

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: P944999

Luminaire Tested: **GALN-SB1A-830-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944999  
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-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4225 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

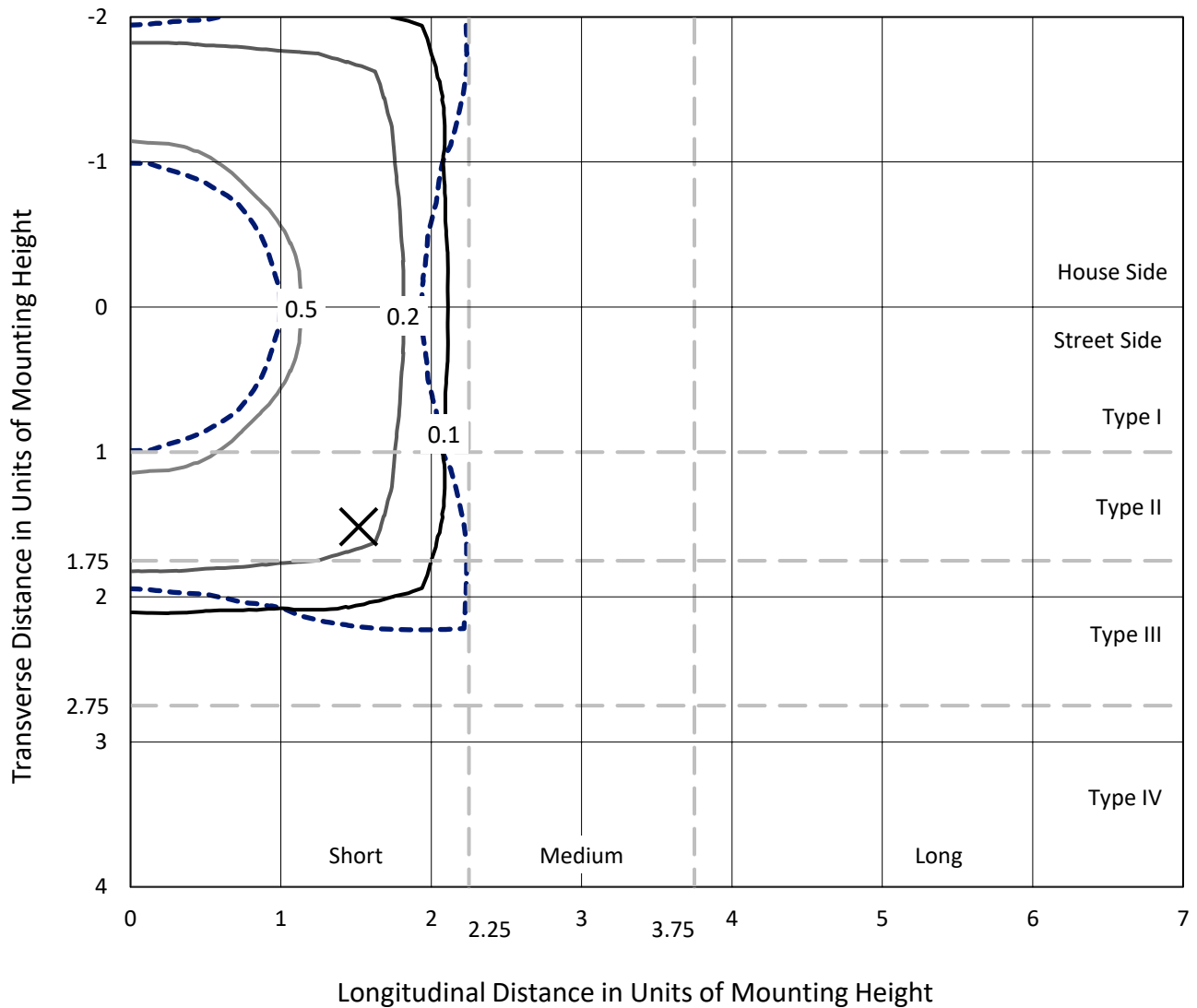
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

