

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: P527909

Luminaire Tested: **GALN-SA3A-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6852 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

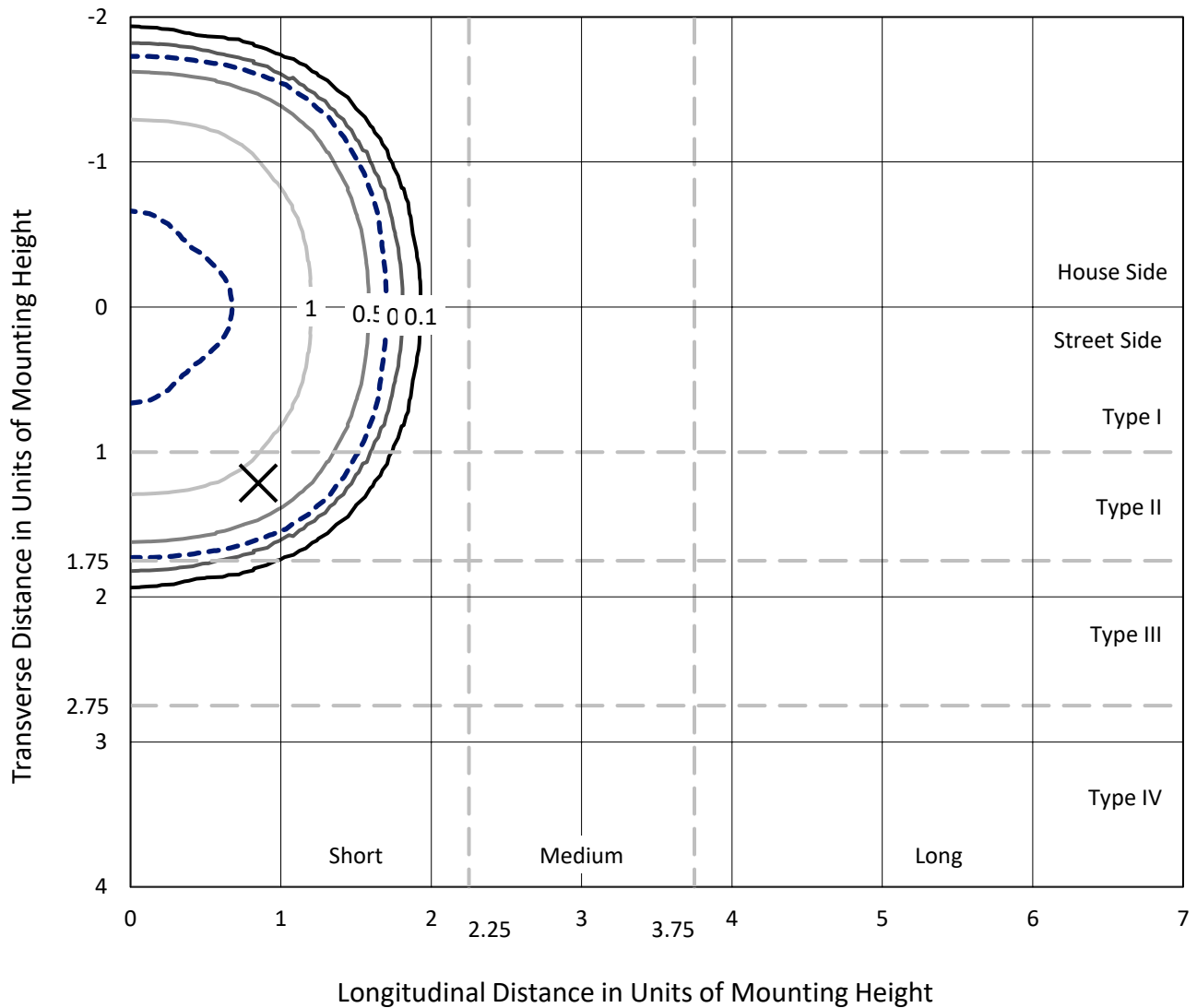
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

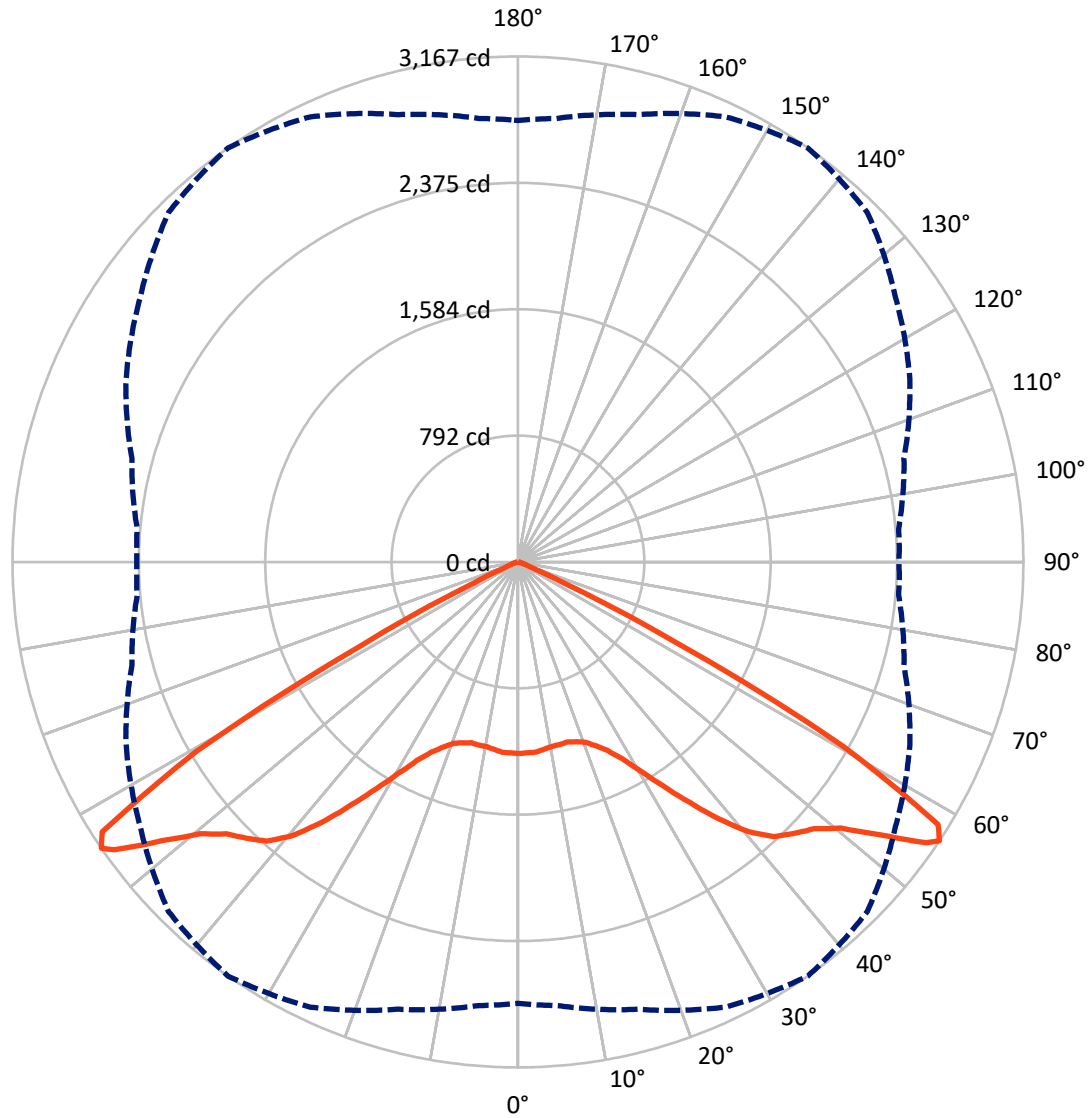
× Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3426.0 | 0.0 | 3426.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3426.0 | 0.0 | 3426.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6852.0 | 0.0 | 6852.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.8 | 1.6 |
| 10°-20° | 329.4 | 4.8 |
| 20°-30° | 596.6 | 8.7 |
| 30°-40° | 1106.2 | 16.1 |
| 40°-50° | 1815.8 | 26.5 |
| 50°-60° | 2339.3 | 34.1 |
| 60°-70° | 515.6 | 7.5 |
| 70°-80° | 29.9 | 0.4 |
| 80°-90° | 6.3 | 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° | 6852.0 | 100.0 |
| 0°-180° | 6852.0 | 100.0 |

Coefficient of Utilization

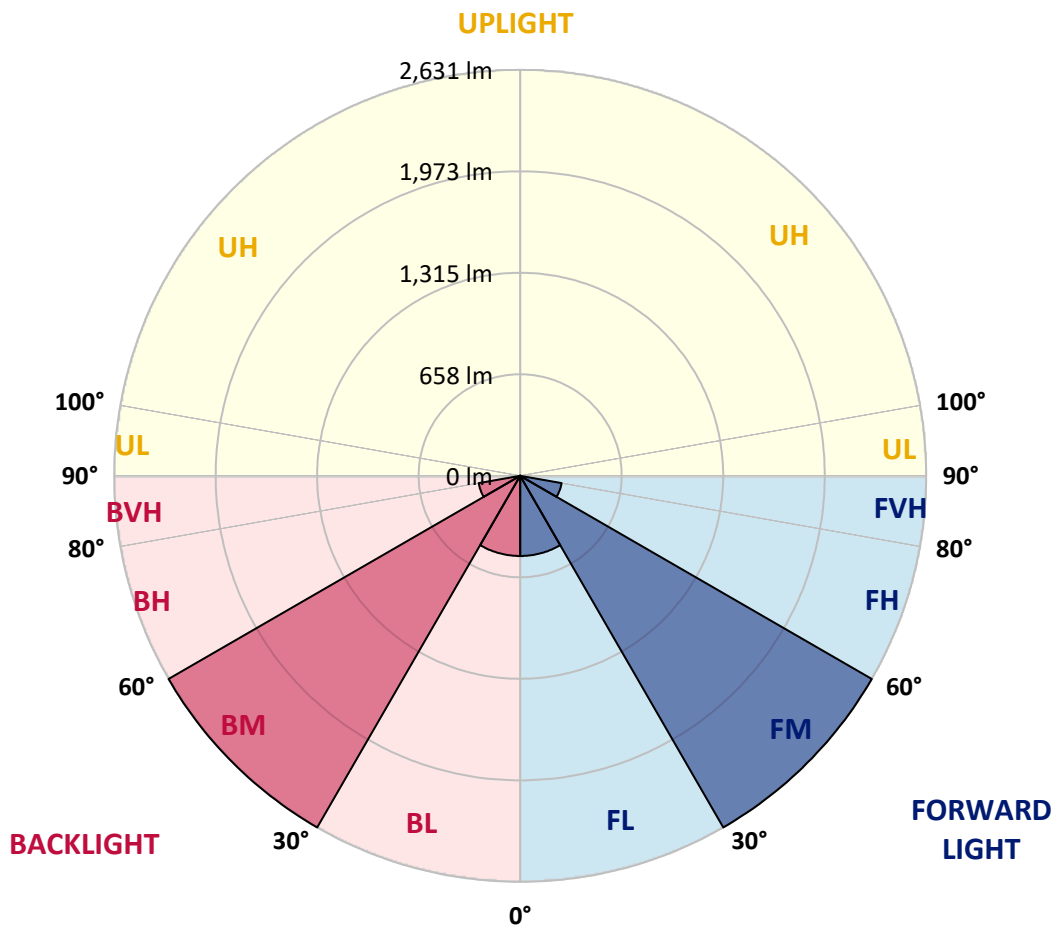


