

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: P189023

Luminaire Tested: **RZL-WB-30L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34813)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RZL-WB-30L830-1D-UNV-STD-W-4  
Description: RZL LINEAR LED FIXTURE  
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL  
BAFFLE  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2905.9 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')  
CIE Type: Semi-Direct

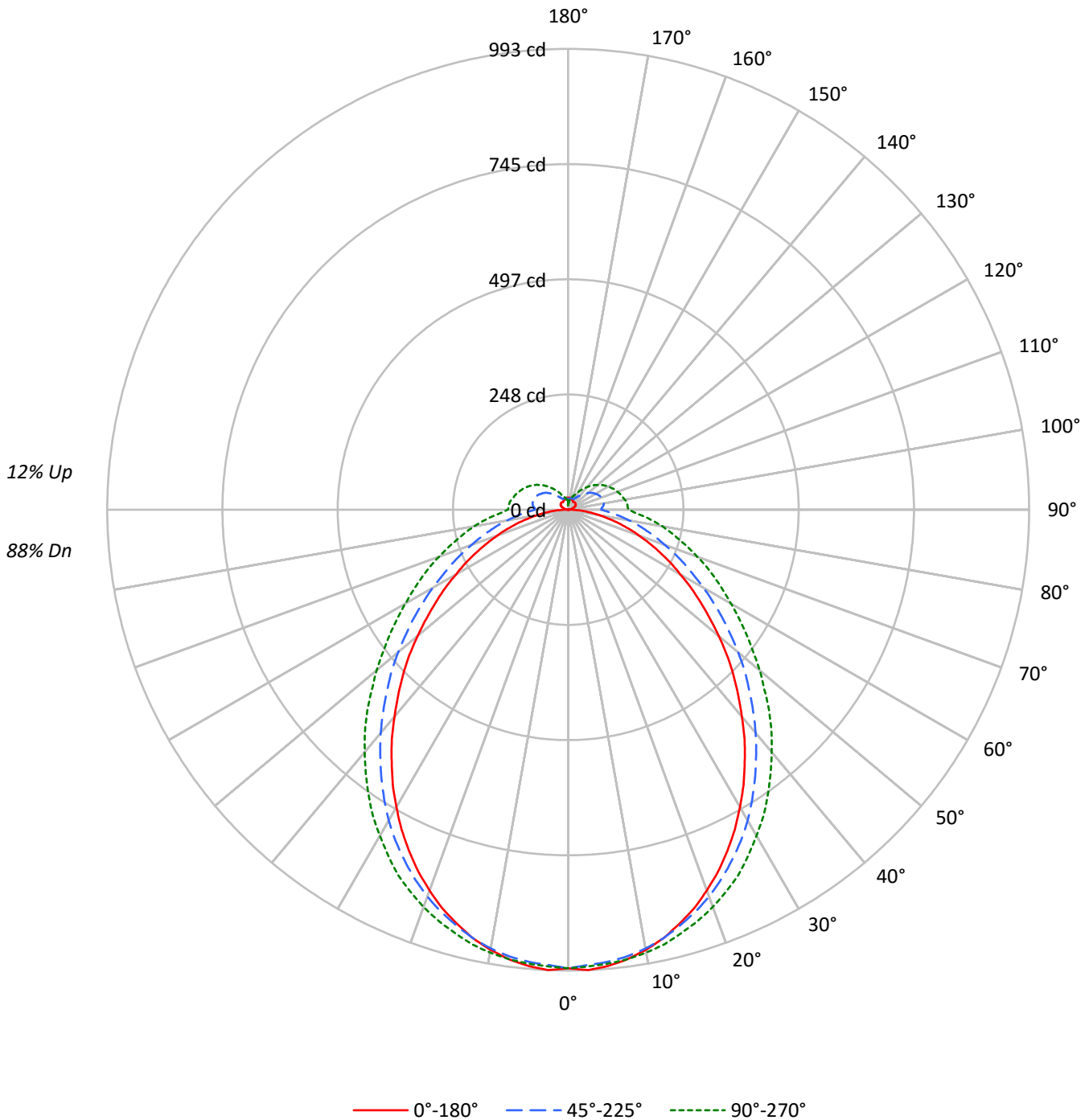
Input Watts (W): 24.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 |
| 1   | 105 | 100 | 96  | 92  | 101 | 97  | 93  | 89  | 90  | 87  | 84  | 84 | 82 | 79 | 79 | 77 | 75 | 72 |
| 2   | 96  | 88  | 81  | 75  | 92  | 85  | 78  | 73  | 79  | 74  | 70  | 74 | 70 | 66 | 69 | 66 | 63 | 60 |
| 3   | 88  | 77  | 69  | 63  | 84  | 75  | 67  | 61  | 70  | 64  | 59  | 66 | 60 | 56 | 61 | 57 | 54 | 51 |
| 4   | 80  | 68  | 60  | 53  | 77  | 66  | 58  | 52  | 62  | 56  | 50  | 59 | 53 | 48 | 55 | 50 | 46 | 44 |
| 5   | 74  | 61  | 52  | 46  | 71  | 59  | 51  | 45  | 56  | 49  | 44  | 53 | 47 | 42 | 50 | 45 | 40 | 38 |
| 6   | 68  | 55  | 47  | 40  | 66  | 54  | 46  | 40  | 51  | 44  | 38  | 48 | 42 | 37 | 45 | 40 | 36 | 34 |
| 7   | 63  | 50  | 42  | 36  | 61  | 49  | 41  | 35  | 46  | 39  | 34  | 44 | 38 | 33 | 41 | 36 | 32 | 30 |
| 8   | 59  | 46  | 38  | 32  | 57  | 45  | 37  | 31  | 42  | 35  | 31  | 40 | 34 | 30 | 38 | 33 | 29 | 27 |
| 9   | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 28  | 39  | 32  | 28  | 37 | 31 | 27 | 35 | 30 | 26 | 24 |
| 10  | 52  | 39  | 31  | 26  | 50  | 38  | 31  | 26  | 36  | 30  | 25  | 34 | 29 | 24 | 33 | 28 | 24 | 22 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5202 | 5202 | 5202 |
| 5°  | 5202 | 5085 | 5086 |
| 10° | 5119 | 4967 | 4975 |
| 15° | 4993 | 4815 | 4841 |
| 20° | 4834 | 4650 | 4703 |
| 25° | 4641 | 4453 | 4546 |
| 30° | 4416 | 4238 | 4343 |
| 35° | 4166 | 3985 | 4141 |
| 40° | 3894 | 3726 | 3917 |
| 45° | 3627 | 3457 | 3692 |
| 50° | 3335 | 3196 | 3451 |
| 55° | 3052 | 2928 | 3225 |
| 60° | 2781 | 2674 | 3033 |
| 65° | 2538 | 2448 | 2894 |
| 70° | 2289 | 2240 | 2772 |
| 75° | 2031 | 2088 | 2680 |
| 80° | 1740 | 1962 | 2682 |
| 85° | 1452 | 1875 | 2693 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.2   | 3.2       |
| 10°-20°   | 262.9  | 9.0       |
| 20°-30°   | 385.4  | 13.3      |
| 30°-40°   | 441.0  | 15.2      |
| 40°-50°   | 428.6  | 14.7      |
| 50°-60°   | 364.4  | 12.5      |
| 60°-70°   | 277.7  | 9.6       |
| 70°-80°   | 188.6  | 6.5       |
