

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P217888

Luminaire Tested: **R2X-WO-1L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P217888  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35816-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2X-WO-1L30-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 1, 3000K CCT.  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2036.1 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

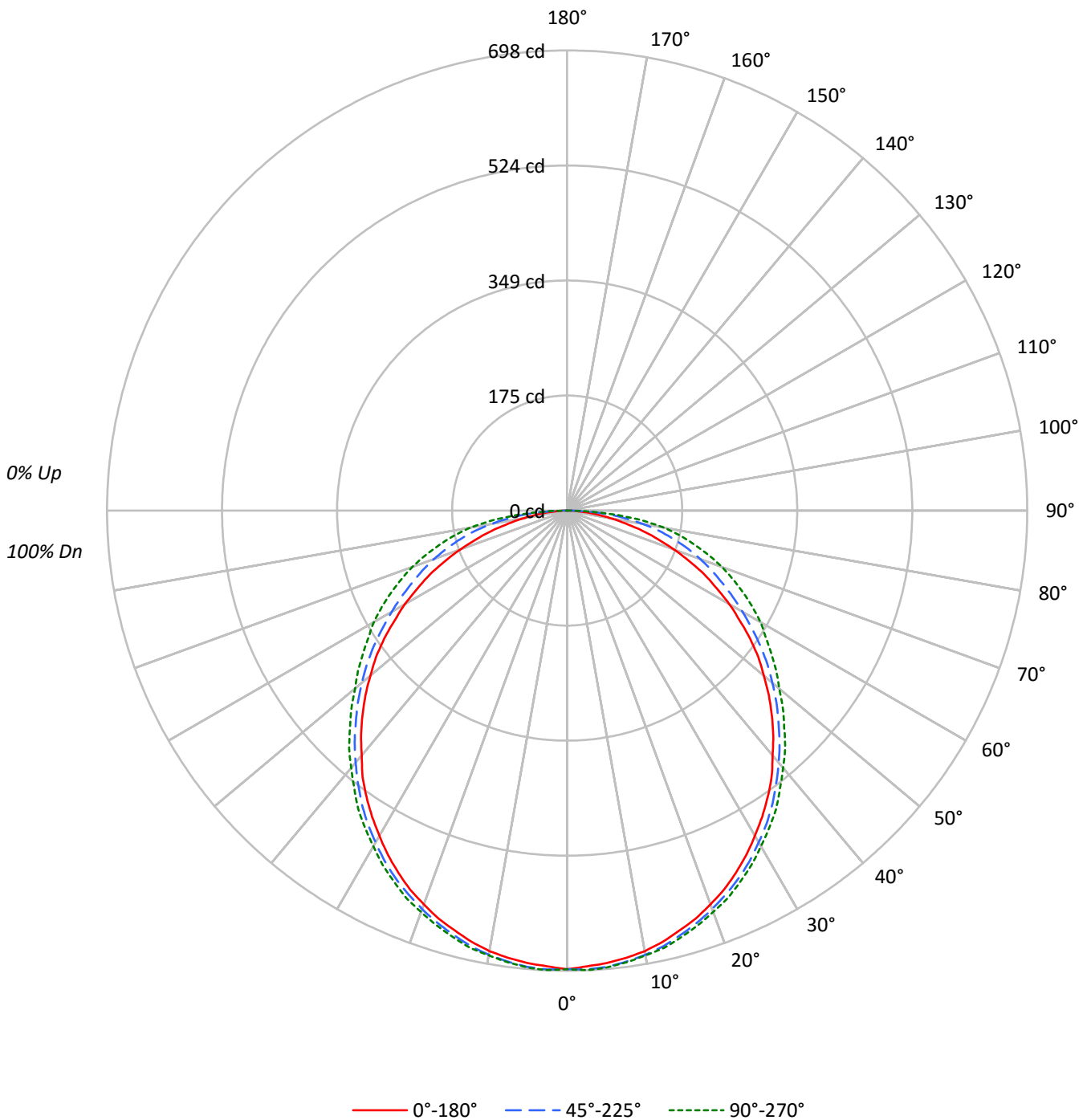
Input Watts (W): 17.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 98  | 94  | 105 | 101 | 96  | 93  | 96  | 93  | 90  | 92  | 90  | 87  | 89  | 86  | 84  | 82  |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  | 80  | 76  | 72  | 77  | 73  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 62  | 73  | 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  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  |
| 6   | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 41  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1872 | 1872 | 1872 |
| 5°  | 1861 | 1877 | 1879 |
| 10° | 1854 | 1870 | 1872 |
| 15° | 1837 | 1856 | 1866 |
| 20° | 1820 | 1842 | 1856 |
| 25° | 1799 | 1828 | 1845 |
| 30° | 1770 | 1806 | 1827 |
| 35° | 1743 | 1784 | 1815 |
| 40° | 1703 | 1753 | 1790 |
| 45° | 1671 | 1725 | 1772 |
| 50° | 1630 | 1702 | 1758 |
| 55° | 1590 | 1679 | 1773 |
| 60° | 1531 | 1654 | 1823 |
| 65° | 1465 | 1653 | 1878 |
| 70° | 1359 | 1689 | 1967 |
| 75° | 1230 | 1747 | 2084 |
| 80° | 1035 | 1804 | 2307 |
| 85° | 824  | 1856 | 2356 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.8   | 3.2       |
| 10°-20°   | 187.8  | 9.2       |
| 20°-30°   | 283.0  | 13.9      |
| 30°-40°   | 338.7  | 16.6      |
| 40°-50°   | 349.7  | 17.2      |
| 50°-60°   | 320.0  | 15.7      |
| 60°-70°   | 258.7  | 12.7      |
| 70°-80°   | 171.8  | 8.4       |
| 80°-90°   | 60.5   | 3.0       |
| 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°    | 536.6  | 26.4      |
| 0°-40°    | 875.4  | 43.0      |
| 0°-60°    | 1545.1 | 75.9      |
| 0°-90°    | 2036.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2036.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 696 | 696   | 696 | 696   | 696 |      |
| 5°  | 689 | 691   | 695 | 696   | 696 | 65   |
| 15° | 659 | 662   | 666 | 669   | 670 | 186  |
| 25° | 606 | 608   | 616 | 620   | 621 | 279  |
| 35° | 531 | 532   | 543 | 549   | 552 | 332  |
| 45° | 439 | 444   | 453 | 463   | 466 | 339  |
| 55° | 339 | 344   | 358 | 371   | 378 | 302  |
| 65° | 230 | 238   | 260 | 287   | 295 | 226  |
| 75° | 118 | 133   | 168 | 191   | 200 | 125  |
| 85° | 27  | 39    | 60  | 71    | 76  | 32   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



