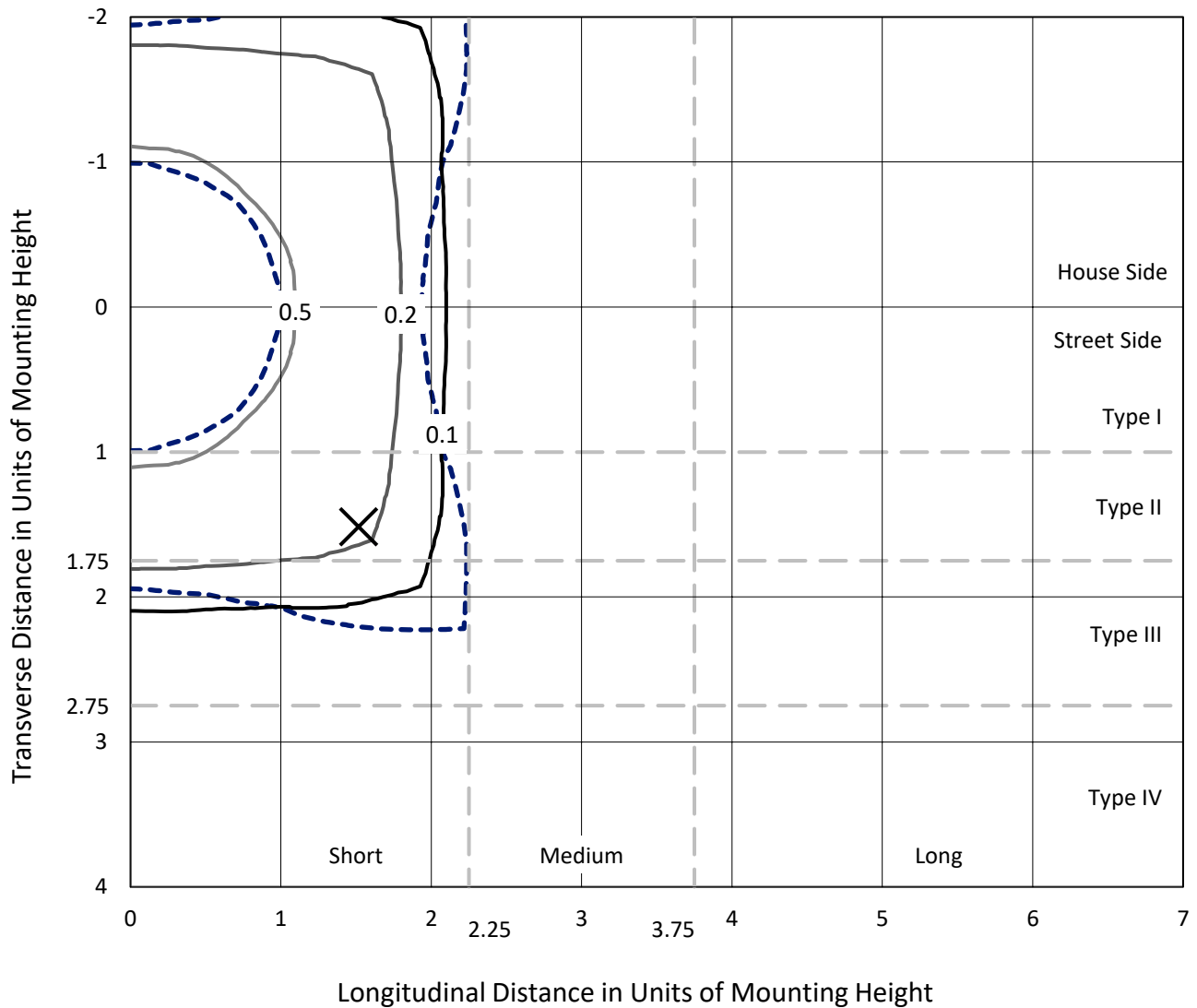
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

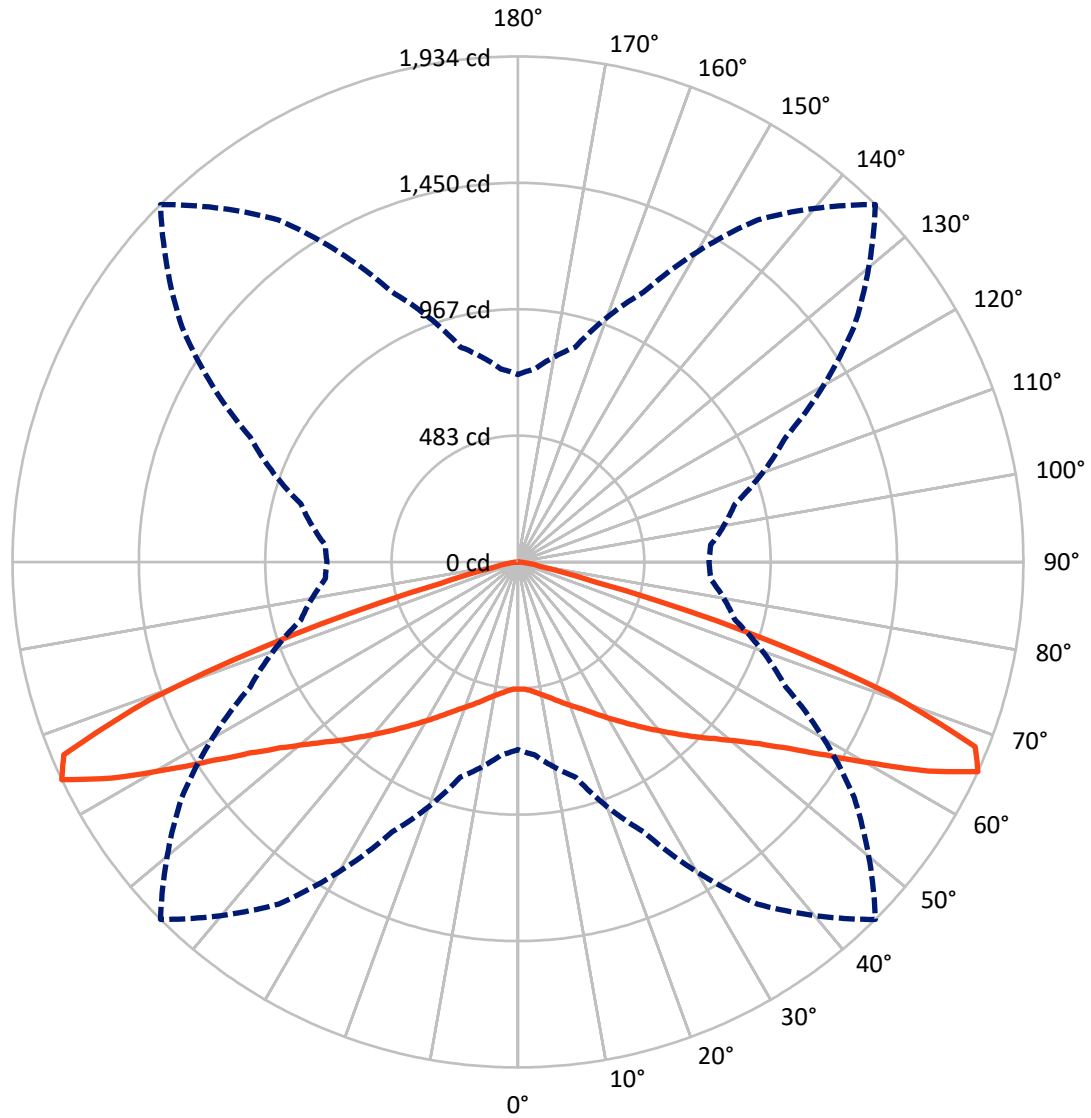
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type 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
<b>House Side</b>	Lumens	2044.5	0.0	2044.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2044.5	0.0	2044.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4089.0	0.0	4089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.2
10°-20°	156.7	3.8
20°-30°	295.9	7.2
30°-40°	484.5	11.8
40°-50°	751.2	18.4
50°-60°	1109.7	27.1
60°-70°	1056.4	25.8
70°-80°	170.5	4.2
80°-90°	16.1	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°	4089.0	100.0
0°-180°	4089.0	100.0

**Coefficient of Utilization**



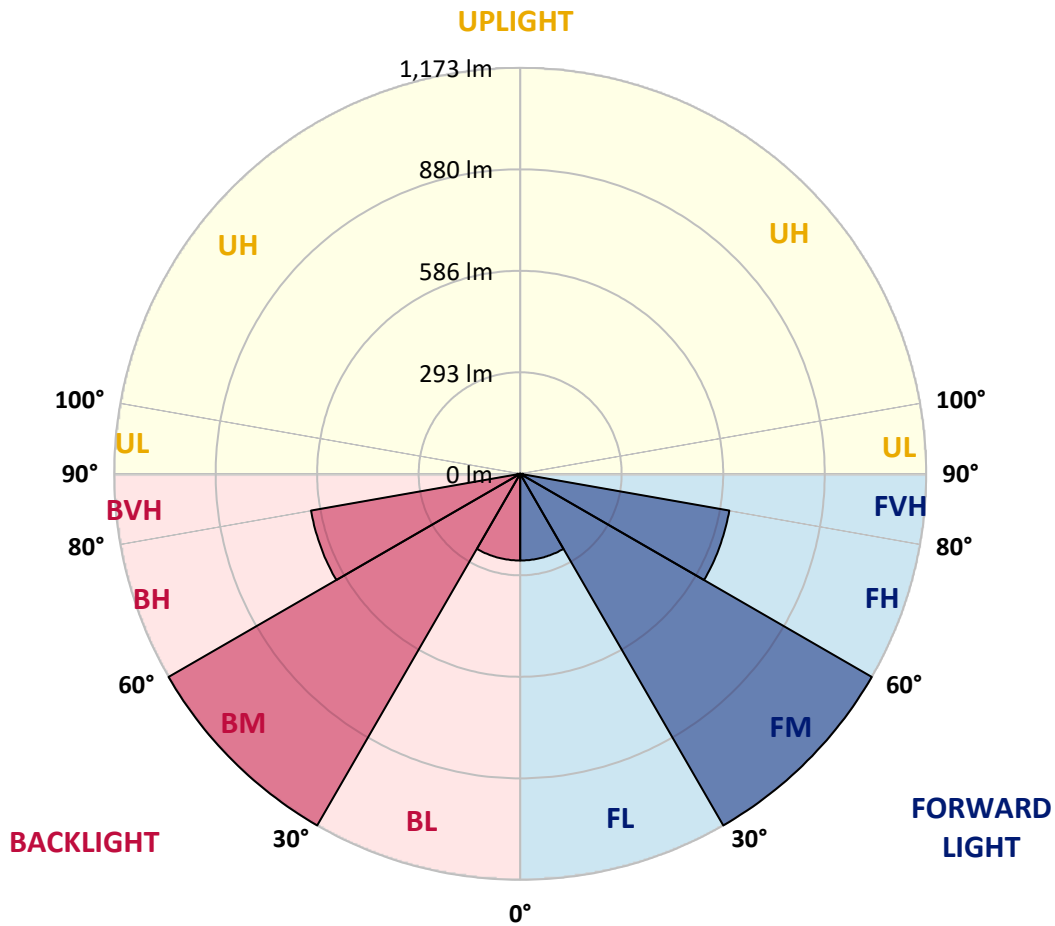
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.3	6.1			
FM	(30°-60°)	1172.7	28.7			
FH	(60°-80°)	613.4	15.0			G0/660
