

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: CORELITE

Report Number: P189583

Luminaire Tested: **BRG-WS-5L35-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34878)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-5L35-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 5 (1285 mA)
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

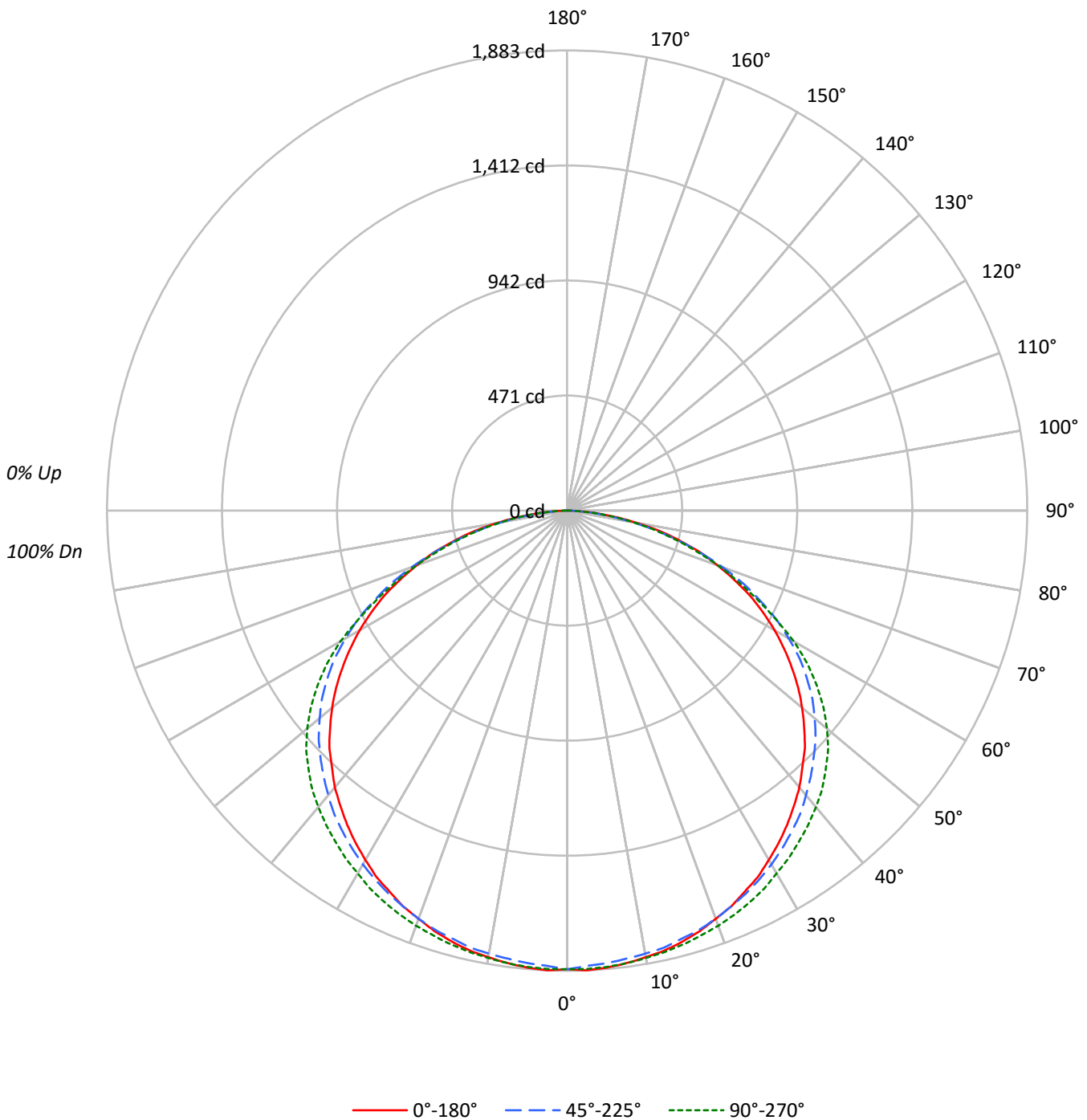
Lumens per Lamp: N/A
Luminaire Lumens: 6151.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.36 / 1.47
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.5
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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 56 |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 50 | 60 | 54 | 50 | 47 |
| 5 | 74 | 61 | 51 | 45 | 72 | 60 | 51 | 44 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 41 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 38 | 52 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5750 | 5750 | 5750 |
| 5° | 5772 | 5716 | 5762 |
| 10° | 5772 | 5726 | 5782 |
| 15° | 5790 | 5751 | 5828 |
| 20° | 5794 | 5794 | 5892 |
| 25° | 5814 | 5844 | 5977 |
| 30° | 5838 | 5913 | 6063 |
| 35° | 5868 | 5992 | 6184 |
| 40° | 5913 | 6082 | 6335 |
| 45° | 5961 | 6183 | 6484 |
| 50° | 5982 | 6299 | 6615 |
| 55° | 5995 | 6398 | 6656 |
| 60° | 6008 | 6415 | 6563 |
| 65° | 5993 | 6321 | 6212 |
| 70° | 5865 | 6054 | 5891 |
| 75° | 5679 | 5535 | 5429 |
| 80° | 5110 | 4738 | 4791 |
| 85° | 4031 | 3606 | 3395 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.0 | 2.9 |
| 10°-20° | 516.2 | 8.4 |
| 20°-30° | 802.6 | 13.0 |
| 30°-40° | 1007.4 | 16.4 |
| 40°-50° | 1105.2 | 18.0 |
| 50°-60° | 1063.4 | 17.3 |
| 60°-70° | 848.1 | 13.8 |
| 70°-80° | 503.1 | 8.2 |
| 80°-90° | 127.1 | 2.1 |
| 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°-30° | 1496.8 | 24.3 |
| 0°-40° | 2504.2 | 40.7 |
| 0°-60° | 4672.8 | 76.0 |
| 0°-90° | 6151.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6151.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1877 | 1877 | 1877 | 1877 | 1877 | |
| 5° | 1877 | 1874 | 1859 | 1874 | 1874 | 178 |
| 15° | 1826 | 1823 | 1814 | 1835 | 1838 | 516 |
| 25° | 1720 | 1723 | 1729 | 1759 | 1768 | 794 |
| 35° | 1569 | 1575 | 1602 | 1642 | 1654 | 982 |
