

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: 23303

Luminaire Tested: **R2-WB-3N5-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23303  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WB-3N5-22  
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH  
WHITE BAFFLE  
Light Source: THREE SYLVANIA 14 WATT T5 LAMPS  
  
FP14/841. LUMEN RATING = 1200 LMS.  
  
Ballast/Driver: -

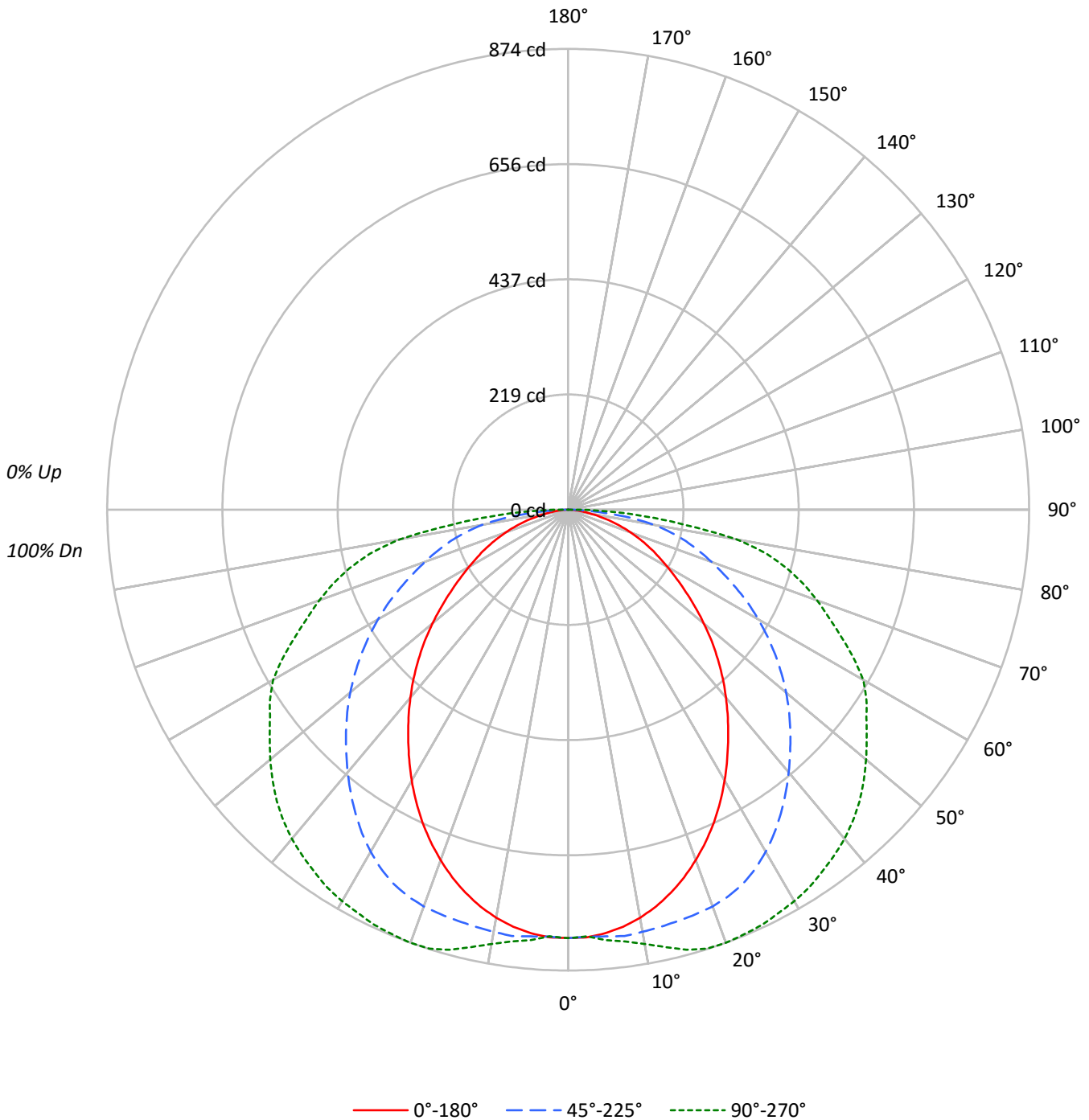
**Summary**

Lumens per Lamp: 1200 (3 lamps)  
Luminaire Lumens: 2667.1 lumens  
Efficiency: 74.1%  
Efficacy: 56.7 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.55 / 1.46  
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 47  
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   | 88 | 88 | 88 | 88 | 86 | 86 | 86 | 86 | 82 | 82 | 82 | 79 | 79 | 79 | 76 | 76 | 76 | 74 |
| 1   | 80 | 76 | 72 | 69 | 78 | 74 | 71 | 68 | 71 | 68 | 66 | 68 | 66 | 64 | 65 | 64 | 62 | 60 |
| 2   | 72 | 65 | 60 | 55 | 70 | 64 | 59 | 55 | 61 | 57 | 53 | 59 | 55 | 52 | 57 | 54 | 51 | 49 |
| 3   | 65 | 57 | 51 | 46 | 63 | 56 | 50 | 45 | 54 | 49 | 44 | 52 | 47 | 43 | 50 | 46 | 43 | 41 |
| 4   | 60 | 50 | 43 | 38 | 58 | 49 | 43 | 38 | 47 | 42 | 37 | 46 | 41 | 37 | 44 | 40 | 36 | 35 |
| 5   | 55 | 45 | 38 | 33 | 53 | 44 | 37 | 33 | 42 | 37 | 32 | 41 | 36 | 32 | 39 | 35 | 31 | 30 |
| 6   | 51 | 40 | 33 | 28 | 49 | 40 | 33 | 28 | 38 | 32 | 28 | 37 | 32 | 28 | 36 | 31 | 27 | 26 |
| 7   | 47 | 36 | 30 | 25 | 45 | 36 | 29 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 33 | 28 | 24 | 23 |
| 8   | 44 | 33 | 27 | 22 | 42 | 33 | 26 | 22 | 32 | 26 | 22 | 31 | 26 | 22 | 30 | 25 | 22 | 20 |
| 9   | 41 | 30 | 24 | 20 | 40 | 30 | 24 | 20 | 29 | 24 | 20 | 28 | 23 | 20 | 28 | 23 | 20 | 18 |
| 10  | 38 | 28 | 22 | 18 | 37 | 28 | 22 | 18 | 27 | 22 | 18 | 26 | 21 | 18 | 26 | 21 | 18 | 16 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2348 | 2348 | 2348 |
| 5°  | 2339 | 2356 | 2377 |
| 10° | 2306 | 2385 | 2454 |
| 15° | 2250 | 2415 | 2585 |
| 20° | 2175 | 2463 | 2688 |
