

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: P647805

Luminaire Tested: **GALN-SA3A-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647805
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

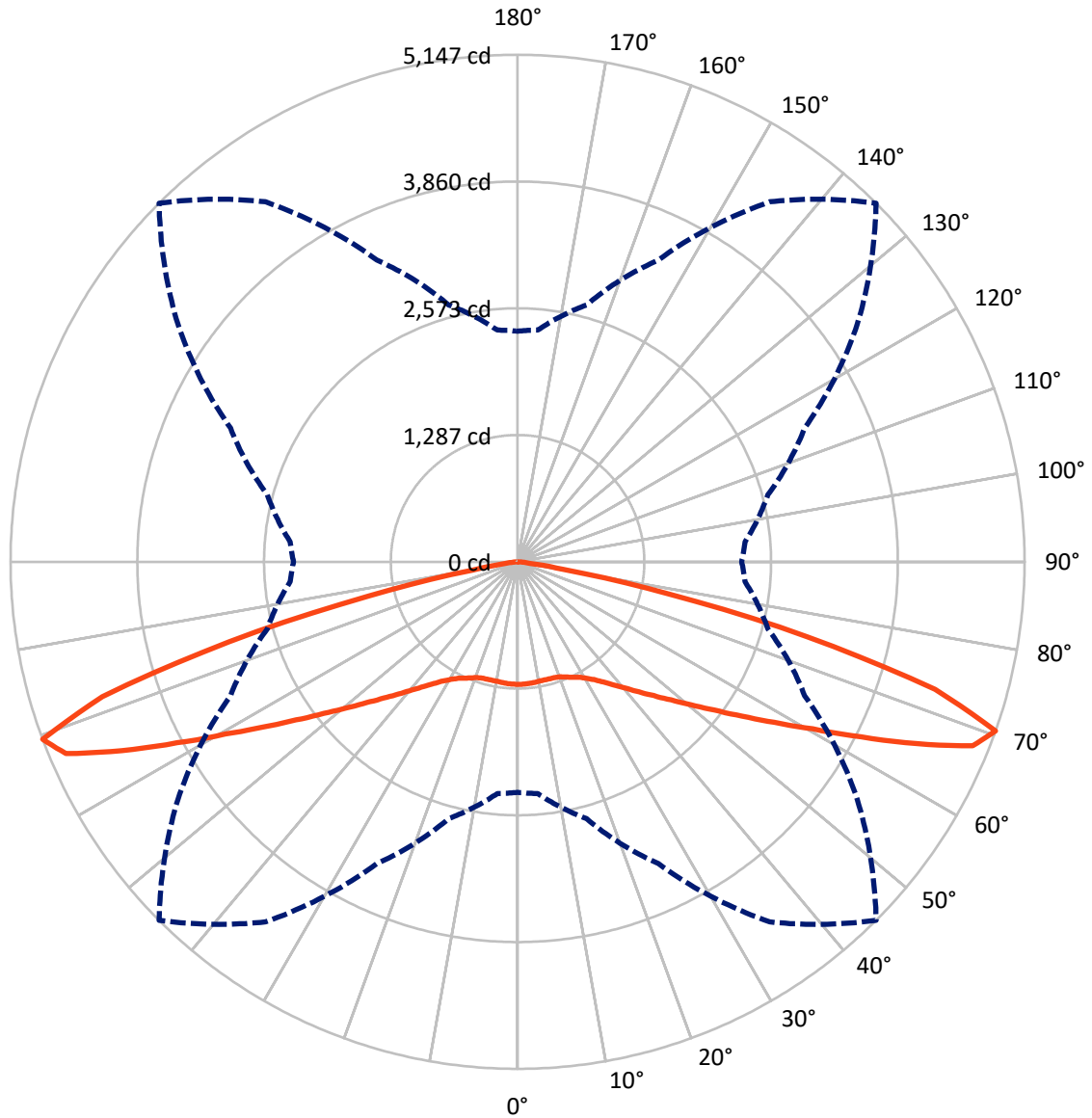
Lumens per Lamp: N/A
Luminaire Lumens: 11211 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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



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CATALOG NUMBER: GALN-SA3A-835-U-5MQ

