

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: P316825

Luminaire Tested: **GAN-SA1A-750-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5033 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

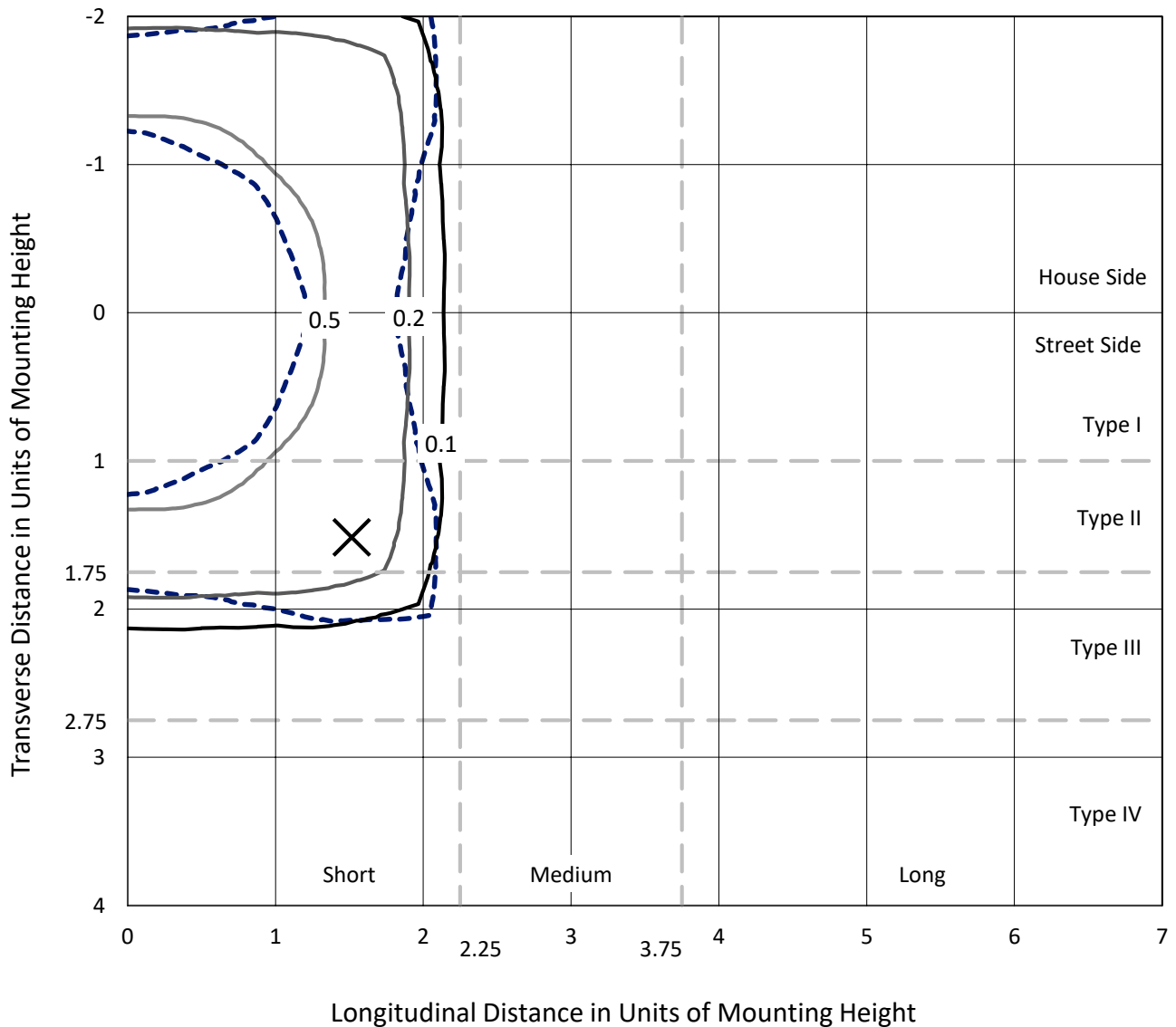
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

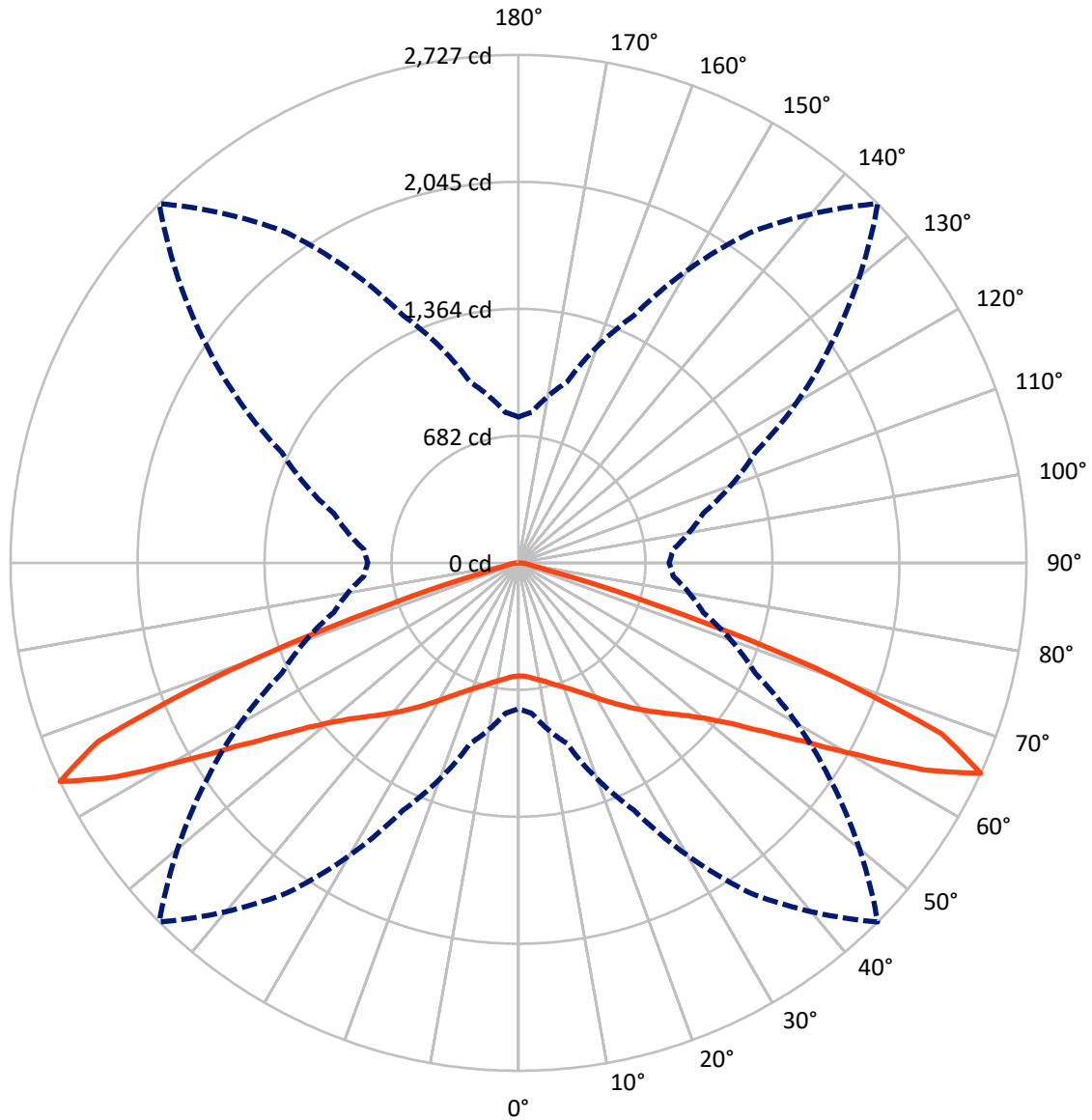
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2516.5 | 0.0 | 2516.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2516.5 | 0.0 | 2516.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5033.0 | 0.0 | 5033.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.6 | 1.2 |
| 10°-20° | 191.7 | 3.8 |
| 20°-30° | 359.6 | 7.1 |
| 30°-40° | 594.7 | 11.8 |
| 40°-50° | 921.2 | 18.3 |
| 50°-60° | 1412.8 | 28.1 |
| 60°-70° | 1318.3 | 26.2 |
| 70°-80° | 153.4 | 3.0 |
| 80°-90° | 21.6 | 0.4 |
| 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° | 5033.0 | 100.0 |
| 0°-180° | 5033.0 | 100.0 |

Coefficient of Utilization



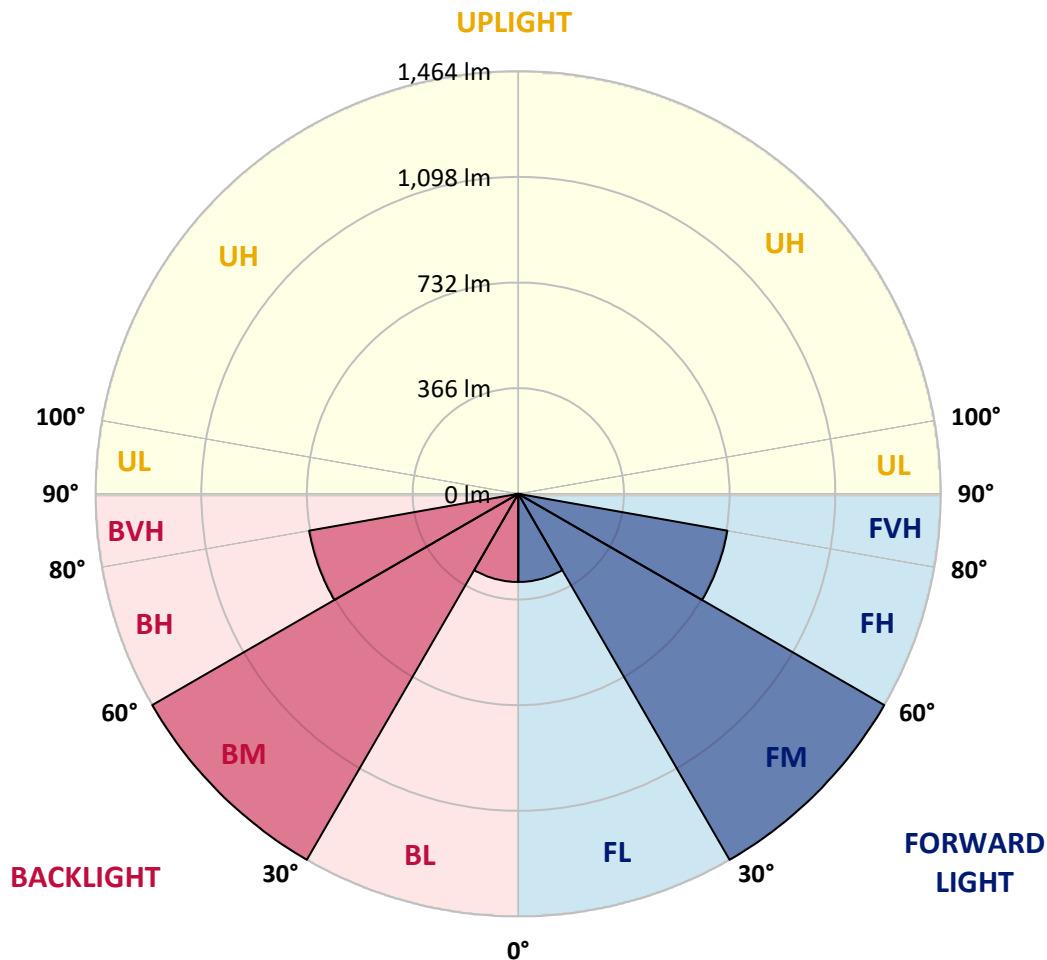
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 305.5 | 6.1 | | | |
| FM (30°-60°) | 1464.4 | 29.1 | | | |
| FH (60°-80°) | 735.9 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 10.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 305.5 | 6.1 | B1/500 | | |
