

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: P450654

Luminaire Tested: **GALN-SA1C-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450654  
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-SA1C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6240 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

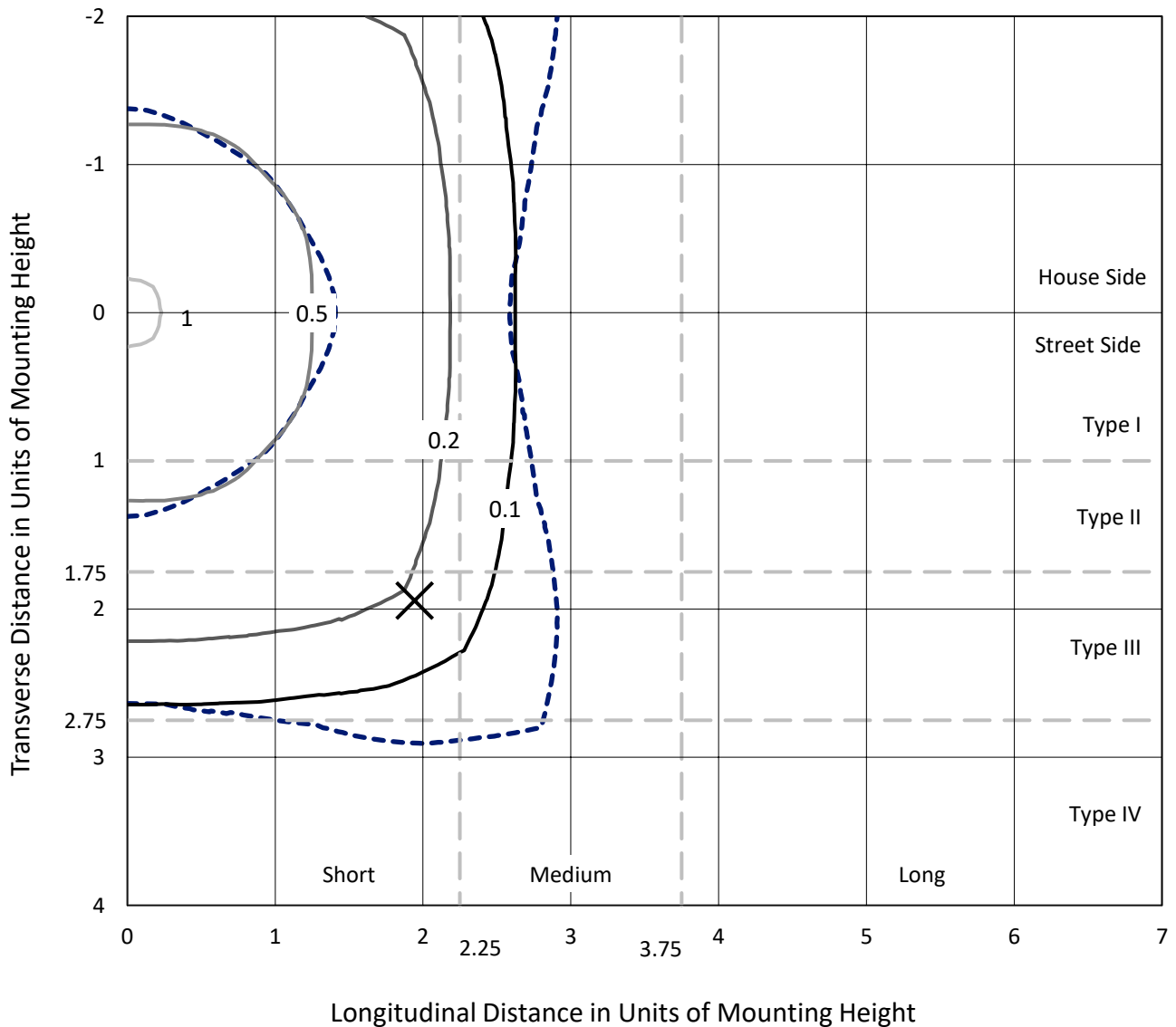
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450654  
 CATALOG NUMBER: GALN-SA1C-727-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