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 519.4 | 7.6 | | | |
| FM (30°-60°) | 2630.7 | 38.4 | | | |
| FH (60°-80°) | 272.7 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 519.4 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 2630.7 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 272.7 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.1 | 0.0 | | | 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° | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 | 1200.6 |
| 2.5° | 1203.1 | 1203.1 | 1204.3 | 1205.6 | 1196.9 | 1193.2 | 1194.4 | 1191.9 | 1190.7 | 1194.4 | 1194.4 |
| 5° | 1199.4 | 1199.4 | 1195.7 | 1196.9 | 1196.9 | 1185.7 | 1185.7 | 1188.2 | 1188.2 | 1180.8 | 1178.3 |
| 7.5° | 1189.4 | 1187.0 | 1182.0 | 1188.2 | 1184.5 | 1184.5 | 1175.8 | 1169.6 | 1167.1 | 1172.1 | 1167.1 |
| 10° | 1168.3 | 1169.6 | 1174.5 | 1177.0 | 1174.5 | 1182.0 | 1167.1 | 1158.4 | 1149.7 | 1146.0 | 1146.0 |
| 12.5° | 1158.4 | 1165.9 | 1158.4 | 1164.6 | 1173.3 | 1167.1 | 1158.4 | 1152.2 | 1139.8 | 1134.8 | 1134.8 |
