

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: P648248

Luminaire Tested: **GALN-SA2B-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9350.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

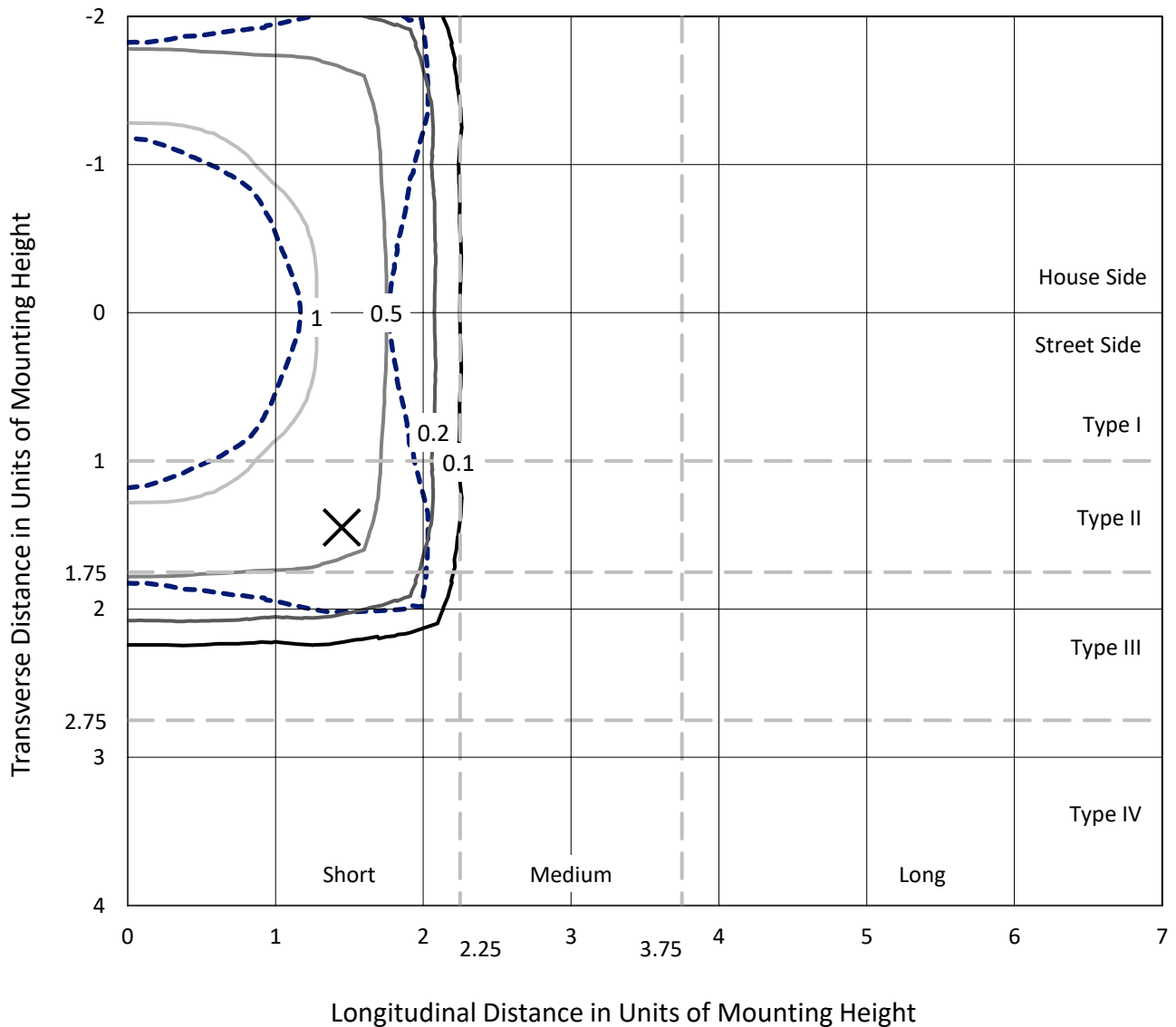
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

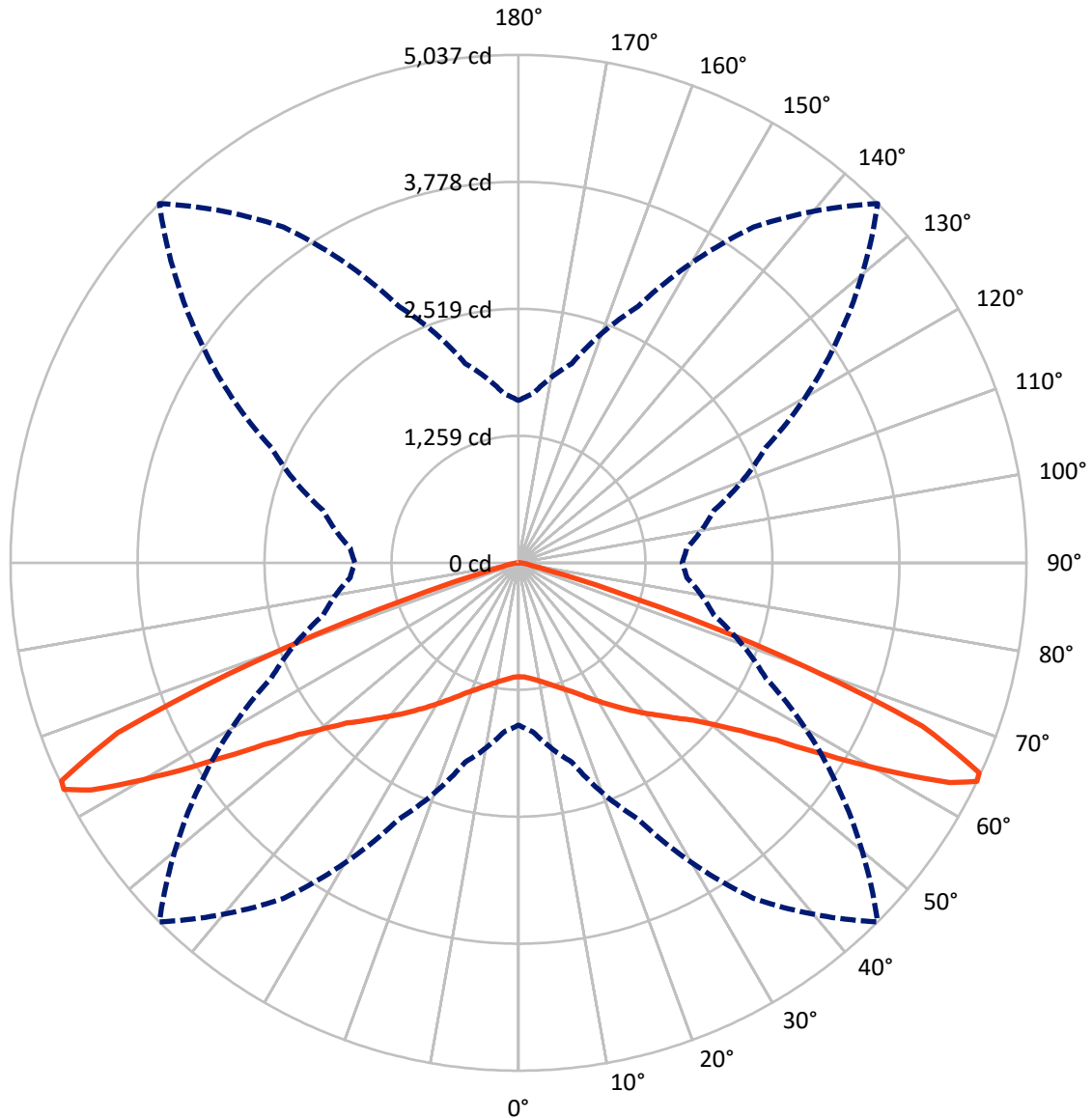
× Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical

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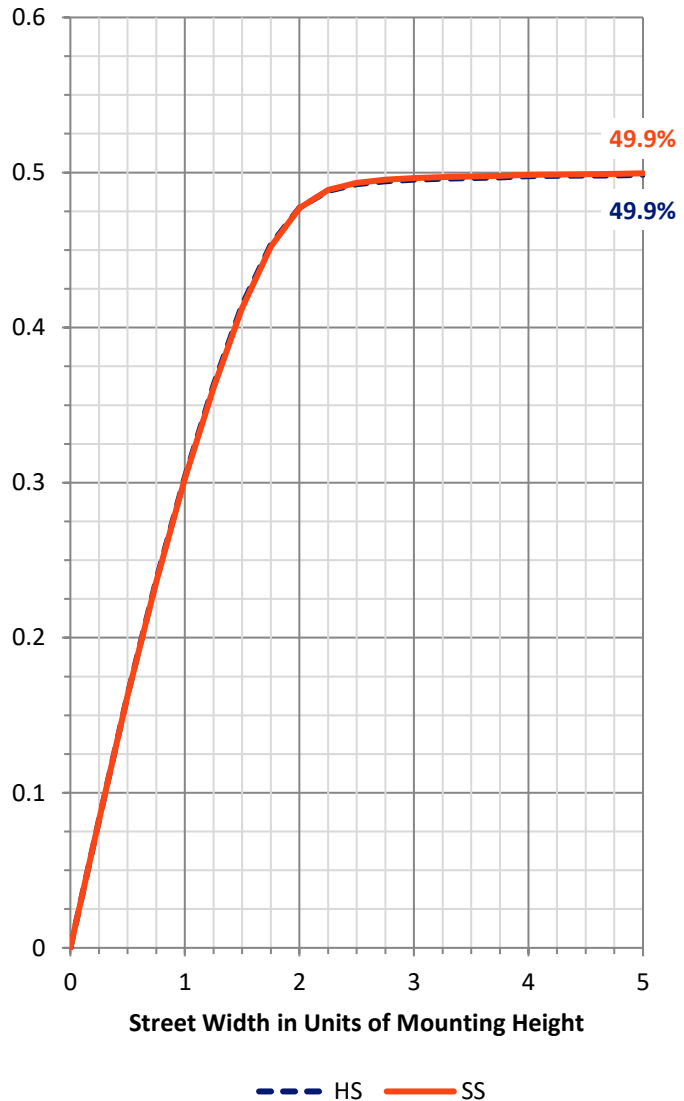
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4675.3	0.0	4675.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4675.3	0.0	4675.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9350.6	0.0	9350.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	1.2
10°-20°	358.1	3.8
20°-30°	676.8	7.2
30°-40°	1120.9	12.0
40°-50°	1749.8	18.7
50°-60°	2705.2	28.9
