

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: 26355

Luminaire Tested: **I2-WD-3T8-1C-UNV-04**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 26355  
Test Lab: LIGHTING SCIENCES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WD-3T8-1C-UNV-04  
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

Light Source: THREE SYLVANIA 32 WATT T8 LAMPS  
FO32/835/ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

**Summary**

Lumens per Lamp: 2950 (3 lamps)  
Luminaire Lumens: 7240.2 lumens  
Efficiency: 81.8%  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')  
CIE Type: Semi-Indirect

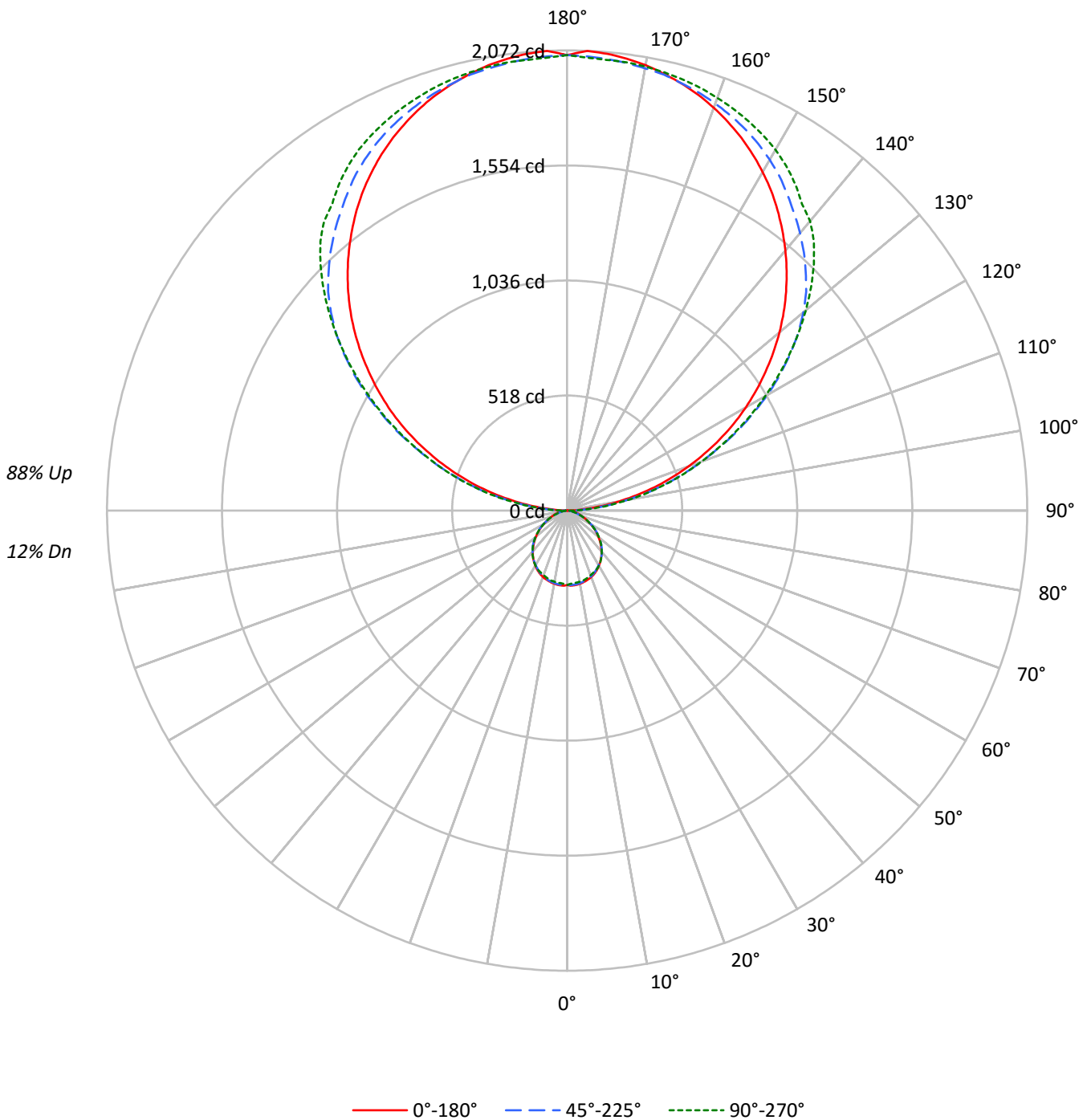
Input Watts (W): 89  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 80 | 80 | 80 | 80 | 70 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 18 | 18 | 18 | 10 |
| 1   | 73 | 70 | 67 | 64 | 64 | 61 | 59 | 56 | 45 | 43 | 42 | 29 | 29 | 28 | 15 | 15 | 15 | 8  |
| 2   | 67 | 61 | 56 | 52 | 58 | 53 | 49 | 46 | 39 | 37 | 34 | 26 | 24 | 23 | 14 | 13 | 12 | 7  |
| 3   | 61 | 53 | 48 | 43 | 53 | 47 | 42 | 39 | 34 | 31 | 29 | 23 | 21 | 20 | 12 | 11 | 11 | 6  |
| 4   | 55 | 47 | 41 | 37 | 48 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 17 | 11 | 10 | 9  | 5  |
| 5   | 51 | 42 | 36 | 31 | 44 | 37 | 32 | 28 | 27 | 24 | 21 | 18 | 16 | 14 | 10 | 9  | 8  | 5  |
| 6   | 47 | 37 | 31 | 27 | 40 | 33 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  | 8  | 7  | 4  |
| 7   | 43 | 33 | 27 | 23 | 37 | 29 | 24 | 21 | 22 | 18 | 16 | 15 | 12 | 11 | 8  | 7  | 6  | 4  |
| 8   | 40 | 30 | 24 | 20 | 34 | 27 | 22 | 18 | 20 | 16 | 14 | 13 | 11 | 10 | 7  | 6  | 5  | 3  |
| 9   | 37 | 27 | 22 | 18 | 32 | 24 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 8  | 7  | 6  | 5  | 3  |
| 10  | 34 | 25 | 19 | 16 | 30 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 8  | 6  | 5  | 4  | 3  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3170 | 3170 | 3170 |
| 5°  | 3210 | 3182 | 3116 |
| 10° | 3213 | 3183 | 3125 |
| 15° | 3209 | 3181 | 3135 |
| 20° | 3203 | 3170 | 3115 |
| 25° | 3177 | 3139 | 3128 |
| 30° | 3133 | 3096 | 3123 |
| 35° | 3065 | 3063 | 3075 |
| 40° | 2973 | 2999 | 2999 |
