

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: P453121

Luminaire Tested: **GALN-SA4A-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453121  
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-SA4A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 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: 13919 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

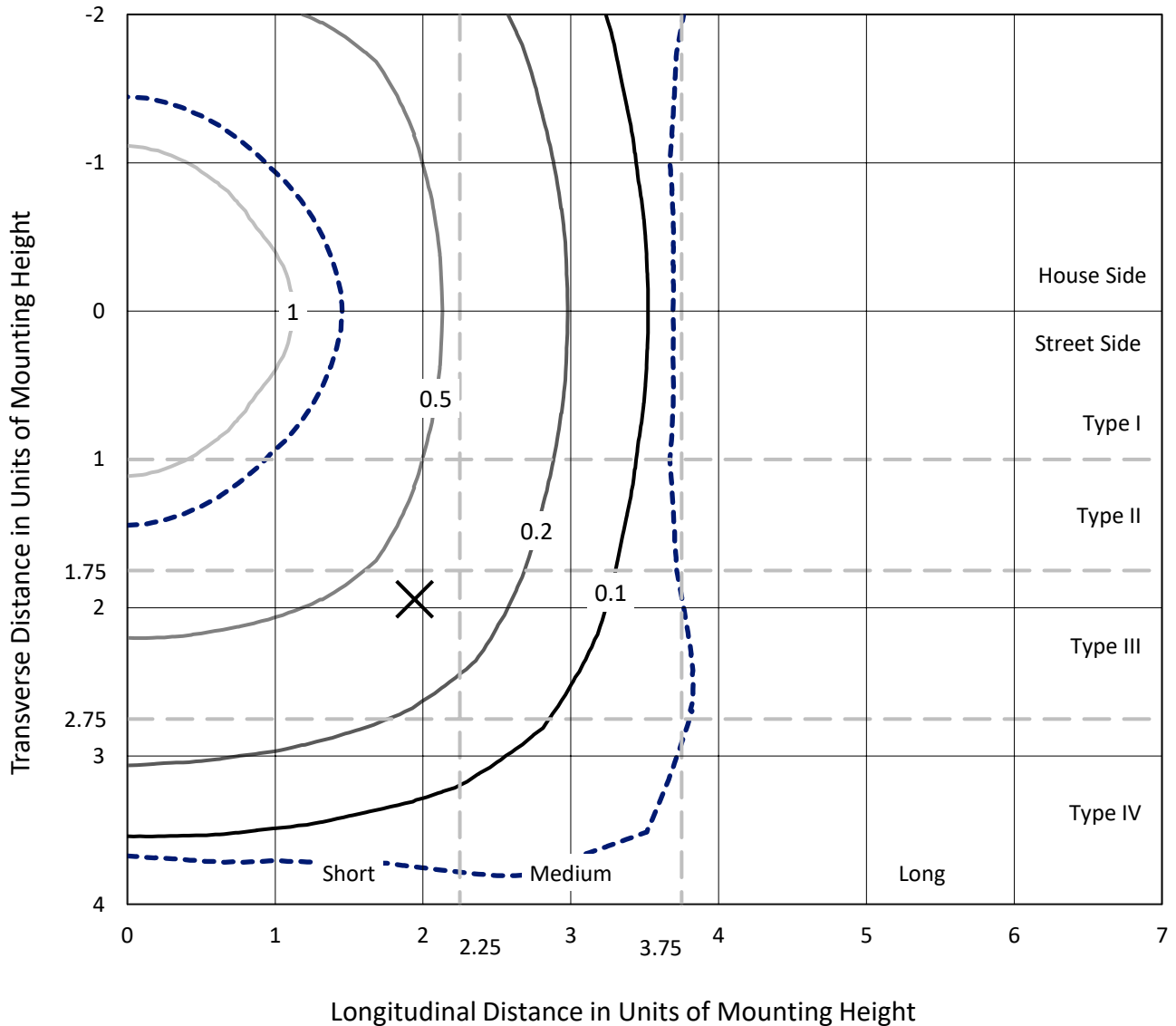
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

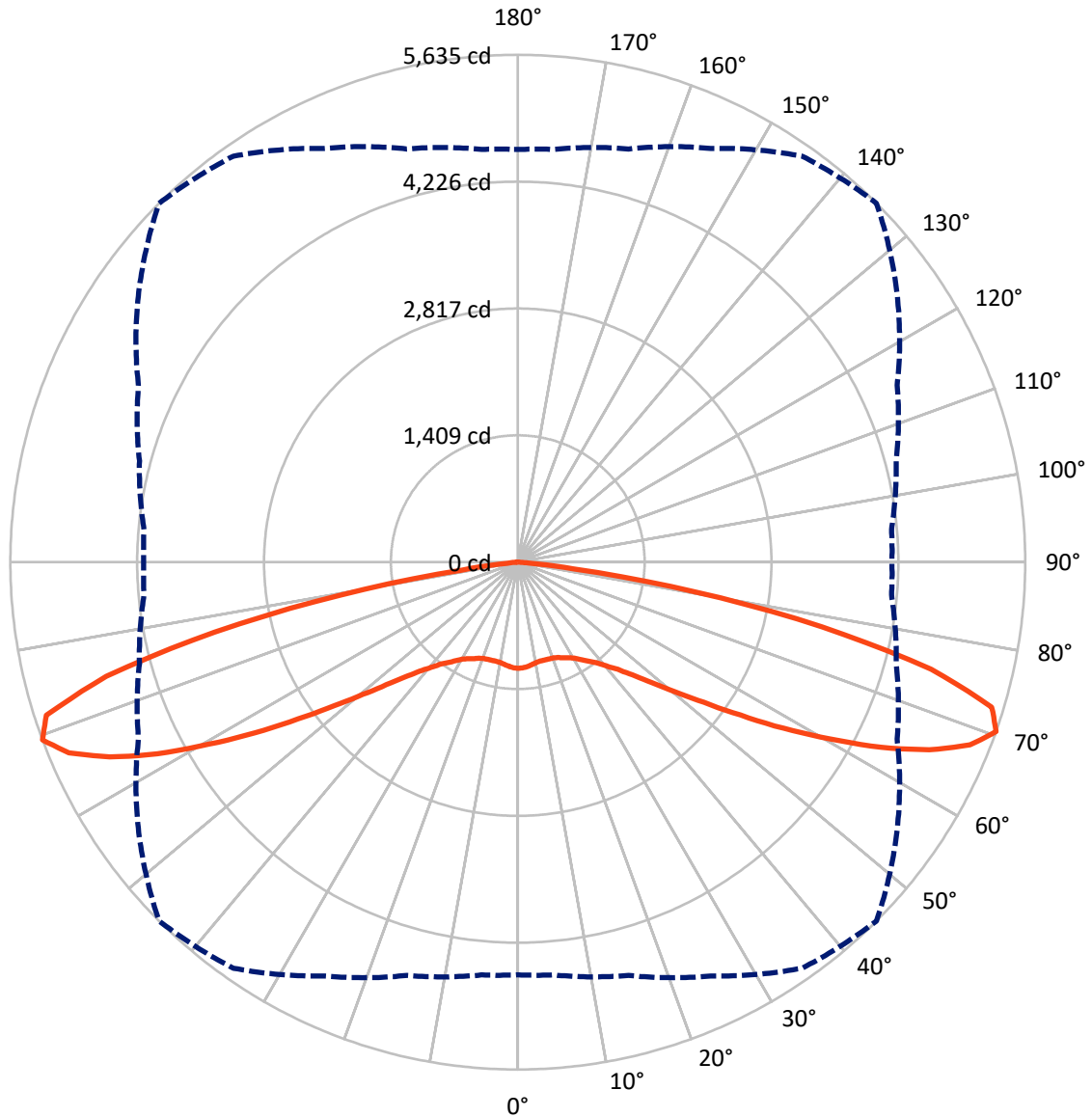
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	6959.5	0.0	6959.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6959.5	0.0	6959.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13919.0	0.0	13919.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	0.8
10°-20°	322.6	2.3
20°-30°	549.7	3.9
30°-40°	852.0	6.1
40°-50°	1434.0	10.3
50°-60°	2609.2	18.7
60°-70°	4417.3	31.7
70°-80°	3419.1	24.6
80°-90°	204.9	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°	13919.0	100.0
0°-180°	13919.0	100.0



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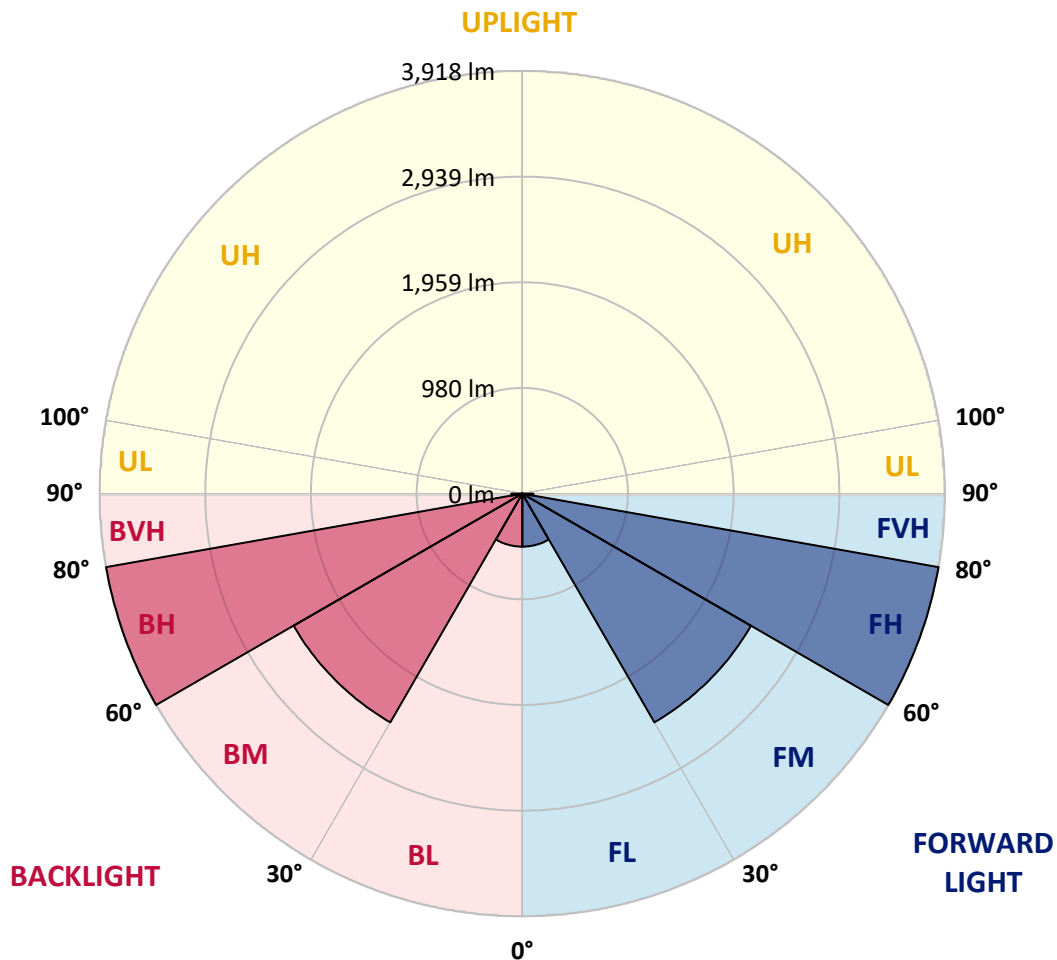
