

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: P458747

Luminaire Tested: **GALN-SA3A-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458747  
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-SA3A-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13310 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

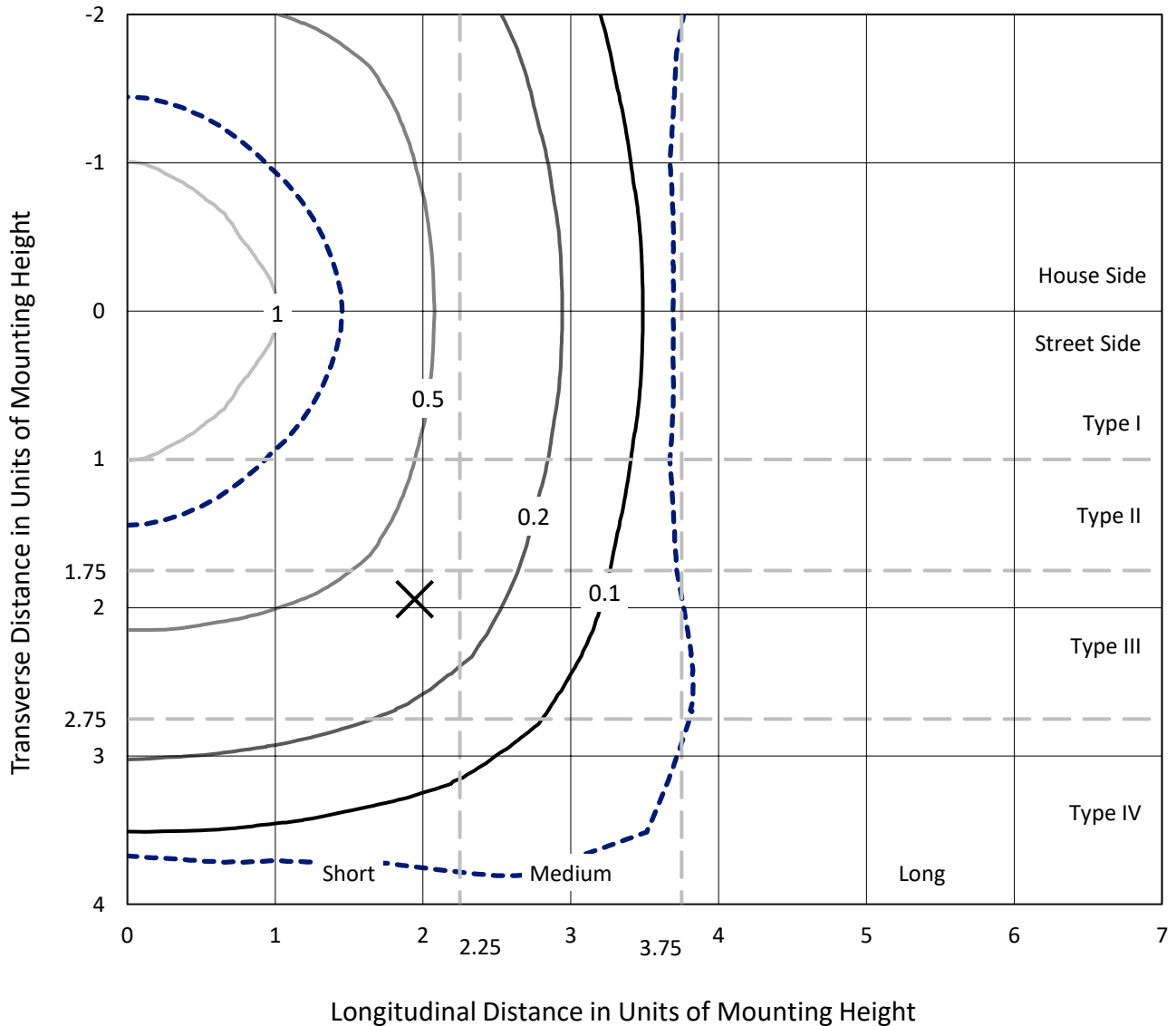
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458747  
 CATALOG NUMBER: GALN-SA3A-735-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

