

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: P302170

Luminaire Tested: **RX-WO-29L835-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-29L835-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

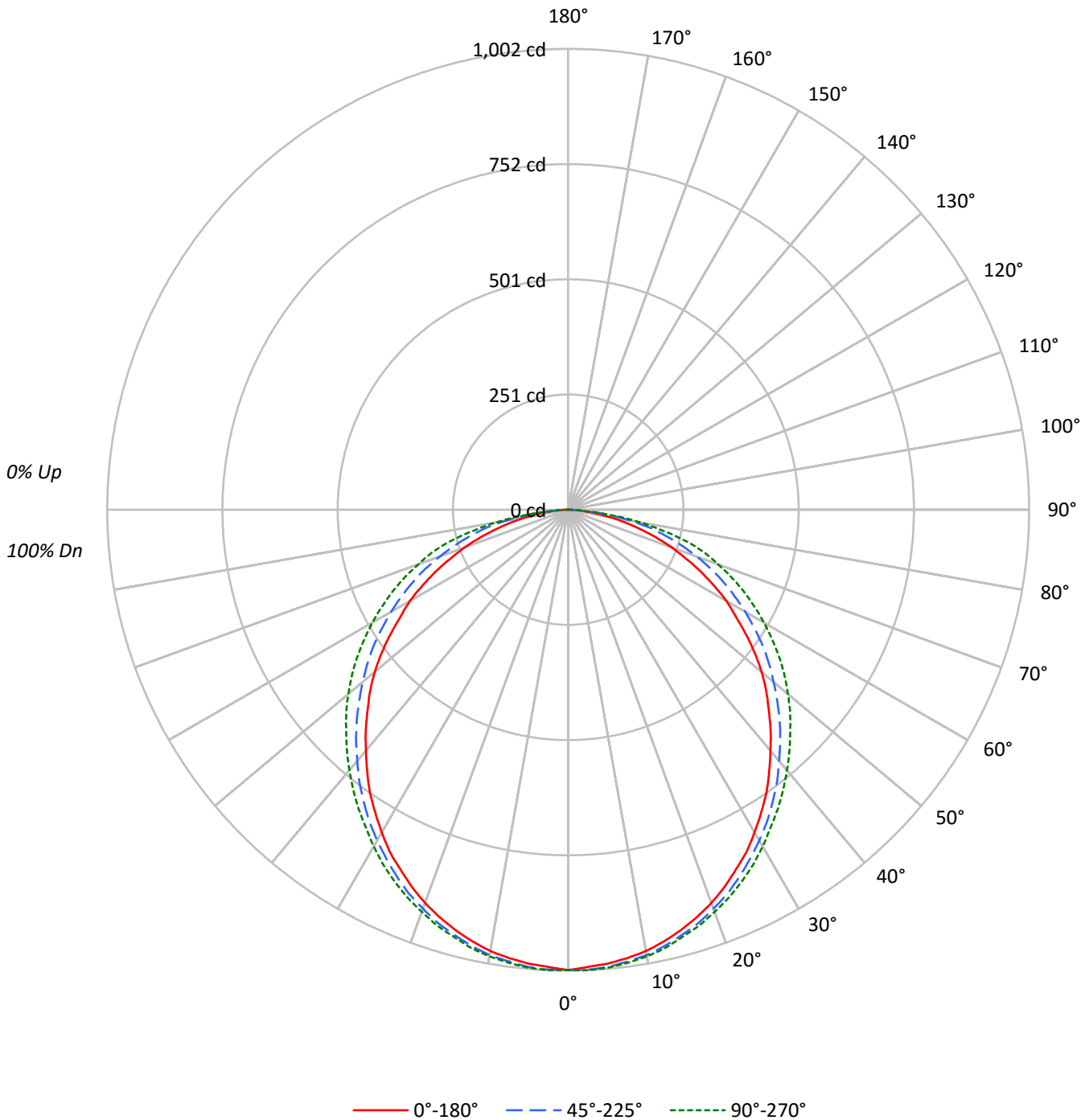
Lumens per Lamp: N/A
Luminaire Lumens: 2865.4 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.2
Input Voltage (V): 120
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 | 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 | | | | | 100 | | | |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2693 | 2693 | 2693 |
| 5° | 2676 | 2696 | 2700 |
| 10° | 2663 | 2687 | 2695 |
| 15° | 2637 | 2666 | 2678 |
| 20° | 2606 | 2643 | 2664 |
| 25° | 2562 | 2614 | 2649 |
| 30° | 2517 | 2581 | 2627 |
| 35° | 2468 | 2546 | 2608 |
| 40° | 2402 | 2505 | 2598 |
| 45° | 2346 | 2474 | 2597 |
| 50° | 2298 | 2439 | 2611 |
| 55° | 2210 | 2424 | 2630 |
| 60° | 2140 | 2393 | 2646 |
| 65° | 2018 | 2374 | 2682 |
| 70° | 1882 | 2332 | 2725 |
| 75° | 1664 | 2288 | 2777 |
| 80° | 1387 | 2139 | 2479 |
| 85° | 1044 | 1451 | 1315 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.6 | 3.3 |
| 10°-20° | 269.6 | 9.4 |
| 20°-30° | 405.1 | 14.1 |
| 30°-40° | 484.1 | 16.9 |
| 40°-50° | 501.9 | 17.5 |
| 50°-60° | 461.0 | 16.1 |
| 60°-70° | 366.1 | 12.8 |
| 70°-80° | 227.3 | 7.9 |
| 80°-90° | 55.6 | 1.9 |
| 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° | 769.4 | 26.9 |
| 0°-40° | 1253.5 | 43.7 |
| 0°-60° | 2216.5 | 77.4 |
| 0°-90° | 2865.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2865.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1001 | 1001 | 1001 | 1001 | 1001 | |
| 5° | 991 | 994 | 998 | 999 | 999 | 94 |
| 15° | 947 | 950 | 957 | 961 | 961 | 267 |
| 25° | 863 | 869 | 880 | 891 | 892 | 398 |
| 35° | 751 | 759 | 775 | 790 | 794 | 469 |
| 45° | 616 | 625 | 650 | 675 | 682 | 477 |
| 55° | 471 | 483 | 517 | 549 | 561 | 422 |
| 65° | 317 | 332 | 373 | 408 | 421 | 314 |