| 45° | 2851 | 2905 | 2893 |
| 50° | 2708 | 2770 | 2744 |
| 55° | 2532 | 2600 | 2558 |
| 60° | 2310 | 2365 | 2326 |
| 65° | 2089 | 2102 | 2089 |
| 70° | 1876 | 1793 | 1798 |
| 75° | 1861 | 1484 | 1502 |
| 80° | 1749 | 1220 | 1248 |
| 85° | 1335 | 1162 | 1183 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 31.8   | 0.4       | 0.4    |
| 10°-20°   | 91.6   | 1.3       | 1.0    |
| 20°-30°   | 139.0  | 1.9       | 1.6    |
| 30°-40°   | 165.9  | 2.3       | 1.9    |
| 40°-50°   | 165.8  | 2.3       | 1.9    |
| 50°-60°   | 138.9  | 1.9       | 1.6    |
| 60°-70°   | 92.7   | 1.3       | 1.0    |
| 70°-80°   | 45.2   | 0.6       | 0.5    |
| 80°-90°   | 13.7   | 0.2       | 0.2    |
| 90°-100°  | 131.6  | 1.8       | 1.5    |
| 100°-110° | 477.6  | 6.6       | 5.4    |
| 110°-120° | 819.3  | 11.3      | 9.3    |
| 120°-130° | 1063.0 | 14.7      | 12.0   |
| 130°-140° | 1155.3 | 16.0      | 13.1   |
| 140°-150° | 1079.6 | 14.9      | 12.2   |
| 150°-160° | 872.0  | 12.0      | 9.9    |
| 160°-170° | 562.8  | 7.8       | 6.4    |
| 170°-180° | 194.3  | 2.7       | 2.2    |
| 0°-30°    | 262.4  | 3.6       | 3.0    |
| 0°-40°    | 428.3  | 5.9       | 4.8    |
| 0°-60°    | 733.0  | 10.1      | 8.3    |
| 0°-90°    | 884.7  | 12.2      | 10.0   |
| 90°-120°  | 1428.4 | 19.7      | 16.1   |
| 90°-150°  | 4726.4 | 65.3      | 53.4   |
| 90°-180°  | 6356.0 | 87.8      | 71.8   |
| 0°-180°   | 7240.2 | 100.0     | 81.8   |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 335  | 335   | 335  | 335   | 335  |      |
| 5°   | 338  | 336   | 335  | 335   | 328  | 32   |
| 15°  | 328  | 325   | 325  | 325   | 320  | 92   |
| 25°  | 304  | 302   | 301  | 302   | 300  | 140  |
| 35°  | 265  | 264   | 265  | 268   | 266  | 166  |
| 45°  | 213  | 211   | 217  | 218   | 216  | 164  |
| 55°  | 154  | 154   | 158  | 157   | 155  | 137  |
| 65°  | 93   | 92    | 94   | 94    | 93   | 93   |
| 75°  | 51   | 40    | 41   | 42    | 41   | 53   |
| 85°  | 12   | 10    | 11   | 11    | 11   | 14   |
| 90°  | 0    | 3     | 9    | 15    | 18   | 4    |
| 95°  | 79   | 104   | 114  | 122   | 124  | 98   |
| 105° | 408  | 460   | 456  | 457   | 460  | 430  |