| 25° | 2085 | 2497 | 2771 |
| 30° | 1980 | 2500 | 2861 |
| 35° | 1865 | 2481 | 2959 |
| 40° | 1756 | 2454 | 3074 |
| 45° | 1639 | 2434 | 3193 |
| 50° | 1509 | 2424 | 3315 |
| 55° | 1375 | 2415 | 3477 |
| 60° | 1258 | 2409 | 3734 |
| 65° | 1167 | 2401 | 3907 |
| 70° | 1064 | 2440 | 4243 |
| 75° | 928  | 2578 | 4789 |
| 80° | 731  | 2754 | 5391 |
| 85° | 484  | 2212 | 4931 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 77.6   | 2.9       | 2.2    |
| 10°-20°   | 228.5  | 8.6       | 6.3    |
| 20°-30°   | 354.8  | 13.3      | 9.9    |
| 30°-40°   | 433.4  | 16.3      | 12.0   |
| 40°-50°   | 457.1  | 17.1      | 12.7   |
| 50°-60°   | 426.2  | 16.0      | 11.8   |
| 60°-70°   | 352.3  | 13.2      | 9.8    |
| 70°-80°   | 251.6  | 9.4       | 7.0    |
| 80°-90°   | 85.6   | 3.2       | 2.4    |
| 90°-100°  | 0.0    | 0.0       | 0.0    |
| 100°-110° | 0.0    | 0.0       | 0.0    |
| 110°-120° | 0.0    | 0.0       | 0.0    |
| 120°-130° | 0.0    | 0.0       | 0.0    |
| 130°-140° | 0.0    | 0.0       | 0.0    |
| 140°-150° | 0.0    | 0.0       | 0.0    |
| 150°-160° | 0.0    | 0.0       | 0.0    |
| 160°-170° | 0.0    | 0.0       | 0.0    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-30°    | 660.8  | 24.8      | 18.4   |
| 0°-40°    | 1094.3 | 41.0      | 30.4   |
| 0°-60°    | 1977.5 | 74.1      | 54.9   |
| 0°-90°    | 2667.1 | 100.0     | 74.1   |
| 90°-120°  | 0.0    | 0.0       | 0.0    |
| 90°-150°  | 0.0    | 0.0       | 0.0    |
| 90°-180°  | 0.0    | 0.0       | 0.0    |
| 0°-180°   | 2667.1 | 100.0     | 74.1   |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 812 | 812   | 812 | 812   | 812 |      |
| 5°  | 806 | 808   | 812 | 818   | 819 | 76   |
| 15° | 752 | 772   | 807 | 848   | 864 | 211  |
| 25° | 654 | 694   | 783 | 843   | 869 | 301  |
| 35° | 529 | 592   | 703 | 792   | 839 | 331  |
| 45° | 401 | 463   | 596 | 721   | 781 | 309  |
| 55° | 273 | 325   | 479 | 617   | 690 | 245  |
| 65° | 171 | 203   | 351 | 494   | 571 | 169  |
| 75° | 83  | 114   | 231 | 360   | 429 | 88   |
