

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: P452046

Luminaire Tested: **GALN-SA3A-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452046  
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-SA3A-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11974 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

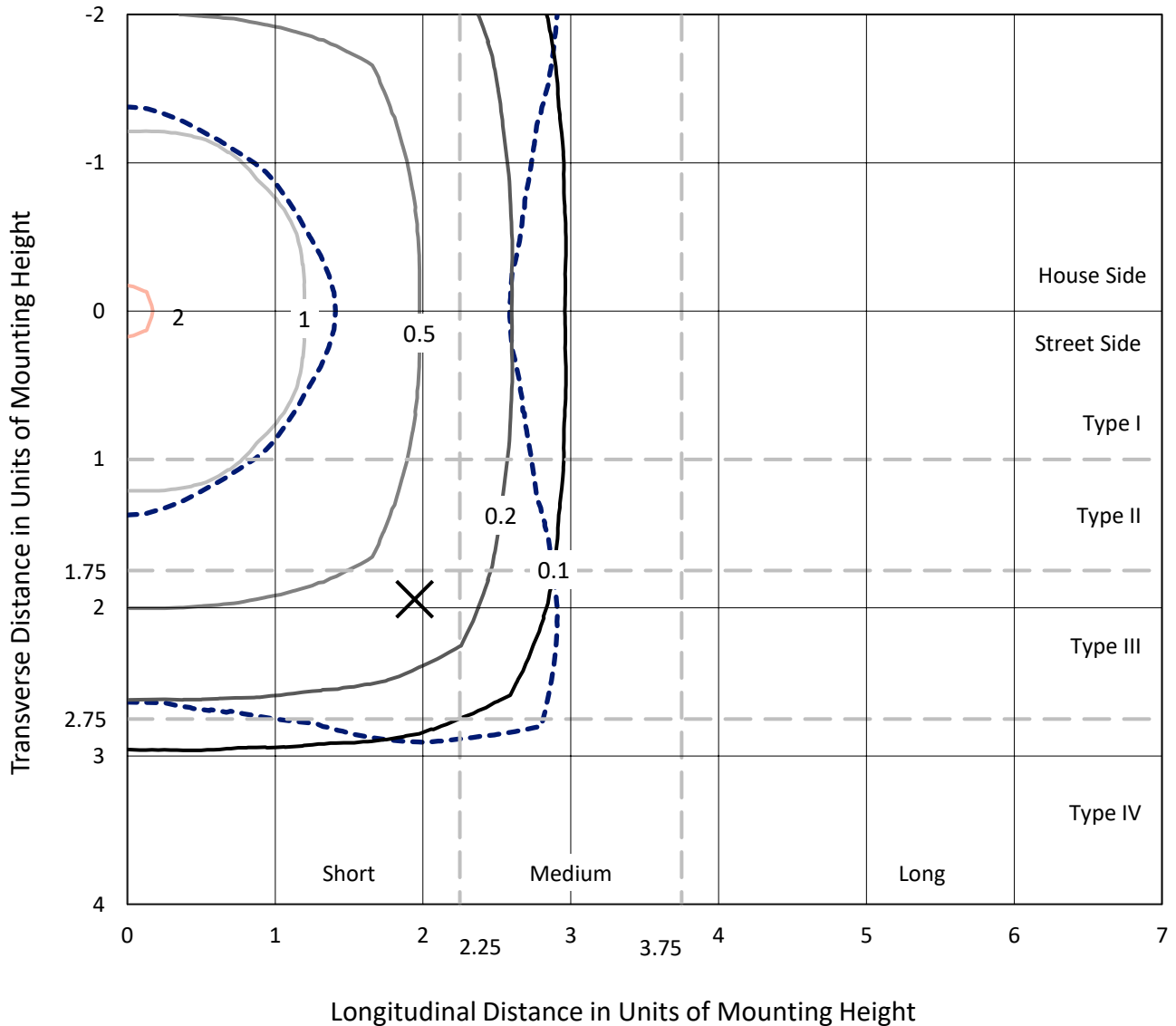
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452046  
 CATALOG NUMBER: GALN-SA3A-727-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