| BM (30°-60°) | 1464.4 | 29.1 | B2/2500 | | |
| BH (60°-80°) | 735.9 | 14.6 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 10.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 | 607.8 |
| 2.5° | 609.8 | 609.5 | 609.8 | 610.0 | 609.0 | 609.5 | 609.3 | 610.1 | 610.5 | 610.1 | 610.1 |
| 5° | 616.8 | 616.3 | 617.0 | 617.8 | 616.5 | 616.8 | 616.3 | 617.3 | 617.7 | 617.0 | 617.5 |
| 7.5° | 626.5 | 626.7 | 627.3 | 628.8 | 628.0 | 628.7 | 627.7 | 627.8 | 627.7 | 626.7 | 626.8 |
| 10° | 637.0 | 637.2 | 638.4 | 640.4 | 640.7 | 640.7 | 640.0 | 639.5 | 638.9 | 638.2 | 638.4 |
| 12.5° | 649.7 | 650.6 | 651.4 | 653.9 | 653.9 | 655.2 | 654.9 | 653.6 | 652.4 | 651.4 | 651.4 |
| 15° | 666.9 | 666.8 | 667.8 | 670.3 | 671.5 | 673.6 | 673.6 | 671.8 | 670.3 | 669.3 | 668.9 |
| 17.5° | 685.0 | 685.5 | 686.2 | 689.2 | 691.0 | 693.5 | 693.8 | 692.3 | 691.3 | 690.0 | 689.2 |
| 20° | 706.0 | 706.9 | 709.5 | 710.7 | 712.4 | 714.7 | 715.6 | 715.2 | 714.2 | 713.6 | 713.7 |
| 22.5° | 730.6 | 732.8 | 734.4 | 736.1 | 738.1 | 739.8 | 740.6 | 741.8 | 740.8 | 740.3 | 740.0 |
| 25° | 760.3 | 761.8 | 765.2 | 768.2 | 769.5 | 770.0 | 771.0 | 772.7 | 772.5 | 771.4 | 771.4 |
