

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: P526948

Luminaire Tested: **GALN-SA2A-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-722-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

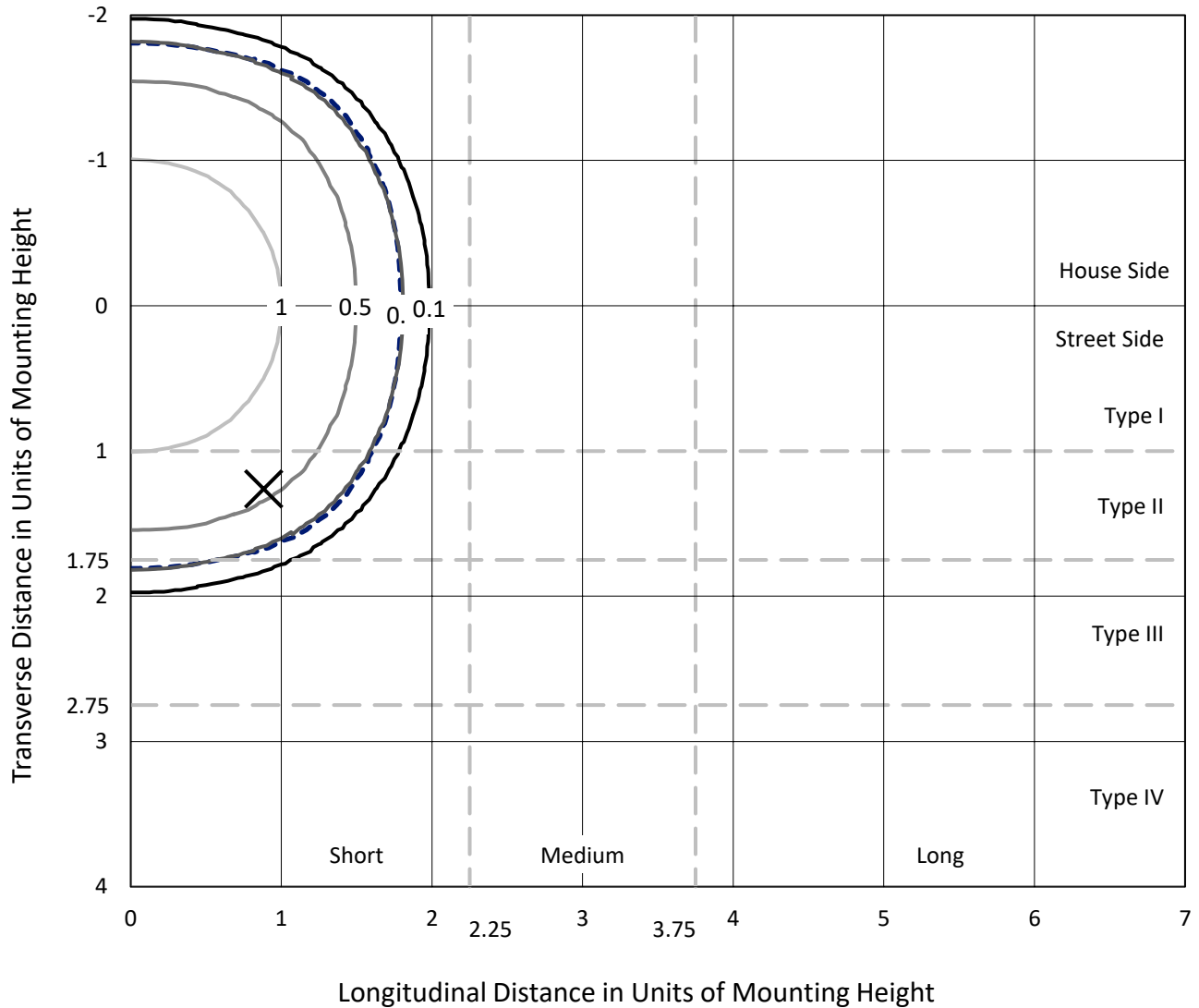
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

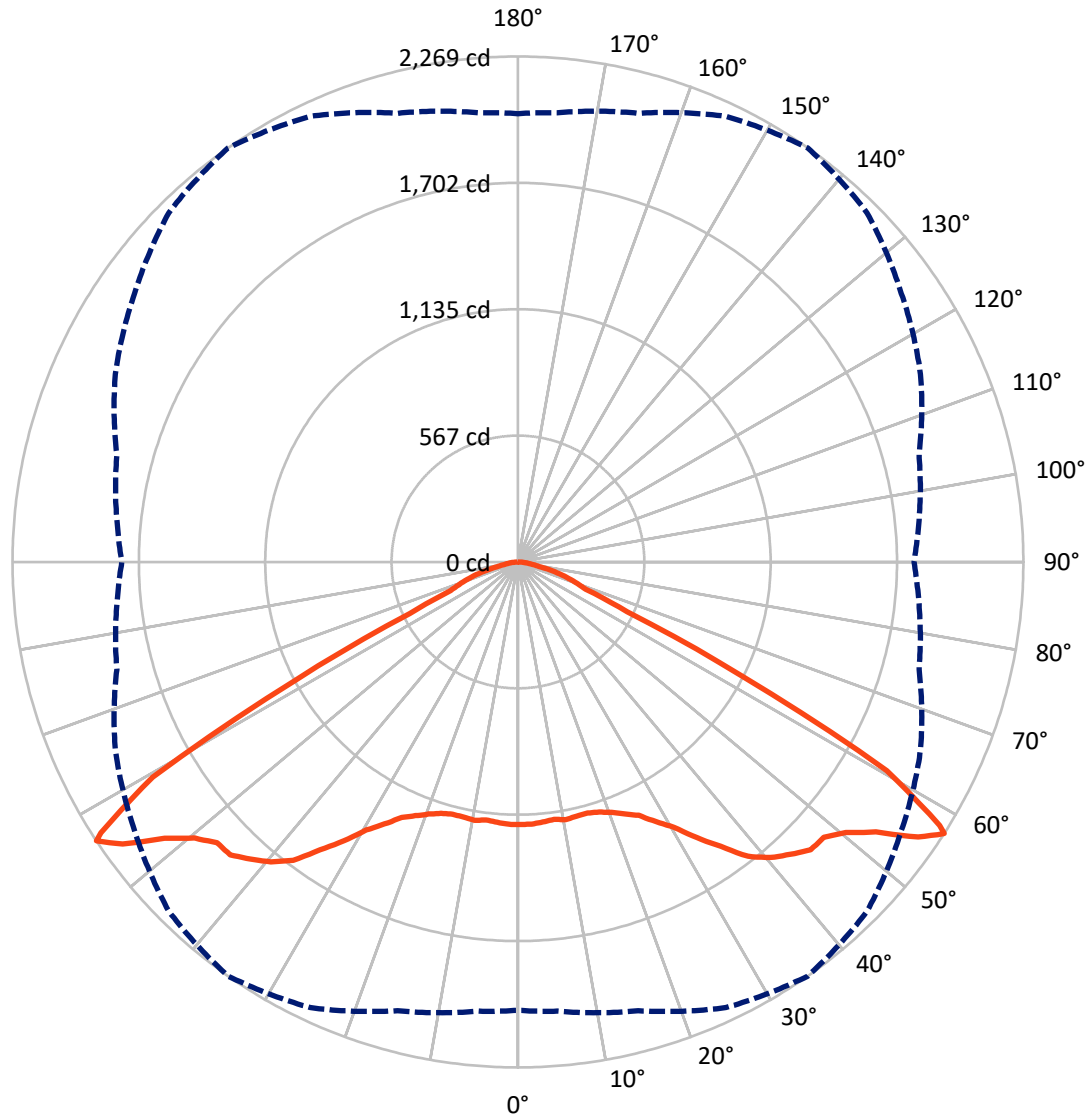
× Max cd
 - - - 1/2 Max cd



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 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2983.5 | 0.0 | 2983.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2983.5 | 0.0 | 2983.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5967.0 | 0.0 | 5967.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.7 | 1.9 |
| 10°-20° | 330.9 | 5.5 |
| 20°-30° | 577.9 | 9.7 |
| 30°-40° | 946.9 | 15.9 |
| 40°-50° | 1388.4 | 23.3 |
| 50°-60° | 1748.7 | 29.3 |
| 60°-70° | 657.7 | 11.0 |
| 70°-80° | 174.9 | 2.9 |
| 80°-90° | 30.0 | 0.5 |
| 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° | 5967.0 | 100.0 |
| 0°-180° | 5967.0 | 100.0 |

Coefficient of Utilization