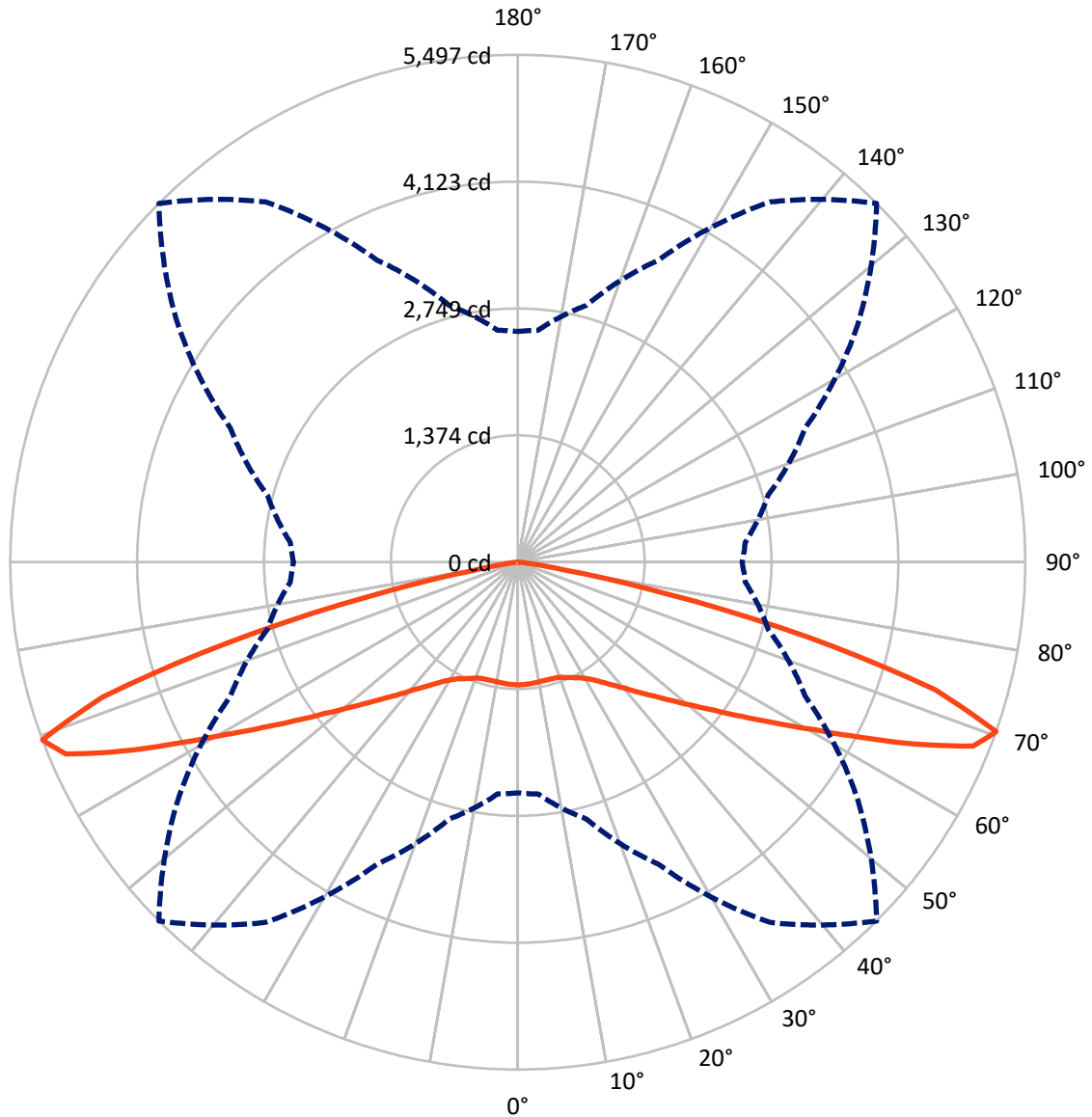
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P452046  
CATALOG NUMBER: GALN-SA3A-727-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P452046

CATALOG NUMBER: GALN-SA3A-727-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5987.0	0.0	5987.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5987.0	0.0	5987.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11974.0	0.0	11974.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	1.1
10°-20°	370.0	3.1
20°-30°	632.8	5.3
30°-40°	1004.4	8.4
40°-50°	1620.4	13.5
50°-60°	2636.4	22.0
60°-70°	3821.8	31.9
70°-80°	1695.2	14.2
80°-90°	66.9	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°	11974.0	100.0
0°-180°	11974.0	100.0



