

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: P647864

Luminaire Tested: **GALN-SA4A-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7389.2 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

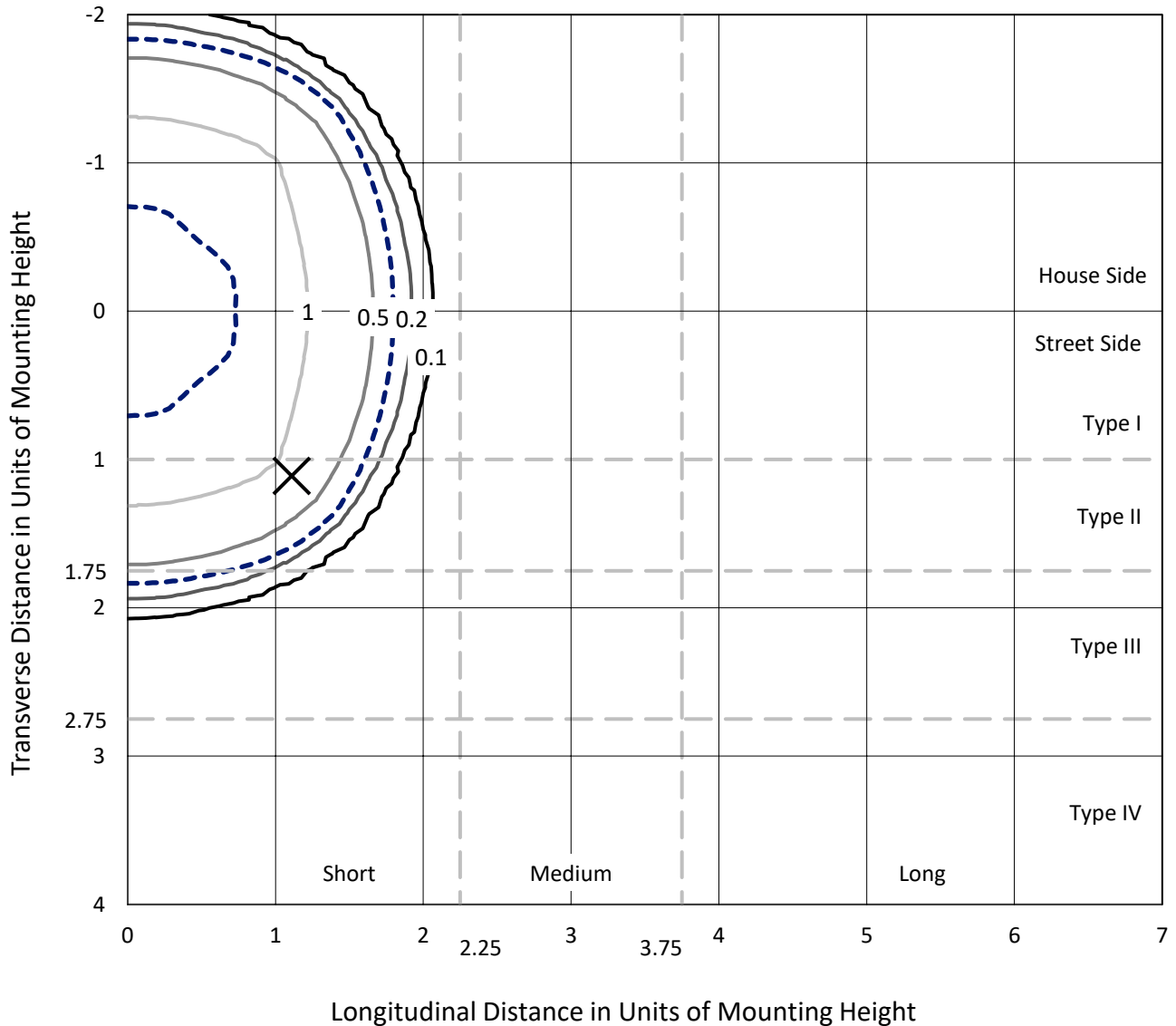
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

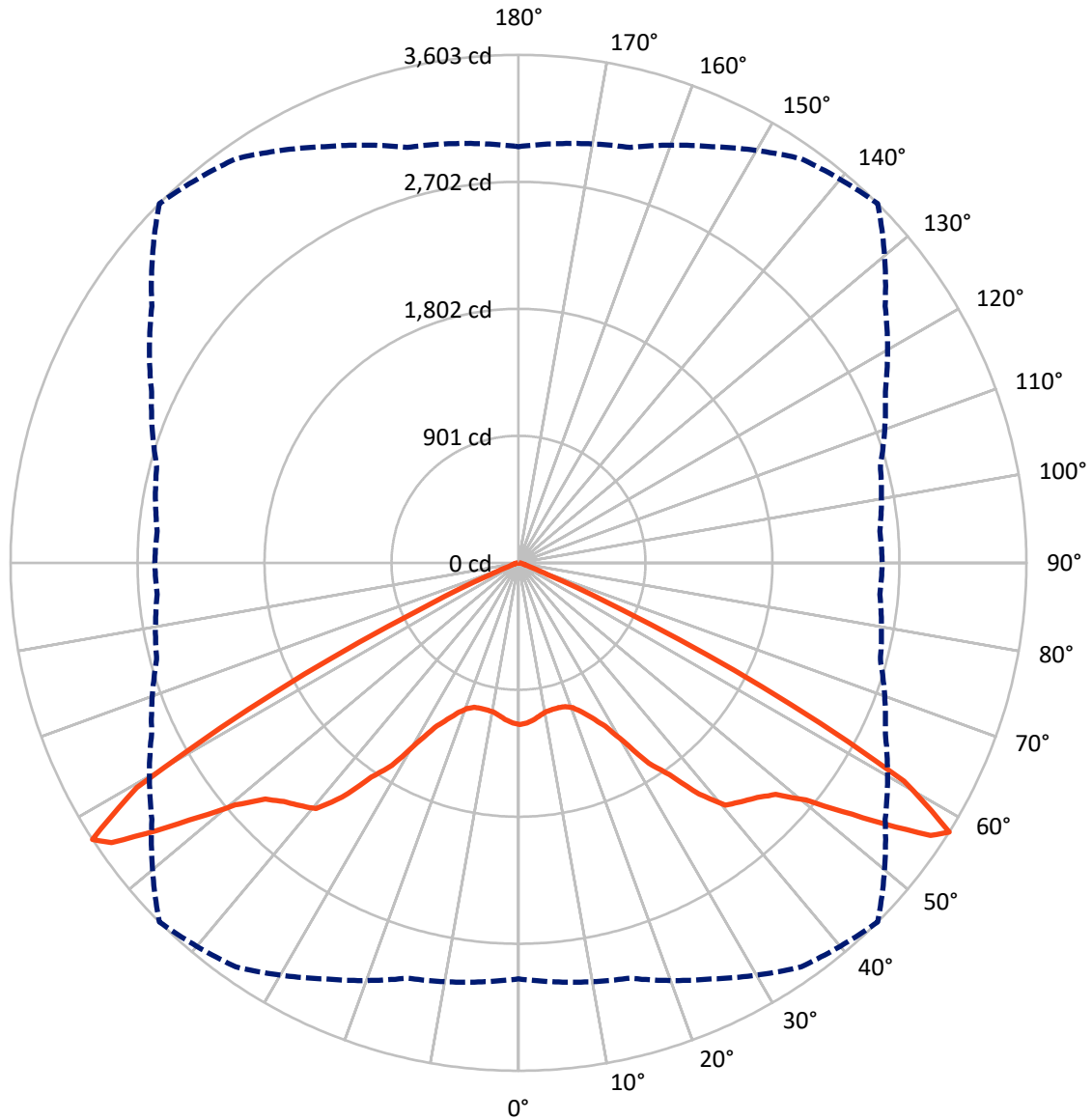
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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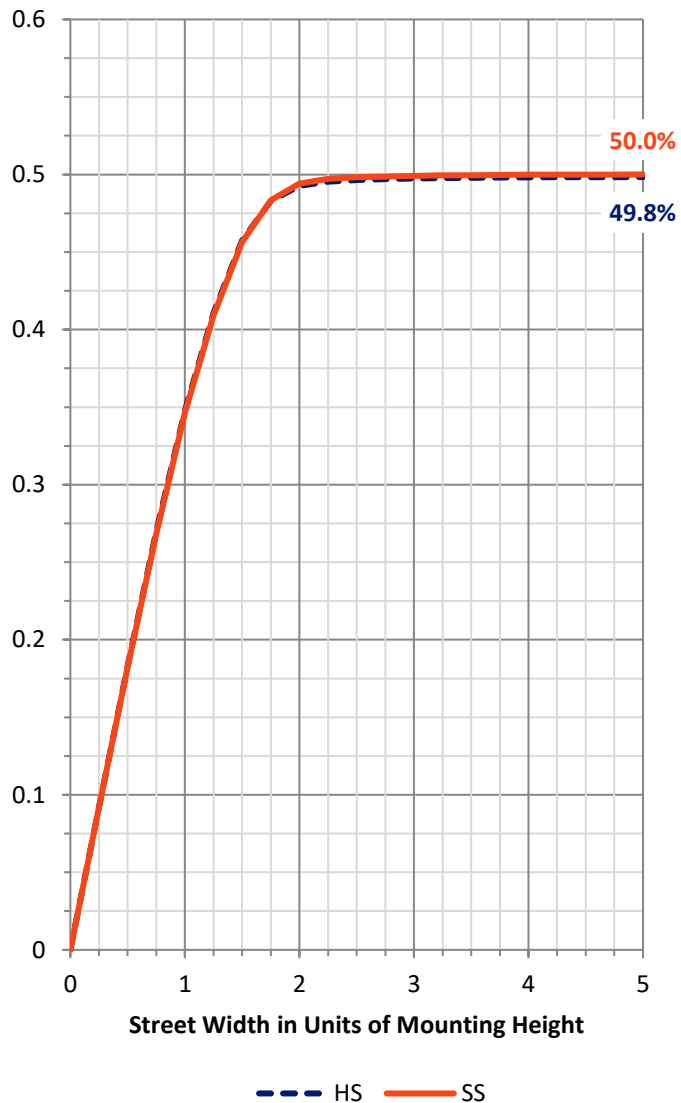
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3694.6	0.0	3694.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3694.6	0.0	3694.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7389.2	0.0	7389.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.4
10°-20°	304.4	4.1
20°-30°	561.9	7.6
30°-40°	1105.1	15.0
40°-50°	1800.0	24.4