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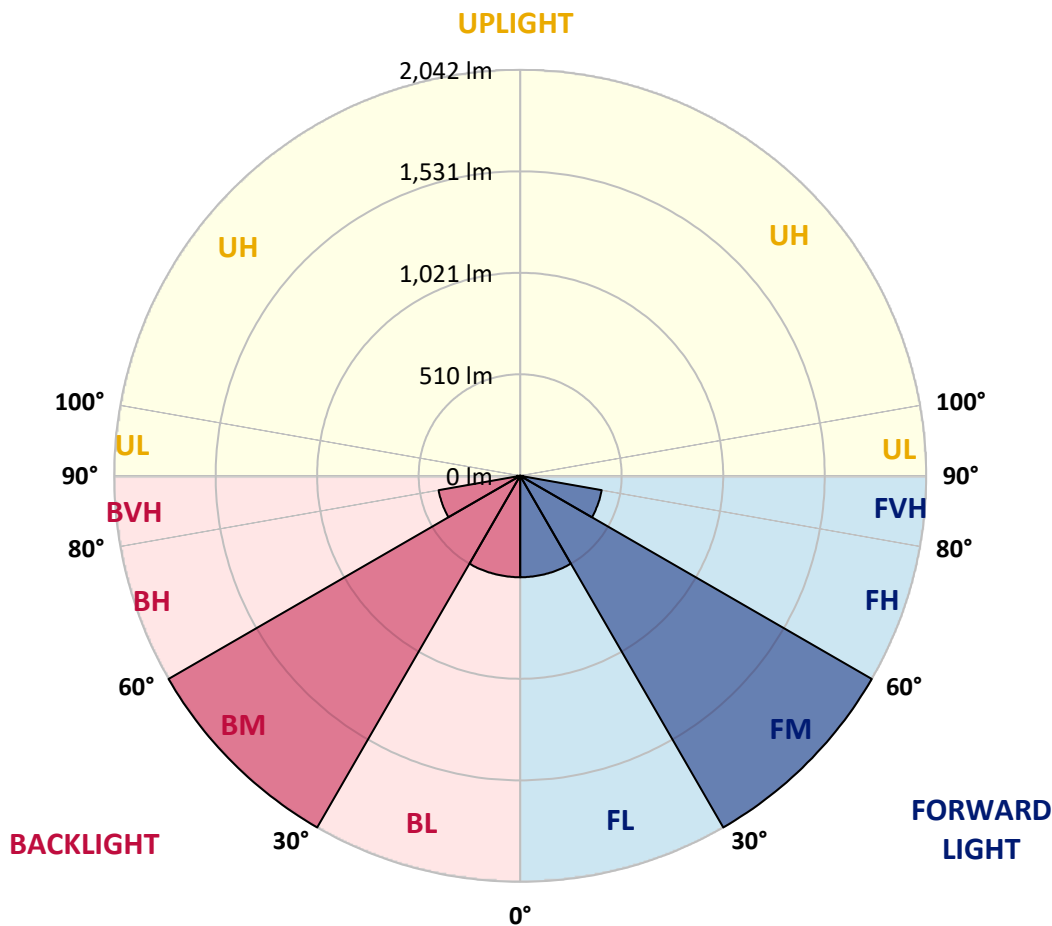
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 510.2 | 8.6 | | | |
| FM (30°-60°) | 2042.0 | 34.2 | | | |
| FH (60°-80°) | 416.3 | 7.0 | | | G0/660 |
| FVH (80°-90°) | 15.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 510.2 | 8.6 | B2/1000 | | |
| BM (30°-60°) | 2042.0 | 34.2 | B2/2500 | | |
| BH (60°-80°) | 416.3 | 7.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 15.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

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° | 1172.6 | 1184.3 | 1179.2 | 1176.2 | 1178.4 | 1174.8 | 1168.9 | 1175.5 | 1174.0 | 1168.1 | 1165.9 |
| 5° | 1169.6 | 1178.4 | 1172.6 | 1178.4 | 1172.6 | 1182.8 | 1179.9 | 1168.9 | 1182.1 | 1169.6 | 1174.0 |
| 7.5° | 1167.4 | 1170.4 | 1171.8 | 1168.9 | 1166.7 | 1179.2 | 1172.6 | 1167.4 | 1160.1 | 1157.9 | 1161.5 |
| 10° | 1162.3 | 1169.6 | 1158.6 | 1173.3 | 1176.2 | 1167.4 | 1167.4 | 1157.9 | 1152.0 | 1148.3 | 1160.8 |
| 12.5° | 1175.5 | 1163.0 | 1161.5 | 1168.9 | 1171.1 | 1174.8 | 1164.5 | 1159.3 | 1148.3 | 1149.8 | 1147.6 |