| 80°-90°   | 109.1  | 3.8       |
| 90°-100°  | 77.6   | 2.7       |
| 100°-110° | 75.8   | 2.6       |
| 110°-120° | 66.7   | 2.3       |
| 120°-130° | 52.9   | 1.8       |
| 130°-140° | 36.9   | 1.3       |
| 140°-150° | 22.9   | 0.8       |
| 150°-160° | 13.1   | 0.4       |
| 160°-170° | 7.1    | 0.2       |
| 170°-180° | 2.2    | 0.1       |
| 0°-30°    | 741.5  | 25.5      |
| 0°-40°    | 1182.5 | 40.7      |
| 0°-60°    | 1975.5 | 68.0      |
| 0°-90°    | 2550.9 | 87.8      |
| 90°-120°  | 220.0  | 7.6       |
| 90°-150°  | 332.7  | 11.4      |
| 90°-180°  | 355.0  | 12.2      |
| 0°-180°   | 2905.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 988 | 988   | 988 | 988   | 988 |      |
| 5°   | 987 | 984   | 978 | 984   | 982 | 93   |
| 15°  | 924 | 926   | 928 | 943   | 944 | 260  |
| 25°  | 811 | 817   | 834 | 860   | 868 | 373  |
| 35°  | 663 | 675   | 702 | 738   | 750 | 414  |
| 45°  | 503 | 517   | 552 | 595   | 612 | 388  |
| 55°  | 348 | 363   | 405 | 450   | 469 | 312  |
| 65°  | 218 | 231   | 276 | 328   | 349 | 217  |
| 75°  | 112 | 127   | 175 | 226   | 247 | 119  |
| 85°  | 33  | 53    | 98  | 146   | 164 | 34   |
| 90°  | 0   | 25    | 71  | 116   | 130 | 2    |
| 95°  | 2   | 27    | 75  | 118   | 128 | 3    |
| 105° | 9   | 32    | 78  | 113   | 119 | 9    |
| 115° | 16  | 34    | 73  | 102   | 107 | 15   |
| 125° | 20  | 31    | 63  | 86    | 92  | 18   |
| 135° | 21  | 26    | 48  | 68    | 74  | 16   |
| 145° | 20  | 25    | 33  | 49    | 54  | 13   |
| 155° | 22  | 25    | 26  | 31    | 37  | 10   |
| 165° | 25  | 25    | 25  | 24    | 27  | 7    |
| 175° | 26  | 26    | 24  | 19    | 15  | 2    |
| 180° | 21  | 21    | 21  | 21    | 21  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 0°     | 988 | 988   | 988 | 988   | 988 |
| 2.5°   | 993 | 989   | 982 | 987   | 985 |
| 5°     | 987 | 984   | 978 | 984   | 982 |
| 7.5°   | 977 | 975   | 971 | 978   | 977 |
| 10°    | 963 | 962   | 960 | 970   | 969 |
| 12.5°  | 946 | 946   | 946 | 958   | 959 |
| 15°    | 924 | 926   | 928 | 943   | 944 |
| 17.5°  | 901 | 904   | 909 | 927   | 929 |
| 20°    | 873 | 877   | 887 | 908   | 911 |
| 22.5°  | 844 | 849   | 862 | 885   | 890 |
| 25°    | 811 | 817   | 834 | 860   | 868 |
| 27.5°  | 777 | 785   | 805 | 832   | 840 |
| 30°    | 740 | 750   | 773 | 802   | 811 |
| 32.5°  | 703 | 714   | 738 | 770   | 783 |
| 35°    | 663 | 675   | 702 | 738   | 750 |
| 37.5°  | 624 | 637   | 665 | 704   | 716 |
| 40°    | 582 | 599   | 628 | 668   | 682 |
| 42.5°  | 542 | 558   | 590 | 632   | 648 |
