

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: P189652

Luminaire Tested: **BRG-WS-4L30-LD2-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WS-4L30-LD2-UNV-24-STD
Description: BRIDGE 2x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE LIGHT LEVEL 4 (1260 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

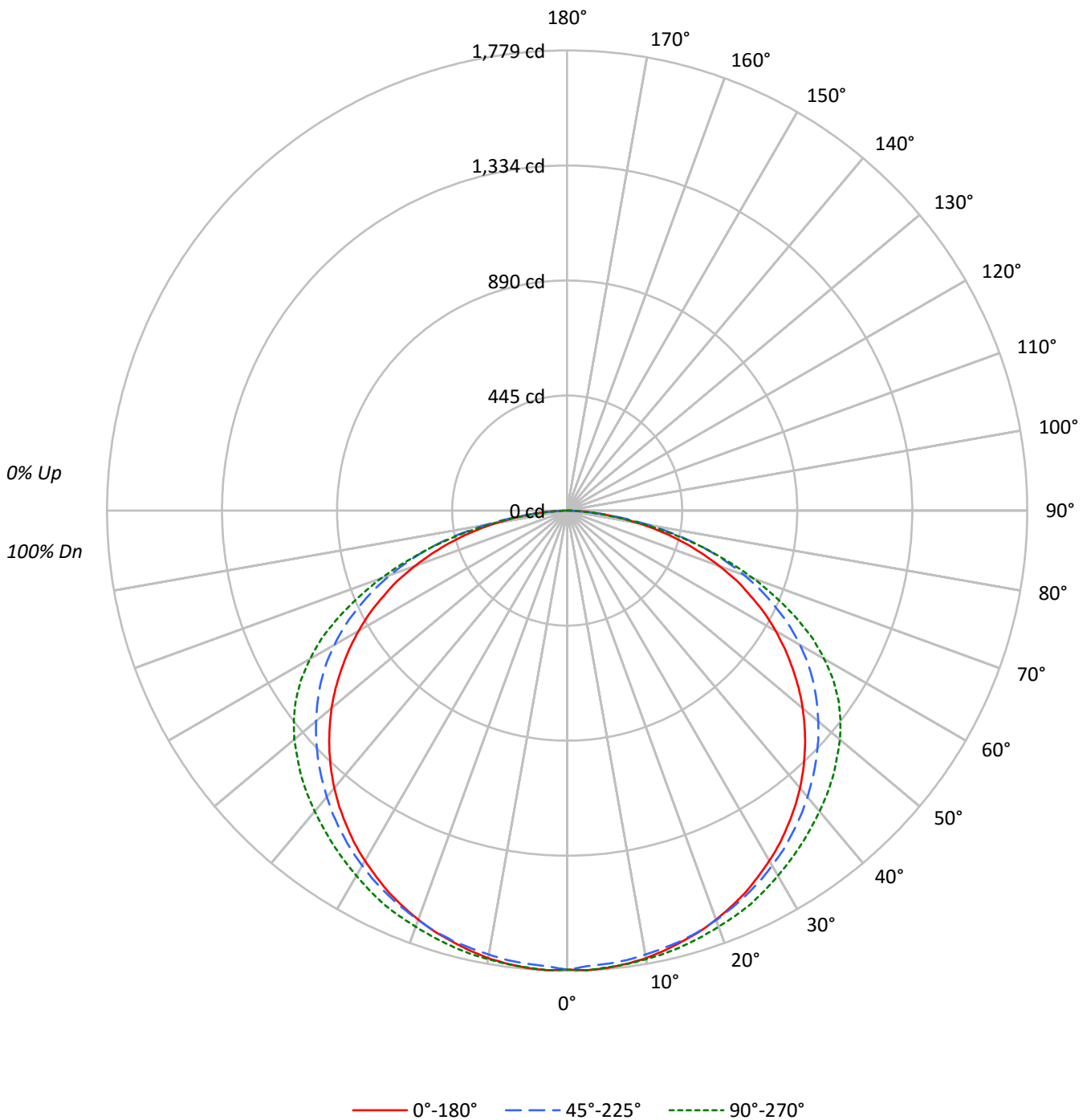
Lumens per Lamp: N/A
Luminaire Lumens: 6037.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.37 / 1.48
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 |
| 2 | 97 | 88 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 76 | 73 | 69 | 67 |
| 3 | 88 | 77 | 68 | 61 | 86 | 75 | 67 | 61 | 72 | 65 | 60 | 69 | 63 | 58 | 67 | 62 | 57 | 55 |
| 4 | 80 | 68 | 58 | 51 | 78 | 66 | 58 | 51 | 64 | 56 | 50 | 61 | 55 | 49 | 59 | 53 | 49 | 46 |
| 5 | 74 | 60 | 51 | 44 | 71 | 59 | 50 | 43 | 57 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 42 | 40 |
| 6 | 68 | 54 | 44 | 38 | 66 | 53 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 34 |
| 7 | 63 | 49 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | 45 | 38 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 57 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 27 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2718 | 2718 | 2718 |
| 5° | 2729 | 2704 | 2726 |
| 10° | 2733 | 2711 | 2739 |
| 15° | 2733 | 2727 | 2761 |
| 20° | 2743 | 2746 | 2790 |
| 25° | 2754 | 2771 | 2837 |
| 30° | 2765 | 2803 | 2882 |
| 35° | 2780 | 2842 | 2948 |
| 40° | 2800 | 2890 | 3035 |
| 45° | 2817 | 2949 | 3148 |
| 50° | 2833 | 3020 | 3281 |
| 55° | 2840 | 3107 | 3421 |
| 60° | 2850 | 3186 | 3516 |
| 65° | 2840 | 3237 | 3528 |
| 70° | 2798 | 3254 | 3430 |
| 75° | 2701 | 3199 | 3165 |
| 80° | 2471 | 2799 | 2591 |
| 85° | 1963 | 1859 | 1687 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.4 | 2.8 |
| 10°-20° | 488.6 | 8.1 |
| 20°-30° | 760.5 | 12.6 |
| 30°-40° | 956.5 | 15.8 |
| 40°-50° | 1057.2 | 17.5 |
| 50°-60° | 1042.7 | 17.3 |
| 60°-70° | 877.0 | 14.5 |
| 70°-80° | 547.8 | 9.1 |
| 80°-90° | 138.4 | 2.3 |
| 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° | 1417.5 | 23.5 |
| 0°-40° | 2374.0 | 39.3 |
| 0°-60° | 4473.9 | 74.1 |
| 0°-90° | 6037.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6037.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1775 | 1775 | 1775 | 1775 | 1775 | |
