

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: P35816-R2

Luminaire Tested: **R2X-WO-1L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 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-1L35-LD5-UNV-22  
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS  
LIGHT LEVEL 1, 3500K CCT.  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

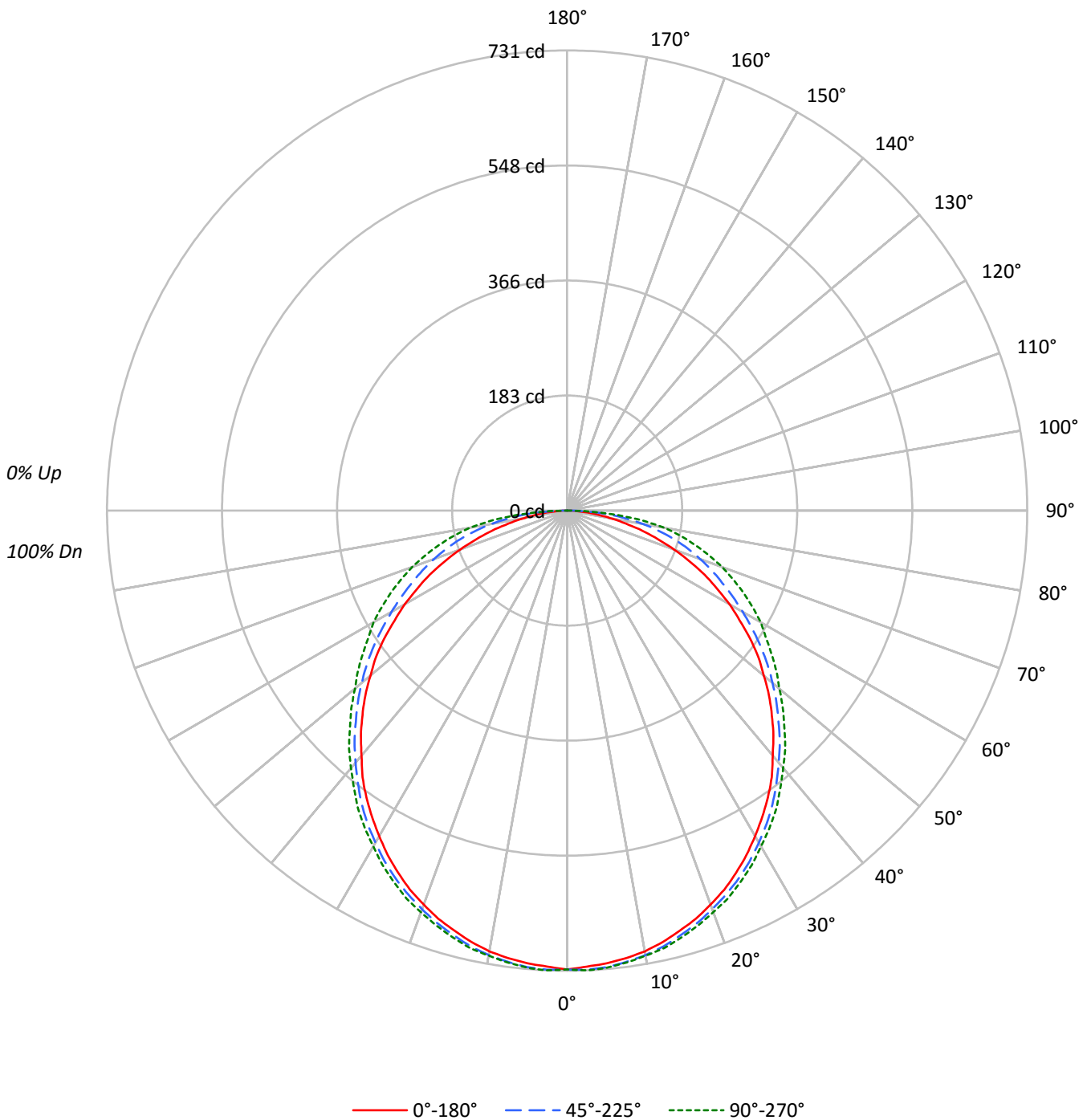
Lumens per Lamp: N/A  
Luminaire Lumens: 2133.6 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°  | 1962 | 1962 | 1962 |
| 5°  | 1950 | 1967 | 1969 |
| 10° | 1943 | 1959 | 1962 |
| 15° | 1925 | 1945 | 1956 |
| 20° | 1907 | 1930 | 1944 |
| 25° | 1885 | 1915 | 1933 |
| 30° | 1855 | 1892 | 1914 |
| 35° | 1827 | 1869 | 1902 |
| 40° | 1785 | 1837 | 1876 |
| 45° | 1751 | 1808 | 1857 |
| 50° | 1708 | 1783 | 1842 |
| 55° | 1666 | 1759 | 1858 |
| 60° | 1604 | 1733 | 1911 |
| 65° | 1535 | 1732 | 1968 |
| 70° | 1424 | 1770 | 2061 |
| 75° | 1289 | 1830 | 2183 |
| 80° | 1085 | 1891 | 2417 |
| 85° | 865  | 1945 | 2470 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.0   | 3.2       |
| 10°-20°   | 196.8  | 9.2       |
| 20°-30°   | 296.6  | 13.9      |
| 30°-40°   | 354.9  | 16.6      |
| 40°-50°   | 366.4  | 17.2      |
| 50°-60°   | 335.3  | 15.7      |
| 60°-70°   | 271.1  | 12.7      |
| 70°-80°   | 180.1  | 8.4       |
| 80°-90°   | 63.4   | 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°    | 562.3  | 26.4      |
| 0°-40°    | 917.3  | 43.0      |
| 0°-60°    | 1619.0 | 75.9      |
| 0°-90°    | 2133.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2133.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 729 | 729   | 729 | 729   | 729 |      |
| 5°  | 722 | 724   | 728 | 729   | 729 | 69   |
| 15° | 691 | 694   | 698 | 701   | 702 | 195  |
| 25° | 635 | 637   | 645 | 650   | 651 | 292  |
| 35° | 556 | 558   | 569 | 575   | 579 | 347  |
| 45° | 460 | 465   | 475 | 485   | 488 | 355  |
