

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297499

Luminaire Tested: **D3X-WO-50L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

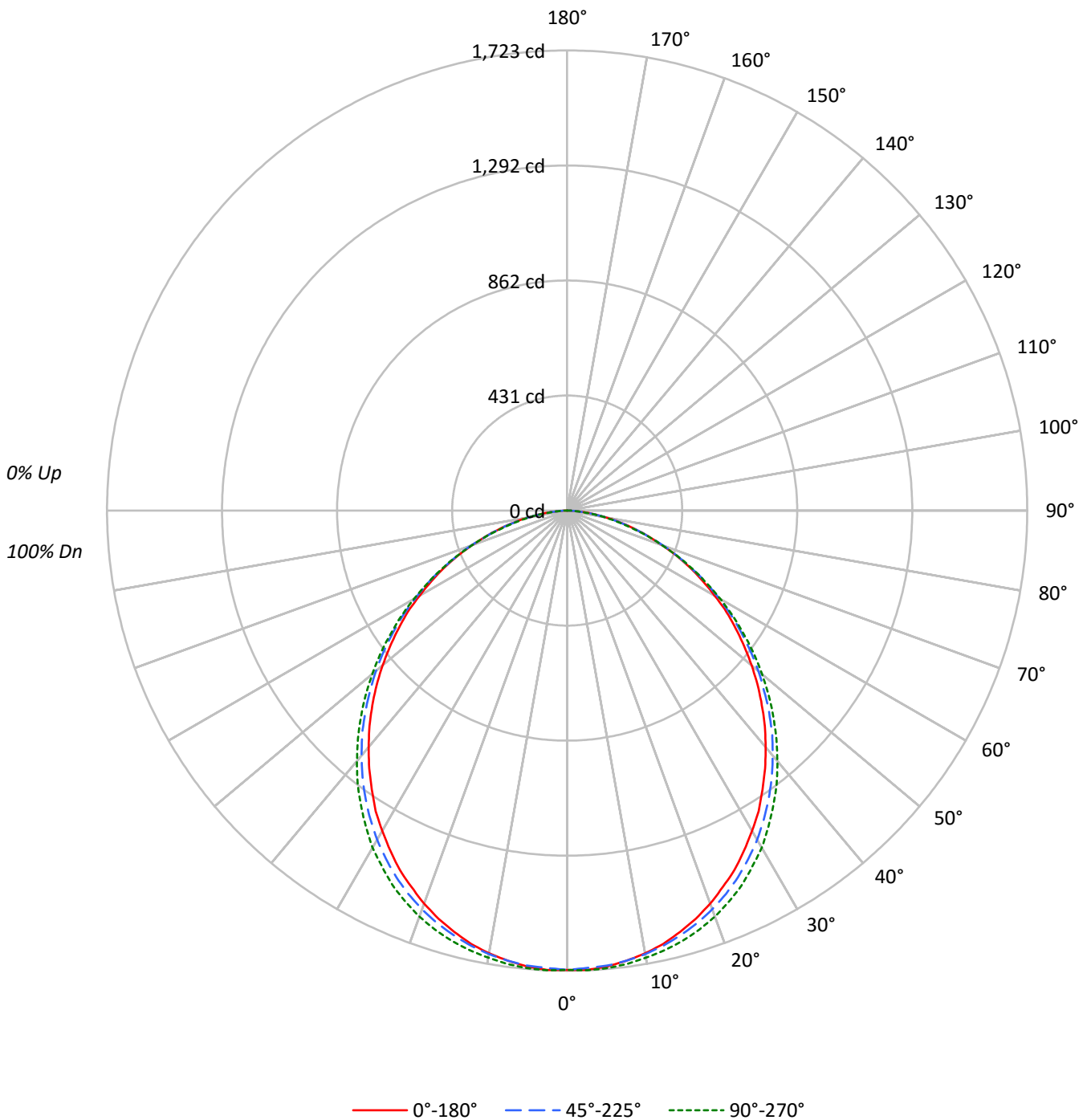
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297499

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Luminous Intensity Polar Plot