60°-70°	2332.7	24.9
70°-80°	264.4	2.8
80°-90°	31.7	0.3
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°	9350.6	100.0
0°-180°	9350.6	100.0

**Coefficient of Utilization**



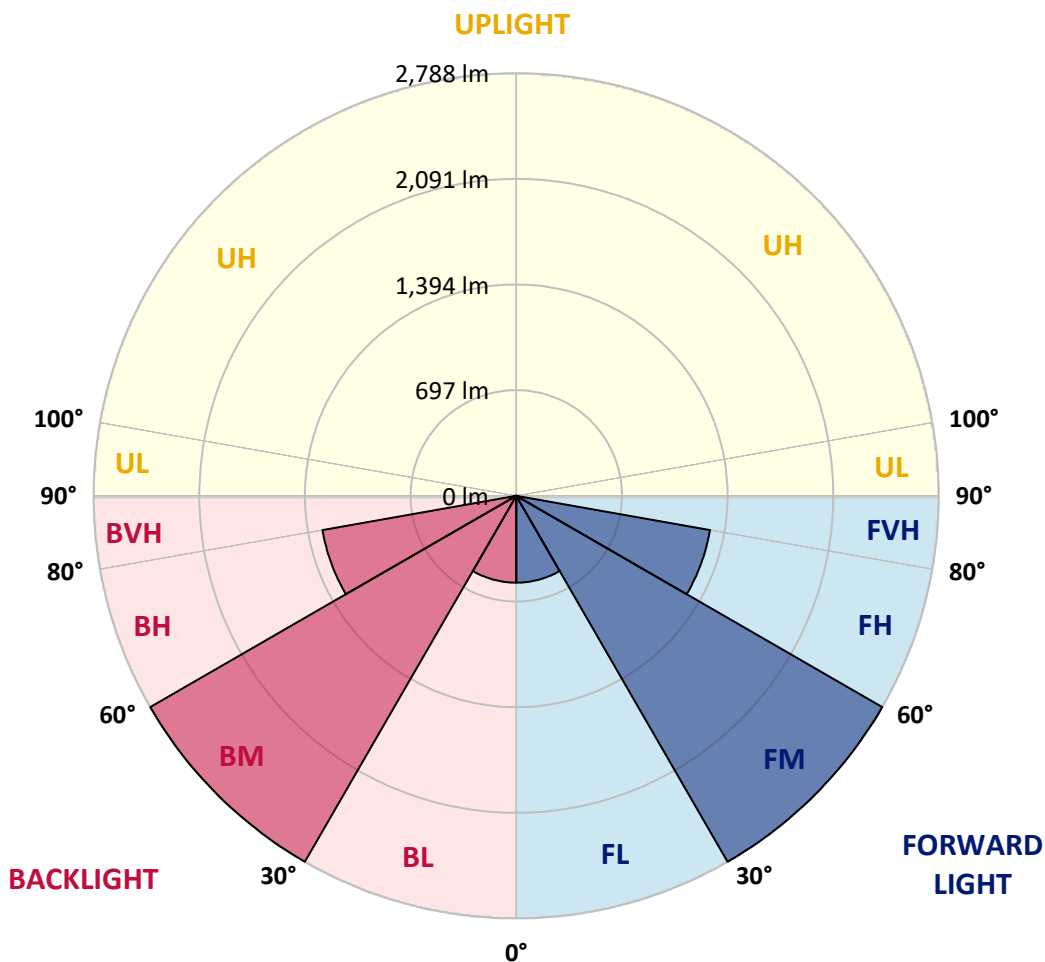
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.0	6.1			
FM (30°-60°)	2787.9	29.8			
FH (60°-80°)	1298.5	13.9			G1/1800
FVH (80°-90°)	15.8	0.2			G1/100
BL (0°-30°)	573.0	6.1	B2/1000		
BM (30°-60°)	2787.9	29.8	B3/5000		
BH (60°-80°)	1298.5	13.9	B3/2500		G1/1800
BVH (80°-90°)	15.8	0.2			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1134.6	1137.1	1135.1	1134.6	1134.2	1134.2	1134.2	1134.6	1136.6	1138.1	1137.1
5°	1149.0	1151.0	1150.0	1149.5	1149.0	1149.5	1148.5	1148.0	1149.5	1149.5	1149.0
7.5°	1166.8	1169.3	1168.3	1169.3	1169.8	1170.3	1167.8	1165.8	1165.3	1166.8	1165.8
10°	1191.1	1193.1	1193.6	1194.1	1195.1	1194.5	1191.6	1188.1	1187.7	1187.1	1186.6
