

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: 26348

Luminaire Tested: **I2-WB-3T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26348
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WB-3T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND 28 CELL SEMI-SPECULAR PARABOLIC LOUVER

Light Source: THREE PHILIPS 54 WATT T5 LAMPS

F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 4500 (3 lamps)
Luminaire Lumens: 11909.0 lumens
Efficiency: 88.2%
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.47 / 1.41
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Semi-Indirect

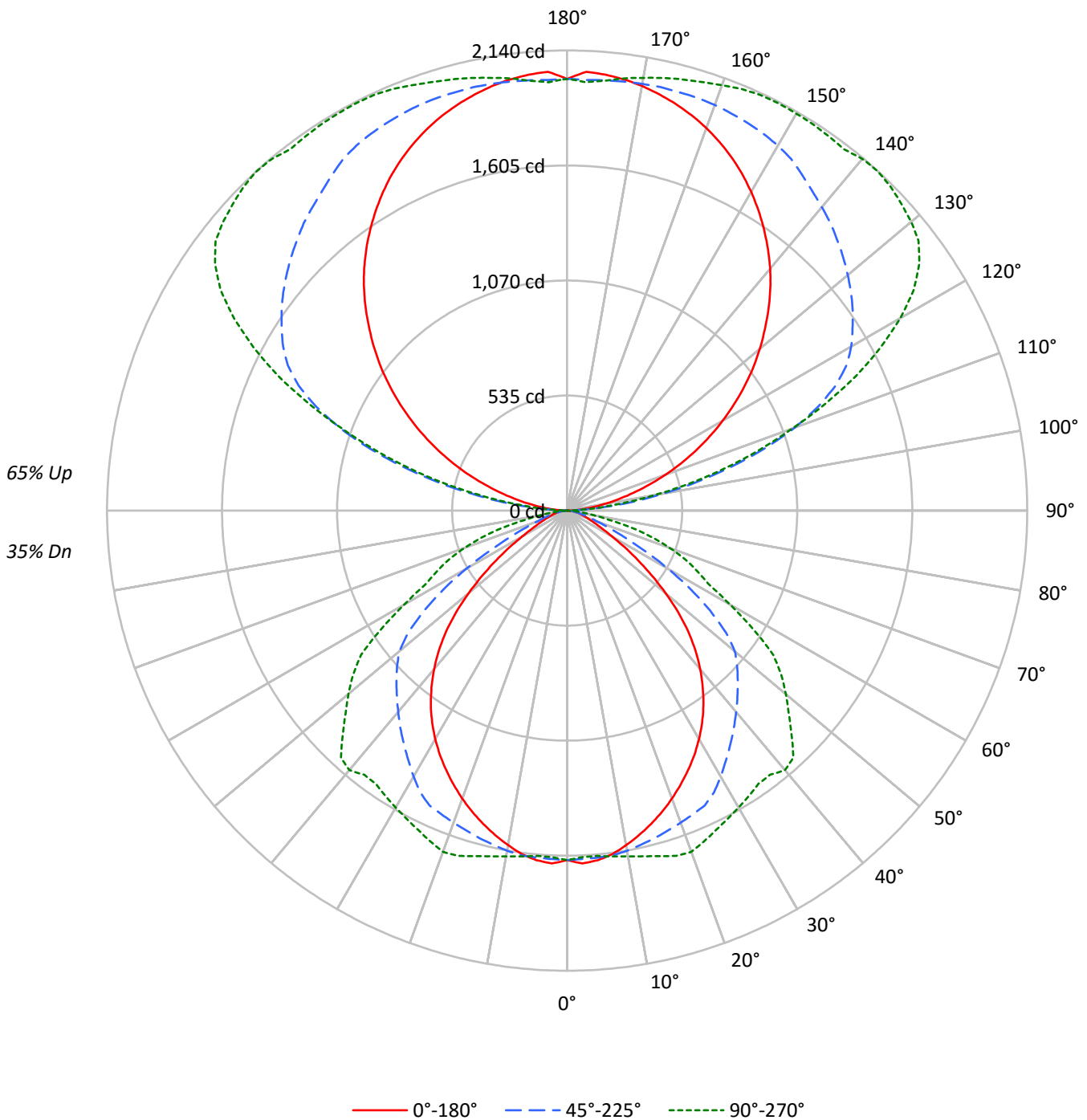
Input Watts (W): 176.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 91 | 91 | 91 | 91 | 83 | 83 | 83 | 83 | 66 | 66 | 66 | 51 | 51 | 51 | 38 | 38 | 38 | 31 |
| 1 | 84 | 80 | 77 | 74 | 76 | 73 | 70 | 68 | 59 | 57 | 55 | 46 | 45 | 43 | 34 | 33 | 32 | 27 |
| 2 | 76 | 70 | 65 | 61 | 69 | 64 | 60 | 56 | 52 | 49 | 46 | 40 | 38 | 37 | 30 | 29 | 28 | 23 |
| 3 | 70 | 62 | 56 | 51 | 63 | 56 | 51 | 47 | 46 | 42 | 39 | 36 | 33 | 31 | 27 | 25 | 24 | 20 |
| 4 | 64 | 55 | 48 | 43 | 58 | 50 | 44 | 40 | 41 | 37 | 33 | 32 | 29 | 27 | 24 | 22 | 21 | 17 |
| 5 | 59 | 49 | 42 | 37 | 53 | 44 | 39 | 34 | 36 | 32 | 29 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |
| 6 | 54 | 44 | 37 | 32 | 49 | 40 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 20 | 20 | 18 | 16 | 13 |
| 7 | 50 | 39 | 33 | 28 | 45 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 20 | 18 | 18 | 16 | 14 | 12 |
| 8 | 46 | 36 | 29 | 24 | 42 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 16 | 14 | 13 | 10 |
| 9 | 43 | 32 | 26 | 22 | 39 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 9 |
| 10 | 40 | 30 | 23 | 19 | 36 | 27 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15381 | 15381 | 15381 |
| 5° | 15500 | 15387 | 15312 |
| 10° | 15180 | 15431 | 15686 |
| 15° | 14778 | 15446 | 16292 |
| 20° | 14351 | 15548 | 17005 |
| 25° | 13900 | 15793 | 17113 |
| 30° | 13399 | 15605 | 17420 |
| 35° | 12767 | 15298 | 17917 |
