

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: P527599

Luminaire Tested: **GALN-SA2C-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7139 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

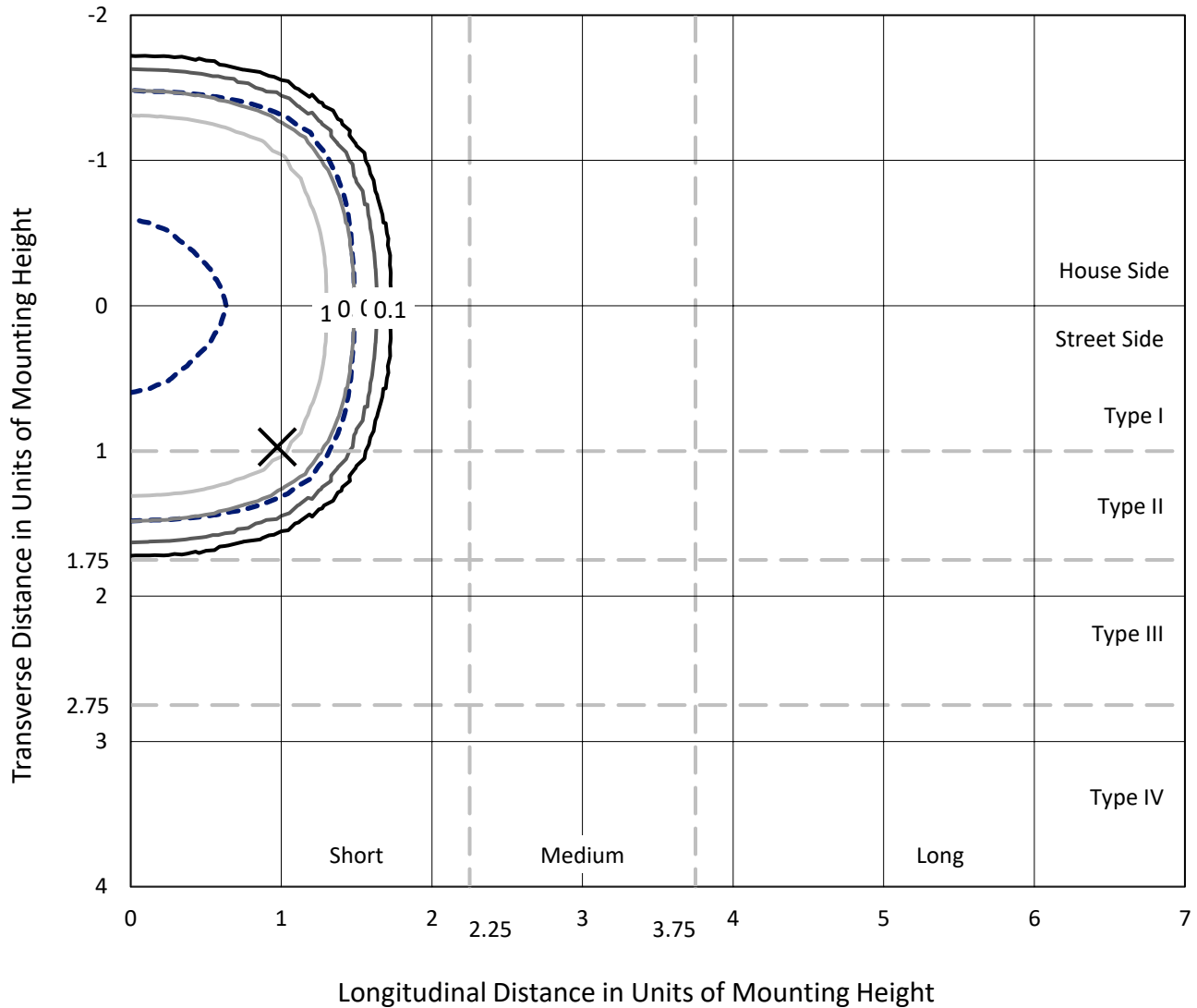
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527599  
 CATALOG NUMBER: GALN-SA2C-827-U-5NQ-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