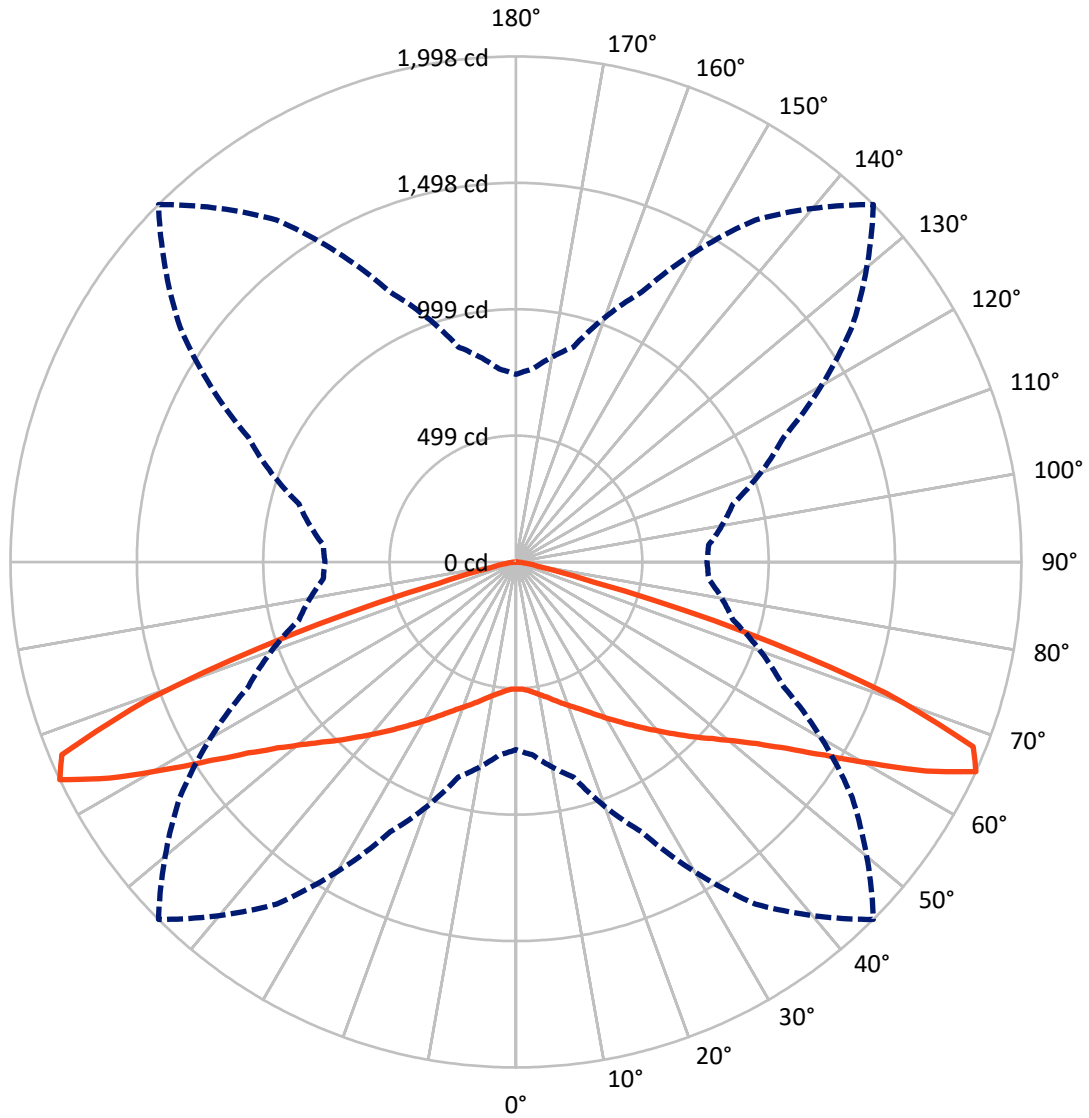
✕ Max cd  
 - - - 1/2 Max cd



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	2112.5	0.0	2112.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2112.5	0.0	2112.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4225.0	0.0	4225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.6	1.2
10°-20°	161.9	3.8
20°-30°	305.7	7.2
30°-40°	500.6	11.8
40°-50°	776.2	18.4
50°-60°	1146.6	27.1
60°-70°	1091.5	25.8
70°-80°	176.1	4.2
80°-90°	16.6	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°	4225.0	100.0
0°-180°	4225.0	100.0