TEST NUMBER: P217888

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 695.7 | 695.7 | 695.7 | 695.7 | 695.7 |
| 2.5°  | 691.9 | 692.8 | 696.6 | 697.6 | 697.6 |
| 5°    | 689.0 | 690.9 | 694.7 | 695.7 | 695.7 |
| 7.5°  | 684.2 | 686.1 | 690.0 | 691.9 | 690.9 |
| 10°   | 678.5 | 679.5 | 684.2 | 686.1 | 685.2 |
| 12.5° | 669.9 | 671.8 | 676.6 | 678.5 | 679.5 |
| 15°   | 659.4 | 662.3 | 666.1 | 669.0 | 669.9 |
| 17.5° | 648.9 | 650.8 | 655.6 | 658.5 | 659.4 |
| 20°   | 635.6 | 637.5 | 643.2 | 647.0 | 648.0 |
| 22.5° | 622.2 | 623.2 | 629.8 | 634.6 | 636.5 |
| 25°   | 606.0 | 607.9 | 615.5 | 620.3 | 621.3 |
| 27.5° | 588.8 | 591.7 | 599.3 | 604.1 | 606.0 |
| 30°   | 569.7 | 573.5 | 581.2 | 586.9 | 587.9 |
| 32.5° | 550.6 | 554.5 | 563.0 | 569.7 | 570.7 |
| 35°   | 530.6 | 532.5 | 543.0 | 548.7 | 552.5 |
| 37.5° | 509.6 | 512.5 | 521.1 | 528.7 | 530.6 |
| 40°   | 484.8 | 490.5 | 499.1 | 506.7 | 509.6 |
| 42.5° | 462.8 | 466.7 | 477.2 | 484.8 | 489.6 |
| 45°   | 439.0 | 443.8 | 453.3 | 462.8 | 465.7 |
| 47.5° | 415.1 | 419.9 | 430.4 | 439.9 | 443.8 |
| 50°   | 389.4 | 394.1 | 406.5 | 417.0 | 419.9 |
| 52.5° | 365.5 | 370.3 | 382.7 | 393.2 | 399.9 |
| 55°   | 338.8 | 343.6 | 357.9 | 371.2 | 377.9 |
| 57.5° | 310.2 | 317.8 | 332.1 | 348.3 | 356.9 |
| 60°   | 284.4 | 290.1 | 307.3 | 329.2 | 338.8 |
| 62.5° | 255.8 | 263.4 | 283.4 | 308.2 | 316.8 |
| 65°   | 230.0 | 237.6 | 259.6 | 287.2 | 294.9 |
| 67.5° | 200.4 | 209.9 | 237.6 | 264.3 | 272.0 |
| 70°   | 172.7 | 183.2 | 214.7 | 240.5 | 250.0 |
| 72.5° | 144.1 | 157.5 | 191.8 | 216.6 | 225.2 |
| 75°   | 118.3 | 132.6 | 168.0 | 190.9 | 200.4 |
| 77.5° | 90.7  | 109.7 | 143.1 | 167.0 | 175.6 |
| 80°   | 66.8  | 85.9  | 116.4 | 140.3 | 148.9 |
| 82.5° | 45.8  | 62.0  | 88.8  | 108.8 | 114.5 |
| 85°   | 26.7  | 39.1  | 60.1  | 70.6  | 76.3  |
| 87.5° | 11.5  | 18.1  | 27.7  | 34.4  | 33.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)