| 27.5° | 794.1 | 796.9 | 801.1 | 805.4 | 805.4 | 803.8 | 807.1 | 810.0 | 809.0 | 807.4 | 805.4 |
| 30° | 835.0 | 837.7 | 842.5 | 848.5 | 845.5 | 844.4 | 848.9 | 854.1 | 852.6 | 850.0 | 849.7 |
| 32.5° | 879.1 | 881.6 | 888.0 | 894.5 | 890.6 | 889.0 | 893.8 | 901.3 | 898.7 | 893.7 | 890.6 |
| 35° | 926.9 | 929.4 | 938.4 | 946.3 | 939.8 | 936.9 | 940.9 | 949.1 | 944.4 | 935.1 | 932.7 |
| 37.5° | 978.9 | 980.2 | 991.9 | 999.9 | 995.4 | 987.9 | 992.9 | 998.9 | 994.9 | 983.5 | 979.0 |
| 40° | 1032.8 | 1037.7 | 1051.2 | 1060.6 | 1052.7 | 1040.8 | 1049.2 | 1057.5 | 1051.5 | 1037.0 | 1029.3 |
| 42.5° | 1095.8 | 1099.5 | 1117.5 | 1125.9 | 1113.2 | 1096.5 | 1107.8 | 1119.2 | 1113.2 | 1099.1 | 1092.5 |
| 45° | 1161.3 | 1167.0 | 1188.5 | 1196.9 | 1178.5 | 1157.3 | 1171.2 | 1191.0 | 1190.5 | 1170.3 | 1163.3 |
| 47.5° | 1232.6 | 1238.3 | 1264.0 | 1275.1 | 1255.2 | 1226.8 | 1246.3 | 1274.4 | 1272.4 | 1250.2 | 1244.5 |
| 50° | 1315.0 | 1321.0 | 1353.1 | 1367.0 | 1348.4 | 1315.3 | 1344.7 | 1369.5 | 1365.8 | 1338.4 | 1338.9 |
| 52.5° | 1418.4 | 1418.1 | 1458.0 | 1482.1 | 1463.0 | 1433.8 | 1460.9 | 1484.9 | 1469.7 | 1431.8 | 1430.6 |
| 55° | 1509.0 | 1514.5 | 1563.9 | 1609.5 | 1608.4 | 1597.2 | 1608.0 | 1609.0 | 1565.6 | 1515.2 | 1509.0 |
