

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: P189569

Luminaire Tested: **BRG-WN-2L40-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WN-2L40-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND NANO PRISM INLAY
LIGHT LEVEL 2 (506 mA)
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

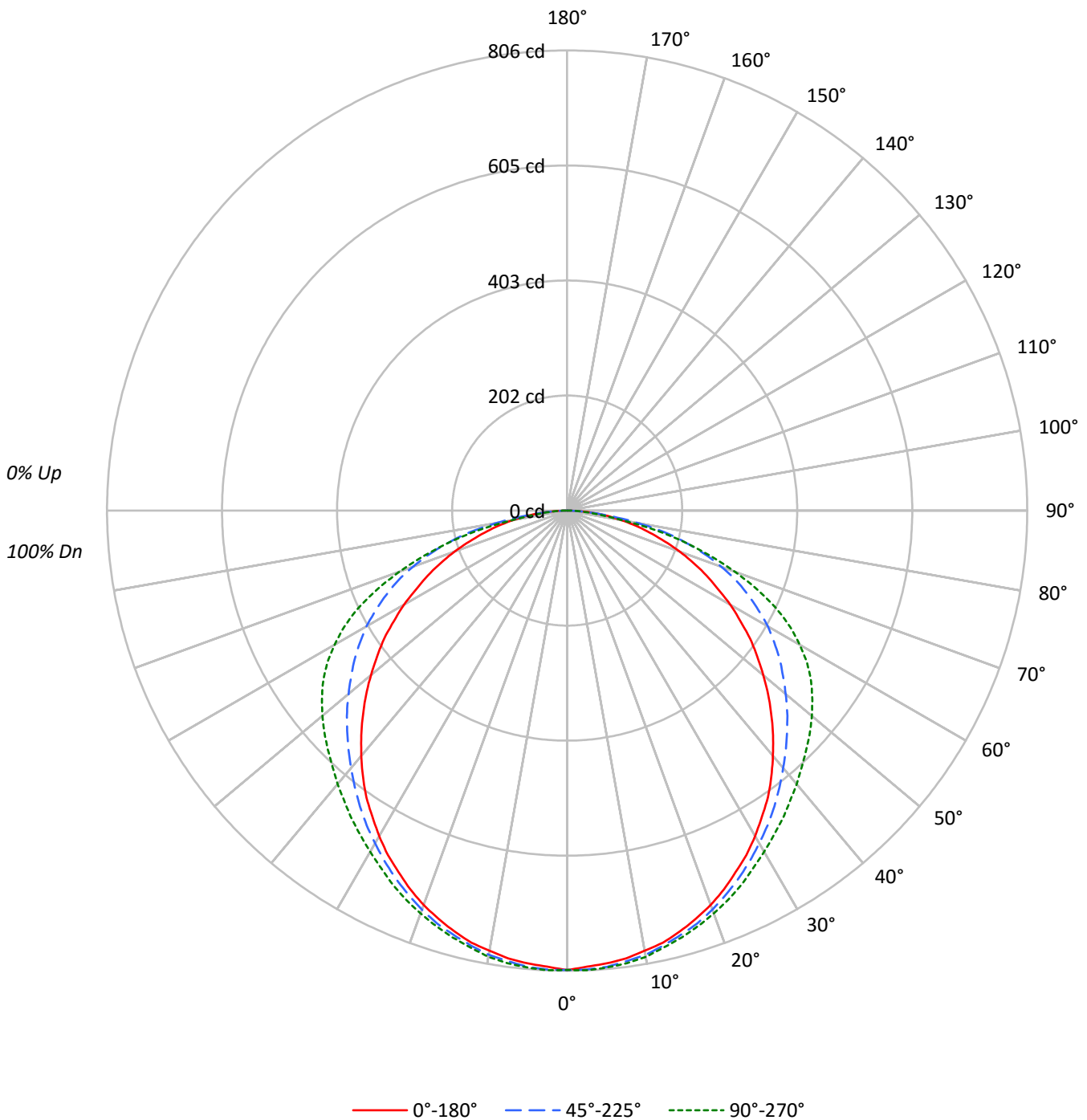
Lumens per Lamp: N/A
Luminaire Lumens: 2448.3 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



TEST NUMBER: P189569
CATALOG NUMBER: BRG-WN-2L40-LD2-UNV-22-STD

Luminous Intensity Polar Plot





TEST NUMBER: P189569

CATALOG NUMBER: BRG-WN-2L40-LD2-UNV-22-STD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1 | 108 | 103 | 99 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 43 | 38 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 |
| 8 | 59 | 45 | 36 | 31 | 57 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 29 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2577 | 2577 | 2577 |
| 5° | 2559 | 2579 | 2583 |
| 10° | 2545 | 2569 | 2581 |
| 15° | 2530 | 2550 | 2567 |
| 20° | 2505 | 2534 | 2559 |
| 25° | 2468 | 2511 | 2554 |
| 30° | 2434 | 2488 | 2552 |
| 35° | 2397 | 2474 | 2574 |
| 40° | 2344 | 2462 | 2615 |
| 45° | 2291 | 2468 | 2683 |
| 50° | 2235 | 2490 | 2788 |
| 55° | 2185 | 2539 | 2913 |
| 60° | 2116 | 2600 | 3014 |
| 65° | 2041 | 2651 | 3058 |
| 70° | 1964 | 2694 | 2922 |
| 75° | 1855 | 2639 | 2624 |
| 80° | 1776 | 2316 | 1820 |
| 85° | 1657 | 1657 | 1345 |