50°-60°	2567.0	34.7
60°-70°	888.7	12.0
70°-80°	47.7	0.6
80°-90°	9.0	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°	7389.2	100.0
0°-180°	7389.2	100.0

**Coefficient of Utilization**

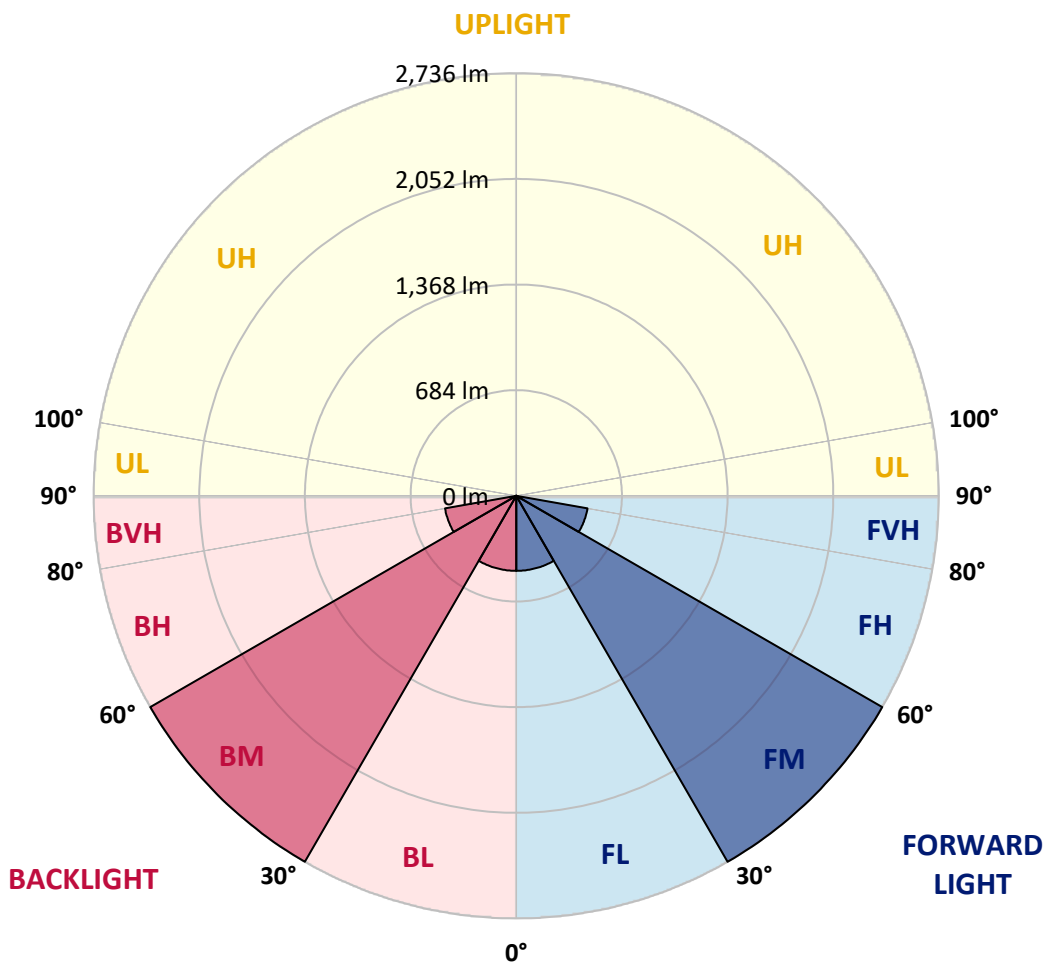


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.9	6.6			
FM (30°-60°)	2736.0	37.0			
FH (60°-80°)	468.2	6.3			G0/660
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	485.9	6.6	B1/500		
BM (30°-60°)	2736.0	37.0	B3/5000		
BH (60°-80°)	468.2	6.3	B1/500		G0/660
BVH (80°-90°)	4.5	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2	1146.2
2.5°	1143.0	1149.2	1141.5	1138.4	1136.9	1136.9	1132.3	1132.3	1130.7	1132.3	1126.1
5°	1124.5	1130.7	1130.7	1129.2	1119.9	1118.4	1113.8	1110.7	1112.3	1106.1	1110.7
7.5°	1106.1	1110.7	1104.6	1103.0	1100.0	1093.8	1092.2	1078.3	1079.9	1079.9	1083.0