**Coefficient of Utilization**



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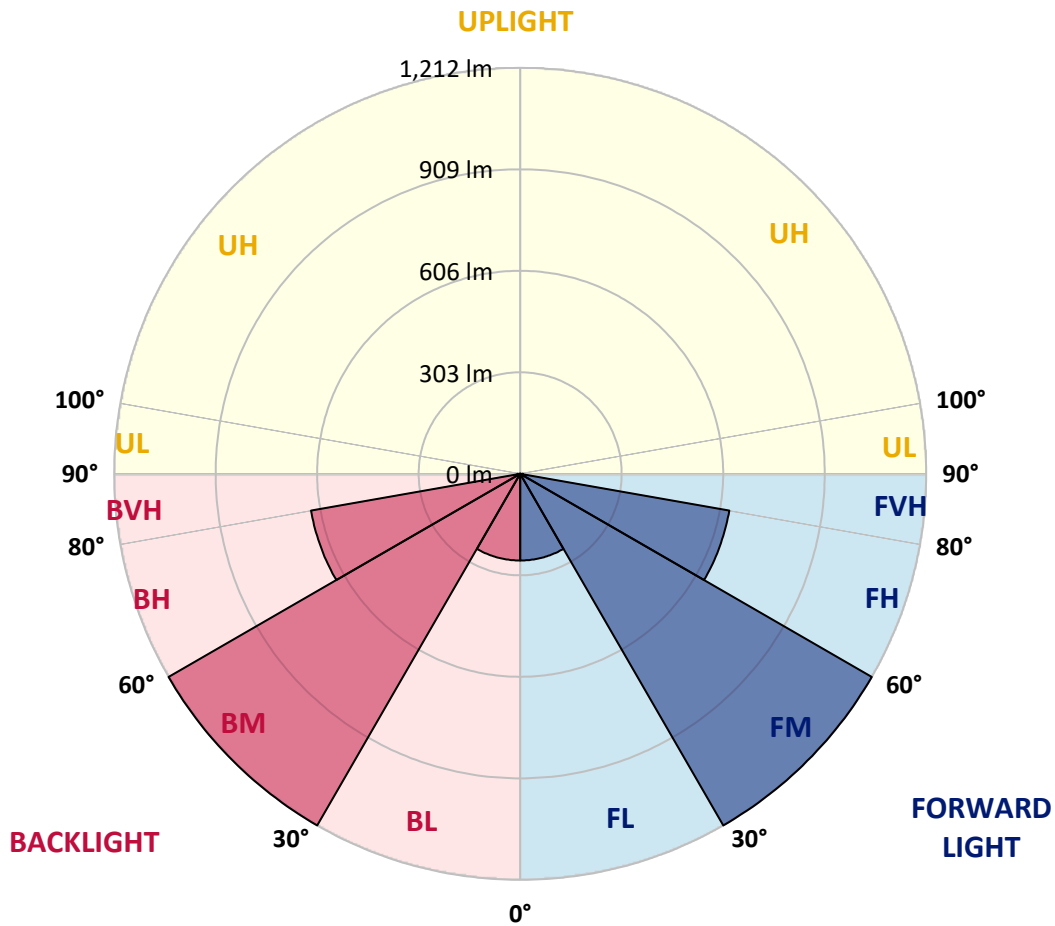
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.6	6.1			
FM (30°-60°)	1211.7	28.7			
FH (60°-80°)	633.8	15.0			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	258.6	6.1	B1/500		
BM (30°-60°)	1211.7	28.7	B2/2500		
BH (60°-80°)	633.8	15.0	B2/1000		G0/660
BVH (80°-90°)	8.3	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°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	506.2	504.5	505.8	504.7	503.9	503.0	503.5	504.9	505.6	505.8
5°	513.0	511.5	512.1	512.1	510.7	510.2	510.4	511.5	512.8	512.8
7.5°	524.0	522.5	524.0	523.2	521.9	521.5	521.3	522.1	524.0	524.0
10°	537.4	535.7	536.5	536.1	534.6	534.0	533.8	535.0	536.7	536.5
12.5°	552.0	550.1	551.1	549.9	549.5	548.8	548.8	548.6	549.7	548.8
15°	568.3	567.0	567.5	566.6	567.3	566.8	565.1	564.3	564.7	563.4
17.5°	587.6	584.6	586.1	585.7	585.7	586.5	583.8	582.7	583.6	582.3
20°	609.9	606.9	607.5	606.7	605.6	606.5	603.1	603.9	604.6	603.7
22.5°	634.2	630.4	630.2	630.6	628.3	628.5	626.2	628.3	629.6	627.2
25°	659.3	655.2	658.0	656.9	654.0	654.6	652.9	655.0	656.1	653.1
27.5°	685.8	683.0	685.5	686.2	682.6	685.1	682.6	684.5	685.5	681.1
30°	716.7	713.9	716.3	718.0	713.7	717.8	715.6	716.9	717.1	711.8
32.5°	750.4	746.2	752.1	753.0	748.3	753.2	750.4	752.1	753.2	746.0
35°	791.5	786.2	793.0	792.0	787.9	792.0	789.4	792.0	794.5	785.8
37.5°	835.8	830.3	837.5	835.6	831.8	834.6	833.1	834.8	838.8	829.5
40°	884.6	877.8	887.6	884.2	880.6	880.1	881.0	882.1	887.3	877.0