| 40° | 11887 | 15096 | 19462 |
| 45° | 10657 | 15015 | 19748 |
| 50° | 8799 | 14990 | 19539 |
| 55° | 6634 | 13382 | 19299 |
| 60° | 4570 | 10271 | 16557 |
| 65° | 3309 | 6595 | 14950 |
| 70° | 2653 | 4144 | 14069 |
| 75° | 2453 | 2921 | 11610 |
| 80° | 2305 | 2163 | 7023 |
| 85° | 2041 | 1704 | 3691 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10° | 154.4 | 1.3 | 1.1 |
| 10°-20° | 447.7 | 3.8 | 3.3 |
| 20°-30° | 688.3 | 5.8 | 5.1 |
| 30°-40° | 833.4 | 7.0 | 6.2 |
| 40°-50° | 873.0 | 7.3 | 6.5 |
| 50°-60° | 694.1 | 5.8 | 5.1 |
| 60°-70° | 356.8 | 3.0 | 2.6 |
| 70°-80° | 133.6 | 1.1 | 1.0 |
| 80°-90° | 24.6 | 0.2 | 0.2 |
| 90°-100° | 174.5 | 1.5 | 1.3 |
| 100°-110° | 724.7 | 6.1 | 5.4 |
| 110°-120° | 1197.2 | 10.1 | 8.9 |
| 120°-130° | 1397.2 | 11.7 | 10.3 |
| 130°-140° | 1354.4 | 11.4 | 10.0 |
| 140°-150° | 1179.7 | 9.9 | 8.7 |
| 150°-160° | 913.5 | 7.7 | 6.8 |
| 160°-170° | 569.8 | 4.8 | 4.2 |
| 170°-180° | 192.2 | 1.6 | 1.4 |
| 0°-30° | 1290.4 | 10.8 | 9.6 |
| 0°-40° | 2123.7 | 17.8 | 15.7 |
| 0°-60° | 3690.8 | 31.0 | 27.3 |
| 0°-90° | 4205.7 | 35.3 | 31.2 |
| 90°-120° | 2096.5 | 17.6 | 15.5 |
| 90°-150° | 6027.8 | 50.6 | 44.7 |
| 90°-180° | 7703.0 | 64.7 | 57.1 |
| 0°-180° | 11909.0 | 100.0 | 88.2 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1626 | 1626 | 1626 | 1626 | 1626 | |
| 5° | 1632 | 1619 | 1620 | 1628 | 1612 | 154 |
| 15° | 1509 | 1520 | 1577 | 1649 | 1663 | 425 |
| 25° | 1332 | 1378 | 1513 | 1601 | 1639 | 613 |
| 35° | 1105 | 1202 | 1324 | 1459 | 1551 | 689 |
| 45° | 796 | 942 | 1122 | 1365 | 1476 | 608 |
| 55° | 402 | 551 | 811 | 1004 | 1170 | 363 |
| 65° | 148 | 185 | 295 | 505 | 668 | 153 |
| 75° | 67 | 64 | 80 | 151 | 318 | 71 |
| 85° | 19 | 16 | 16 | 18 | 34 | 20 |
| 90° | 0 | 4 | 4 | 2 | 0 | 5 |
| 95° | 68 | 161 | 153 | 131 | 129 | 78 |
| 105° | 319 | 663 | 793 | 757 | 758 | 341 |
| 115° | 660 | 949 | 1378 | 1479 | 1483 | 653 |
| 125° | 1006 | 1237 | 1621 | 1914 | 1999 | 898 |
| 135° | 1324 | 1488 | 1778 | 2029 | 2128 | 1021 |
| 145° | 1596 | 1701 | 1906 | 2060 | 2123 | 998 |
