

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: P451495

Luminaire Tested: **GALN-SA2B-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8822 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

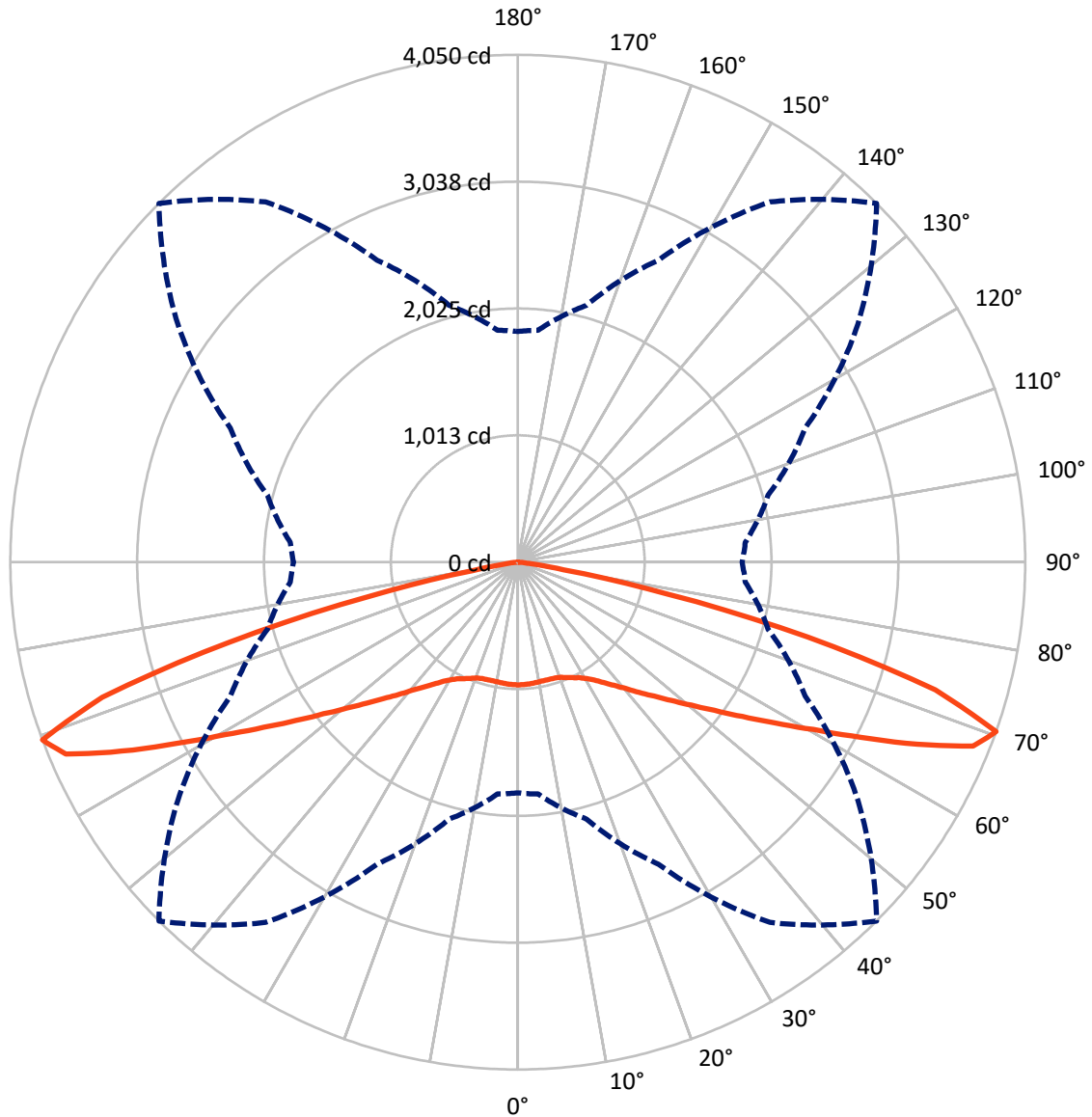
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### 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
<b>House Side</b>	Lumens	4411.0	0.0	4411.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4411.0	0.0	4411.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8822.0	0.0	8822.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	1.1
10°-20°	272.6	3.1
20°-30°	466.2	5.3
30°-40°	740.0	8.4
40°-50°	1193.8	13.5
50°-60°	1942.4	22.0
60°-70°	2815.8	31.9
70°-80°	1249.0	14.2
80°-90°	49.3	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°	8822.0	100.0
0°-180°	8822.0	100.0



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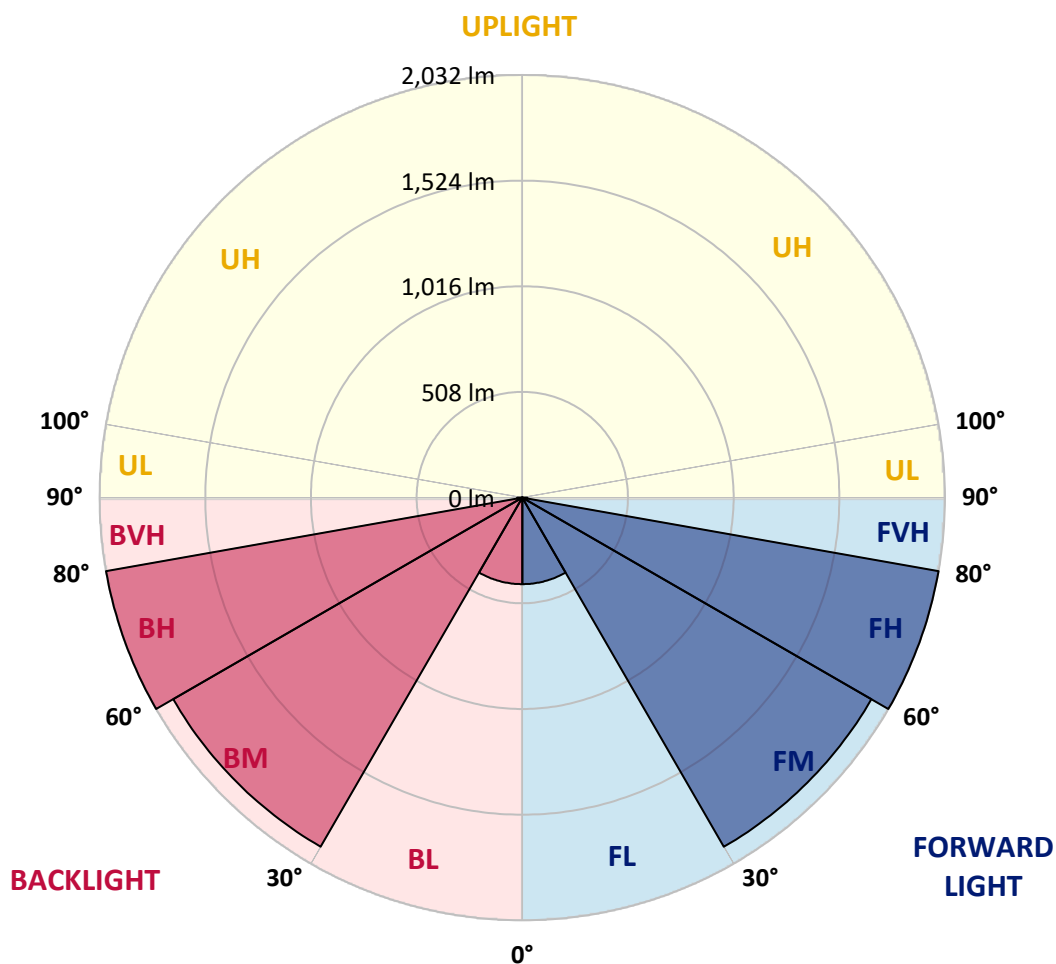
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.9	4.7			
FM (30°-60°)	1938.1	22.0			
FH (60°-80°)	2032.4	23.0			G2/5000
FVH (80°-90°)	24.6	0.3			G1/100
BL (0°-30°)	415.9	4.7	B1/500		
BM (30°-60°)	1938.1	22.0	B2/2500		
BH (60°-80°)	2032.4	23.0	B3/2500		G2/5000
BVH (80°-90°)	24.6	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	979.6	979.6	979.6	979.6	979.6	979.6	979.6	979.6	979.6	979.6	979.6
