

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: P189604

Luminaire Tested: **BRG-WD-1L30-LD2-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189604
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-1L30-LD2-UNV-14-STD
Description: BRIDGE 1x4 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (425 mA)
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

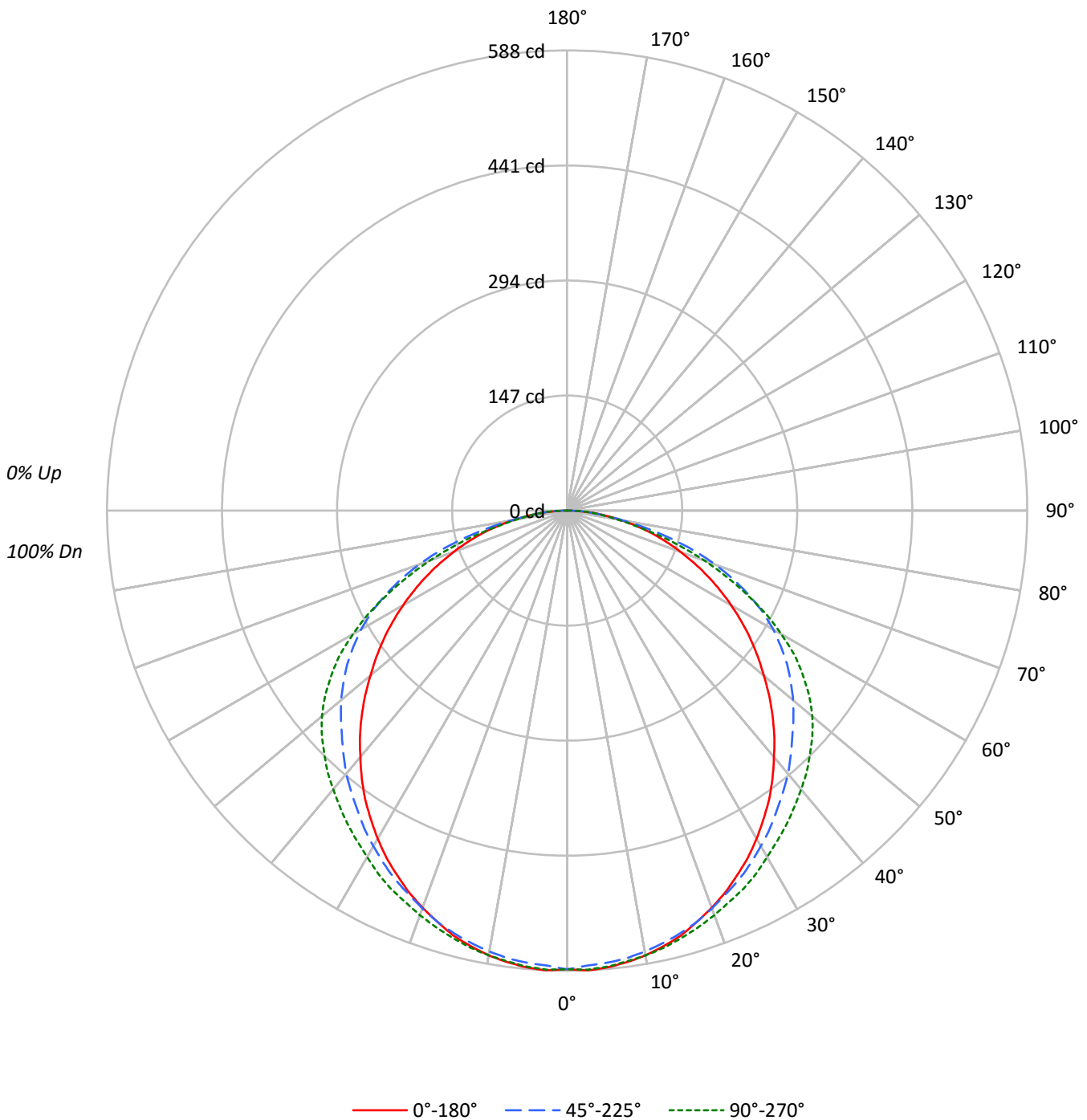
Lumens per Lamp: N/A
Luminaire Lumens: 1778.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.41
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.7
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 | 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° | 1795 | 1795 | 1795 |
| 5° | 1802 | 1784 | 1799 |
| 10° | 1795 | 1780 | 1795 |
| 15° | 1783 | 1773 | 1792 |
| 20° | 1761 | 1764 | 1793 |
| 25° | 1738 | 1758 | 1802 |
| 30° | 1712 | 1751 | 1808 |
| 35° | 1683 | 1747 | 1829 |
| 40° | 1644 | 1756 | 1860 |
| 45° | 1608 | 1764 | 1902 |
| 50° | 1564 | 1797 | 1950 |
| 55° | 1528 | 1832 | 1966 |
| 60° | 1483 | 1863 | 1937 |
| 65° | 1435 | 1864 | 1835 |
| 70° | 1379 | 1801 | 1675 |
| 75° | 1326 | 1610 | 1420 |
| 80° | 1235 | 1288 | 1147 |
| 85° | 1125 | 1054 | 1090 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.5 | 3.1 |
| 10°-20° | 158.6 | 8.9 |
| 20°-30° | 240.8 | 13.5 |
| 30°-40° | 293.5 | 16.5 |
| 40°-50° | 314.2 | 17.7 |
| 50°-60° | 299.6 | 16.8 |
| 60°-70° | 239.8 | 13.5 |
| 70°-80° | 138.8 | 7.8 |
| 80°-90° | 37.3 | 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° | 454.9 | 25.6 |
| 0°-40° | 748.4 | 42.1 |
| 0°-60° | 1362.1 | 76.6 |
| 0°-90° | 1778.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1778.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 586 | 586 | 586 | 586 | 586 | |
| 5° | 586 | 585 | 580 | 585 | 585 | 56 |
| 15° | 562 | 561 | 559 | 565 | 565 | 158 |
| 25° | 514 | 516 | 520 | 530 | 533 | 237 |
| 35° | 450 | 454 | 467 | 483 | 489 | 281 |
| 45° | 371 | 383 | 407 | 432 | 439 | 286 |
| 55° | 286 | 309 | 343 | 364 | 368 | 255 |
| 65° | 198 | 233 | 257 | 256 | 253 | 196 |
| 75° | 112 | 149 | 136 | 124 | 120 | 118 |
| 85° | 32 | 34 | 30 | 31 | 31 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P189604

