

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: P451497

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8804 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

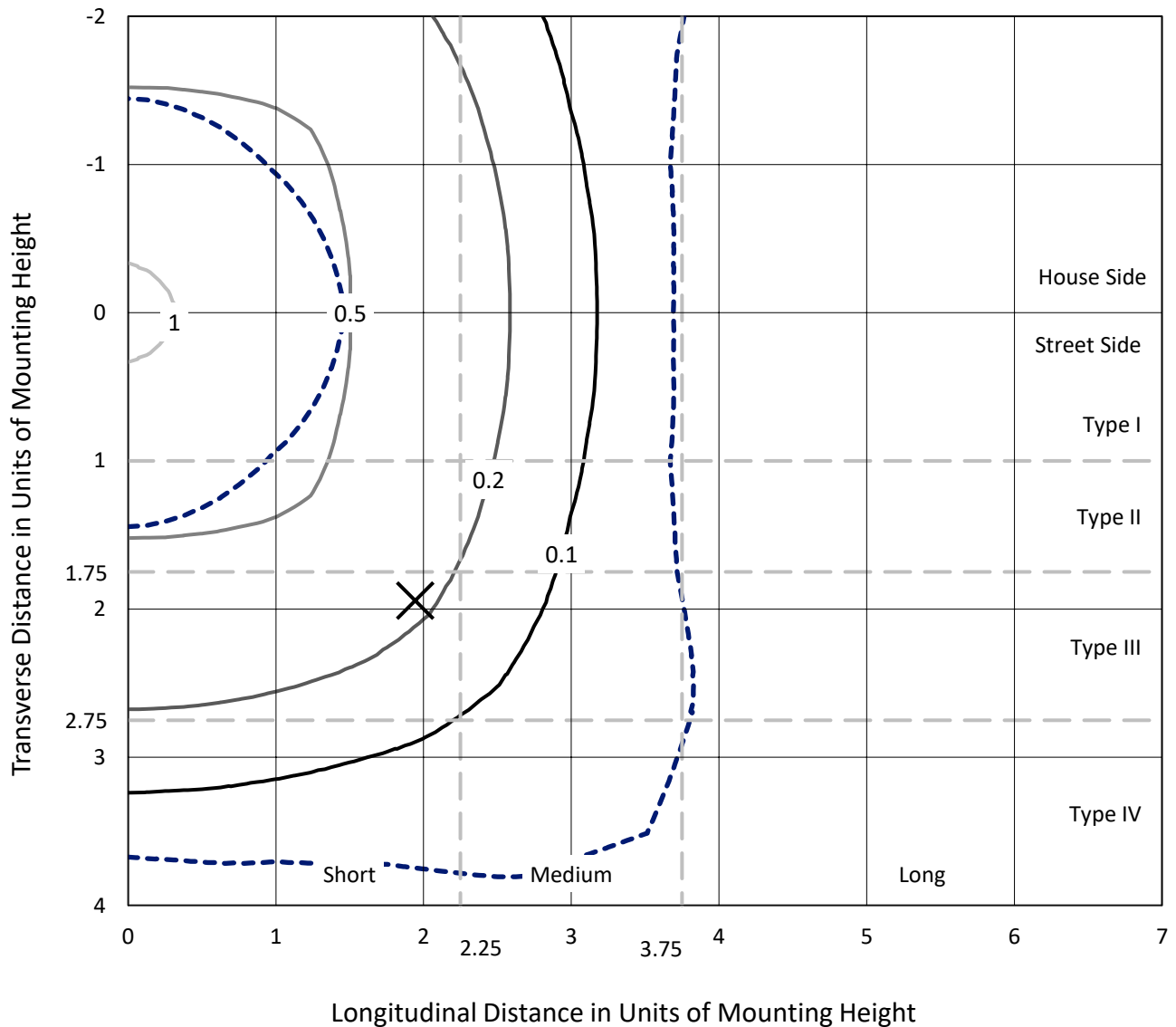
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

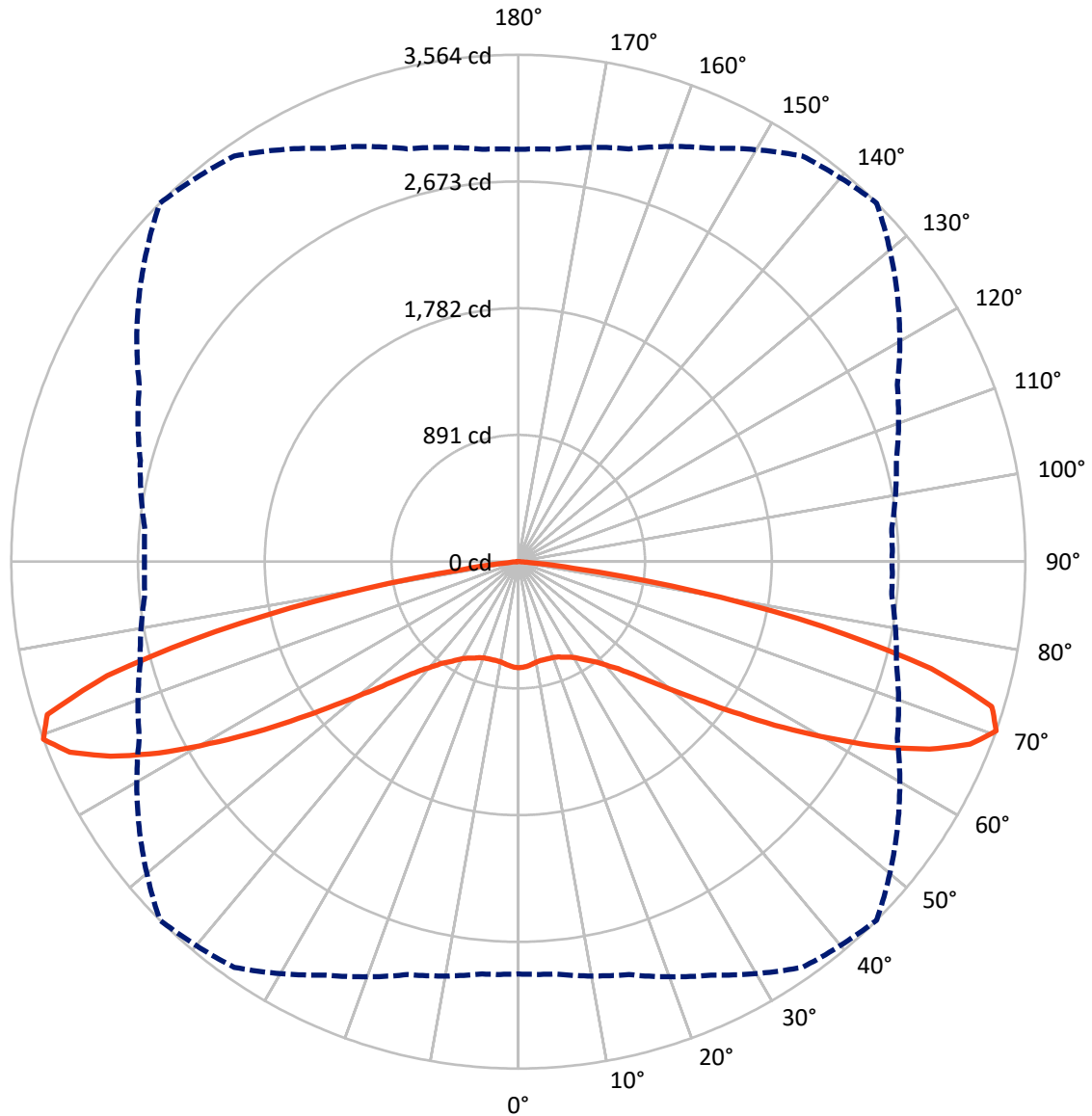
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
<b>House Side</b>	Lumens	4402.0	0.0	4402.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4402.0	0.0	4402.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8804.0	0.0	8804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	0.8
10°-20°	204.1	2.3
20°-30°	347.7	3.9
30°-40°	538.9	6.1
40°-50°	907.1	10.3
50°-60°	1650.3	18.7
60°-70°	2794.0	31.7
70°-80°	2162.7	24.6
80°-90°	129.6	1.5
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°	8804.0	100.0
0°-180°	8804.0	100.0

**Coefficient of Utilization**



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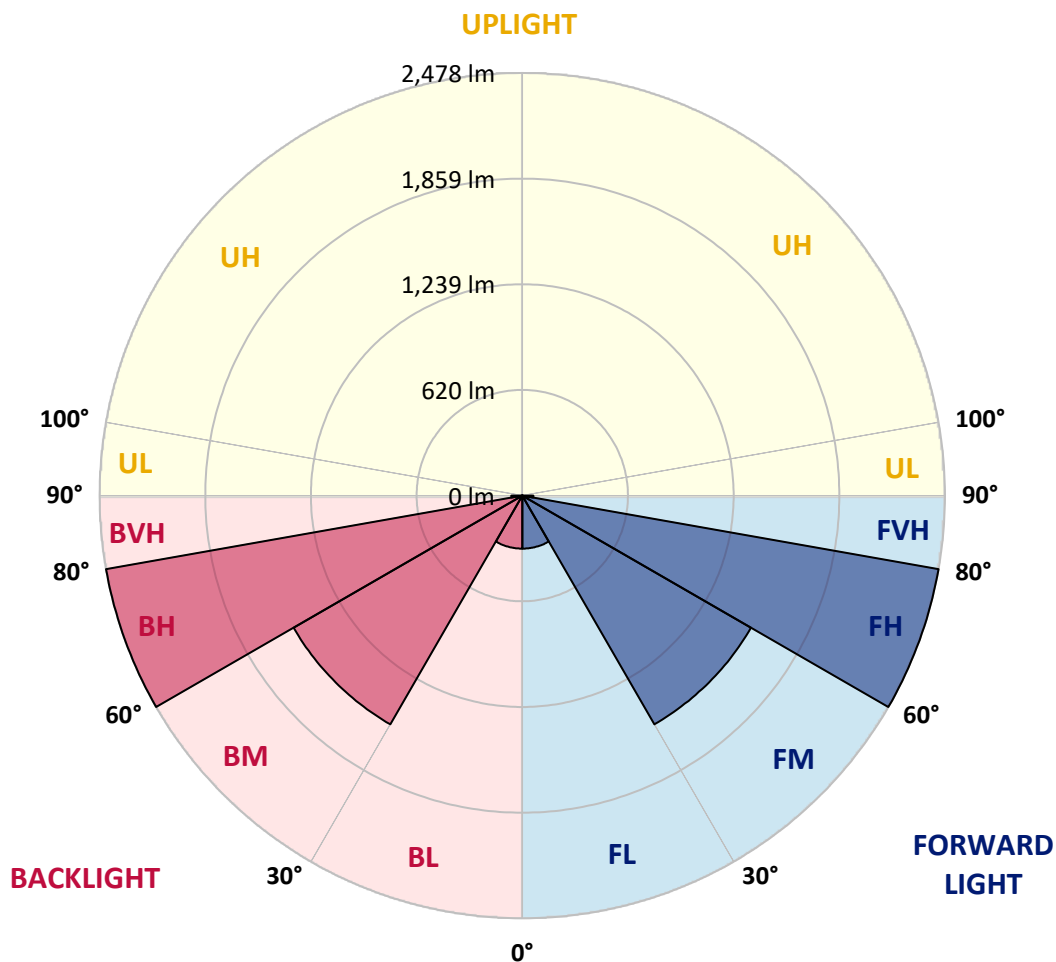
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.7	3.5			