2.5°	979.6	980.6	979.2	978.2	977.8	977.8	977.3	977.8	980.6	981.0	979.6
5°	976.9	977.8	977.3	976.4	975.9	975.9	975.5	975.0	977.3	978.2	977.8
7.5°	973.1	973.6	973.1	972.7	973.1	972.7	971.3	970.3	972.2	972.2	971.7
10°	966.6	967.6	967.1	967.6	968.5	968.5	966.6	964.8	965.2	964.3	964.3
12.5°	958.7	960.1	960.6	962.4	964.8	967.6	963.4	959.2	958.3	957.8	957.3
15°	953.6	955.0	956.9	958.7	962.9	968.9	962.9	956.4	954.5	952.7	951.7
17.5°	952.2	954.1	956.9	959.6	965.2	971.3	966.2	959.6	955.0	952.2	951.3
20°	955.9	957.3	961.5	966.6	974.5	980.6	975.5	968.5	961.5	957.3	955.9
22.5°	963.4	965.7	970.8	980.1	991.3	1000.1	993.1	981.5	970.3	964.8	962.9
25°	979.6	981.5	987.5	1000.1	1013.1	1021.5	1014.0	1000.6	985.2	977.8	975.5
27.5°	1004.3	1007.1	1013.6	1028.5	1039.2	1043.8	1038.7	1029.4	1018.2	1010.3	1008.5
30°	1039.2	1042.4	1052.2	1068.0	1075.0	1077.7	1075.4	1069.4	1061.5	1053.1	1051.2
32.5°	1086.1	1088.0	1099.1	1114.0	1120.5	1121.5	1118.7	1115.9	1102.9	1088.9	1088.0
35°	1138.7	1141.9	1155.4	1173.1	1179.1	1179.6	1174.0	1169.8	1154.5	1143.3	1143.3
37.5°	1208.4	1209.8	1222.8	1242.8	1249.3	1247.5	1244.7	1240.9	1224.7	1210.3	1210.7
40°	1290.2	1293.0	1304.2	1327.4	1327.4	1325.1	1327.0	1324.2	1307.9	1293.9	1294.4
42.5°	1387.4	1388.8	1402.3	1426.9	1425.1	1420.4	1422.3	1418.6	1408.3	1392.5	1386.9
45°	1491.1	1496.7	1519.9	1543.6	1539.9	1525.0	1532.5	1531.5	1522.2	1498.5	1499.9