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 586.1 | 586.1 | 586.1 | 586.1 | 586.1 |
| 2.5° | 588.1 | 587.1 | 582.1 | 586.1 | 587.1 |
| 5° | 586.1 | 585.1 | 580.1 | 585.1 | 585.1 |
| 7.5° | 582.1 | 581.1 | 577.1 | 582.1 | 581.1 |
| 10° | 577.1 | 576.1 | 572.1 | 577.1 | 577.1 |
| 12.5° | 570.1 | 569.1 | 566.1 | 572.1 | 572.1 |
| 15° | 562.1 | 561.1 | 559.1 | 565.1 | 565.1 |
| 17.5° | 551.1 | 551.1 | 551.1 | 557.1 | 558.1 |
| 20° | 540.1 | 541.1 | 541.1 | 549.1 | 550.1 |
| 22.5° | 528.1 | 529.1 | 530.1 | 540.1 | 541.1 |
| 25° | 514.1 | 516.1 | 520.1 | 530.1 | 533.1 |
| 27.5° | 500.1 | 502.1 | 508.1 | 519.1 | 523.1 |
| 30° | 484.1 | 486.1 | 495.1 | 507.1 | 511.1 |
| 32.5° | 467.1 | 471.1 | 482.1 | 495.1 | 500.1 |
| 35° | 450.1 | 454.1 | 467.1 | 483.1 | 489.1 |
| 37.5° | 431.1 | 437.1 | 453.1 | 471.1 | 477.1 |
| 40° | 411.1 | 420.1 | 439.1 | 459.1 | 465.1 |
| 42.5° | 392.1 | 401.1 | 423.1 | 445.1 | 453.1 |
| 45° | 371.1 | 383.1 | 407.1 | 432.1 | 439.1 |
| 47.5° | 350.1 | 364.1 | 392.1 | 417.1 | 425.1 |
| 50° | 328.1 | 346.1 | 377.1 | 401.1 | 409.1 |
| 52.5° | 307.1 | 327.1 | 360.1 | 383.1 | 390.1 |
| 55° | 286.1 | 309.1 | 343.1 | 364.1 | 368.1 |
| 57.5° | 264.1 | 290.1 | 324.1 | 342.1 | 345.1 |
| 60° | 242.1 | 271.1 | 304.1 | 316.1 | 316.1 |
| 62.5° | 220.1 | 252.1 | 282.1 | 288.1 | 287.1 |
| 65° | 198.0 | 233.1 | 257.1 | 256.1 | 253.1 |
| 67.5° | 176.0 | 214.1 | 230.1 | 223.1 | 220.1 |
| 70° | 154.0 | 193.0 | 201.1 | 190.0 | 187.0 |
| 72.5° | 133.0 | 173.0 | 170.0 | 157.0 | 152.0 |
| 75° | 112.0 | 149.0 | 136.0 | 124.0 | 120.0 |
| 77.5° | 90.0 | 125.0 | 104.0 | 92.0 | 88.0 |
| 80° | 70.0 | 96.0 | 73.0 | 66.0 | 65.0 |
| 82.5° | 50.0 | 63.0 | 48.0 | 47.0 | 47.0 |
| 85° | 32.0 | 34.0 | 30.0 | 31.0 | 31.0 |
| 87.5° | 14.0 | 15.0 | 16.0 | 17.0 | 17.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)