| 115° | 758  | 841   | 844  | 837   | 835  | 749  |
| 125° | 1091 | 1159  | 1224 | 1221  | 1220 | 975  |
| 135° | 1394 | 1437  | 1520 | 1562  | 1571 | 1075 |
| 145° | 1652 | 1672  | 1732 | 1776  | 1792 | 1033 |
| 155° | 1853 | 1856  | 1896 | 1918  | 1934 | 854  |
| 165° | 1991 | 1974  | 1992 | 2000  | 2010 | 562  |
| 175° | 2065 | 2043  | 2041 | 2034  | 2037 | 196  |
| 180° | 2051 | 2051  | 2051 | 2051  | 2051 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 |
| 2.5°   | 338.8 | 336.5 | 335.7 | 335.8 | 330.6 |
| 5°     | 338.0 | 335.5 | 335.0 | 334.6 | 328.1 |
| 7.5°   | 336.9 | 334.4 | 333.9 | 332.7 | 327.2 |
| 10°    | 334.4 | 331.9 | 331.3 | 330.6 | 325.3 |
| 12.5°  | 331.4 | 328.9 | 328.2 | 328.2 | 323.2 |
| 15°    | 327.6 | 325.4 | 324.8 | 324.7 | 320.1 |
| 17.5°  | 323.3 | 320.8 | 320.5 | 319.5 | 315.3 |
| 20°    | 318.1 | 315.5 | 314.8 | 313.8 | 309.4 |
| 22.5°  | 311.8 | 309.4 | 308.3 | 307.5 | 304.2 |
| 25°    | 304.3 | 302.1 | 300.7 | 301.6 | 299.6 |
| 27.5°  | 296.2 | 293.9 | 292.1 | 296.0 | 293.6 |
| 30°    | 286.8 | 284.6 | 283.4 | 288.3 | 285.9 |
| 32.5°  | 276.5 | 274.4 | 274.2 | 278.7 | 276.4 |
| 35°    | 265.4 | 263.5 | 265.2 | 268.3 | 266.2 |
| 37.5°  | 253.4 | 251.6 | 254.5 | 257.1 | 254.9 |
| 40°    | 240.7 | 239.1 | 242.8 | 244.9 | 242.8 |
| 42.5°  | 227.1 | 225.5 | 230.4 | 231.7 | 229.8 |
| 45°    | 213.1 | 211.2 | 217.1 | 218.1 | 216.2 |
| 47.5°  | 198.7 | 197.4 | 203.1 | 203.4 | 201.6 |
| 50°    | 184.0 | 183.5 | 188.2 | 188.0 | 186.4 |
| 52.5°  | 169.0 | 169.2 | 173.1 | 172.8 | 171.0 |
| 55°    | 153.5 | 154.2 | 157.6 | 156.8 | 155.1 |
| 57.5°  | 137.7 | 138.6 | 141.1 | 141.0 | 138.8 |
| 60°    | 122.1 | 122.9 | 125.0 | 124.6 | 122.9 |
| 62.5°  | 107.1 | 107.4 | 109.1 | 109.5 | 107.9 |
| 65°    | 93.3  | 92.2  | 93.9  | 94.4  | 93.3  |
| 67.5°  | 79.9  | 77.8  | 79.2  | 79.5  | 78.6  |
| 70°    | 67.8  | 63.7  | 64.8  | 65.9  | 65.0  |
| 72.5°  | 59.1  | 50.6  | 52.1  | 53.1  | 52.3  |
| 75°    | 50.9  | 39.6  | 40.6  | 41.9  | 41.1  |
| 77.5°  | 41.9  | 30.2  | 30.5  | 31.7  | 31.1  |
| 80°    | 32.1  | 22.0  | 22.4  | 23.3  | 22.9  |
| 82.5°  | 21.8  | 15.3  | 15.9  | 16.7  | 16.3  |