10°	1103.0	1101.4	1092.2	1084.5	1075.3	1073.7	1069.1	1066.1	1066.1	1064.5	1069.1
12.5°	1103.0	1095.3	1093.8	1076.8	1061.4	1067.5	1055.2	1047.6	1058.3	1061.4	1067.5
15°	1101.4	1109.2	1083.0	1075.3	1064.5	1066.1	1055.2	1047.6	1053.7	1056.8	1061.4
17.5°	1110.7	1106.1	1098.4	1083.0	1078.3	1072.2	1058.3	1052.2	1052.2	1059.9	1061.4
20°	1135.4	1123.1	1107.6	1100.0	1104.6	1096.8	1079.9	1056.8	1062.9	1069.1	1073.7
22.5°	1158.4	1149.2	1138.4	1133.8	1160.0	1147.6	1118.4	1092.2	1083.0	1093.8	1101.4
25°	1203.2	1203.2	1183.1	1189.3	1218.5	1220.1	1186.2	1140.0	1133.8	1138.4	1141.5
27.5°	1294.1	1298.7	1281.7	1287.9	1300.2	1311.0	1281.7	1243.2	1229.3	1227.8	1232.4
30°	1392.6	1401.9	1400.3	1426.5	1461.9	1468.1	1425.0	1361.8	1320.2	1312.5	1318.7
32.5°	1522.0	1526.6	1523.6	1554.3	1649.9	1694.6	1582.1	1492.8	1437.3	1451.1	1437.3