| 57.5° | 1568.4 | 1579.0 | 1648.6 | 1731.2 | 1793.0 | 1807.9 | 1786.8 | 1723.0 | 1621.2 | 1540.5 | 1530.7 |
| 60° | 1531.9 | 1547.9 | 1657.3 | 1825.6 | 2007.7 | 2095.1 | 1976.3 | 1778.3 | 1578.0 | 1465.5 | 1452.2 |
| 62.5° | 1284.9 | 1312.0 | 1472.2 | 1780.0 | 2192.5 | 2447.9 | 2113.6 | 1689.6 | 1405.9 | 1251.0 | 1228.1 |
| 65° | 782.6 | 811.1 | 1004.3 | 1465.0 | 2162.5 | 2727.2 | 2050.9 | 1402.4 | 1026.1 | 833.5 | 808.8 |
| 67.5° | 260.8 | 269.1 | 382.9 | 809.8 | 1699.6 | 2450.4 | 1702.4 | 839.5 | 446.6 | 296.0 | 287.4 |
| 70° | 102.1 | 102.9 | 121.5 | 234.7 | 802.6 | 1683.1 | 885.6 | 238.9 | 127.0 | 100.4 | 102.6 |
| 72.5° | 75.0 | 75.3 | 80.5 | 98.1 | 209.2 | 741.5 | 216.7 | 98.6 | 78.4 | 70.3 | 70.3 |
| 75° | 60.3 | 60.3 | 64.0 | 71.5 | 93.7 | 170.1 | 95.1 | 70.7 | 61.3 | 56.1 | 55.5 |
| 77.5° | 47.6 | 48.6 | 51.5 | 56.3 | 63.5 | 81.9 | 65.8 | 56.0 | 49.5 | 44.6 | 43.6 |
| 80° | 35.4 | 36.4 | 41.1 | 43.4 | 45.6 | 56.8 | 48.6 | 43.8 | 39.1 | 33.4 | 32.4 |
| 82.5° | 23.2 | 24.2 | 30.1 | 31.4 | 30.9 | 37.1 | 32.7 | 32.2 | 28.7 | 21.6 | 20.5 |
| 85° | 15.2 | 15.5 | 20.0 | 20.9 | 19.2 | 16.9 | 20.9 | 22.1 | 20.0 | 14.0 | 13.5 |
| 87.5° | 7.2 | 7.2 | 10.2 | 9.5 | 8.7 | 7.0 | 9.5 | 11.2 | 11.4 | 6.8 | 6.7 |
| 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)