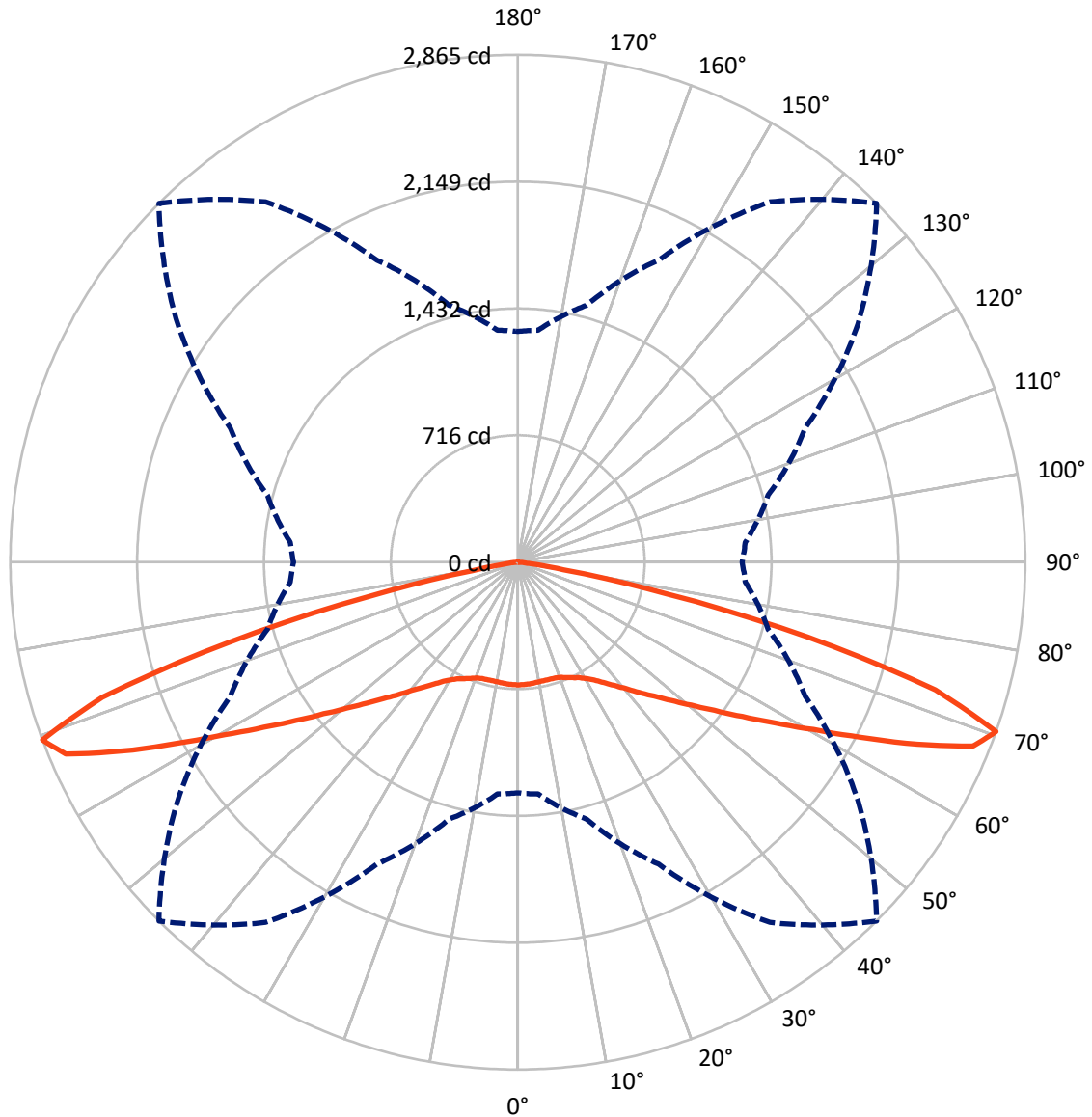
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P450654  
CATALOG NUMBER: GALN-SA1C-727-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P450654

CATALOG NUMBER: GALN-SA1C-727-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3120.0	0.0	3120.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3120.0	0.0	3120.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6240.0	0.0	6240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	1.1
10°-20°	192.8	3.1
20°-30°	329.8	5.3
30°-40°	523.4	8.4
40°-50°	844.4	13.5
50°-60°	1373.9	22.0
60°-70°	1991.7	31.9
70°-80°	883.4	14.2
80°-90°	34.8	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°	6240.0	100.0
0°-180°	6240.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450654