FVH	(80°-90°)	8.0	0.2			G0/10
BL	(0°-30°)	250.3	6.1	B1/500		
BM	(30°-60°)	1172.7	28.7	B2/2500		
BH	(60°-80°)	613.4	15.0	B2/1000		G0/660
BVH	(80°-90°)	8.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6
2.5°	489.9	488.3	489.5	488.5	487.7	486.8	487.2	488.7	489.3	489.5
5°	496.5	495.0	495.7	495.7	494.2	493.8	494.0	495.0	496.3	496.3
7.5°	507.1	505.7	507.1	506.3	505.1	504.7	504.5	505.3	507.1	507.1
10°	520.1	518.4	519.3	518.8	517.4	516.8	516.6	517.8	519.5	519.3
12.5°	534.2	532.4	533.4	532.2	531.8	531.2	531.2	530.9	532.0	531.2
15°	550.0	548.8	549.2	548.4	549.0	548.6	546.9	546.1	546.5	545.3
17.5°	568.7	565.8	567.3	566.8	566.8	567.7	565.0	564.0	564.8	563.6
20°	590.2	587.4	588.0	587.2	586.1	587.0	583.7	584.5	585.1	584.3
22.5°	613.8	610.1	609.9	610.3	608.1	608.3	606.0	608.1	609.3	607.1
25°	638.0	634.1	636.8	635.8	632.9	633.5	631.9	633.9	635.0	632.1
27.5°	663.7	661.0	663.5	664.1	660.6	663.1	660.6	662.5	663.5	659.2