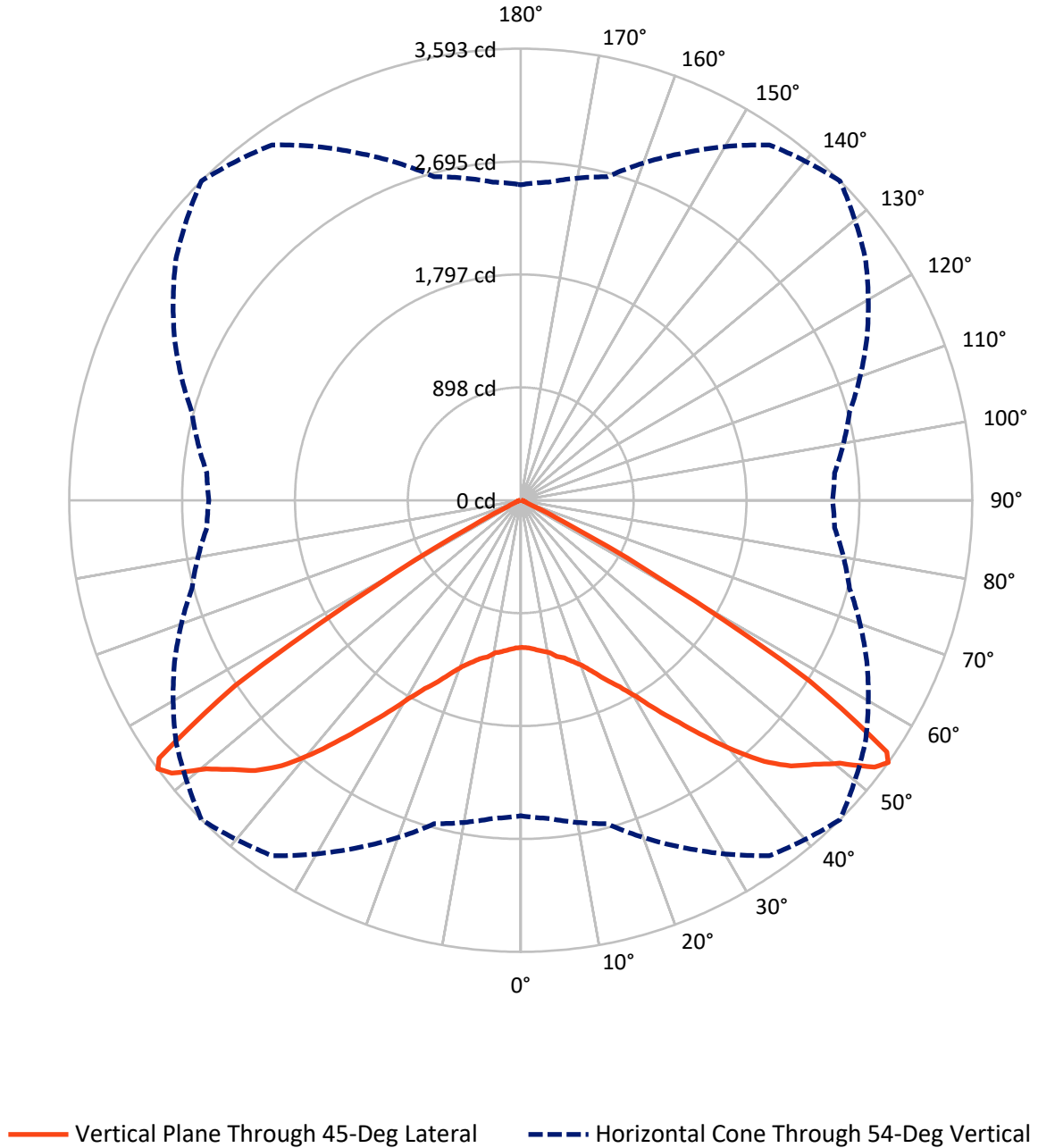
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P527599  
CATALOG NUMBER: GALN-SA2C-827-U-5NQ-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P527599  
 CATALOG NUMBER: GALN-SA2C-827-U-5NQ-GRSBK