| 75° | 160 | 180 | 220 | 254 | 267 | 171 |
| 85° | 34 | 41 | 47 | 46 | 43 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1000.9 | 1000.9 | 1000.9 | 1000.9 | 1000.9 |
| 2.5° | 995.0 | 996.5 | 1000.9 | 1003.8 | 1002.3 |
| 5° | 990.6 | 993.5 | 997.9 | 999.4 | 999.4 |
| 7.5° | 983.3 | 986.2 | 990.6 | 993.5 | 993.5 |
| 10° | 974.5 | 977.4 | 983.3 | 986.2 | 986.2 |
| 12.5° | 961.3 | 964.2 | 971.5 | 974.5 | 975.9 |
| 15° | 946.6 | 949.5 | 956.9 | 961.3 | 961.3 |
| 17.5° | 929.0 | 933.4 | 942.2 | 946.6 | 948.0 |
| 20° | 909.9 | 914.3 | 923.1 | 929.0 | 930.4 |
| 22.5° | 887.9 | 892.3 | 904.0 | 911.4 | 912.8 |
| 25° | 862.9 | 868.8 | 880.5 | 890.8 | 892.3 |
| 27.5° | 839.4 | 843.8 | 855.6 | 865.9 | 870.3 |
| 30° | 810.1 | 817.4 | 830.6 | 842.4 | 845.3 |
| 32.5° | 780.7 | 789.5 | 804.2 | 817.4 | 818.9 |
| 35° | 751.4 | 758.7 | 774.9 | 789.5 | 794.0 |
| 37.5° | 717.6 | 725.0 | 745.5 | 761.7 | 767.5 |
| 40° | 683.9 | 694.2 | 713.2 | 732.3 | 739.7 |
| 42.5° | 651.6 | 661.9 | 682.4 | 704.4 | 711.8 |
| 45° | 616.4 | 625.2 | 650.1 | 675.1 | 682.4 |
| 47.5° | 584.1 | 591.4 | 616.4 | 645.7 | 654.5 |
| 50° | 548.9 | 554.7 | 582.6 | 614.9 | 623.7 |
| 52.5° | 510.7 | 519.5 | 550.3 | 582.6 | 592.9 |
| 55° | 471.1 | 482.8 | 516.6 | 548.9 | 560.6 |
| 57.5° | 431.5 | 444.7 | 479.9 | 515.1 | 525.4 |
| 60° | 397.7 | 406.5 | 444.7 | 479.9 | 491.6 |
| 62.5° | 356.6 | 369.8 | 408.0 | 444.7 | 456.4 |
| 65° | 317.0 | 331.7 | 372.8 | 408.0 | 421.2 |
| 67.5° | 275.9 | 293.5 | 336.1 | 369.8 | 384.5 |
| 70° | 239.2 | 256.8 | 296.4 | 331.7 | 346.3 |
| 72.5° | 199.6 | 218.7 | 258.3 | 295.0 | 311.1 |
| 75° | 160.0 | 180.5 | 220.1 | 253.9 | 267.1 |
| 77.5° | 124.7 | 145.3 | 182.0 | 205.5 | 211.3 |
| 80° | 89.5 | 107.1 | 138.0 | 154.1 | 160.0 |
| 82.5° | 60.2 | 73.4 | 93.9 | 99.8 | 102.7 |
| 85° | 33.8 | 41.1 | 47.0 | 45.5 | 42.6 |
| 87.5° | 14.7 | 11.7 | 10.3 | 4.4 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)