12.5°	1218.3	1219.8	1220.3	1222.3	1223.8	1224.3	1220.8	1217.8	1212.9	1213.9	1211.9
15°	1249.0	1252.0	1251.5	1254.5	1258.4	1259.5	1255.9	1251.0	1246.5	1244.1	1242.6
17.5°	1286.7	1288.7	1287.6	1290.6	1295.6	1298.1	1295.1	1288.7	1284.2	1278.7	1275.7
20°	1331.3	1334.7	1335.7	1335.7	1340.2	1342.6	1338.1	1336.2	1329.3	1325.3	1322.8
22.5°	1381.8	1383.2	1386.2	1389.2	1393.7	1392.6	1391.2	1388.2	1381.8	1378.3	1374.3
25°	1438.7	1440.2	1447.6	1454.1	1455.6	1454.6	1452.6	1451.1	1445.2	1437.2	1434.3
27.5°	1505.1	1508.1	1517.9	1523.9	1523.9	1524.4	1520.4	1525.4	1512.5	1503.1	1502.1
30°	1588.3	1590.3	1598.7	1604.6	1601.6	1599.2	1598.2	1603.1	1589.3	1572.4	1568.5
32.5°	1670.5	1677.4	1684.9	1697.7	1687.4	1682.9	1681.9	1685.3	1669.5	1650.7	1645.2
35°	1758.6	1763.6	1777.5	1788.4	1779.0	1768.6	1773.0	1783.9	1765.1	1739.8	1738.8