| 15° | 1160.1 | 1165.2 | 1165.9 | 1167.4 | 1169.6 | 1178.4 | 1168.9 | 1157.9 | 1153.4 | 1138.0 | 1139.5 |
| 17.5° | 1165.9 | 1160.8 | 1165.9 | 1182.8 | 1179.9 | 1186.5 | 1176.2 | 1159.3 | 1149.0 | 1140.2 | 1152.0 |
| 20° | 1176.2 | 1174.0 | 1176.2 | 1196.8 | 1200.5 | 1206.4 | 1197.6 | 1182.1 | 1162.3 | 1152.0 | 1157.9 |
| 22.5° | 1187.3 | 1185.8 | 1187.3 | 1207.1 | 1228.4 | 1235.8 | 1227.0 | 1190.9 | 1180.6 | 1161.5 | 1154.9 |
| 25° | 1207.1 | 1208.6 | 1224.0 | 1246.1 | 1260.0 | 1274.0 | 1257.8 | 1232.1 | 1199.0 | 1187.3 | 1173.3 |
| 27.5° | 1251.2 | 1254.9 | 1263.7 | 1296.1 | 1320.3 | 1332.8 | 1310.0 | 1274.7 | 1254.2 | 1229.9 | 1226.2 |
| 30° | 1305.6 | 1305.6 | 1321.1 | 1349.0 | 1382.1 | 1401.2 | 1373.3 | 1331.3 | 1306.4 | 1293.1 | 1285.0 |
| 32.5° | 1377.7 | 1369.6 | 1375.5 | 1424.7 | 1476.2 | 1492.3 | 1454.9 | 1403.4 | 1363.7 | 1346.1 | 1340.2 |
| 35° | 1439.4 | 1444.6 | 1457.8 | 1510.7 | 1568.1 | 1605.6 | 1546.7 | 1479.8 | 1439.4 | 1423.2 | 1420.3 |
| 37.5° | 1519.5 | 1528.4 | 1535.0 | 1607.8 | 1676.9 | 1690.8 | 1634.2 | 1580.6 | 1531.3 | 1518.1 | 1510.7 |