FM (30°-60°)	1548.1	17.6			
FH (60°-80°)	2478.3	28.2			G2/5000
FVH (80°-90°)	64.8	0.7			G1/100
BL (0°-30°)	310.7	3.5	B1/500		
BM (30°-60°)	1548.1	17.6	B2/2500		
BH (60°-80°)	2478.3	28.2	B3/2500		G2/5000
BVH (80°-90°)	64.8	0.7			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°	745.4	745.4	745.4	745.4	745.4	745.4	745.4	745.4	745.4	745.4	745.4
2.5°	743.5	744.0	744.0	743.0	742.6	742.6	742.1	742.1	743.5	744.0	744.4
5°	737.0	737.0	737.0	736.5	735.6	735.6	734.7	734.7	735.1	736.5	735.6
7.5°	728.2	729.1	729.1	727.2	725.8	725.8	725.4	725.8	726.3	727.7	727.2
10°	725.4	725.8	723.5	720.3	717.9	716.5	717.0	717.9	720.3	721.2	721.7
12.5°	727.2	727.2	723.0	718.4	714.2	712.4	711.9	715.1	719.3	722.1	723.0
15°	729.6	728.6	723.5	717.5	713.3	712.8	712.4	714.7	720.7	726.3	726.8
17.5°	731.0	730.5	724.0	716.5	714.2	714.2	713.7	715.6	722.1	729.1	729.6
20°	735.6	734.2	726.8	718.9	717.0	717.9	716.5	718.9	725.8	734.2	736.1
22.5°	744.9	743.5	736.1	728.2	727.2	727.2	726.8	729.1	736.5	745.4	746.8