Luminous Intensity Polar Plot



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

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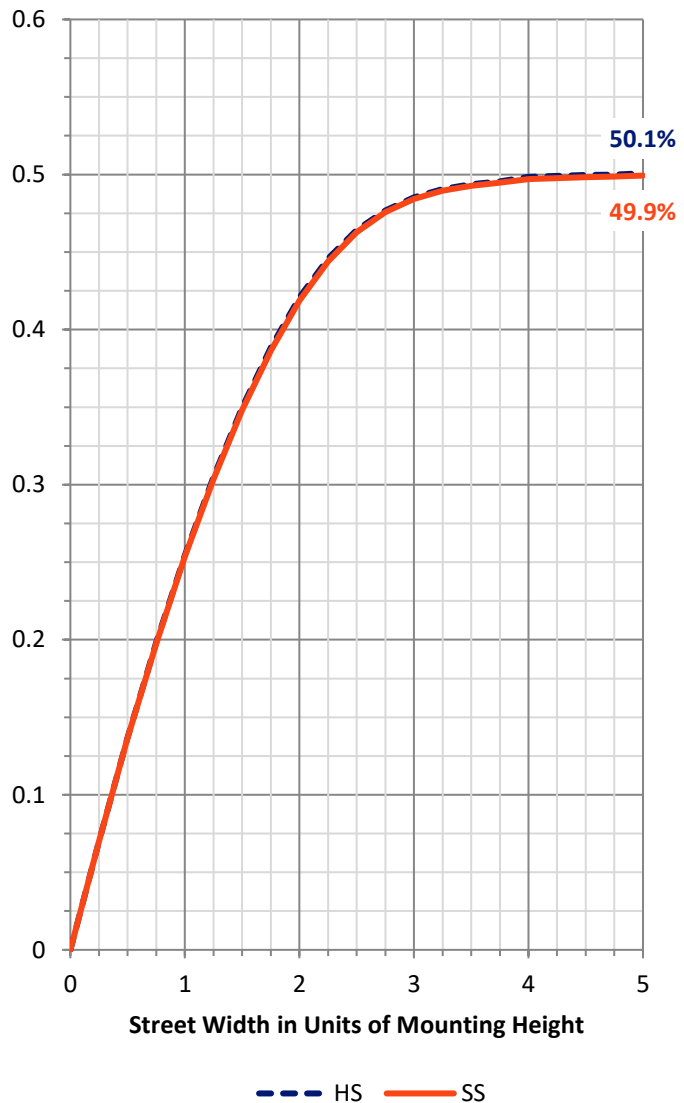
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5605.5 | 0.0 | 5605.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5605.5 | 0.0 | 5605.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11211.0 | 0.0 | 11211.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.1 | 1.1 |
| 10°-20° | 346.4 | 3.1 |
| 20°-30° | 592.5 | 5.3 |
| 30°-40° | 940.4 | 8.4 |
| 40°-50° | 1517.1 | 13.5 |
| 50°-60° | 2468.4 | 22.0 |
| 60°-70° | 3578.3 | 31.9 |
| 70°-80° | 1587.2 | 14.2 |
| 80°-90° | 62.6 | 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° | 11211.0 | 100.0 |
| 0°-180° | 11211.0 | 100.0 |