35°	1765.4	1760.8	1726.9	1733.1	1811.6	1844.0	1736.1	1679.1	1653.0	1680.7	1674.5
37.5°	1975.0	1958.0	1930.3	1970.3	2051.9	2081.2	1968.8	1868.6	1820.9	1867.1	1887.1
40°	2152.1	2108.9	2070.4	2110.5	2219.9	2259.9	2095.1	2013.4	1994.9	2028.8	2072.0
42.5°	2301.6	2273.8	2222.9	2226.1	2298.4	2316.9	2184.4	2136.7	2118.2	2172.1	2193.7
45°	2407.8	2381.7	2333.9	2330.8	2386.3	2373.9	2255.3	2222.9	2233.7	2269.1	2279.9
47.5°	2461.8	2475.6	2447.9	2455.6	2484.9	2455.6	2361.6	2361.6	2336.9	2358.6	2347.7
50°	2617.3	2574.2	2609.6	2609.6	2640.4	2643.5	2549.5	2515.6	2449.4	2412.4	2412.4
52.5°	2799.1	2802.2	2816.1	2866.9	2919.3	2964.0	2829.9	2685.1	2574.2	2526.4	2520.2
55°	2948.5	2979.3	3034.8	3130.3	3281.3	3342.9	3111.8	2853.0	2717.5	2643.5	2628.1
56°	3030.2	3000.9	3096.5	3227.4	3424.5	3504.6	3158.1	2886.9	2737.4	2654.3	2652.7