25°	756.1	754.7	747.7	742.1	743.0	744.9	744.0	744.4	750.5	757.9	760.2
27.5°	770.9	768.6	762.6	757.9	760.7	760.7	760.7	760.2	764.0	770.9	773.3
30°	789.1	788.1	781.6	781.2	783.5	781.2	781.2	781.6	782.1	788.6	790.9
32.5°	812.8	810.9	807.7	806.7	813.3	815.1	808.6	802.6	805.8	812.3	813.7
35°	851.8	849.1	844.4	839.3	844.4	853.2	839.3	834.6	843.0	851.8	852.8
37.5°	904.9	903.5	896.0	886.7	886.3	895.6	881.1	880.7	896.5	907.2	908.6
40°	971.3	972.7	963.4	954.6	950.0	957.4	946.2	950.4	965.8	977.9	976.9
42.5°	1064.8	1059.7	1045.3	1036.9	1031.8	1029.0	1026.2	1032.7	1049.9	1062.9	1073.2
45°	1174.1	1172.2	1154.1	1143.9	1132.7	1128.5	1127.6	1139.2	1160.1	1175.9	1177.3
47.5°	1297.8	1293.6	1282.0	1271.3	1267.1	1262.0	1257.3	1266.1	1287.1	1298.2	1301.5
50°	1425.2	1426.1	1426.1	1424.2	1428.4	1429.4	1416.8	1420.1	1431.7	1430.8	1429.8
52.5°	1570.7	1575.8	1600.0	1602.3	1622.3	1635.8	1613.0	1599.5	1595.4	1570.2	1572.1
55°	1741.8	1746.5	1782.7	1819.0	1872.9	1895.7	1847.8	1806.0	1776.2	1738.1	1740.0
