

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: P189610

Luminaire Tested: **BRG-WD-2L35-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189610
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-2L35-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

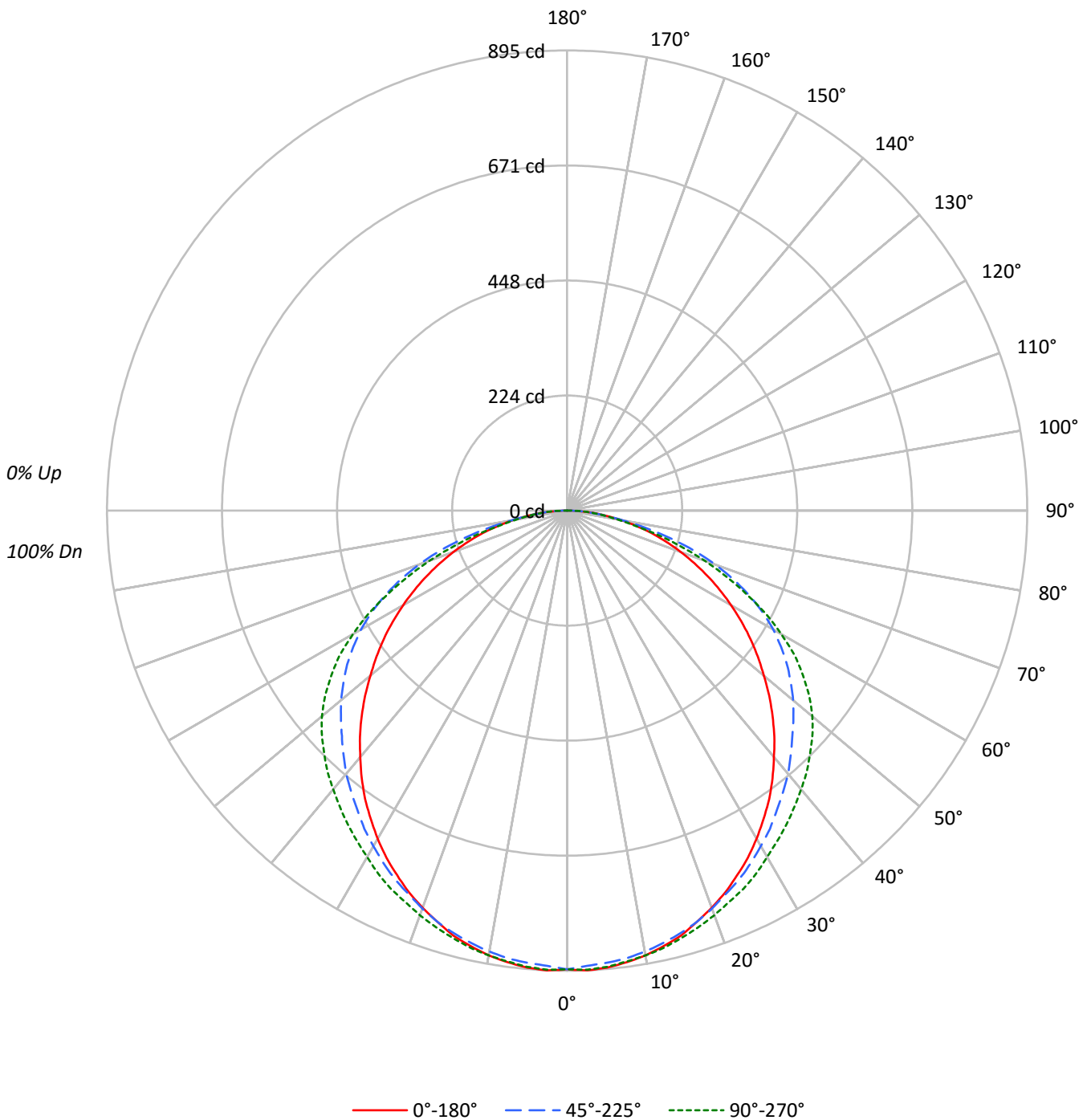
Lumens per Lamp: N/A
Luminaire Lumens: 2706.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

