

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: STREETWORKS

Report Number: P316485

Luminaire Tested: **GAN-SA1C-740-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7779 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

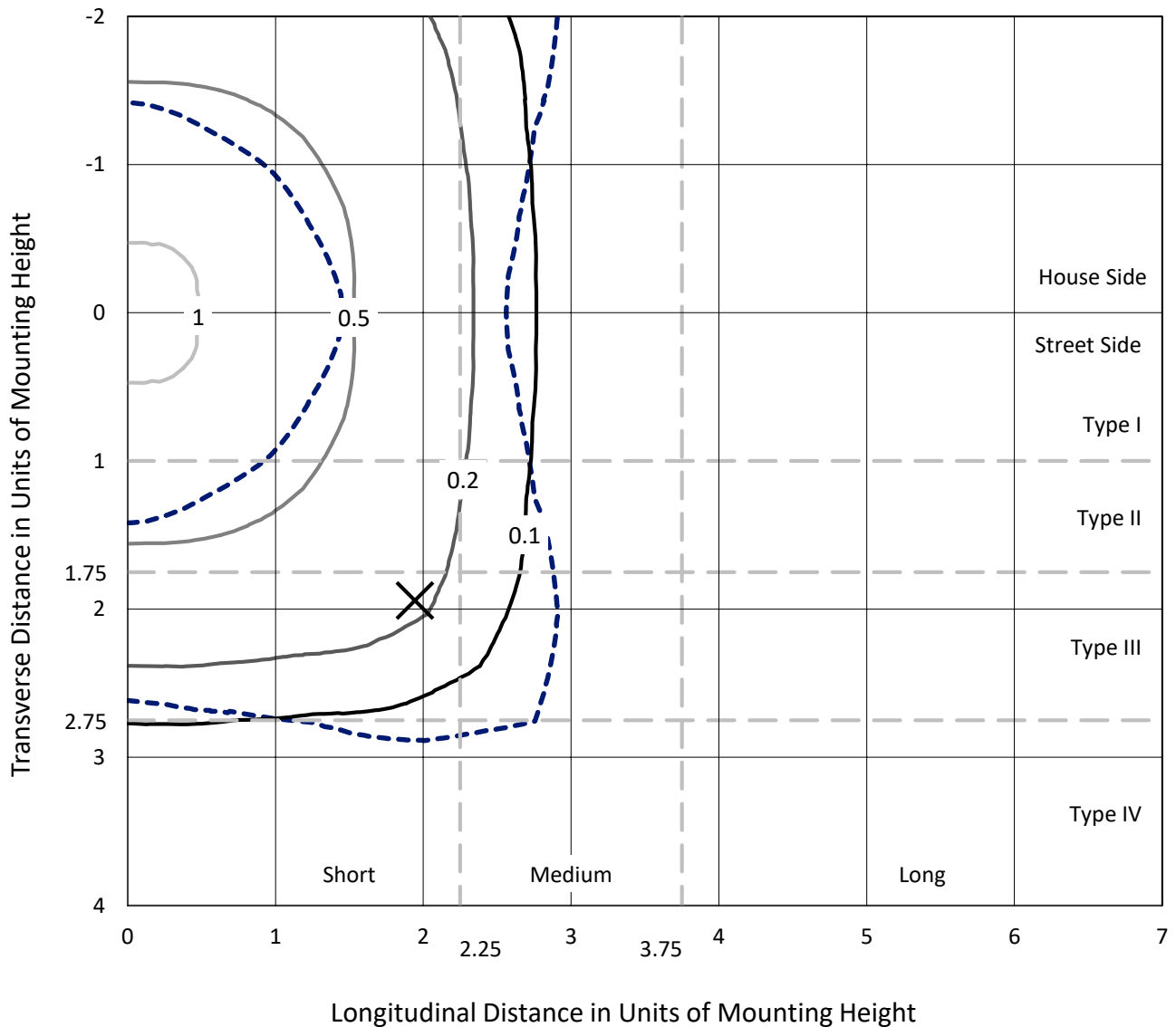
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