| 85° | 15  | 29    | 67  | 111   | 149 | 19   |
| 90° | 0   | 0     | 3   | 8     | 13  |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 812.4 | 812.4 | 812.4 | 812.4 | 812.4 |
| 2.5°  | 811.8 | 812.8 | 810.6 | 809.8 | 810.0 |
| 5°    | 806.4 | 807.9 | 812.2 | 817.5 | 819.3 |
| 7.5°  | 797.8 | 801.8 | 815.5 | 822.9 | 826.0 |
| 10°   | 785.7 | 795.6 | 812.8 | 829.2 | 836.3 |
| 12.5° | 770.6 | 786.5 | 810.2 | 837.4 | 849.5 |
| 15°   | 752.1 | 771.7 | 807.3 | 848.0 | 864.0 |
| 17.5° | 731.0 | 754.0 | 804.5 | 854.7 | 873.1 |
| 20°   | 707.2 | 735.3 | 800.7 | 856.0 | 874.1 |
| 22.5° | 681.6 | 715.6 | 793.6 | 850.1 | 871.7 |
| 25°   | 654.0 | 694.2 | 783.1 | 842.7 | 869.0 |
| 27.5° | 624.5 | 670.3 | 768.0 | 832.2 | 862.6 |
| 30°   | 593.3 | 645.7 | 749.0 | 819.8 | 857.3 |
| 32.5° | 561.1 | 619.8 | 727.5 | 807.2 | 849.8 |
| 35°   | 528.6 | 591.8 | 703.2 | 792.5 | 838.7 |
| 37.5° | 497.1 | 561.7 | 677.1 | 775.6 | 827.5 |
| 40°   | 465.4 | 530.1 | 650.6 | 758.1 | 814.9 |
| 42.5° | 433.6 | 497.0 | 623.0 | 740.5 | 799.4 |
| 45°   | 401.1 | 462.8 | 595.6 | 721.2 | 781.3 |
| 47.5° | 368.7 | 428.6 | 568.1 | 698.3 | 760.1 |
| 50°   | 335.7 | 393.2 | 539.1 | 672.6 | 737.3 |
| 52.5° | 303.7 | 358.5 | 509.5 | 645.0 | 713.3 |
| 55°   | 272.8 | 325.0 | 479.2 | 616.9 | 690.1 |
| 57.5° | 243.9 | 291.8 | 447.9 | 590.3 | 670.5 |
| 60°   | 217.7 | 260.0 | 416.7 | 563.6 | 646.0 |
| 62.5° | 193.4 | 229.7 | 384.7 | 530.7 | 610.5 |
| 65°   | 170.7 | 203.1 | 351.1 | 493.5 | 571.4 |
| 67.5° | 148.1 | 178.5 | 318.8 | 458.3 | 534.6 |
| 70°   | 125.9 | 155.8 | 288.8 | 427.0 | 502.1 |
| 72.5° | 104.3 | 134.3 | 259.8 | 395.5 | 467.3 |
| 75°   | 83.1  | 113.7 | 230.9 | 360.4 | 428.9 |
| 77.5° | 62.3  | 93.4  | 199.9 | 320.6 | 385.2 |
| 80°   | 43.9  | 73.5  | 165.5 | 268.4 | 323.9 |
| 82.5° | 27.7  | 52.5  | 120.5 | 187.7 | 227.3 |
| 85°   | 14.6  | 29.3  | 66.7  | 110.9 | 148.7 |
| 87.5° | 4.6   | 8.7   | 25.5  | 53.1  | 77.3  |
| 90°   | 0.1   | 0.2   | 3.1   | 7.5   | 12.9  |

(END OF REPORT)