57.5°	1955.3	1957.6	1992.0	2061.7	2147.3	2200.8	2116.6	2033.8	1973.4	1937.1	1922.7
60°	2185.0	2187.3	2237.5	2322.6	2455.6	2520.7	2416.5	2281.2	2204.9	2149.6	2153.3
62.5°	2460.7	2470.0	2515.1	2632.3	2793.6	2866.6	2728.5	2547.6	2444.4	2375.6	2378.4
65°	2755.9	2771.8	2821.0	2949.8	3098.6	3177.2	3008.0	2799.2	2670.9	2586.7	2595.5
67.5°	2947.5	2961.5	3032.6	3174.9	3360.4	3425.5	3207.0	2963.8	2803.4	2702.9	2684.3
70°	2898.7	2910.3	3005.2	3207.0	3481.8	3564.1	3254.4	2939.6	2750.8	2635.1	2627.6
72.5°	2558.8	2534.6	2673.2	2962.9	3343.2	3481.3	3105.2	2684.8	2447.2	2328.2	2314.2
75°	1695.8	1748.3	1952.9	2294.2	2828.5	2999.6	2650.4	2155.7	1856.7	1757.6	1742.3
77.5°	566.8	607.3	789.1	1300.6	1928.3	2185.4	1931.1	1409.8	997.4	803.5	807.2
80°	150.2	148.3	192.0	357.6	833.2	1265.7	970.0	477.5	261.3	189.2	179.5
82.5°	53.9	60.4	77.7	99.0	220.9	393.4	277.6	133.9	98.1	72.5	70.2
85°	23.7	23.2	33.5	39.5	55.3	73.5	65.1	56.7	49.8	33.0	30.7
87.5°	5.1	5.1	7.9	6.0	9.8	9.8	12.1	14.4	14.9	9.8	7.9
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)