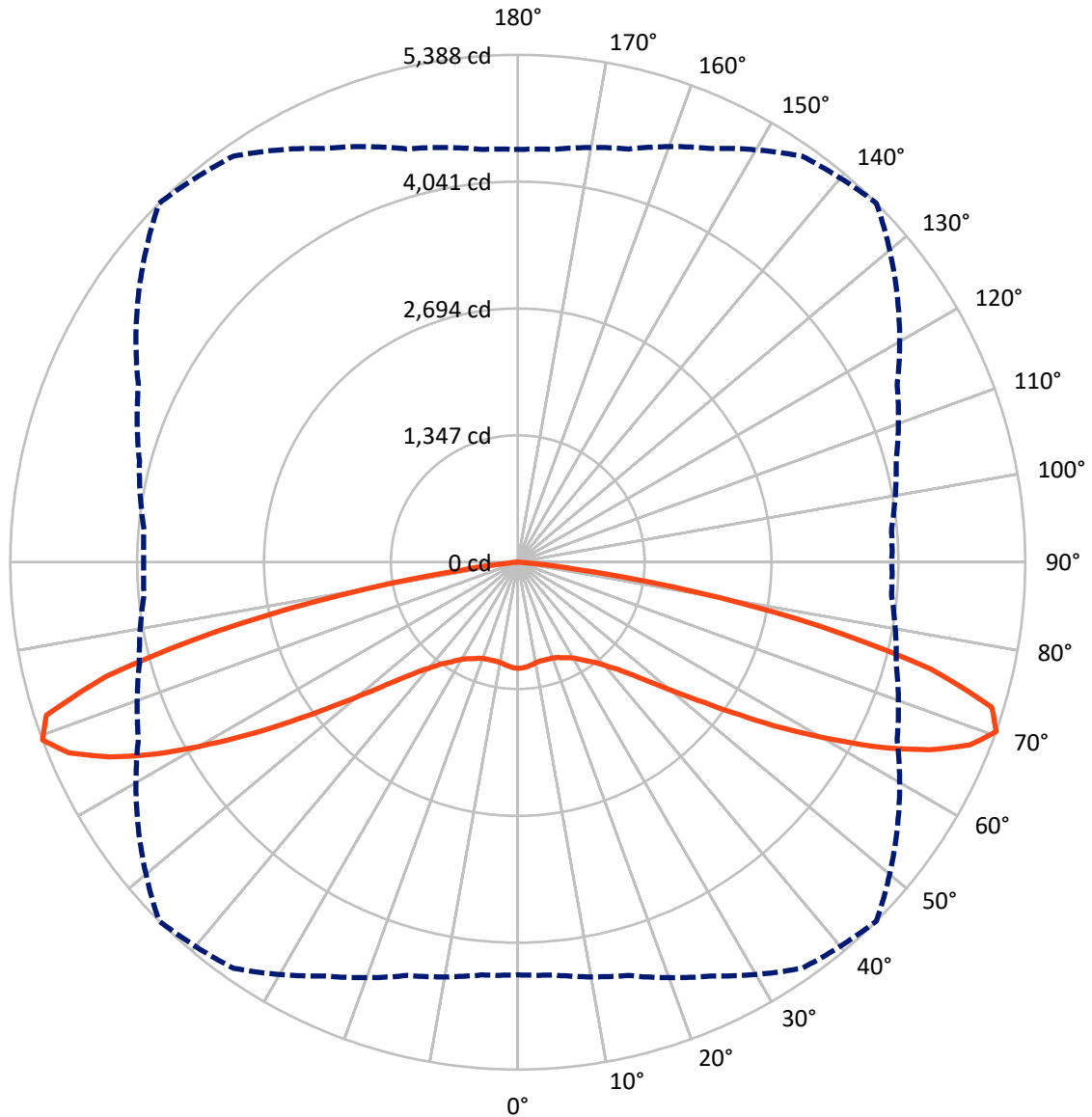
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P458747  
CATALOG NUMBER: GALN-SA3A-735-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458747

CATALOG NUMBER: GALN-SA3A-735-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6655.0	0.0	6655.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6655.0	0.0	6655.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13310.0	0.0	13310.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	0.8
10°-20°	308.5	2.3
20°-30°	525.6	3.9
30°-40°	814.7	6.1
40°-50°	1371.3	10.3
50°-60°	2495.0	18.7
60°-70°	4224.0	31.7
70°-80°	3269.5	24.6
80°-90°	195.9	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°	13310.0	100.0
0°-180°	13310.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458747