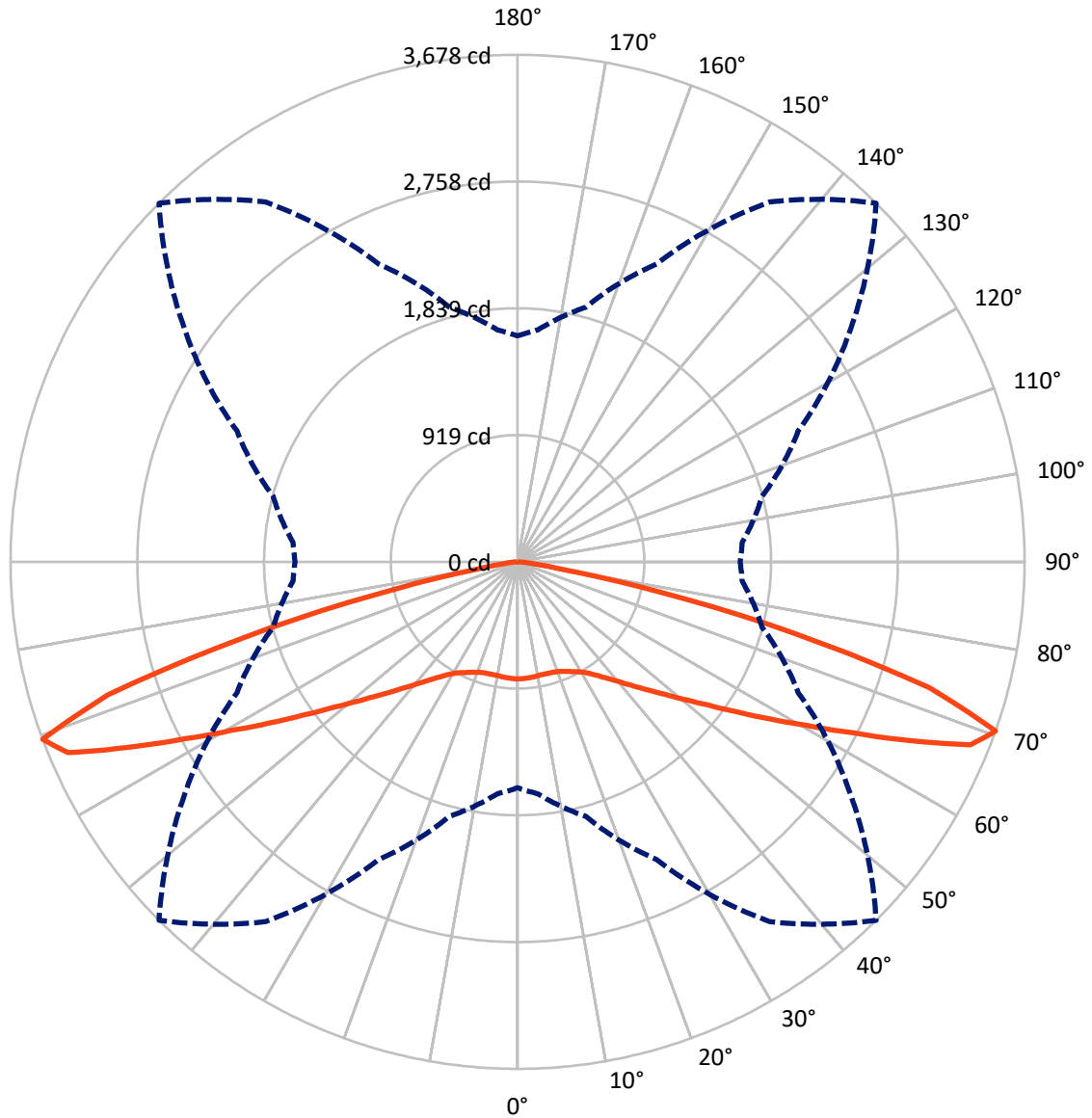
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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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 | 3889.5 | 0.0 | 3889.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3889.5 | 0.0 | 3889.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7779.0 | 0.0 | 7779.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.5 | 1.0 |
| 10°-20° | 236.2 | 3.0 |
| 20°-30° | 402.1 | 5.2 |
| 30°-40° | 637.8 | 8.2 |
| 40°-50° | 1037.8 | 13.3 |
| 50°-60° | 1711.2 | 22.0 |
| 60°-70° | 2512.1 | 32.3 |
| 70°-80° | 1110.9 | 14.3 |
| 80°-90° | 50.3 | 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° | 7779.0 | 100.0 |
| 0°-180° | 7779.0 | 100.0 |