30°	693.6	691.0	693.2	694.9	690.8	694.7	692.6	693.8	694.0	688.9
32.5°	726.3	722.2	727.9	728.7	724.2	728.9	726.3	727.9	728.9	721.9
35°	766.1	760.9	767.5	766.5	762.6	766.5	764.0	766.5	768.9	760.5
37.5°	808.9	803.6	810.6	808.7	805.0	807.7	806.3	807.9	811.8	802.8
40°	856.1	849.6	859.0	855.7	852.2	851.8	852.6	853.7	858.8	848.7
42.5°	906.6	899.6	913.8	908.6	903.7	900.4	903.1	905.2	910.1	898.8
45°	964.2	956.2	974.7	968.5	960.7	954.0	958.3	961.4	968.5	955.0
47.5°	1027.8	1018.8	1038.5	1036.7	1023.9	1009.2	1019.0	1027.8	1033.2	1016.8
50°	1090.0	1083.0	1108.9	1111.1	1095.5	1074.8	1088.6	1101.9	1103.3	1081.8
52.5°	1148.3	1141.3	1178.8	1193.0	1179.0	1154.4	1169.0	1182.5	1171.7	1143.7
55°	1194.8	1189.1	1236.9	1273.4	1278.1	1257.8	1266.4	1266.0	1230.3	1187.4
57.5°	1206.1	1205.3	1265.6	1343.0	1392.2	1394.7	1377.6	1334.1	1257.2	1199.6
60°	1154.8	1160.0	1242.8	1379.3	1510.6	1565.1	1491.5	1367.4	1226.6	1146.6