| 40° | 1632.8 | 1626.9 | 1629.1 | 1682.7 | 1745.2 | 1754.1 | 1698.2 | 1660.0 | 1619.5 | 1611.4 | 1611.4 |
| 42.5° | 1726.1 | 1719.5 | 1726.9 | 1746.7 | 1794.5 | 1787.9 | 1757.0 | 1729.1 | 1712.2 | 1703.3 | 1712.2 |
| 45° | 1782.7 | 1781.3 | 1794.5 | 1809.2 | 1843.0 | 1821.0 | 1796.7 | 1801.1 | 1784.9 | 1770.2 | 1769.5 |
| 47.5° | 1844.5 | 1834.9 | 1851.1 | 1873.2 | 1847.4 | 1837.1 | 1835.7 | 1845.2 | 1840.1 | 1814.3 | 1806.3 |
| 50° | 1874.6 | 1870.9 | 1896.7 | 1922.4 | 1908.4 | 1884.9 | 1890.1 | 1905.5 | 1839.3 | 1804.8 | 1784.9 |
| 52.5° | 1955.5 | 1956.2 | 2005.5 | 2019.4 | 2013.6 | 1979.0 | 1990.0 | 1948.1 | 1870.2 | 1821.7 | 1823.9 |
| 55° | 2082.7 | 2077.5 | 2132.7 | 2173.8 | 2180.4 | 2136.3 | 2083.4 | 2024.6 | 1926.8 | 1877.6 | 1862.9 |
| 57° | 2012.8 | 2024.6 | 2085.6 | 2207.6 | 2269.4 | 2217.2 | 2101.8 | 1994.5 | 1864.3 | 1804.8 | 1778.3 |
| 57.5° | 1919.5 | 1938.6 | 2044.4 | 2167.2 | 2231.9 | 2227.5 | 2079.0 | 1938.6 | 1822.4 | 1729.8 | 1732.0 |
| 60° | 1406.3 | 1410.0 | 1505.6 | 1700.4 | 1902.6 | 1907.0 | 1726.1 | 1540.1 | 1410.7 | 1310.0 | 1324.0 |