37.5°	1856.3	1860.6	1878.5	1889.9	1883.0	1865.1	1872.5	1885.5	1866.6	1835.4	1829.0
40°	1957.7	1967.1	1989.4	2001.3	1989.9	1966.2	1980.1	1993.9	1977.1	1940.9	1926.6
42.5°	2071.7	2086.5	2118.7	2124.7	2102.8	2070.6	2094.9	2117.2	2105.3	2063.8	2058.3
45°	2204.8	2213.8	2253.4	2266.3	2236.1	2196.0	2226.1	2266.8	2257.9	2209.9	2199.4
47.5°	2353.9	2362.4	2403.5	2422.8	2384.6	2330.7	2385.2	2438.2	2432.7	2381.2	2376.2
50°	2530.3	2532.2	2589.2	2611.0	2572.9	2526.3	2574.8	2640.7	2618.9	2553.0	2552.0
52.5°	2723.4	2725.9	2797.7	2839.8	2818.5	2766.0	2823.4	2863.6	2808.1	2721.9	2715.5
55°	2890.8	2903.2	3001.2	3113.2	3142.4	3104.3	3121.6	3102.8	2966.1	2845.3	2826.4
57.5°	2959.2	2983.4	3132.5	3341.5	3531.6	3588.1	3454.4	3275.1	3029.0	2858.1	2839.8
60°	2792.3	2818.5	3049.8	3446.5	3931.8	4177.0	3801.1	3304.3	2885.8	2645.7	2616.9