Coefficient of Utilization



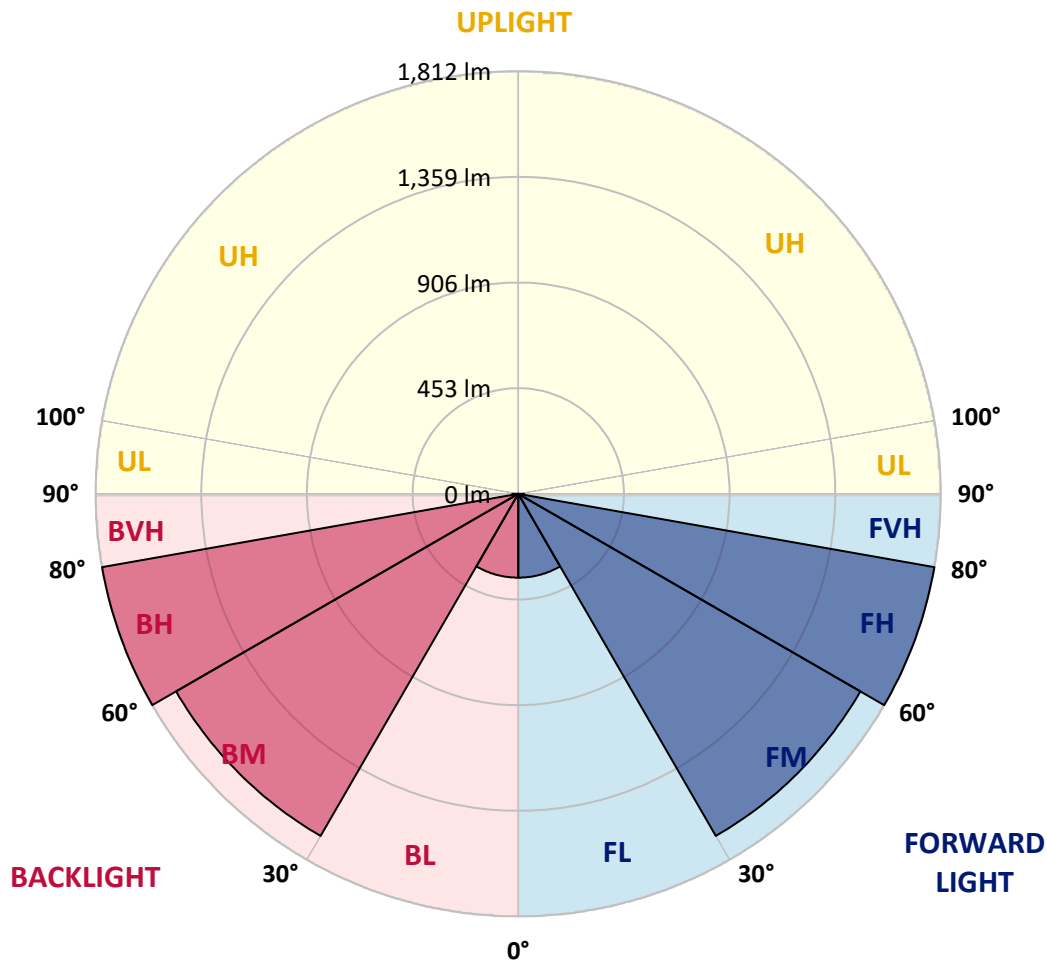
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 359.4 | 4.6 | | | |
| FM (30°-60°) | 1693.4 | 21.8 | | | |
| FH (60°-80°) | 1811.5 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 25.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 359.4 | 4.6 | B1/500 | | |
| BM (30°-60°) | 1693.4 | 21.8 | B2/2500 | | |
| BH (60°-80°) | 1811.5 | 23.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 25.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 | 849.6 |
| 2.5° | 848.3 | 847.5 | 849.3 | 849.1 | 847.5 | 847.8 | 847.8 | 848.6 | 848.6 | 848.0 | 848.0 |
| 5° | 845.2 | 844.7 | 846.8 | 846.8 | 845.2 | 845.7 | 846.2 | 847.0 | 846.8 | 846.2 | 846.0 |
| 7.5° | 841.3 | 841.1 | 843.2 | 843.2 | 842.1 | 842.6 | 842.1 | 842.4 | 841.9 | 841.3 | 840.6 |
| 10° | 834.9 | 835.4 | 837.2 | 837.7 | 837.7 | 838.0 | 837.5 | 836.2 | 835.4 | 834.7 | 833.9 |
| 12.5° | 829.0 | 828.7 | 831.3 | 832.6 | 834.7 | 837.0 | 835.4 | 831.8 | 830.3 | 828.7 | 828.2 |
| 15° | 825.1 | 825.4 | 828.0 | 830.3 | 833.9 | 838.8 | 837.0 | 831.3 | 828.2 | 826.4 | 825.9 |
| 17.5° | 824.4 | 824.9 | 828.2 | 832.3 | 836.2 | 841.6 | 840.6 | 834.9 | 829.8 | 826.4 | 825.6 |
| 20° | 826.2 | 826.4 | 831.6 | 837.5 | 844.2 | 849.3 | 847.0 | 840.8 | 833.9 | 828.7 | 827.4 |
| 22.5° | 829.5 | 830.5 | 837.0 | 846.2 | 856.5 | 863.5 | 860.7 | 850.1 | 839.3 | 832.9 | 831.1 |
| 25° | 840.1 | 840.3 | 849.1 | 861.7 | 874.0 | 882.0 | 878.7 | 863.7 | 849.8 | 842.6 | 840.3 |
| 27.5° | 861.9 | 862.7 | 871.5 | 886.1 | 896.7 | 901.9 | 899.8 | 887.7 | 875.8 | 868.1 | 868.9 |
| 30° | 893.6 | 894.6 | 904.4 | 920.6 | 927.1 | 928.4 | 927.9 | 922.2 | 911.4 | 901.1 | 901.9 |
| 32.5° | 932.2 | 932.7 | 945.9 | 960.5 | 965.7 | 966.7 | 965.7 | 960.5 | 947.7 | 933.8 | 934.5 |
| 35° | 981.9 | 983.5 | 996.1 | 1010.2 | 1014.4 | 1016.4 | 1014.6 | 1007.9 | 994.5 | 980.9 | 980.4 |
| 37.5° | 1043.2 | 1043.4 | 1056.6 | 1071.3 | 1076.4 | 1076.9 | 1074.9 | 1070.5 | 1053.7 | 1041.4 | 1040.6 |