Coefficient of Utilization



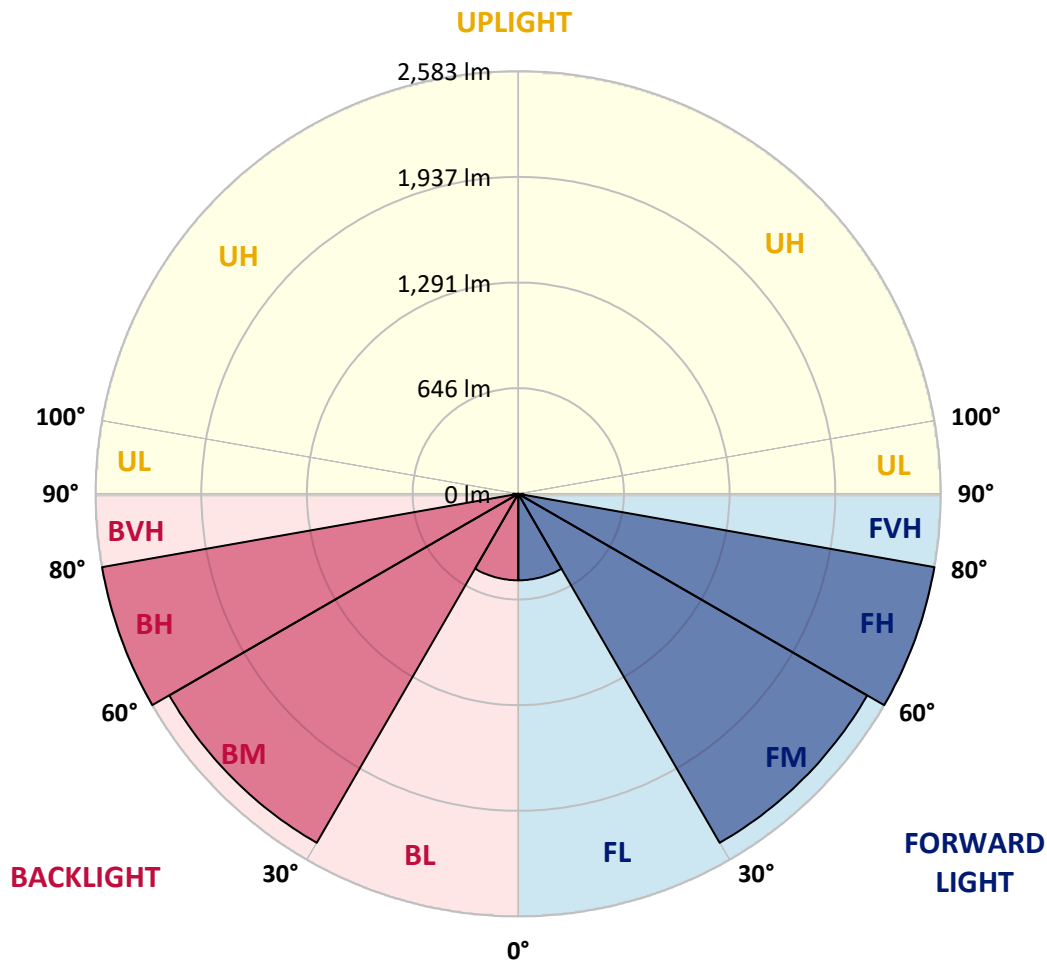
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 CATALOG NUMBER: GALN-SA3A-835-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 528.5 | 4.7 | | | |
| FM (30°-60°) | 2463.0 | 22.0 | | | |
| FH (60°-80°) | 2582.7 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 31.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 528.5 | 4.7 | B2/1000 | | |
| BM (30°-60°) | 2463.0 | 22.0 | B2/2500 | | |
| BH (60°-80°) | 2582.7 | 23.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 31.3 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 | 1244.9 |
| 2.5° | 1244.9 | 1246.1 | 1244.3 | 1243.2 | 1242.5 | 1242.5 | 1242.0 | 1242.5 | 1246.1 | 1246.7 | 1244.9 |
| 5° | 1241.4 | 1242.5 | 1242.0 | 1240.8 | 1240.2 | 1240.2 | 1239.6 | 1239.0 | 1242.0 | 1243.2 | 1242.5 |
| 7.5° | 1236.7 | 1237.2 | 1236.7 | 1236.0 | 1236.7 | 1236.0 | 1234.3 | 1233.1 | 1235.5 | 1235.5 | 1234.9 |
| 10° | 1228.4 | 1229.5 | 1229.0 | 1229.5 | 1230.7 | 1230.7 | 1228.4 | 1226.0 | 1226.6 | 1225.4 | 1225.4 |
| 12.5° | 1218.3 | 1220.1 | 1220.7 | 1223.0 | 1226.0 | 1229.5 | 1224.2 | 1218.9 | 1217.7 | 1217.2 | 1216.5 |
| 15° | 1211.8 | 1213.6 | 1216.0 | 1218.3 | 1223.7 | 1231.3 | 1223.7 | 1215.4 | 1213.0 | 1210.7 | 1209.5 |
| 17.5° | 1210.0 | 1212.4 | 1216.0 | 1219.5 | 1226.6 | 1234.3 | 1227.8 | 1219.5 | 1213.6 | 1210.0 | 1208.9 |
| 20° | 1214.8 | 1216.5 | 1221.9 | 1228.4 | 1238.4 | 1246.1 | 1239.6 | 1230.7 | 1221.9 | 1216.5 | 1214.8 |
| 22.5° | 1224.2 | 1227.2 | 1233.7 | 1245.5 | 1259.7 | 1270.9 | 1262.0 | 1247.3 | 1233.1 | 1226.0 | 1223.7 |
| 25° | 1244.9 | 1247.3 | 1255.0 | 1270.9 | 1287.5 | 1298.1 | 1288.7 | 1271.5 | 1252.0 | 1242.5 | 1239.6 |
| 27.5° | 1276.2 | 1279.8 | 1288.0 | 1307.0 | 1320.5 | 1326.5 | 1320.0 | 1308.2 | 1294.0 | 1284.0 | 1281.5 |
| 30° | 1320.5 | 1324.7 | 1337.1 | 1357.2 | 1366.0 | 1369.6 | 1366.6 | 1359.0 | 1349.0 | 1338.3 | 1336.0 |
| 32.5° | 1380.3 | 1382.6 | 1396.8 | 1415.7 | 1424.0 | 1425.1 | 1421.6 | 1418.0 | 1401.5 | 1383.8 | 1382.6 |
| 35° | 1447.0 | 1451.1 | 1468.3 | 1490.8 | 1498.4 | 1499.0 | 1491.9 | 1486.6 | 1467.1 | 1452.9 | 1452.9 |