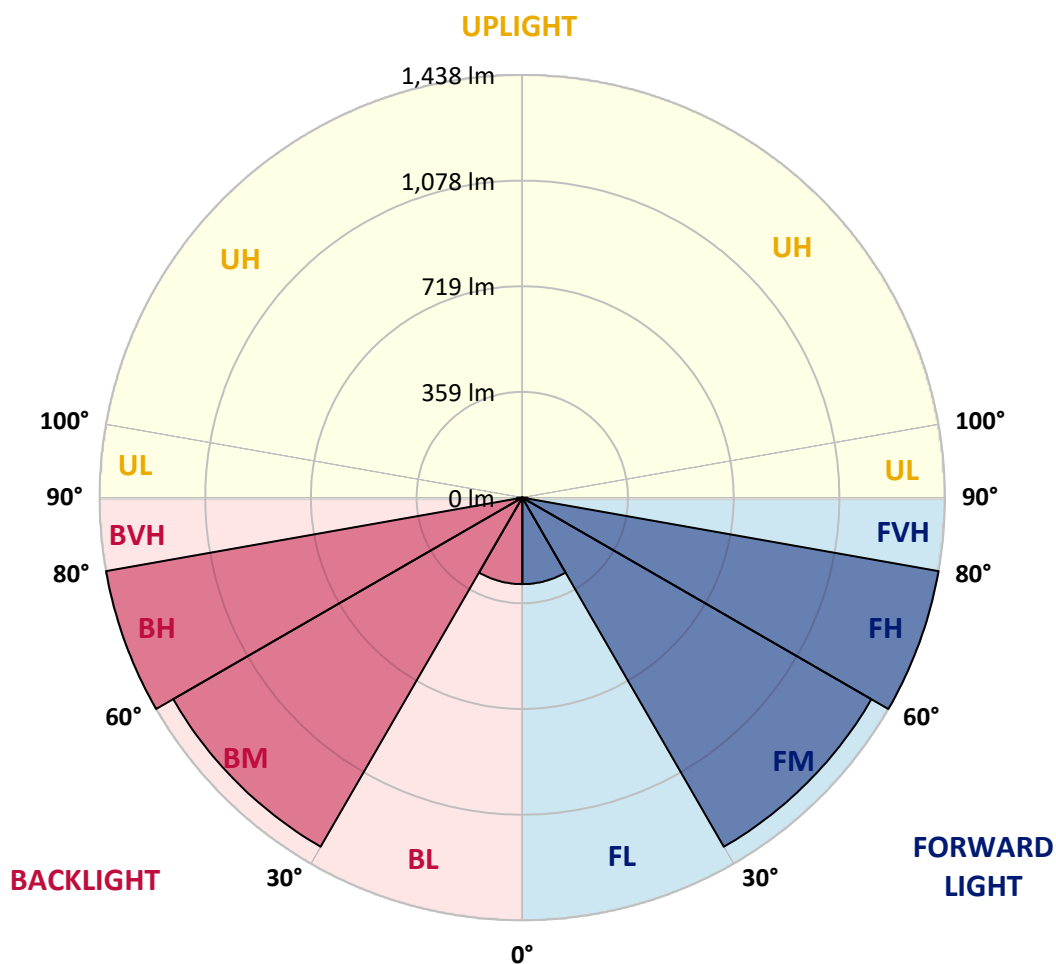
CATALOG NUMBER: GALN-SA1C-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.2	4.7			
FM (30°-60°)	1370.9	22.0			
FH (60°-80°)	1437.5	23.0			G1/1800
FVH (80°-90°)	17.4	0.3			G1/100
BL (0°-30°)	294.2	4.7	B1/500		
BM (30°-60°)	1370.9	22.0	B2/2500		
BH (60°-80°)	1437.5	23.0	B3/2500		G1/1800
BVH (80°-90°)	17.4	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-G1**