REPORT NUMBER: P452046

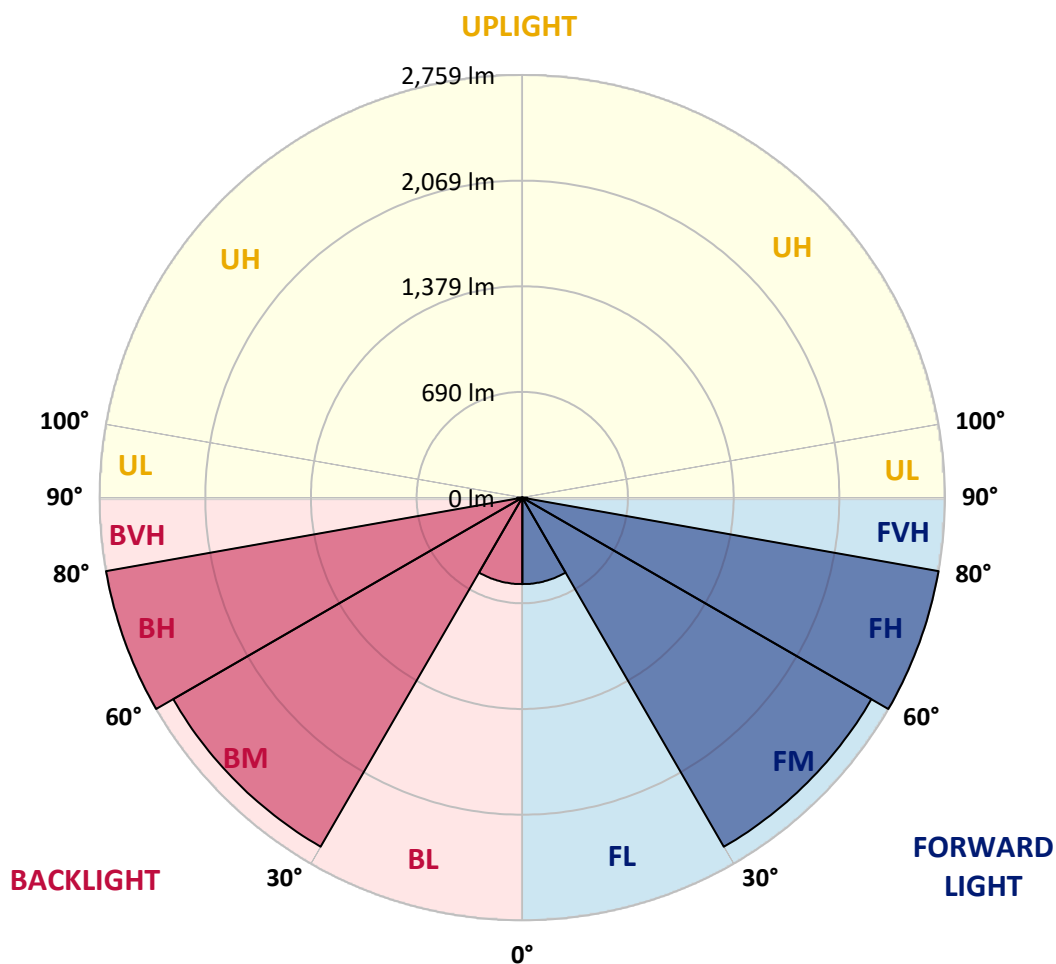
CATALOG NUMBER: GALN-SA3A-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.5	4.7			
FM (30°-60°)	2630.6	22.0			
FH (60°-80°)	2758.5	23.0			G2/5000
FVH (80°-90°)	33.4	0.3			G1/100
BL (0°-30°)	564.5	4.7	B2/1000		
BM (30°-60°)	2630.6	22.0	B3/5000		
BH (60°-80°)	2758.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P452046