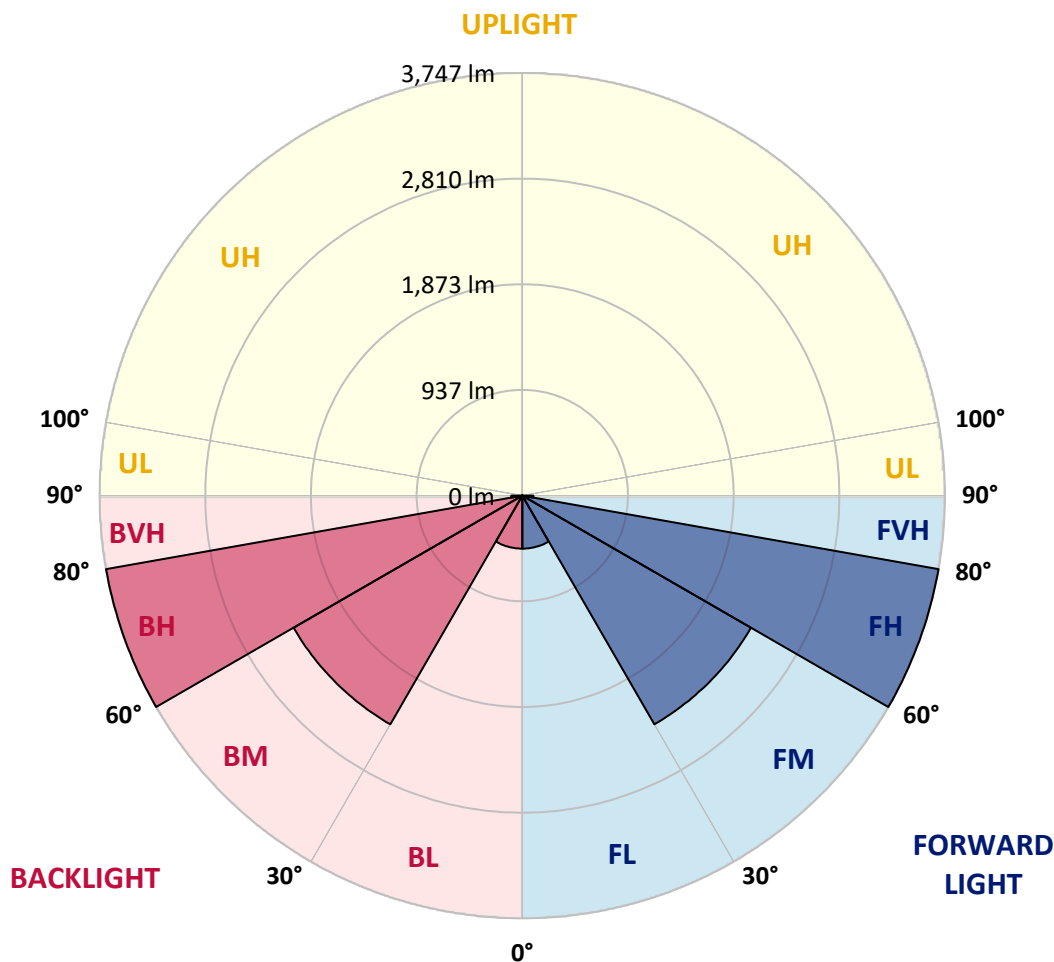
CATALOG NUMBER: GALN-SA3A-735-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.8	3.5			
FM (30°-60°)	2340.5	17.6			
FH (60°-80°)	3746.8	28.1			G2/5000
FVH (80°-90°)	98.0	0.7			G1/100
BL (0°-30°)	469.8	3.5	B1/500		
BM (30°-60°)	2340.5	17.6	B2/2500		
BH (60°-80°)	3746.8	28.1	B4/5000		G2/5000
BVH (80°-90°)	98.0	0.7			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: P458747