| 15° | 1157.2 | 1162.1 | 1164.6 | 1173.3 | 1169.6 | 1172.1 | 1154.7 | 1147.2 | 1128.6 | 1119.9 | 1116.2 |
| 17.5° | 1155.9 | 1162.1 | 1165.9 | 1182.0 | 1184.5 | 1185.7 | 1172.1 | 1149.7 | 1133.6 | 1124.9 | 1116.2 |
| 20° | 1169.6 | 1172.1 | 1179.5 | 1195.7 | 1205.6 | 1223.0 | 1198.1 | 1174.5 | 1139.8 | 1129.8 | 1126.1 |
| 22.5° | 1187.0 | 1199.4 | 1206.8 | 1224.2 | 1250.3 | 1265.2 | 1232.9 | 1203.1 | 1167.1 | 1154.7 | 1139.8 |
| 25° | 1242.8 | 1240.3 | 1252.8 | 1288.8 | 1309.9 | 1321.1 | 1295.0 | 1251.5 | 1204.3 | 1189.4 | 1191.9 |
| 27.5° | 1312.4 | 1314.8 | 1326.0 | 1365.7 | 1396.8 | 1414.2 | 1383.1 | 1326.0 | 1280.1 | 1255.2 | 1252.8 |
| 30° | 1403.0 | 1400.5 | 1412.9 | 1466.3 | 1522.2 | 1548.3 | 1493.6 | 1426.6 | 1381.9 | 1349.6 | 1357.1 |
| 32.5° | 1498.6 | 1499.8 | 1534.6 | 1583.0 | 1673.7 | 1724.6 | 1636.4 | 1554.5 | 1487.4 | 1465.1 | 1453.9 |
| 35° | 1640.1 | 1646.3 | 1673.7 | 1748.2 | 1848.7 | 1914.5 | 1817.7 | 1719.6 | 1642.6 | 1601.7 | 1606.6 |
| 37.5° | 1815.2 | 1809.0 | 1854.9 | 1935.6 | 2041.2 | 2089.6 | 2007.7 | 1895.9 | 1817.7 | 1790.4 | 1807.8 |