57.5°	2951.6	2983.9	3050.2	3256.7	3498.5	3603.2	3175.0	2871.5	2657.3	2572.6	2580.4
60°	2330.8	2361.6	2450.9	2682.0	3061.0	3142.6	2686.6	2367.8	2176.7	2055.1	2056.5
62.5°	1318.7	1341.7	1411.1	1625.3	1861.0	1939.5	1674.5	1461.9	1329.5	1261.6	1240.1
65°	485.2	476.0	486.8	596.2	741.0	807.2	696.3	588.5	519.1	494.5	485.2
67.5°	181.8	168.0	157.1	168.0	211.0	223.4	204.9	171.0	160.2	164.8	168.0
70°	112.4	106.3	84.7	80.1	78.5	77.0	81.7	86.3	98.6	115.6	118.6
72.5°	78.5	73.9	60.1	57.0	53.9	52.4	60.1	66.2	77.0	89.3	90.9
75°	30.8	32.3	30.8	33.9	35.5	37.0	43.1	47.8	52.4	52.4	50.8
77.5°	6.2	6.2	9.2	12.3	15.4	20.0	29.3	33.9	35.5	33.9	29.3
80°	0.0	0.0	3.1	6.2	12.3	16.9	26.2	29.3	32.3	29.3	23.1
82.5°	0.0	0.0	3.1	7.7	12.3	15.4	24.7	30.8	35.5	32.3	24.7
85°	0.0	0.0	3.1	6.2	9.2	10.8	10.8	7.7	7.7	4.6	3.1
87.5°	0.0	0.0	0.0	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)