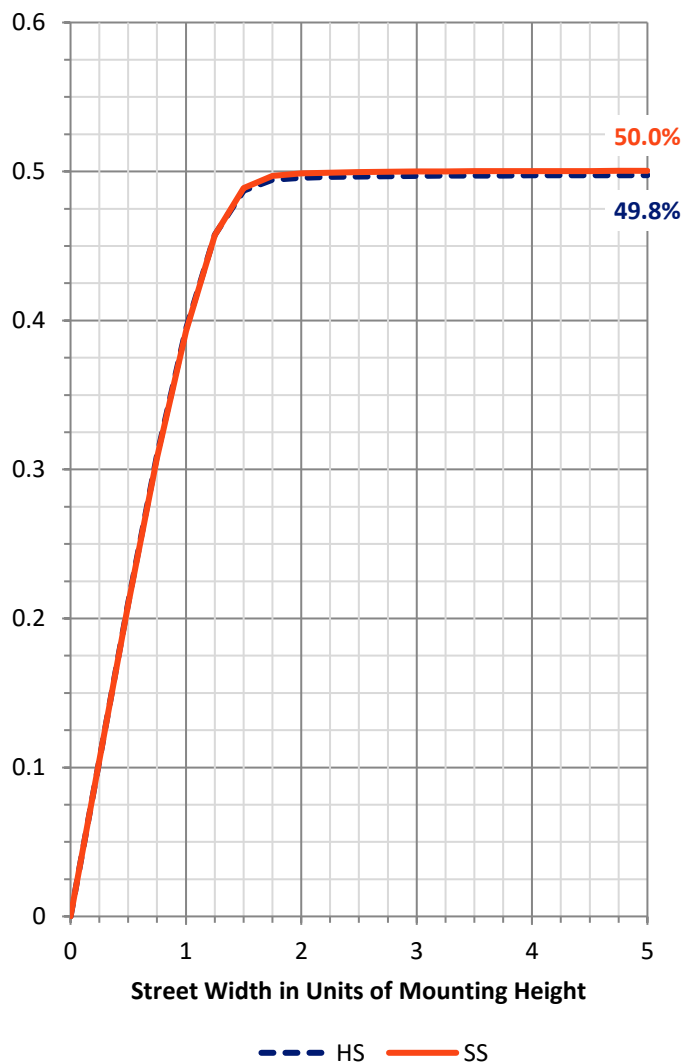
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3569.5	0.0	3569.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3569.5	0.0	3569.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7139.0	0.0	7139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	1.6
10°-20°	371.0	5.2
20°-30°	727.2	10.2
30°-40°	1307.6	18.3
40°-50°	2238.4	31.4
50°-60°	2165.9	30.3
60°-70°	185.4	2.6
70°-80°	22.0	0.3
80°-90°	6.9	0.1
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°	7139.0	100.0
0°-180°	7139.0	100.0