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.3	3.5			
FM (30°-60°)	2447.6	17.6			
FH (60°-80°)	3918.2	28.1			G2/5000
FVH (80°-90°)	102.4	0.7			G2/225
BL (0°-30°)	491.3	3.5	B1/500		
BM (30°-60°)	2447.6	17.6	B2/2500		
BH (60°-80°)	3918.2	28.1	B4/5000		G2/5000
BVH (80°-90°)	102.4	0.7			G2/225
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4
2.5°	1175.5	1176.2	1176.2	1174.7	1174.0	1174.0	1173.3	1173.3	1175.5	1176.2	1176.9
5°	1165.2	1165.2	1165.2	1164.4	1163.0	1163.0	1161.5	1161.5	1162.2	1164.4	1163.0
7.5°	1151.2	1152.7	1152.7	1149.7	1147.5	1147.5	1146.8	1147.5	1148.3	1150.5	1149.7
10°	1146.8	1147.5	1143.9	1138.7	1135.0	1132.8	1133.6	1135.0	1138.7	1140.2	1140.9
12.5°	1149.7	1149.7	1143.1	1135.8	1129.2	1126.2	1125.5	1130.6	1137.2	1141.7	1143.1
15°	1153.4	1151.9	1143.9	1134.3	1127.7	1127.0	1126.2	1129.9	1139.5	1148.3	1149.0
17.5°	1155.6	1154.9	1144.6	1132.8	1129.2	1129.2	1128.4	1131.4	1141.7	1152.7	1153.4
20°	1163.0	1160.8	1149.0	1136.5	1133.6	1135.0	1132.8	1136.5	1147.5	1160.8	1163.7