| 40° | 2001.4 | 2007.7 | 2031.2 | 2104.5 | 2222.4 | 2254.7 | 2133.1 | 2072.2 | 2003.9 | 1990.3 | 2011.4 |
| 42.5° | 2187.7 | 2184.0 | 2201.3 | 2267.1 | 2352.8 | 2330.5 | 2258.5 | 2222.4 | 2174.0 | 2146.7 | 2175.3 |
| 45° | 2324.3 | 2318.0 | 2350.3 | 2395.0 | 2426.1 | 2383.9 | 2351.6 | 2339.2 | 2314.3 | 2284.5 | 2310.6 |
| 47.5° | 2457.1 | 2452.1 | 2483.2 | 2495.6 | 2498.1 | 2442.2 | 2448.4 | 2470.8 | 2408.7 | 2346.6 | 2376.4 |
| 50° | 2570.1 | 2561.4 | 2599.9 | 2627.2 | 2621.0 | 2531.6 | 2554.0 | 2531.6 | 2434.8 | 2361.5 | 2350.3 |
| 52.5° | 2758.8 | 2762.5 | 2803.5 | 2853.2 | 2838.3 | 2763.8 | 2731.5 | 2629.7 | 2505.5 | 2439.7 | 2401.2 |
| 55° | 2878.0 | 2859.4 | 2930.2 | 3087.8 | 3105.2 | 3028.2 | 2885.5 | 2735.2 | 2549.0 | 2468.3 | 2458.3 |
| 56° | 2766.3 | 2789.9 | 2901.6 | 3077.9 | 3167.3 | 3096.5 | 2889.2 | 2709.1 | 2504.3 | 2395.0 | 2387.6 |
| 57.5° | 2481.9 | 2469.5 | 2621.0 | 2861.9 | 3105.2 | 3075.4 | 2787.4 | 2522.9 | 2284.5 | 2161.6 | 2146.7 |