TEST NUMBER: P189569

CATALOG NUMBER: BRG-WN-2L40-LD2-UNV-22-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.1 | 3.1 |
| 10°-20° | 217.0 | 8.9 |
| 20°-30° | 327.6 | 13.4 |
| 30°-40° | 396.8 | 16.2 |
| 40°-50° | 422.6 | 17.3 |
| 50°-60° | 406.5 | 16.6 |
| 60°-70° | 339.4 | 13.9 |
| 70°-80° | 209.3 | 8.6 |
| 80°-90° | 53.1 | 2.2 |
| 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° | 620.7 | 25.4 |
| 0°-40° | 1017.5 | 41.6 |
| 0°-60° | 1846.5 | 75.4 |
| 0°-90° | 2448.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2448.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 805 | 805 | 805 | 805 | 805 | |
| 5° | 796 | 798 | 802 | 803 | 803 | 76 |
| 15° | 763 | 766 | 769 | 773 | 774 | 215 |
| 25° | 698 | 702 | 711 | 719 | 723 | 322 |
| 35° | 613 | 618 | 633 | 650 | 658 | 383 |
| 45° | 506 | 517 | 545 | 577 | 592 | 390 |
| 55° | 391 | 411 | 455 | 500 | 522 | 349 |
| 65° | 269 | 305 | 350 | 386 | 404 | 266 |
| 75° | 150 | 190 | 213 | 215 | 212 | 160 |
| 85° | 45 | 55 | 45 | 38 | 37 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P189569

CATALOG NUMBER: BRG-WN-2L40-LD2-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 804.6 | 804.6 | 804.6 | 804.6 | 804.6 |
| 2.5° | 799.7 | 800.9 | 804.6 | 805.8 | 805.8 |
| 5° | 796.0 | 798.5 | 802.1 | 803.4 | 803.4 |
| 7.5° | 791.2 | 792.4 | 796.0 | 798.5 | 799.7 |
| 10° | 782.6 | 785.1 | 789.9 | 792.4 | 793.6 |
| 12.5° | 775.3 | 775.3 | 780.2 | 783.8 | 783.8 |
| 15° | 763.1 | 765.6 | 769.2 | 772.9 | 774.1 |
| 17.5° | 749.7 | 752.2 | 758.2 | 761.9 | 763.1 |
| 20° | 735.1 | 737.5 | 743.6 | 748.5 | 750.9 |
| 22.5° | 718.0 | 720.5 | 727.8 | 735.1 | 737.5 |
| 25° | 698.5 | 702.2 | 710.7 | 719.2 | 722.9 |
| 27.5° | 680.2 | 682.7 | 692.4 | 702.2 | 705.8 |
| 30° | 658.3 | 661.9 | 672.9 | 685.1 | 690.0 |
| 32.5° | 635.1 | 641.2 | 653.4 | 668.0 | 674.1 |
| 35° | 613.2 | 618.1 | 632.7 | 649.8 | 658.3 |
| 37.5° | 587.6 | 593.7 | 610.7 | 631.5 | 641.2 |
| 40° | 560.8 | 568.1 | 588.8 | 612.0 | 625.4 |
| 42.5° | 533.9 | 543.7 | 566.9 | 594.9 | 608.3 |
| 45° | 505.9 | 516.9 | 544.9 | 576.6 | 592.5 |
| 47.5° | 477.9 | 491.3 | 523.0 | 558.3 | 576.6 |
| 50° | 448.6 | 464.5 | 499.8 | 540.0 | 559.5 |
| 52.5° | 419.4 | 437.6 | 476.6 | 519.3 | 541.3 |
| 55° | 391.3 | 410.8 | 454.7 | 499.8 | 521.8 |
| 57.5° | 359.6 | 382.8 | 430.3 | 475.4 | 498.6 |
| 60° | 330.4 | 357.2 | 405.9 | 449.8 | 470.6 |
| 62.5° | 297.4 | 331.6 | 377.9 | 421.8 | 440.1 |
| 65° | 269.4 | 304.8 | 349.9 | 386.4 | 403.5 |
| 67.5° | 238.9 | 276.7 | 320.6 | 349.9 | 359.6 |
| 70° | 209.7 | 248.7 | 287.7 | 307.2 | 312.1 |
| 72.5° | 179.2 | 220.6 | 252.3 | 263.3 | 262.1 |
| 75° | 149.9 | 190.2 | 213.3 | 214.6 | 212.1 |
| 77.5° | 123.1 | 158.5 | 174.3 | 164.6 | 159.7 |
| 80° | 96.3 | 124.3 | 125.6 | 109.7 | 98.7 |
| 82.5° | 70.7 | 90.2 | 80.5 | 65.8 | 59.7 |
| 85° | 45.1 | 54.9 | 45.1 | 37.8 | 36.6 |
| 87.5° | 19.5 | 21.9 | 17.1 | 15.8 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)