22.5°	1177.7	1175.5	1163.7	1151.2	1149.7	1149.7	1149.0	1152.7	1164.4	1178.4	1180.6
25°	1195.3	1193.1	1182.1	1173.3	1174.7	1177.7	1176.2	1176.9	1186.5	1198.3	1201.9
27.5°	1218.8	1215.2	1205.6	1198.3	1202.7	1202.7	1202.7	1201.9	1207.8	1218.8	1222.5
30°	1247.5	1246.0	1235.8	1235.0	1238.7	1235.0	1235.0	1235.8	1236.5	1246.8	1250.5
32.5°	1285.0	1282.1	1276.9	1275.5	1285.7	1288.7	1278.4	1268.8	1274.0	1284.3	1286.5
35°	1346.8	1342.3	1335.0	1326.9	1335.0	1349.0	1326.9	1319.6	1332.8	1346.8	1348.2
37.5°	1430.6	1428.4	1416.6	1401.9	1401.2	1415.9	1393.1	1392.3	1417.3	1434.2	1436.4
40°	1535.7	1537.9	1523.2	1509.2	1501.9	1513.6	1496.0	1502.6	1526.9	1546.0	1544.5
42.5°	1683.4	1675.4	1652.6	1639.3	1631.3	1626.8	1622.4	1632.7	1659.9	1680.5	1696.7
45°	1856.2	1853.3	1824.6	1808.4	1790.8	1784.2	1782.7	1801.1	1834.1	1859.1	1861.3
47.5°	2051.7	2045.1	2026.8	2009.8	2003.2	1995.1	1987.8	2001.8	2034.8	2052.5	2057.6
50°	2253.2	2254.6	2254.6	2251.7	2258.3	2259.8	2239.9	2245.1	2263.5	2262.0	2260.5
52.5°	2483.3	2491.4	2529.6	2533.3	2564.9	2586.2	2550.2	2528.8	2522.2	2482.5	2485.5
55°	2753.8	2761.1	2818.5	2875.8	2961.1	2997.1	2921.4	2855.2	2808.2	2747.9	2750.9