| 60° | 1544.5 | 1580.5 | 1713.4 | 2011.4 | 2336.7 | 2351.6 | 2066.0 | 1838.8 | 1560.7 | 1451.4 | 1477.5 |
| 62.5° | 604.7 | 573.6 | 656.8 | 879.0 | 1102.5 | 1152.2 | 1044.2 | 867.9 | 712.7 | 604.7 | 597.2 |
| 65° | 140.3 | 136.6 | 154.0 | 212.3 | 296.7 | 343.9 | 326.5 | 234.7 | 172.6 | 163.9 | 151.5 |
| 67.5° | 79.5 | 79.5 | 75.7 | 75.7 | 83.2 | 88.2 | 84.4 | 83.2 | 86.9 | 90.6 | 89.4 |
| 70° | 55.9 | 54.6 | 52.1 | 53.4 | 50.9 | 50.9 | 54.6 | 60.8 | 65.8 | 65.8 | 67.0 |
| 72.5° | 33.5 | 33.5 | 33.5 | 37.2 | 37.2 | 37.2 | 41.0 | 45.9 | 47.2 | 45.9 | 44.7 |
| 75° | 14.9 | 14.9 | 17.4 | 21.1 | 23.6 | 24.8 | 28.6 | 31.0 | 33.5 | 31.0 | 28.6 |
| 77.5° | 3.7 | 3.7 | 6.2 | 8.7 | 11.2 | 13.7 | 18.6 | 22.3 | 23.6 | 22.3 | 18.6 |
| 80° | 1.2 | 1.2 | 2.5 | 6.2 | 11.2 | 13.7 | 18.6 | 19.9 | 21.1 | 18.6 | 14.9 |
| 82.5° | 1.2 | 1.2 | 2.5 | 6.2 | 8.7 | 11.2 | 14.9 | 17.4 | 18.6 | 16.1 | 14.9 |
| 85° | 0.0 | 1.2 | 2.5 | 5.0 | 7.4 | 9.9 | 9.9 | 7.4 | 6.2 | 3.7 | 5.0 |
| 87.5° | 0.0 | 0.0 | 1.2 | 1.2 | 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)