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° | 2733 | 2733 | 2733 |
| 5° | 2743 | 2715 | 2739 |
| 10° | 2733 | 2709 | 2733 |
| 15° | 2714 | 2699 | 2728 |
| 20° | 2680 | 2685 | 2730 |
| 25° | 2645 | 2676 | 2743 |
| 30° | 2607 | 2666 | 2752 |
| 35° | 2562 | 2659 | 2784 |
| 40° | 2502 | 2673 | 2831 |
| 45° | 2447 | 2685 | 2896 |
| 50° | 2380 | 2735 | 2968 |
| 55° | 2325 | 2789 | 2992 |
| 60° | 2257 | 2835 | 2947 |
| 65° | 2185 | 2836 | 2792 |
| 70° | 2100 | 2741 | 2550 |
| 75° | 2018 | 2451 | 2162 |
| 80° | 1880 | 1960 | 1746 |
| 85° | 1712 | 1606 | 1659 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.4 | 3.1 |
| 10°-20° | 241.5 | 8.9 |
| 20°-30° | 366.5 | 13.5 |
| 30°-40° | 446.7 | 16.5 |
| 40°-50° | 478.2 | 17.7 |
| 50°-60° | 456.0 | 16.8 |
| 60°-70° | 364.9 | 13.5 |
| 70°-80° | 211.3 | 7.8 |
| 80°-90° | 56.7 | 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° | 692.5 | 25.6 |
| 0°-40° | 1139.2 | 42.1 |
| 0°-60° | 2073.4 | 76.6 |
| 0°-90° | 2706.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2706.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 892 | 892 | 892 | 892 | 892 | |
| 5° | 892 | 891 | 883 | 891 | 891 | 85 |
| 15° | 856 | 854 | 851 | 860 | 860 | 241 |
| 25° | 783 | 786 | 792 | 807 | 812 | 361 |
| 35° | 685 | 691 | 711 | 735 | 744 | 428 |
| 45° | 565 | 583 | 620 | 658 | 668 | 436 |
| 55° | 435 | 470 | 522 | 554 | 560 | 389 |
| 65° | 302 | 355 | 391 | 390 | 385 | 298 |
| 75° | 170 | 227 | 207 | 189 | 183 | 179 |
| 85° | 49 | 52 | 46 | 47 | 47 | 54 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P189610

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 892.2 | 892.2 | 892.2 | 892.2 | 892.2 |
| 2.5° | 895.2 | 893.7 | 886.1 | 892.2 | 893.7 |
| 5° | 892.2 | 890.7 | 883.1 | 890.7 | 890.7 |
| 7.5° | 886.1 | 884.6 | 878.5 | 886.1 | 884.6 |
| 10° | 878.5 | 877.0 | 870.9 | 878.5 | 878.5 |
| 12.5° | 867.8 | 866.3 | 861.7 | 870.9 | 870.9 |
| 15° | 855.7 | 854.1 | 851.1 | 860.2 | 860.2 |
| 17.5° | 838.9 | 838.9 | 838.9 | 848.0 | 849.6 |
| 20° | 822.2 | 823.7 | 823.7 | 835.9 | 837.4 |
| 22.5° | 803.9 | 805.4 | 806.9 | 822.2 | 823.7 |
| 25° | 782.6 | 785.6 | 791.7 | 806.9 | 811.5 |
| 27.5° | 761.3 | 764.3 | 773.4 | 790.2 | 796.3 |
| 30° | 736.9 | 739.9 | 753.6 | 771.9 | 778.0 |
| 32.5° | 711.0 | 717.1 | 733.9 | 753.6 | 761.3 |
| 35° | 685.1 | 691.2 | 711.0 | 735.4 | 744.5 |
| 37.5° | 656.2 | 665.3 | 689.7 | 717.1 | 726.2 |
| 40° | 625.8 | 639.5 | 668.4 | 698.8 | 708.0 |
| 42.5° | 596.8 | 610.5 | 644.0 | 677.5 | 689.7 |
| 45° | 564.9 | 583.1 | 619.7 | 657.7 | 668.4 |
| 47.5° | 532.9 | 554.2 | 596.8 | 634.9 | 647.1 |
| 50° | 499.4 | 526.8 | 574.0 | 610.5 | 622.7 |
| 52.5° | 467.4 | 497.9 | 548.1 | 583.1 | 593.8 |
| 55° | 435.4 | 470.5 | 522.2 | 554.2 | 560.3 |
| 57.5° | 401.9 | 441.5 | 493.3 | 520.7 | 525.3 |
| 60° | 368.4 | 412.6 | 462.8 | 481.1 | 481.1 |
| 62.5° | 335.0 | 383.7 | 429.3 | 438.5 | 437.0 |
| 65° | 301.5 | 354.7 | 391.3 | 389.8 | 385.2 |
| 67.5° | 268.0 | 325.8 | 350.2 | 339.5 | 335.0 |
| 70° | 234.5 | 293.8 | 306.0 | 289.3 | 284.7 |
| 72.5° | 202.5 | 263.4 | 258.8 | 239.0 | 231.4 |
| 75° | 170.5 | 226.9 | 207.1 | 188.8 | 182.7 |
| 77.5° | 137.0 | 190.3 | 158.3 | 140.1 | 134.0 |
| 80° | 106.6 | 146.2 | 111.1 | 100.5 | 99.0 |
| 82.5° | 76.1 | 95.9 | 73.1 | 71.6 | 71.6 |
| 85° | 48.7 | 51.8 | 45.7 | 47.2 | 47.2 |
| 87.5° | 21.3 | 22.8 | 24.4 | 25.9 | 25.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)