| 155° | 1812 | 1865 | 1988 | 2091 | 2132 | 834 |
| 165° | 1957 | 1963 | 2014 | 2058 | 2076 | 552 |
| 175° | 2035 | 2011 | 2009 | 2006 | 2007 | 193 |
| 180° | 2008 | 2008 | 2008 | 2008 | 2008 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1625.7 | 1625.7 | 1625.7 | 1625.7 | 1625.7 |
| 2.5° | 1642.5 | 1628.1 | 1622.3 | 1624.7 | 1613.1 |
| 5° | 1632.1 | 1618.7 | 1620.2 | 1628.1 | 1612.3 |
| 7.5° | 1611.6 | 1604.8 | 1617.0 | 1629.9 | 1622.1 |
| 10° | 1580.1 | 1579.6 | 1606.2 | 1634.0 | 1632.8 |
| 12.5° | 1545.6 | 1551.2 | 1591.0 | 1641.7 | 1646.7 |
| 15° | 1508.7 | 1520.5 | 1576.9 | 1648.6 | 1663.3 |
| 17.5° | 1468.8 | 1487.9 | 1560.2 | 1653.0 | 1684.0 |
| 20° | 1425.4 | 1453.9 | 1544.3 | 1661.2 | 1689.0 |
| 22.5° | 1379.5 | 1416.8 | 1528.6 | 1638.2 | 1664.4 |
| 25° | 1331.5 | 1378.4 | 1512.9 | 1601.3 | 1639.3 |
| 27.5° | 1281.1 | 1339.6 | 1478.2 | 1565.9 | 1616.1 |
| 30° | 1226.5 | 1296.3 | 1428.4 | 1530.2 | 1594.5 |
| 32.5° | 1168.6 | 1250.4 | 1375.0 | 1493.6 | 1573.1 |
| 35° | 1105.4 | 1202.4 | 1324.5 | 1458.8 | 1551.3 |
| 37.5° | 1036.3 | 1149.8 | 1273.8 | 1426.6 | 1548.9 |
| 40° | 962.5 | 1091.3 | 1222.3 | 1414.7 | 1575.8 |
| 42.5° | 883.1 | 1022.1 | 1172.3 | 1411.8 | 1557.9 |
| 45° | 796.5 | 941.7 | 1122.2 | 1365.1 | 1475.9 |
| 47.5° | 701.0 | 852.4 | 1072.9 | 1272.8 | 1397.9 |
| 50° | 597.8 | 755.5 | 1018.4 | 1180.7 | 1327.5 |
| 52.5° | 497.0 | 654.9 | 930.4 | 1095.5 | 1255.6 |
| 55° | 402.2 | 550.6 | 811.3 | 1004.2 | 1170.0 |
| 57.5° | 314.7 | 441.1 | 680.2 | 894.2 | 1025.6 |
| 60° | 241.5 | 335.7 | 542.8 | 745.9 | 875.0 |
| 62.5° | 186.8 | 247.6 | 408.7 | 617.5 | 741.1 |
| 65° | 147.8 | 185.0 | 294.6 | 505.3 | 667.8 |
| 67.5° | 118.0 | 141.2 | 209.3 | 414.6 | 595.4 |
| 70° | 95.9 | 108.4 | 149.8 | 318.6 | 508.6 |
| 72.5° | 79.6 | 83.1 | 109.3 | 227.7 | 414.7 |
| 75° | 67.1 | 63.9 | 79.9 | 151.4 | 317.6 |
| 77.5° | 54.5 | 48.2 | 57.1 | 92.9 | 202.6 |
| 80° | 42.3 | 35.3 | 39.7 | 57.5 | 128.9 |
| 82.5° | 30.0 | 25.2 | 26.8 | 33.4 | 75.9 |
| 85° | 18.8 | 16.4 | 15.7 | 17.6 | 34.0 |