CATALOG NUMBER: GALN-SA3A-735-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9	1126.9
2.5°	1124.0	1124.7	1124.7	1123.3	1122.6	1122.6	1121.9	1121.9	1124.0	1124.7	1125.4
5°	1114.2	1114.2	1114.2	1113.5	1112.1	1112.1	1110.7	1110.7	1111.4	1113.5	1112.1
7.5°	1100.8	1102.3	1102.3	1099.4	1097.3	1097.3	1096.6	1097.3	1098.0	1100.1	1099.4
10°	1096.6	1097.3	1093.8	1088.9	1085.4	1083.3	1084.0	1085.4	1088.9	1090.3	1091.0
12.5°	1099.4	1099.4	1093.1	1086.1	1079.8	1076.9	1076.2	1081.2	1087.5	1091.7	1093.1
15°	1103.0	1101.5	1093.8	1084.7	1078.3	1077.6	1076.9	1080.5	1089.6	1098.0	1098.7
17.5°	1105.1	1104.4	1094.5	1083.3	1079.8	1079.8	1079.1	1081.9	1091.7	1102.3	1103.0
20°	1112.1	1110.0	1098.7	1086.8	1084.0	1085.4	1083.3	1086.8	1097.3	1110.0	1112.8
22.5°	1126.2	1124.0	1112.8	1100.8	1099.4	1099.4	1098.7	1102.3	1113.5	1126.9	1129.0
25°	1143.0	1140.9	1130.4	1121.9	1123.3	1126.2	1124.7	1125.4	1134.6	1145.8	1149.3
27.5°	1165.5	1162.0	1152.9	1145.8	1150.1	1150.1	1150.1	1149.3	1155.0	1165.5	1169.0
30°	1192.9	1191.5	1181.7	1181.0	1184.5	1181.0	1181.0	1181.7	1182.4	1192.2	1195.7
32.5°	1228.8	1226.0	1221.1	1219.6	1229.5	1232.3	1222.5	1213.3	1218.2	1228.1	1230.2
35°	1287.8	1283.6	1276.6	1268.9	1276.6	1289.9	1268.9	1261.8	1274.5	1287.8	1289.2
37.5°	1368.0	1365.9	1354.6	1340.6	1339.9	1353.9	1332.1	1331.4	1355.3	1371.5	1373.6
40°	1468.5	1470.6	1456.5	1443.2	1436.2	1447.4	1430.5	1436.9	1460.1	1478.3	1476.9
42.5°	1609.8	1602.1	1580.3	1567.6	1559.9	1555.7	1551.4	1561.3	1587.3	1607.0	1622.4
45°	1775.0	1772.2	1744.8	1729.3	1712.4	1706.1	1704.7	1722.3	1753.9	1777.8	1779.9
47.5°	1962.0	1955.7	1938.1	1921.9	1915.6	1907.8	1900.8	1914.2	1945.8	1962.7	1967.6
50°	2154.6	2156.0	2156.0	2153.2	2159.5	2160.9	2141.9	2146.9	2164.4	2163.0	2161.6
52.5°	2374.6	2382.4	2418.9	2422.4	2452.6	2473.0	2438.6	2418.2	2411.9	2373.9	2376.7
55°	2633.3	2640.3	2695.2	2750.0	2831.5	2866.0	2793.6	2730.3	2685.3	2627.7	2630.5
57.5°	2956.0	2959.5	3011.5	3117.0	3246.3	3327.1	3199.9	3074.8	2983.4	2928.6	2906.8
60°	3303.2	3306.8	3382.7	3511.3	3712.4	3810.8	3653.3	3448.8	3333.5	3249.8	3255.4
62.5°	3720.1	3734.2	3802.3	3979.5	4223.4	4333.8	4125.0	3851.6	3695.5	3591.5	3595.7
65°	4166.5	4190.4	4264.9	4459.6	4684.6	4803.4	4547.5	4231.9	4037.8	3910.6	3924.0
67.5°	4456.1	4477.2	4584.7	4799.9	5080.3	5178.8	4848.4	4480.7	4238.2	4086.3	4058.2
70°	4382.3	4399.9	4543.3	4848.4	5263.8	5388.2	4920.1	4444.2	4158.7	3983.7	3972.5
72.5°	3868.4	3831.9	4041.4	4479.3	5054.3	5263.1	4694.4	4058.9	3699.7	3519.8	3498.7
75°	2563.7	2643.2	2952.5	3468.4	4276.1	4534.8	4006.9	3259.0	2806.9	2657.2	2634.0
77.5°	856.9	918.1	1192.9	1966.2	2915.2	3303.9	2919.4	2131.4	1507.9	1214.7	1220.3
80°	227.1	224.2	290.3	540.6	1259.7	1913.5	1466.4	721.9	395.1	286.1	271.3
82.5°	81.5	91.4	117.4	149.7	333.9	594.7	419.7	202.5	148.3	109.7	106.1
85°	35.9	35.1	50.6	59.8	83.7	111.1	98.4	85.8	75.2	49.9	46.4
87.5°	7.7	7.7	12.0	9.1	14.8	14.8	18.3	21.8	22.5	14.8	12.0
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)