TEST NUMBER: P297499

CATALOG NUMBER: D3X-WO-50L92765-LD5-UNV-24-T1-W2A-4500K

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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 100 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | 60 | | | |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | 39 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2314 | 2314 | 2314 |
| 5° | 2315 | 2311 | 2323 |
| 10° | 2300 | 2304 | 2323 |
| 15° | 2275 | 2292 | 2323 |
| 20° | 2242 | 2275 | 2316 |
| 25° | 2203 | 2248 | 2298 |
| 30° | 2151 | 2211 | 2265 |
| 35° | 2094 | 2162 | 2212 |
| 40° | 2031 | 2103 | 2151 |
| 45° | 1962 | 2035 | 2078 |
| 50° | 1888 | 1958 | 1993 |
| 55° | 1808 | 1865 | 1894 |
| 60° | 1718 | 1763 | 1783 |
| 65° | 1620 | 1644 | 1654 |
| 70° | 1486 | 1504 | 1486 |
| 75° | 1338 | 1330 | 1291 |
| 80° | 1133 | 1121 | 1086 |
| 85° | 846 | 823 | 729 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.8 | 3.6 |
| 10°-20° | 465.1 | 10.3 |
| 20°-30° | 697.4 | 15.4 |
| 30°-40° | 821.3 | 18.2 |
| 40°-50° | 821.5 | 18.2 |
| 50°-60° | 708.8 | 15.7 |
| 60°-70° | 510.0 | 11.3 |
| 70°-80° | 270.5 | 6.0 |
| 80°-90° | 64.5 | 1.4 |
| 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° | 1325.4 | 29.3 |
| 0°-40° | 2146.7 | 47.5 |
| 0°-60° | 3677.0 | 81.3 |
| 0°-90° | 4522.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4522.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1720 | 1720 | 1720 | 1720 | 1720 | |
| 5° | 1714 | 1712 | 1711 | 1717 | 1720 | 163 |
| 15° | 1633 | 1638 | 1645 | 1662 | 1668 | 460 |
| 25° | 1484 | 1493 | 1514 | 1540 | 1548 | 682 |
| 35° | 1275 | 1290 | 1316 | 1339 | 1347 | 798 |
| 45° | 1031 | 1045 | 1069 | 1088 | 1092 | 796 |
| 55° | 771 | 778 | 795 | 809 | 807 | 690 |
| 65° | 509 | 510 | 516 | 519 | 519 | 503 |
| 75° | 257 | 254 | 256 | 250 | 248 | 274 |
| 85° | 55 | 55 | 53 | 49 | 47 | 66 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1719.8 | 1719.8 | 1719.8 | 1719.8 | 1719.8 |
| 2.5° | 1721.3 | 1718.3 | 1713.7 | 1719.8 | 1722.8 |
| 5° | 1713.7 | 1712.2 | 1710.7 | 1716.8 | 1719.8 |
| 7.5° | 1700.0 | 1701.5 | 1700.0 | 1709.1 | 1712.2 |
| 10° | 1683.2 | 1684.8 | 1686.3 | 1697.0 | 1700.0 |
| 12.5° | 1661.9 | 1663.4 | 1668.0 | 1681.7 | 1686.3 |
| 15° | 1633.0 | 1637.5 | 1645.2 | 1661.9 | 1668.0 |
| 17.5° | 1602.5 | 1608.6 | 1619.3 | 1639.1 | 1645.2 |
| 20° | 1565.9 | 1573.6 | 1588.8 | 1610.1 | 1617.7 |
| 22.5° | 1524.8 | 1532.4 | 1553.8 | 1576.6 | 1584.2 |
| 25° | 1483.7 | 1492.8 | 1514.2 | 1540.1 | 1547.7 |
| 27.5° | 1434.9 | 1447.1 | 1470.0 | 1495.9 | 1502.0 |
| 30° | 1384.7 | 1395.3 | 1422.8 | 1447.1 | 1457.8 |
| 32.5° | 1334.4 | 1345.1 | 1371.0 | 1395.3 | 1403.0 |
| 35° | 1275.0 | 1290.2 | 1316.1 | 1339.0 | 1346.6 |
| 37.5° | 1217.1 | 1230.8 | 1258.2 | 1281.1 | 1288.7 |
| 40° | 1156.2 | 1168.4 | 1197.3 | 1218.6 | 1224.7 |
| 42.5° | 1095.2 | 1107.4 | 1136.4 | 1153.1 | 1159.2 |
| 45° | 1031.3 | 1045.0 | 1069.4 | 1087.6 | 1092.2 |
| 47.5° | 967.3 | 978.0 | 1000.8 | 1017.6 | 1023.7 |
| 50° | 901.8 | 912.5 | 935.3 | 949.0 | 952.1 |
| 52.5° | 836.3 | 843.9 | 865.2 | 877.4 | 882.0 |
| 55° | 770.8 | 778.4 | 795.2 | 808.9 | 807.3 |
| 57.5° | 708.3 | 711.4 | 728.1 | 737.3 | 737.3 |
| 60° | 638.3 | 641.3 | 655.0 | 661.1 | 662.6 |
| 62.5° | 572.8 | 577.3 | 588.0 | 589.5 | 589.5 |
| 65° | 508.8 | 510.3 | 516.4 | 519.4 | 519.4 |
| 67.5° | 444.8 | 443.3 | 449.4 | 449.4 | 447.8 |
| 70° | 377.8 | 380.8 | 382.3 | 379.3 | 377.8 |
| 72.5° | 316.8 | 315.3 | 315.3 | 313.8 | 313.8 |
| 75° | 257.4 | 254.4 | 255.9 | 249.8 | 248.3 |
| 77.5° | 202.6 | 198.0 | 196.5 | 193.5 | 190.4 |
| 80° | 146.2 | 146.2 | 144.7 | 141.7 | 140.1 |
| 82.5° | 97.5 | 97.5 | 96.0 | 92.9 | 89.9 |
| 85° | 54.8 | 54.8 | 53.3 | 48.7 | 47.2 |
| 87.5° | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)