

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: P189615

Luminaire Tested: **BRG-WD-2L40-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34884)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-2L40-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 2 (635 mA)
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

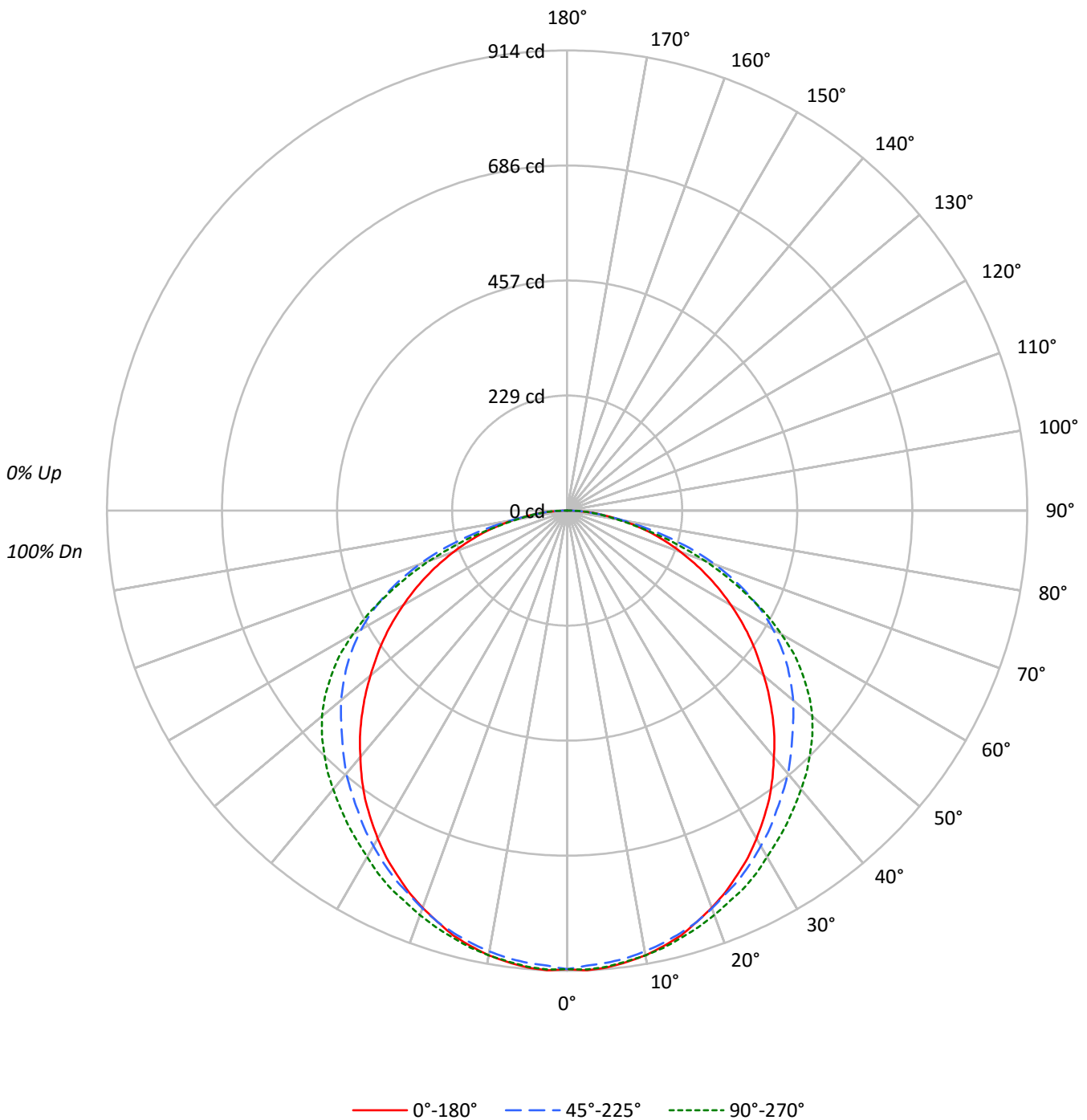
Lumens per Lamp: N/A
Luminaire Lumens: 2763.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.1
Input Voltage (V): NR
Input Current (A_{in}): 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 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 82 | 76 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 62 | 74 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 61 | 55 | 50 | 48 |
| 5 | 75 | 61 | 52 | 45 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 32 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2790 | 2790 | 2790 |
| 5° | 2801 | 2772 | 2796 |
| 10° | 2790 | 2766 | 2790 |
| 15° | 2770 | 2756 | 2785 |
| 20° | 2736 | 2741 | 2787 |
| 25° | 2700 | 2732 | 2800 |
| 30° | 2661 | 2721 | 2810 |
| 35° | 2616 | 2715 | 2842 |
| 40° | 2554 | 2729 | 2890 |
| 45° | 2498 | 2740 | 2956 |
| 50° | 2429 | 2793 | 3029 |
| 55° | 2374 | 2848 | 3055 |
| 60° | 2305 | 2895 | 3009 |
| 65° | 2231 | 2896 | 2851 |
| 70° | 2144 | 2798 | 2604 |
| 75° | 2061 | 2502 | 2207 |
| 80° | 1919 | 2002 | 1782 |
| 85° | 1747 | 1638 | 1694 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.2 | 3.1 |
| 10°-20° | 246.6 | 8.9 |
| 20°-30° | 374.2 | 13.5 |
| 30°-40° | 456.1 | 16.5 |
| 40°-50° | 488.2 | 17.7 |
| 50°-60° | 465.5 | 16.8 |
| 60°-70° | 372.6 | 13.5 |
| 70°-80° | 215.7 | 7.8 |
| 80°-90° | 57.9 | 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° | 707.0 | 25.6 |
| 0°-40° | 1163.0 | 42.1 |
| 0°-60° | 2116.8 | 76.6 |
| 0°-90° | 2763.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2763.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 911 | 911 | 911 | 911 | 911 | |
| 5° | 911 | 909 | 902 | 909 | 909 | 86 |
| 15° | 874 | 872 | 869 | 878 | 878 | 246 |
| 25° | 799 | 802 | 808 | 824 | 828 | 368 |