| 37.5° | 1535.6 | 1537.4 | 1553.9 | 1579.4 | 1587.6 | 1585.3 | 1581.7 | 1577.0 | 1556.3 | 1538.0 | 1538.6 |
| 40° | 1639.6 | 1643.1 | 1657.4 | 1686.9 | 1686.9 | 1683.9 | 1686.3 | 1682.7 | 1662.1 | 1644.4 | 1644.9 |
| 42.5° | 1763.1 | 1764.9 | 1782.0 | 1813.3 | 1811.0 | 1805.0 | 1807.4 | 1802.7 | 1789.7 | 1769.6 | 1762.5 |
| 45° | 1894.9 | 1902.0 | 1931.5 | 1961.6 | 1956.9 | 1938.0 | 1947.5 | 1946.3 | 1934.5 | 1904.3 | 1906.1 |
| 47.5° | 2053.8 | 2065.6 | 2094.0 | 2130.0 | 2124.7 | 2095.2 | 2105.8 | 2112.9 | 2096.3 | 2063.3 | 2057.3 |
| 50° | 2232.8 | 2240.6 | 2282.4 | 2316.1 | 2311.4 | 2280.1 | 2304.3 | 2305.5 | 2264.1 | 2217.5 | 2217.5 |
| 52.5° | 2423.7 | 2431.4 | 2488.1 | 2540.7 | 2543.7 | 2498.2 | 2517.7 | 2516.4 | 2449.1 | 2387.6 | 2375.9 |
| 55° | 2637.5 | 2641.1 | 2714.3 | 2791.8 | 2808.3 | 2764.0 | 2766.3 | 2742.8 | 2655.3 | 2583.8 | 2577.3 |
| 57.5° | 2858.6 | 2871.6 | 2952.5 | 3052.9 | 3102.0 | 3074.8 | 3062.4 | 2999.2 | 2914.7 | 2832.6 | 2828.4 |
| 60° | 3103.2 | 3103.7 | 3208.9 | 3327.7 | 3427.0 | 3445.3 | 3394.5 | 3310.0 | 3200.7 | 3091.9 | 3087.2 |
| 62.5° | 3272.7 | 3298.2 | 3431.1 | 3631.9 | 3809.8 | 3912.7 | 3778.5 | 3601.3 | 3386.2 | 3210.7 | 3193.0 |
| 65° | 3307.6 | 3324.7 | 3527.4 | 3867.7 | 4231.1 | 4452.7 | 4142.5 | 3765.5 | 3398.6 | 3164.6 | 3152.8 |
| 67.5° | 3025.7 | 3044.1 | 3317.0 | 3839.4 | 4526.5 | 4980.9 | 4378.8 | 3686.4 | 3188.2 | 2898.7 | 2875.6 |
| 70° | 2340.4 | 2361.1 | 2698.5 | 3379.7 | 4460.9 | 5146.9 | 4210.4 | 3215.4 | 2629.3 | 2316.7 | 2274.8 |
| 72.5° | 1244.3 | 1320.5 | 1608.9 | 2319.7 | 3620.7 | 4431.4 | 3452.3 | 2346.3 | 1695.7 | 1386.1 | 1330.6 |
| 75° | 454.4 | 463.8 | 624.5 | 1028.7 | 2106.4 | 3038.7 | 2187.3 | 1119.1 | 643.5 | 496.9 | 471.5 |
| 77.5° | 187.9 | 187.3 | 205.6 | 310.8 | 765.1 | 1556.3 | 853.8 | 328.5 | 205.0 | 189.6 | 187.3 |
| 80° | 111.1 | 111.1 | 122.3 | 129.4 | 201.5 | 469.7 | 225.1 | 146.5 | 122.9 | 112.3 | 114.0 |
| 82.5° | 49.6 | 52.6 | 77.4 | 81.5 | 97.5 | 128.8 | 108.7 | 93.3 | 80.3 | 55.5 | 50.2 |
| 85° | 27.2 | 23.6 | 40.8 | 42.5 | 46.7 | 47.8 | 51.4 | 50.8 | 46.7 | 27.2 | 27.8 |
| 87.5° | 5.3 | 6.5 | 11.8 | 8.8 | 10.0 | 8.8 | 11.8 | 16.5 | 17.1 | 9.5 | 7.7 |
| 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)