| 62.5° | 741.8 | 758.7 | 796.9 | 953.5 | 1128.4 | 1171.1 | 1061.6 | 966.0 | 854.2 | 777.8 | 785.1 |
| 65° | 392.6 | 390.4 | 408.7 | 452.8 | 538.9 | 560.9 | 546.2 | 470.5 | 431.5 | 419.0 | 419.8 |
| 67.5° | 319.1 | 322.7 | 320.5 | 322.7 | 328.6 | 338.2 | 336.0 | 338.9 | 341.1 | 344.8 | 344.0 |
| 70° | 270.5 | 270.5 | 272.0 | 272.7 | 272.7 | 277.1 | 282.3 | 291.9 | 292.6 | 296.3 | 297.7 |
| 72.5° | 213.2 | 211.7 | 213.9 | 219.1 | 219.8 | 223.5 | 230.8 | 236.7 | 238.9 | 238.9 | 234.5 |
| 75° | 144.8 | 146.3 | 149.2 | 153.6 | 158.1 | 164.7 | 170.6 | 174.2 | 175.7 | 173.5 | 171.3 |
| 77.5° | 81.6 | 83.1 | 85.3 | 91.9 | 97.0 | 102.9 | 109.5 | 113.2 | 116.9 | 117.6 | 113.2 |
| 80° | 48.5 | 48.5 | 52.2 | 57.3 | 63.2 | 69.1 | 75.0 | 79.4 | 80.9 | 80.9 | 78.7 |
| 82.5° | 29.4 | 30.1 | 33.1 | 38.2 | 43.4 | 47.0 | 52.2 | 55.9 | 58.8 | 58.1 | 56.6 |
| 85° | 15.4 | 15.4 | 18.4 | 22.8 | 26.5 | 30.1 | 30.1 | 27.9 | 26.5 | 22.8 | 21.3 |
| 87.5° | 5.1 | 4.4 | 5.9 | 5.9 | 5.1 | 5.9 | 5.9 | 6.6 | 6.6 | 6.6 | 6.6 |
| 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)