**Coefficient of Utilization**



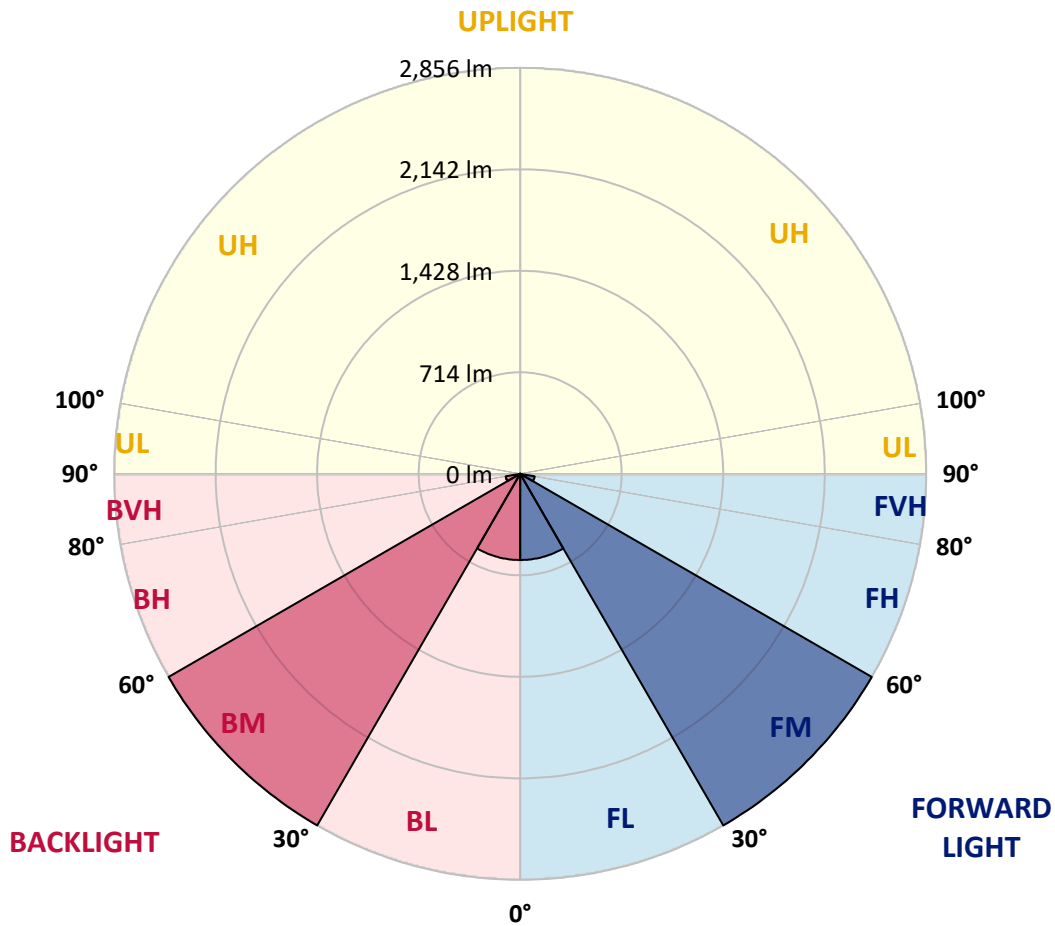
REPORT NUMBER: P527599  
 CATALOG NUMBER: GALN-SA2C-827-U-5NQ-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.4	8.5			
FM (30°-60°)	2856.0	40.0			
FH (60°-80°)	103.7	1.5			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	606.4	8.5	B2/1000		
BM (30°-60°)	2856.0	40.0	B3/5000		
BH (60°-80°)	103.7	1.5	B0/110		G0/660
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