Type V Short





REPORT NUMBER: P450654

CATALOG NUMBER: GALN-SA1C-727-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	692.9	693.6	692.6	691.9	691.6	691.6	691.3	691.6	693.6	693.9	692.9
5°	690.9	691.6	691.3	690.6	690.3	690.3	690.0	689.6	691.3	691.9	691.6
7.5°	688.3	688.6	688.3	688.0	688.3	688.0	687.0	686.3	687.7	687.7	687.3
10°	683.7	684.4	684.0	684.4	685.0	685.0	683.7	682.4	682.7	682.1	682.1
12.5°	678.1	679.1	679.4	680.8	682.4	684.4	681.4	678.5	677.8	677.5	677.1
15°	674.5	675.5	676.8	678.1	681.1	685.4	681.1	676.5	675.2	673.8	673.2
17.5°	673.5	674.8	676.8	678.8	682.7	687.0	683.4	678.8	675.5	673.5	672.9
20°	676.2	677.1	680.1	683.7	689.3	693.6	690.0	685.0	680.1	677.1	676.2
22.5°	681.4	683.1	686.7	693.3	701.1	707.4	702.5	694.2	686.3	682.4	681.1
25°	692.9	694.2	698.5	707.4	716.6	722.5	717.3	707.7	696.9	691.6	690.0
27.5°	710.4	712.3	716.9	727.5	735.0	738.3	734.7	728.1	720.2	714.6	713.3
30°	735.0	737.3	744.2	755.4	760.3	762.3	760.7	756.4	750.8	744.9	743.6
32.5°	768.2	769.5	777.4	788.0	792.6	793.2	791.3	789.3	780.1	770.2	769.5
35°	805.4	807.7	817.2	829.7	834.0	834.3	830.4	827.4	816.6	808.7	808.7
37.5°	854.7	855.7	864.9	879.1	883.7	882.3	880.4	877.7	866.2	856.0	856.4
40°	912.6	914.6	922.5	938.9	938.9	937.3	938.6	936.6	925.1	915.2	915.6
42.5°	981.3	982.3	991.9	1009.3	1008.0	1004.7	1006.0	1003.4	996.1	985.0	981.0
45°	1054.7	1058.6	1075.1	1091.8	1089.2	1078.7	1083.9	1083.3	1076.7	1059.9	1060.9
47.5°	1143.1	1149.7	1165.5	1185.6	1182.6	1166.2	1172.1	1176.0	1166.8	1148.4	1145.1
50°	1242.8	1247.1	1270.4	1289.2	1286.5	1269.1	1282.6	1283.2	1260.2	1234.2	1234.2
52.5°	1349.0	1353.3	1384.9	1414.1	1415.8	1390.4	1401.3	1400.6	1363.2	1329.0	1322.4
55°	1468.1	1470.0	1510.8	1553.9	1563.1	1538.4	1539.8	1526.6	1477.9	1438.1	1434.5
57.5°	1591.1	1598.3	1643.3	1699.3	1726.6	1711.4	1704.5	1669.3	1622.3	1576.6	1574.3
60°	1727.2	1727.5	1786.1	1852.2	1907.4	1917.6	1889.3	1842.3	1781.5	1721.0	1718.3
62.5°	1821.6	1835.7	1909.7	2021.5	2120.5	2177.8	2103.1	2004.4	1884.7	1787.1	1777.2
65°	1841.0	1850.5	1963.3	2152.8	2355.0	2478.3	2305.7	2095.9	1891.6	1761.4	1754.8
67.5°	1684.1	1694.3	1846.3	2137.0	2519.4	2772.3	2437.2	2051.8	1774.6	1613.4	1600.6
70°	1302.6	1314.2	1501.9	1881.1	2482.9	2864.8	2343.5	1789.7	1463.5	1289.5	1266.1
72.5°	692.6	735.0	895.5	1291.1	2015.3	2466.5	1921.6	1305.9	943.8	771.5	740.6
75°	252.9	258.2	347.6	572.6	1172.4	1691.4	1217.5	622.9	358.1	276.6	262.4
77.5°	104.6	104.3	114.4	173.0	425.9	866.2	475.2	182.9	114.1	105.6	104.3
80°	61.8	61.8	68.1	72.0	112.1	261.4	125.3	81.6	68.4	62.5	63.5
82.5°	27.6	29.3	43.1	45.4	54.3	71.7	60.5	52.0	44.7	30.9	28.0
85°	15.1	13.2	22.7	23.7	26.0	26.6	28.6	28.3	26.0	15.1	15.5
87.5°	3.0	3.6	6.6	4.9	5.6	4.9	6.6	9.2	9.5	5.3	4.3
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)