62.5°	1001.4	1014.9	1114.8	1335.0	1606.2	1761.3	1582.8	1316.9	1101.1	996.7
65°	717.6	741.2	851.6	1139.2	1597.6	1933.6	1569.7	1130.0	859.8	739.4
67.5°	325.6	349.6	443.3	780.0	1388.7	1886.8	1385.4	788.2	465.5	350.8
70°	118.0	122.1	152.2	312.2	887.5	1503.4	925.5	314.5	161.9	130.1
72.5°	71.4	72.0	78.4	111.8	308.4	912.7	321.5	115.5	80.0	71.0
75°	45.3	44.9	55.8	68.3	109.3	307.9	114.7	68.3	55.6	50.7
77.5°	32.6	33.6	40.0	51.1	68.9	104.4	67.7	48.8	40.0	32.8
80°	24.4	25.0	29.1	39.8	48.4	65.0	43.1	36.1	30.2	20.5
82.5°	17.6	17.6	19.1	28.9	29.5	35.1	23.4	25.4	19.9	14.6
85°	10.5	10.3	11.9	17.2	15.4	12.9	10.7	15.6	12.5	9.0
87.5°	3.7	3.9	3.7	4.9	4.1	3.5	3.3	4.3	3.5	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
486.6
489.5
496.3
506.5
518.8
531.6
545.5
564.6
586.1
609.3
635.4
662.5
692.0
726.7
765.6
808.3
852.0
904.7
962.0
1022.3
1084.5
1144.6
1188.9
1195.9
1137.2
990.5
730.6
345.7
128.4
72.2
51.1
33.4
21.1
14.6
8.8
2.9
0.0

OF REPORT)