| 87.5° | 9.2 | 8.9 | 8.1 | 7.1 | 7.9 |
| 90° | 0.3 | 4.1 | 3.6 | 2.0 | 0.4 |
| 92.5° | 26.2 | 50.7 | 47.9 | 35.7 | 34.7 |
| 95° | 67.7 | 161.3 | 153.0 | 130.8 | 129.4 |
| 97.5° | 117.2 | 299.4 | 296.9 | 264.6 | 257.9 |
| 100° | 176.2 | 442.2 | 450.8 | 425.4 | 410.1 |
| 102.5° | 243.8 | 565.9 | 622.0 | 591.0 | 581.7 |
| 105° | 318.6 | 662.8 | 793.0 | 756.7 | 757.8 |
| 107.5° | 399.7 | 736.8 | 965.6 | 946.4 | 935.4 |
| 110° | 485.2 | 805.8 | 1125.0 | 1128.0 | 1112.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 572.4 | 876.0 | 1264.5 | 1309.9 | 1301.6 |
| 115° | 659.9 | 948.6 | 1378.1 | 1478.7 | 1483.4 |
| 117.5° | 747.5 | 1023.3 | 1465.5 | 1625.7 | 1644.7 |
| 120° | 834.4 | 1097.4 | 1525.8 | 1747.3 | 1788.2 |
| 122.5° | 920.9 | 1168.6 | 1574.0 | 1847.0 | 1911.3 |
| 125° | 1006.2 | 1236.8 | 1620.6 | 1914.3 | 1999.4 |
| 127.5° | 1089.5 | 1303.4 | 1664.6 | 1951.8 | 2060.3 |
| 130° | 1169.5 | 1367.3 | 1703.4 | 1979.8 | 2088.6 |
| 132.5° | 1247.0 | 1428.8 | 1742.2 | 2008.4 | 2109.0 |
| 135° | 1324.0 | 1487.8 | 1777.5 | 2028.6 | 2128.4 |
| 137.5° | 1398.7 | 1539.2 | 1812.8 | 2036.9 | 2139.6 |
| 140° | 1468.8 | 1592.3 | 1842.2 | 2041.4 | 2135.6 |
| 142.5° | 1534.2 | 1647.7 | 1872.7 | 2041.3 | 2116.9 |
| 145° | 1596.1 | 1701.2 | 1905.7 | 2060.2 | 2123.2 |
| 147.5° | 1655.5 | 1749.3 | 1938.8 | 2072.9 | 2129.4 |
| 150° | 1711.5 | 1791.6 | 1960.0 | 2085.2 | 2131.6 |
| 152.5° | 1764.1 | 1830.8 | 1975.8 | 2090.8 | 2133.2 |
| 155° | 1811.8 | 1865.0 | 1988.4 | 2090.7 | 2131.5 |
| 157.5° | 1854.3 | 1895.0 | 1998.3 | 2082.0 | 2121.7 |
| 160° | 1893.1 | 1920.1 | 2007.3 | 2074.5 | 2105.0 |
| 162.5° | 1927.3 | 1942.6 | 2012.6 | 2067.4 | 2089.6 |
| 165° | 1956.6 | 1962.8 | 2014.2 | 2058.5 | 2075.8 |
| 167.5° | 1982.3 | 1979.0 | 2016.6 | 2045.3 | 2060.4 |
| 170° | 2005.2 | 1993.4 | 2014.8 | 2029.8 | 2043.7 |
| 172.5° | 2022.7 | 2004.8 | 2012.7 | 2017.4 | 2027.4 |
| 175° | 2035.0 | 2011.3 | 2008.6 | 2006.2 | 2006.9 |
| 177.5° | 2042.4 | 2014.8 | 2004.1 | 1993.4 | 1994.2 |
| 180° | 2007.6 | 2007.6 | 2007.6 | 2007.6 | 2007.6 |

(END OF REPORT)