| 5° | 1775 | 1771 | 1759 | 1773 | 1773 | 169 |
| 15° | 1724 | 1724 | 1720 | 1738 | 1741 | 487 |
| 25° | 1630 | 1630 | 1640 | 1669 | 1679 | 751 |
| 35° | 1487 | 1495 | 1520 | 1561 | 1577 | 931 |
| 45° | 1301 | 1316 | 1361 | 1424 | 1454 | 1003 |
| 55° | 1064 | 1093 | 1164 | 1242 | 1281 | 951 |
| 65° | 784 | 832 | 893 | 954 | 974 | 776 |
| 75° | 456 | 525 | 541 | 533 | 535 | 480 |
| 85° | 112 | 131 | 106 | 98 | 96 | 133 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1774.7 | 1774.7 | 1774.7 | 1774.7 | 1774.7 |
| 2.5° | 1778.6 | 1776.7 | 1763.0 | 1776.7 | 1778.6 |
| 5° | 1774.7 | 1770.8 | 1759.0 | 1772.8 | 1772.8 |
| 7.5° | 1766.9 | 1763.0 | 1753.2 | 1766.9 | 1768.8 |
| 10° | 1757.1 | 1753.2 | 1743.4 | 1761.0 | 1761.0 |
| 12.5° | 1741.4 | 1739.5 | 1731.6 | 1749.3 | 1753.2 |
| 15° | 1723.8 | 1723.8 | 1719.9 | 1737.5 | 1741.4 |
| 17.5° | 1706.2 | 1704.2 | 1704.2 | 1725.7 | 1727.7 |
| 20° | 1682.7 | 1682.7 | 1684.6 | 1708.1 | 1712.0 |
| 22.5° | 1657.2 | 1657.2 | 1663.1 | 1690.5 | 1696.4 |
| 25° | 1629.8 | 1629.8 | 1639.6 | 1668.9 | 1678.7 |
| 27.5° | 1596.5 | 1600.4 | 1614.1 | 1645.4 | 1655.2 |
| 30° | 1563.2 | 1567.1 | 1584.7 | 1618.0 | 1629.8 |
| 32.5° | 1527.9 | 1533.8 | 1555.3 | 1590.6 | 1604.3 |
| 35° | 1486.8 | 1494.6 | 1520.1 | 1561.2 | 1576.9 |
| 37.5° | 1445.6 | 1451.5 | 1484.8 | 1529.9 | 1547.5 |
| 40° | 1400.6 | 1408.4 | 1445.6 | 1496.6 | 1518.1 |
| 42.5° | 1351.6 | 1365.3 | 1404.5 | 1461.3 | 1486.8 |
| 45° | 1300.7 | 1316.3 | 1361.4 | 1424.1 | 1453.5 |
| 47.5° | 1245.8 | 1265.4 | 1316.3 | 1384.9 | 1414.3 |
| 50° | 1189.0 | 1208.6 | 1267.4 | 1341.8 | 1377.1 |
| 52.5° | 1128.3 | 1153.8 | 1216.4 | 1294.8 | 1332.0 |
| 55° | 1063.7 | 1093.0 | 1163.6 | 1241.9 | 1281.1 |
| 57.5° | 999.0 | 1036.2 | 1104.8 | 1183.1 | 1220.4 |
| 60° | 930.5 | 967.7 | 1040.1 | 1114.6 | 1147.9 |
| 62.5° | 861.9 | 899.1 | 971.6 | 1038.2 | 1069.5 |
| 65° | 783.5 | 832.5 | 893.2 | 954.0 | 973.5 |
| 67.5° | 711.1 | 760.0 | 814.9 | 858.0 | 871.7 |
| 70° | 624.9 | 683.6 | 726.7 | 756.1 | 765.9 |
| 72.5° | 542.6 | 605.3 | 636.6 | 642.5 | 650.3 |
| 75° | 456.4 | 525.0 | 540.6 | 532.8 | 534.8 |
| 77.5° | 370.2 | 436.8 | 432.9 | 415.3 | 417.2 |
| 80° | 280.1 | 340.8 | 317.3 | 301.7 | 293.8 |
| 82.5° | 192.0 | 242.9 | 207.6 | 188.0 | 186.1 |
| 85° | 111.7 | 131.2 | 105.8 | 97.9 | 96.0 |
| 87.5° | 45.1 | 50.9 | 35.3 | 25.5 | 23.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)