| 45°    | 503 | 517   | 552 | 595   | 612 |
| 47.5°  | 464 | 478   | 516 | 557   | 573 |
| 50°    | 423 | 437   | 478 | 522   | 539 |
| 52.5°  | 385 | 399   | 440 | 484   | 502 |
| 55°    | 348 | 363   | 405 | 450   | 469 |
| 57.5°  | 314 | 327   | 370 | 417   | 436 |
| 60°    | 279 | 293   | 337 | 385   | 405 |
| 62.5°  | 249 | 261   | 304 | 355   | 376 |
| 65°    | 218 | 231   | 276 | 328   | 349 |
| 67.5°  | 189 | 203   | 248 | 301   | 323 |
| 70°    | 162 | 176   | 221 | 275   | 296 |
| 72.5°  | 137 | 152   | 197 | 250   | 271 |
| 75°    | 112 | 127   | 175 | 226   | 247 |
| 77.5°  | 89  | 107   | 154 | 206   | 226 |
| 80°    | 68  | 87    | 134 | 185   | 206 |
| 82.5°  | 49  | 69    | 115 | 166   | 184 |
| 85°    | 33  | 53    | 98  | 146   | 164 |
| 87.5°  | 16  | 38    | 83  | 129   | 143 |
| 90°    | 0   | 25    | 71  | 116   | 130 |
| 92.5°  | 1   | 26    | 72  | 117   | 128 |
| 95°    | 2   | 27    | 75  | 118   | 128 |
| 97.5°  | 4   | 29    | 77  | 118   | 127 |
| 100°   | 6   | 30    | 78  | 117   | 124 |
| 102.5° | 7   | 31    | 78  | 116   | 121 |
| 105°   | 9   | 32    | 78  | 113   | 119 |
| 107.5° | 10  | 33    | 78  | 111   | 116 |
| 110°   | 12  | 33    | 76  | 108   | 113 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----|-------|-----|-------|-----|
| 112.5° | 14 | 33    | 75  | 105   | 110 |
| 115°   | 16 | 34    | 73  | 102   | 107 |
| 117.5° | 17 | 33    | 71  | 98    | 103 |
| 120°   | 19 | 33    | 68  | 94    | 100 |
| 122.5° | 19 | 32    | 66  | 90    | 96  |
| 125°   | 20 | 31    | 63  | 86    | 92  |
| 127.5° | 20 | 30    | 60  | 82    | 88  |
| 130°   | 21 | 28    | 56  | 77    | 83  |
| 132.5° | 21 | 27    | 52  | 73    | 79  |
| 135°   | 21 | 26    | 48  | 68    | 74  |
| 137.5° | 21 | 26    | 44  | 63    | 69  |
| 140°   | 21 | 25    | 40  | 59    | 64  |
| 142.5° | 20 | 25    | 37  | 54    | 59  |
| 145°   | 20 | 25    | 33  | 49    | 54  |
| 147.5° | 20 | 25    | 31  | 44    | 49  |
| 150°   | 21 | 25    | 28  | 39    | 45  |
| 152.5° | 22 | 25    | 26  | 35    | 41  |
| 155°   | 22 | 25    | 26  | 31    | 37  |
| 157.5° | 23 | 25    | 26  | 27    | 33  |
| 160°   | 23 | 25    | 26  | 25    | 31  |
| 162.5° | 24 | 25    | 26  | 25    | 29  |
| 165°   | 25 | 25    | 25  | 24    | 27  |
| 167.5° | 25 | 26    | 25  | 22    | 26  |
| 170°   | 26 | 26    | 25  | 21    | 24  |
| 172.5° | 26 | 26    | 24  | 20    | 19  |
| 175°   | 26 | 26    | 24  | 19    | 15  |
| 177.5° | 26 | 26    | 24  | 19    | 9   |
| 180°   | 21 | 21    | 21  | 21    | 21  |

(END OF REPORT)