62.5°	2236.1	2243.5	2583.7	3199.3	4165.1	4800.0	3947.2	3055.3	2469.3	2143.0	2131.6
64°	1609.1	1685.3	2045.9	2805.1	4063.1	5037.3	3863.0	2706.0	2005.8	1675.5	1622.0
65°	1203.5	1224.3	1649.2	2395.6	3883.3	5019.4	3699.6	2372.3	1661.1	1282.2	1222.8
67.5°	454.6	457.1	608.7	1194.1	2764.5	4318.6	2823.4	1290.6	699.8	506.1	487.8
70°	188.7	192.1	223.4	401.7	1188.1	2772.9	1361.5	465.6	256.0	207.5	204.5
72.5°	138.2	140.2	149.6	178.3	365.5	1138.6	447.7	197.6	150.1	134.2	132.7
75°	108.4	109.5	116.4	131.2	170.4	315.5	186.2	135.7	114.4	103.0	102.0
77.5°	82.7	85.2	90.1	100.1	114.4	149.6	123.3	101.6	88.2	78.8	77.3
80°	56.9	59.9	69.4	73.3	76.7	97.1	84.2	76.7	68.8	57.5	53.9
82.5°	35.2	37.1	46.6	50.0	48.5	54.5	53.9	55.0	49.0	35.6	33.2
85°	18.3	19.3	25.3	26.2	24.3	22.3	27.7	32.2	30.2	20.3	19.8
87.5°	4.0	4.5	5.5	4.9	5.5	5.5	7.0	10.4	10.9	7.0	6.4
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)