47.5°	1616.2	1625.5	1647.8	1676.1	1671.9	1648.7	1657.1	1662.6	1649.6	1623.6	1618.9
50°	1757.0	1763.1	1796.1	1822.6	1818.9	1794.2	1813.3	1814.2	1781.7	1744.9	1744.9
52.5°	1907.2	1913.3	1957.9	1999.3	2001.6	1965.8	1981.1	1980.2	1927.2	1878.8	1869.5
55°	2075.5	2078.3	2136.0	2196.9	2209.9	2175.0	2176.9	2158.3	2089.5	2033.2	2028.1
57.5°	2249.4	2259.6	2323.3	2402.4	2441.0	2419.6	2409.8	2360.1	2293.6	2229.0	2225.7
60°	2441.9	2442.4	2525.1	2618.6	2696.7	2711.1	2671.1	2604.6	2518.6	2433.1	2429.3
62.5°	2575.3	2595.3	2699.9	2858.0	2998.0	3078.9	2973.3	2833.8	2664.6	2526.5	2512.6
65°	2602.8	2616.3	2775.7	3043.5	3329.5	3503.8	3259.7	2963.1	2674.4	2490.3	2481.0
67.5°	2381.0	2395.4	2610.2	3021.2	3562.0	3919.5	3445.7	2900.8	2508.8	2281.0	2262.9
70°	1841.7	1857.9	2123.4	2659.5	3510.3	4050.1	3313.2	2530.2	2069.0	1823.1	1790.0
72.5°	979.2	1039.2	1266.0	1825.4	2849.2	3487.1	2716.7	1846.3	1334.4	1090.8	1047.1
75°	357.5	365.0	491.4	809.5	1657.5	2391.2	1721.2	880.6	506.3	391.0	371.0
77.5°	147.9	147.4	161.8	244.6	602.1	1224.7	671.8	258.5	161.3	149.2	147.4
80°	87.4	87.4	96.2	101.8	158.5	369.6	177.1	115.3	96.7	88.3	89.7
82.5°	39.1	41.4	60.9	64.2	76.7	101.4	85.6	73.5	63.2	43.7	39.5
85°	21.4	18.6	32.1	33.5	36.7	37.7	40.5	40.0	36.7	21.4	21.9
87.5°	4.2	5.1	9.3	7.0	7.9	7.0	9.3	13.0	13.5	7.4	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)