CATALOG NUMBER: GALN-SA3A-727-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7	1329.7
2.5°	1329.7	1330.9	1329.0	1327.8	1327.1	1327.1	1326.5	1327.1	1330.9	1331.5	1329.7
5°	1325.9	1327.1	1326.5	1325.2	1324.6	1324.6	1324.0	1323.3	1326.5	1327.8	1327.1
7.5°	1320.8	1321.5	1320.8	1320.2	1320.8	1320.2	1318.3	1317.0	1319.6	1319.6	1318.9
10°	1312.0	1313.2	1312.6	1313.2	1314.5	1314.5	1312.0	1309.5	1310.1	1308.8	1308.8
12.5°	1301.3	1303.2	1303.8	1306.3	1309.5	1313.2	1307.6	1301.9	1300.6	1300.0	1299.4
15°	1294.3	1296.2	1298.7	1301.3	1306.9	1315.1	1306.9	1298.1	1295.6	1293.1	1291.8
17.5°	1292.4	1294.9	1298.7	1302.5	1310.1	1318.3	1311.4	1302.5	1296.2	1292.4	1291.2
20°	1297.5	1299.4	1305.0	1312.0	1322.7	1330.9	1324.0	1314.5	1305.0	1299.4	1297.5
22.5°	1307.6	1310.7	1317.7	1330.3	1345.4	1357.4	1348.0	1332.2	1317.0	1309.5	1306.9
25°	1329.7	1332.2	1340.4	1357.4	1375.1	1386.5	1376.4	1358.1	1337.2	1327.1	1324.0
27.5°	1363.1	1366.9	1375.7	1395.9	1410.4	1416.7	1409.8	1397.2	1382.0	1371.3	1368.8
30°	1410.4	1414.9	1428.1	1449.6	1459.0	1462.8	1459.7	1451.5	1440.7	1429.4	1426.8
32.5°	1474.2	1476.7	1491.8	1512.0	1520.9	1522.1	1518.3	1514.6	1496.9	1478.0	1476.7
35°	1545.5	1549.9	1568.2	1592.2	1600.4	1601.0	1593.4	1587.8	1566.9	1551.8	1551.8
37.5°	1640.1	1642.0	1659.7	1686.8	1695.7	1693.2	1689.4	1684.3	1662.2	1642.7	1643.3
40°	1751.2	1755.0	1770.1	1801.7	1801.7	1798.5	1801.1	1797.3	1775.2	1756.3	1756.9
42.5°	1883.1	1885.0	1903.3	1936.7	1934.2	1927.9	1930.4	1925.4	1911.5	1890.0	1882.5
45°	2023.8	2031.4	2063.0	2095.1	2090.1	2069.9	2080.0	2078.7	2066.1	2033.9	2035.8
47.5°	2193.6	2206.2	2236.5	2275.0	2269.3	2237.8	2249.1	2256.7	2239.0	2203.7	2197.4
50°	2384.8	2393.0	2437.8	2473.8	2468.7	2435.3	2461.2	2462.4	2418.2	2368.4	2368.4
52.5°	2588.6	2596.8	2657.4	2713.6	2716.7	2668.1	2689.0	2687.7	2615.8	2550.1	2537.5
55°	2817.1	2820.9	2899.1	2981.8	2999.5	2952.1	2954.7	2929.4	2836.0	2759.7	2752.7
57.5°	3053.1	3067.0	3153.4	3260.7	3313.1	3284.1	3270.8	3203.3	3113.0	3025.3	3020.9
60°	3314.4	3315.0	3427.3	3554.2	3660.2	3679.7	3625.5	3535.2	3418.5	3302.4	3297.3
62.5°	3495.5	3522.6	3664.6	3879.2	4069.1	4178.9	4035.7	3846.3	3616.6	3429.2	3410.3
65°	3532.7	3551.0	3767.5	4131.0	4519.1	4755.7	4424.4	4021.8	3629.9	3380.0	3367.4
67.5°	3231.7	3251.3	3542.8	4100.7	4834.6	5319.9	4676.8	3937.2	3405.2	3096.0	3071.4
70°	2499.7	2521.7	2882.1	3609.7	4764.5	5497.2	4497.0	3434.3	2808.2	2474.4	2429.6
72.5°	1329.0	1410.4	1718.4	2477.6	3867.2	4733.0	3687.3	2506.0	1811.2	1480.5	1421.2
75°	485.3	495.4	667.0	1098.7	2249.8	3245.6	2336.2	1195.2	687.2	530.7	503.6
77.5°	200.7	200.0	219.6	331.9	817.2	1662.2	911.9	350.9	219.0	202.6	200.0
80°	118.6	118.6	130.6	138.2	215.2	501.7	240.4	156.5	131.3	119.9	121.8
82.5°	53.0	56.2	82.7	87.1	104.1	137.6	116.1	99.7	85.8	59.3	53.6
85°	29.0	25.2	43.5	45.4	49.9	51.1	54.9	54.3	49.9	29.0	29.7
87.5°	5.7	6.9	12.6	9.5	10.7	9.5	12.6	17.7	18.3	10.1	8.2
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)