57.5°	3091.2	3094.9	3149.3	3259.6	3394.8	3479.4	3346.3	3215.5	3119.9	3062.6	3039.8
60°	3454.4	3458.1	3537.4	3672.0	3882.2	3985.1	3820.5	3606.5	3486.0	3398.5	3404.4
62.5°	3890.3	3905.0	3976.3	4161.6	4416.7	4532.1	4313.7	4027.8	3864.6	3755.8	3760.2
65°	4357.1	4382.1	4460.0	4663.7	4898.9	5023.1	4755.6	4425.5	4222.6	4089.5	4103.5
67.5°	4660.0	4682.0	4794.5	5019.5	5312.8	5415.7	5070.2	4685.7	4432.1	4273.3	4243.9
70°	4582.8	4601.2	4751.1	5070.2	5504.7	5634.8	5145.2	4647.5	4349.0	4166.0	4154.2
72.5°	4045.4	4007.2	4226.3	4684.2	5285.6	5503.9	4909.2	4244.6	3869.0	3680.8	3658.7
75°	2681.0	2764.1	3087.5	3627.1	4471.8	4742.3	4190.2	3408.1	2935.4	2778.8	2754.5
77.5°	896.1	960.1	1247.5	2056.2	3048.6	3455.1	3053.0	2228.9	1576.9	1270.3	1276.2
80°	237.4	234.5	303.6	565.3	1317.4	2001.0	1533.5	755.0	413.1	299.2	283.8
82.5°	85.3	95.6	122.8	156.6	349.2	621.9	438.9	211.7	155.1	114.7	111.0
85°	37.5	36.8	52.9	62.5	87.5	116.2	102.9	89.7	78.7	52.2	48.5
87.5°	8.1	8.1	12.5	9.6	15.4	15.4	19.1	22.8	23.5	15.4	12.5
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)