| 35° | 700 | 706 | 726 | 751 | 760 | 437 |
| 45° | 577 | 595 | 633 | 672 | 682 | 445 |
| 55° | 445 | 480 | 533 | 566 | 572 | 397 |
| 65° | 308 | 362 | 400 | 398 | 393 | 305 |
| 75° | 174 | 232 | 211 | 193 | 186 | 183 |
| 85° | 50 | 53 | 47 | 48 | 48 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 910.9 | 910.9 | 910.9 | 910.9 | 910.9 |
| 2.5° | 914.0 | 912.4 | 904.6 | 910.9 | 912.4 |
| 5° | 910.9 | 909.3 | 901.5 | 909.3 | 909.3 |
| 7.5° | 904.6 | 903.1 | 896.9 | 904.6 | 903.1 |
| 10° | 896.9 | 895.3 | 889.1 | 896.9 | 896.9 |
| 12.5° | 886.0 | 884.4 | 879.8 | 889.1 | 889.1 |
| 15° | 873.6 | 872.0 | 868.9 | 878.2 | 878.2 |
| 17.5° | 856.5 | 856.5 | 856.5 | 865.8 | 867.3 |
| 20° | 839.4 | 840.9 | 840.9 | 853.4 | 854.9 |
| 22.5° | 820.7 | 822.3 | 823.8 | 839.4 | 840.9 |
| 25° | 798.9 | 802.1 | 808.3 | 823.8 | 828.5 |
| 27.5° | 777.2 | 780.3 | 789.6 | 806.7 | 812.9 |
| 30° | 752.3 | 755.4 | 769.4 | 788.1 | 794.3 |
| 32.5° | 725.9 | 732.1 | 749.2 | 769.4 | 777.2 |
| 35° | 699.5 | 705.7 | 725.9 | 750.8 | 760.1 |
| 37.5° | 669.9 | 679.3 | 704.1 | 732.1 | 741.4 |
| 40° | 638.8 | 652.8 | 682.4 | 713.5 | 722.8 |
| 42.5° | 609.3 | 623.3 | 657.5 | 691.7 | 704.1 |
| 45° | 576.7 | 595.3 | 632.6 | 671.5 | 682.4 |
| 47.5° | 544.0 | 565.8 | 609.3 | 648.2 | 660.6 |
| 50° | 509.8 | 537.8 | 586.0 | 623.3 | 635.7 |
| 52.5° | 477.2 | 508.3 | 559.6 | 595.3 | 606.2 |
| 55° | 444.6 | 480.3 | 533.2 | 565.8 | 572.0 |
| 57.5° | 410.4 | 450.8 | 503.6 | 531.6 | 536.3 |
| 60° | 376.2 | 421.2 | 472.5 | 491.2 | 491.2 |
| 62.5° | 342.0 | 391.7 | 438.3 | 447.7 | 446.1 |
| 65° | 307.8 | 362.2 | 399.5 | 397.9 | 393.3 |
| 67.5° | 273.6 | 332.6 | 357.5 | 346.6 | 342.0 |
| 70° | 239.4 | 300.0 | 312.4 | 295.3 | 290.7 |
| 72.5° | 206.7 | 268.9 | 264.2 | 244.0 | 236.3 |
| 75° | 174.1 | 231.6 | 211.4 | 192.7 | 186.5 |
| 77.5° | 139.9 | 194.3 | 161.7 | 143.0 | 136.8 |
| 80° | 108.8 | 149.2 | 113.5 | 102.6 | 101.0 |
| 82.5° | 77.7 | 97.9 | 74.6 | 73.1 | 73.1 |
| 85° | 49.7 | 52.8 | 46.6 | 48.2 | 48.2 |
| 87.5° | 21.8 | 23.3 | 24.9 | 26.4 | 26.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)