42.5°	936.7	929.5	944.2	938.9	933.8	930.4	933.1	935.3	940.3	928.7
45°	996.3	988.0	1007.1	1000.8	992.7	985.7	990.2	993.3	1000.8	986.8
47.5°	1062.0	1052.7	1073.0	1071.1	1058.0	1042.7	1052.9	1062.0	1067.5	1050.6
50°	1126.3	1119.0	1145.8	1148.1	1132.0	1110.6	1124.8	1138.5	1140.0	1117.8
52.5°	1186.5	1179.2	1218.0	1232.7	1218.3	1192.8	1207.9	1221.9	1210.6	1181.8
55°	1234.6	1228.6	1278.0	1315.8	1320.6	1299.7	1308.6	1308.1	1271.2	1226.9
57.5°	1246.2	1245.4	1307.7	1387.6	1438.5	1441.0	1423.4	1378.5	1299.0	1239.4
60°	1193.2	1198.5	1284.2	1425.1	1560.8	1617.2	1541.1	1412.8	1267.4	1184.8
62.5°	1034.7	1048.7	1151.9	1379.4	1659.6	1819.9	1635.4	1360.7	1137.7	1029.8
65°	741.5	765.9	879.9	1177.1	1650.7	1997.9	1621.9	1167.6	888.4	764.0
67.5°	336.4	361.2	458.1	805.9	1434.9	1949.6	1431.5	814.4	481.0	362.5
70°	121.9	126.1	157.3	322.6	917.0	1553.4	956.2	325.0	167.3	134.4
72.5°	73.8	74.4	81.0	115.5	318.6	943.1	332.2	119.3	82.7	73.3
75°	46.8	46.4	57.7	70.6	113.0	318.2	118.5	70.6	57.4	52.4
77.5°	33.7	34.8	41.3	52.8	71.2	107.9	70.0	50.5	41.3	33.9
80°	25.2	25.9	30.1	41.1	50.0	67.2	44.5	37.3	31.2	21.2
82.5°	18.2	18.2	19.7	29.9	30.5	36.2	24.2	26.3	20.6	15.1
85°	10.8	10.6	12.3	17.8	15.9	13.4	11.0	16.1	12.9	9.3
87.5°	3.8	4.0	3.8	5.1	4.2	3.6	3.4	4.5	3.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
502.8
505.8
512.8
523.4
536.1
549.2
563.7
583.4
605.6
629.6
656.5
684.5
715.0
750.8
791.1
835.2
880.4
934.8
994.0
1056.3
1120.5
1182.6
1228.4
1235.6
1175.0
1023.4
754.9
357.2
132.7
74.6
52.8
34.6
21.8
15.1
9.1
3.0
0.0

OF REPORT)