REPORT NUMBER: P527599

CATALOG NUMBER: GALN-SA2C-827-U-5NQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6
2.5°	1176.2	1183.0	1178.5	1181.9	1181.9	1176.2	1179.6	1166.0	1175.1	1168.3	1169.4
5°	1194.3	1193.2	1193.2	1194.3	1189.8	1192.1	1187.5	1183.0	1179.6	1175.1	1188.7
7.5°	1216.9	1216.9	1209.0	1211.3	1209.0	1212.4	1203.4	1194.3	1190.9	1187.5	1185.3
10°	1238.4	1236.2	1232.8	1243.0	1235.0	1230.5	1226.0	1220.3	1207.9	1203.4	1198.8
12.5°	1270.1	1269.0	1264.4	1274.6	1270.1	1274.6	1257.7	1243.0	1240.7	1226.0	1233.9
15°	1307.4	1317.6	1309.7	1309.7	1307.4	1301.8	1295.0	1288.2	1267.8	1262.2	1263.3
17.5°	1356.1	1352.7	1353.8	1353.8	1365.1	1350.4	1336.8	1319.9	1309.7	1306.3	1295.0
20°	1402.4	1407.0	1405.8	1413.7	1420.5	1404.7	1390.0	1387.7	1359.4	1364.0	1348.1
22.5°	1483.9	1480.5	1486.1	1491.8	1487.3	1485.0	1471.4	1454.5	1429.6	1418.3	1416.0
25°	1569.8	1564.2	1554.0	1567.6	1574.3	1584.5	1558.5	1549.5	1511.0	1494.0	1495.2
27.5°	1643.3	1651.2	1662.6	1668.2	1685.2	1681.8	1663.7	1634.3	1604.9	1585.6	1573.2
30°	1744.0	1748.5	1767.7	1775.7	1805.1	1813.0	1784.7	1750.8	1698.7	1673.9	1659.2
32.5°	1836.7	1868.4	1867.3	1906.8	1954.3	1987.1	1936.3	1884.2	1832.2	1802.8	1776.8
35°	1987.1	1981.5	2014.3	2056.1	2133.0	2170.4	2114.9	2055.0	1975.8	1928.3	1908.0
37.5°	2127.4	2129.7	2173.8	2240.5	2328.7	2386.4	2337.8	2239.4	2157.9	2096.9	2068.6
40°	2331.0	2335.5	2380.7	2456.5	2556.0	2618.2	2561.7	2462.2	2353.6	2306.1	2306.1
42.5°	2569.6	2588.8	2618.2	2683.8	2773.2	2842.2	2791.3	2713.2	2603.5	2542.5	2551.5
45°	2815.0	2824.1	2843.3	2940.6	2982.4	3016.3	2968.8	2932.7	2859.1	2784.5	2772.1
47.5°	3044.6	3048.0	3104.6	3135.1	3167.9	3139.6	3170.2	3122.7	3040.1	2967.7	2953.0
50°	3146.4	3140.8	3221.1	3313.8	3338.7	3288.9	3262.9	3231.2	3105.7	3018.6	2980.2
52.5°	2850.1	2882.9	3032.2	3290.0	3484.6	3526.4	3374.9	3229.0	2994.9	2825.2	2799.2
54°	2510.8	2541.3	2664.6	3046.9	3451.8	3593.2	3348.9	3039.0	2708.7	2507.4	2481.4
55°	2174.9	2141.0	2364.9	2755.1	3298.0	3534.3	3245.9	2793.5	2415.8	2231.4	2195.2
57.5°	1177.4	1183.0	1371.9	1740.6	2317.4	2709.8	2393.2	1889.9	1427.3	1220.3	1202.2
60°	373.2	382.3	464.8	703.5	1107.2	1322.1	1133.3	758.9	524.8	420.7	403.8
62.5°	116.5	121.0	132.3	196.8	303.1	433.2	339.3	203.6	151.6	139.1	141.4
65°	71.3	71.3	72.4	76.9	90.5	105.2	101.8	89.3	86.0	83.7	82.6
67.5°	46.4	45.2	47.5	50.9	53.2	54.3	57.7	61.1	59.9	57.7	57.7
70°	28.3	27.1	29.4	33.9	35.1	37.3	40.7	45.2	44.1	41.8	43.0
72.5°	15.8	15.8	17.0	20.4	23.8	26.0	29.4	32.8	33.9	32.8	32.8
75°	5.7	6.8	9.0	12.4	14.7	18.1	21.5	24.9	28.3	26.0	24.9
77.5°	2.3	2.3	4.5	7.9	11.3	14.7	20.4	23.8	26.0	23.8	21.5
80°	1.1	1.1	3.4	6.8	10.2	13.6	17.0	20.4	21.5	19.2	17.0
82.5°	1.1	1.1	3.4	6.8	10.2	12.4	18.1	20.4	22.6	20.4	17.0
85°	0.0	1.1	3.4	6.8	9.0	10.2	10.2	6.8	5.7	3.4	3.4
87.5°	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)