| 45° | 1376 | 1388 | 1427 | 1479 | 1497 | 1059 |
| 55° | 1123 | 1150 | 1198 | 1234 | 1246 | 1004 |
| 65° | 827 | 860 | 872 | 860 | 857 | 814 |
| 75° | 480 | 516 | 468 | 459 | 459 | 505 |
| 85° | 115 | 109 | 103 | 97 | 97 | 135 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: BRG-WS-5L35-LD2-UNV-14-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1877.0 | 1877.0 | 1877.0 | 1877.0 | 1877.0 |
| 2.5° | 1883.0 | 1880.0 | 1864.9 | 1880.0 | 1877.0 |
| 5° | 1877.0 | 1874.0 | 1858.9 | 1874.0 | 1874.0 |
| 7.5° | 1867.9 | 1864.9 | 1849.8 | 1867.9 | 1867.9 |
| 10° | 1855.8 | 1852.8 | 1840.8 | 1858.9 | 1858.9 |
| 12.5° | 1843.8 | 1840.8 | 1831.7 | 1849.8 | 1849.8 |
| 15° | 1825.7 | 1822.7 | 1813.6 | 1834.7 | 1837.7 |
| 17.5° | 1804.5 | 1801.5 | 1798.5 | 1822.7 | 1822.7 |
| 20° | 1777.4 | 1777.4 | 1777.4 | 1804.5 | 1807.6 |
| 22.5° | 1753.2 | 1753.2 | 1753.2 | 1783.4 | 1789.5 |
| 25° | 1720.1 | 1723.1 | 1729.1 | 1759.3 | 1768.3 |
| 27.5° | 1689.9 | 1689.9 | 1701.9 | 1735.1 | 1744.2 |
| 30° | 1650.6 | 1656.7 | 1671.8 | 1705.0 | 1714.0 |
| 32.5° | 1611.4 | 1620.5 | 1638.6 | 1674.8 | 1686.9 |
| 35° | 1569.2 | 1575.2 | 1602.4 | 1641.6 | 1653.7 |
| 37.5° | 1523.9 | 1533.0 | 1566.2 | 1608.4 | 1620.5 |
| 40° | 1478.6 | 1487.7 | 1520.9 | 1569.2 | 1584.3 |
| 42.5° | 1424.3 | 1439.4 | 1475.6 | 1523.9 | 1545.0 |
| 45° | 1376.0 | 1388.1 | 1427.3 | 1478.6 | 1496.7 |
| 47.5° | 1315.7 | 1333.8 | 1379.1 | 1427.3 | 1448.5 |
| 50° | 1255.3 | 1276.5 | 1321.7 | 1373.0 | 1388.1 |
| 52.5° | 1192.0 | 1216.1 | 1264.4 | 1306.6 | 1321.7 |
| 55° | 1122.6 | 1149.7 | 1198.0 | 1234.2 | 1246.3 |
| 57.5° | 1053.2 | 1086.3 | 1128.6 | 1152.7 | 1164.8 |
| 60° | 980.7 | 1010.9 | 1047.1 | 1065.2 | 1071.3 |
| 62.5° | 905.3 | 935.5 | 965.6 | 962.6 | 962.6 |
| 65° | 826.8 | 860.0 | 872.1 | 860.0 | 857.0 |
| 67.5° | 739.3 | 778.6 | 778.6 | 757.4 | 754.4 |
| 70° | 654.8 | 694.1 | 676.0 | 654.8 | 657.8 |
| 72.5° | 573.4 | 609.6 | 570.3 | 552.2 | 555.2 |
| 75° | 479.8 | 516.0 | 467.7 | 458.7 | 458.7 |
| 77.5° | 389.3 | 413.4 | 368.2 | 362.1 | 365.1 |
| 80° | 289.7 | 310.8 | 268.6 | 265.6 | 271.6 |
| 82.5° | 196.1 | 202.2 | 178.0 | 181.1 | 187.1 |
| 85° | 114.7 | 108.6 | 102.6 | 96.6 | 96.6 |
| 87.5° | 42.2 | 42.2 | 33.2 | 30.2 | 27.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)