| 85°    | 12.3  | 10.0  | 10.7  | 11.1  | 10.9  |
| 87.5°  | 5.6   | 5.8   | 6.1   | 6.9   | 7.0   |
| 90°    | 0.2   | 3.0   | 9.3   | 15.3  | 18.0  |
| 92.5°  | 20.0  | 39.7  | 51.4  | 57.8  | 61.6  |
| 95°    | 79.2  | 104.1 | 114.1 | 122.5 | 123.5 |
| 97.5°  | 153.6 | 180.6 | 191.6 | 197.5 | 197.9 |
| 100°   | 235.3 | 265.4 | 273.3 | 281.3 | 281.5 |
| 102.5° | 321.1 | 360.5 | 364.6 | 370.2 | 370.5 |
| 105°   | 407.6 | 459.8 | 455.8 | 457.2 | 459.8 |
| 107.5° | 494.4 | 557.6 | 548.6 | 551.3 | 551.1 |
| 110°   | 582.0 | 655.8 | 644.3 | 642.1 | 642.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 669.8  | 749.8  | 740.3  | 739.8  | 737.3  |
| 115°   | 757.8  | 841.1  | 843.9  | 837.1  | 834.6  |
| 117.5° | 844.9  | 924.4  | 941.4  | 932.7  | 932.8  |
| 120°   | 928.5  | 1004.9 | 1041.0 | 1031.3 | 1031.0 |
| 122.5° | 1010.2 | 1083.0 | 1135.0 | 1124.9 | 1125.5 |
| 125°   | 1090.9 | 1158.9 | 1224.5 | 1221.4 | 1219.9 |
| 127.5° | 1170.7 | 1232.8 | 1310.9 | 1314.2 | 1313.0 |
| 130°   | 1248.2 | 1304.1 | 1388.3 | 1402.7 | 1403.2 |
| 132.5° | 1322.6 | 1372.0 | 1459.5 | 1486.9 | 1489.9 |
| 135°   | 1394.2 | 1437.1 | 1519.7 | 1561.7 | 1571.1 |
| 137.5° | 1462.9 | 1494.7 | 1577.4 | 1625.6 | 1644.4 |
| 140°   | 1529.0 | 1552.7 | 1631.5 | 1678.7 | 1702.0 |
| 142.5° | 1591.5 | 1613.5 | 1681.7 | 1720.4 | 1738.6 |
| 145°   | 1651.9 | 1672.3 | 1731.6 | 1775.5 | 1792.4 |
| 147.5° | 1708.7 | 1725.5 | 1782.2 | 1820.9 | 1837.8 |
| 150°   | 1760.5 | 1772.7 | 1824.2 | 1859.3 | 1876.5 |
| 152.5° | 1809.0 | 1815.9 | 1862.4 | 1889.2 | 1907.2 |
| 155°   | 1853.4 | 1855.9 | 1896.0 | 1917.5 | 1934.0 |
| 157.5° | 1893.5 | 1891.2 | 1924.6 | 1941.7 | 1957.1 |
| 160°   | 1930.7 | 1921.4 | 1950.7 | 1965.7 | 1977.5 |
| 162.5° | 1963.1 | 1949.0 | 1973.3 | 1985.5 | 1995.6 |
| 165°   | 1990.7 | 1974.3 | 1992.1 | 1999.6 | 2009.6 |
| 167.5° | 2014.9 | 1996.0 | 2010.3 | 2010.2 | 2020.9 |
| 170°   | 2036.4 | 2015.0 | 2022.1 | 2019.4 | 2029.8 |
| 172.5° | 2052.9 | 2031.6 | 2032.9 | 2027.5 | 2036.5 |
| 175°   | 2064.7 | 2043.0 | 2041.2 | 2033.8 | 2037.0 |
| 177.5° | 2071.8 | 2049.0 | 2047.1 | 2037.1 | 2041.2 |
| 180°   | 2050.8 | 2050.8 | 2050.8 | 2050.8 | 2050.8 |

(END OF REPORT)