| 40° | 1114.2 | 1115.3 | 1130.7 | 1146.4 | 1148.5 | 1146.2 | 1149.0 | 1146.4 | 1129.2 | 1115.0 | 1117.3 |
| 42.5° | 1200.8 | 1203.1 | 1221.6 | 1237.1 | 1231.1 | 1229.8 | 1231.6 | 1232.4 | 1218.5 | 1201.3 | 1199.7 |
| 45° | 1301.4 | 1303.5 | 1326.6 | 1339.0 | 1335.1 | 1326.6 | 1330.2 | 1336.4 | 1317.1 | 1295.8 | 1297.8 |
| 47.5° | 1416.2 | 1421.4 | 1446.1 | 1457.7 | 1448.2 | 1436.6 | 1443.5 | 1452.8 | 1430.1 | 1403.6 | 1402.3 |
| 50° | 1543.9 | 1550.4 | 1583.3 | 1599.5 | 1590.0 | 1568.6 | 1580.2 | 1586.4 | 1553.7 | 1519.5 | 1516.6 |
| 52.5° | 1680.1 | 1686.6 | 1728.0 | 1761.5 | 1755.3 | 1722.1 | 1738.3 | 1731.9 | 1694.3 | 1648.2 | 1644.6 |
| 55° | 1834.3 | 1836.9 | 1881.7 | 1935.8 | 1942.0 | 1917.5 | 1916.5 | 1905.9 | 1850.3 | 1797.0 | 1794.4 |
| 57.5° | 1992.9 | 1994.7 | 2052.7 | 2116.5 | 2145.6 | 2145.6 | 2116.8 | 2094.4 | 2020.5 | 1958.7 | 1952.2 |
| 60° | 2164.1 | 2170.6 | 2234.7 | 2321.4 | 2389.4 | 2409.5 | 2358.5 | 2297.5 | 2217.2 | 2141.7 | 2134.3 |
| 62.5° | 2316.5 | 2324.0 | 2422.1 | 2551.3 | 2660.5 | 2733.6 | 2609.0 | 2509.6 | 2363.4 | 2242.4 | 2228.2 |
| 65° | 2335.9 | 2355.9 | 2498.8 | 2732.8 | 2977.2 | 3123.1 | 2884.2 | 2639.4 | 2372.9 | 2204.8 | 2190.4 |
| 67.5° | 2133.2 | 2167.2 | 2360.3 | 2724.6 | 3229.5 | 3542.8 | 3060.1 | 2565.2 | 2202.0 | 2016.1 | 2000.1 |
| 70° | 1639.2 | 1688.6 | 1911.3 | 2383.2 | 3186.0 | 3677.9 | 2949.9 | 2245.7 | 1835.9 | 1635.8 | 1613.4 |
| 72.5° | 899.3 | 919.6 | 1119.9 | 1632.0 | 2554.2 | 3125.5 | 2460.5 | 1660.6 | 1217.5 | 990.7 | 953.1 |
| 75° | 285.3 | 292.5 | 394.4 | 667.8 | 1444.8 | 2070.2 | 1563.0 | 815.1 | 448.7 | 330.8 | 327.0 |
| 77.5° | 126.7 | 127.4 | 142.6 | 194.9 | 497.7 | 1048.9 | 597.8 | 221.9 | 152.9 | 133.6 | 138.0 |
| 80° | 80.1 | 80.1 | 88.3 | 96.5 | 135.4 | 304.6 | 161.7 | 105.6 | 90.1 | 83.7 | 85.5 |
| 82.5° | 38.4 | 42.5 | 57.4 | 61.8 | 74.4 | 102.5 | 82.9 | 69.0 | 60.2 | 44.8 | 41.7 |
| 85° | 25.2 | 21.1 | 36.3 | 40.9 | 43.3 | 49.2 | 48.1 | 45.6 | 39.4 | 22.4 | 25.0 |
| 87.5° | 11.3 | 10.8 | 18.8 | 17.2 | 16.2 | 12.4 | 18.5 | 22.9 | 22.1 | 11.1 | 11.1 |
| 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)