| 55° | 355 | 360   | 375 | 389   | 396 | 317  |
| 65° | 241 | 249   | 272 | 301   | 309 | 237  |
| 75° | 124 | 139   | 176 | 200   | 210 | 131  |
| 85° | 28  | 41    | 63  | 74    | 80  | 33   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 0°    | 729 | 729   | 729 | 729   | 729 |
| 2.5°  | 725 | 726   | 730 | 731   | 731 |
| 5°    | 722 | 724   | 728 | 729   | 729 |
| 7.5°  | 717 | 719   | 723 | 725   | 724 |
| 10°   | 711 | 712   | 717 | 719   | 718 |
| 12.5° | 702 | 704   | 709 | 711   | 712 |
| 15°   | 691 | 694   | 698 | 701   | 702 |
| 17.5° | 680 | 682   | 687 | 690   | 691 |
| 20°   | 666 | 668   | 674 | 678   | 679 |
| 22.5° | 652 | 653   | 660 | 665   | 667 |
| 25°   | 635 | 637   | 645 | 650   | 651 |
| 27.5° | 617 | 620   | 628 | 633   | 635 |
| 30°   | 597 | 601   | 609 | 615   | 616 |
| 32.5° | 577 | 581   | 590 | 597   | 598 |
| 35°   | 556 | 558   | 569 | 575   | 579 |
| 37.5° | 534 | 537   | 546 | 554   | 556 |
| 40°   | 508 | 514   | 523 | 531   | 534 |
| 42.5° | 485 | 489   | 500 | 508   | 513 |
| 45°   | 460 | 465   | 475 | 485   | 488 |
| 47.5° | 435 | 440   | 451 | 461   | 465 |
| 50°   | 408 | 413   | 426 | 437   | 440 |
| 52.5° | 383 | 388   | 401 | 412   | 419 |
| 55°   | 355 | 360   | 375 | 389   | 396 |
| 57.5° | 325 | 333   | 348 | 365   | 374 |
| 60°   | 298 | 304   | 322 | 345   | 355 |
| 62.5° | 268 | 276   | 297 | 323   | 332 |
| 65°   | 241 | 249   | 272 | 301   | 309 |
| 67.5° | 210 | 220   | 249 | 277   | 285 |
| 70°   | 181 | 192   | 225 | 252   | 262 |
| 72.5° | 151 | 165   | 201 | 227   | 236 |
| 75°   | 124 | 139   | 176 | 200   | 210 |
| 77.5° | 95  | 115   | 150 | 175   | 184 |
| 80°   | 70  | 90    | 122 | 147   | 156 |
| 82.5° | 48  | 65    | 93  | 114   | 120 |
| 85°   | 28  | 41    | 63  | 74    | 80  |
| 87.5° | 12  | 19    | 29  | 36    | 35  |
| 90°   | 0   | 0     | 0   | 0     | 0   |

(END OF REPORT)