

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: P297894

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

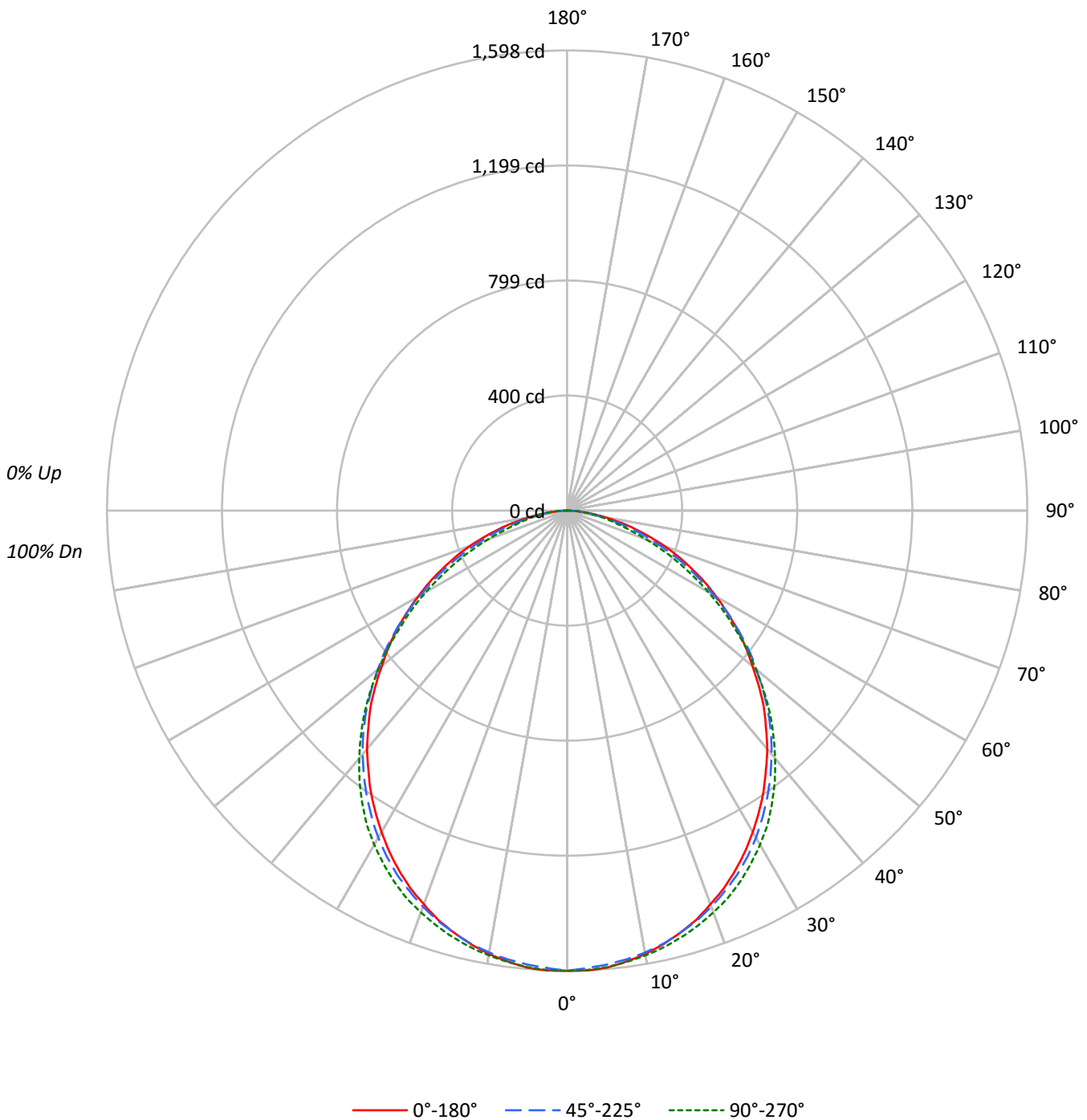
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4301 | 4301 | 4301 |
| 5° | 4304 | 4275 | 4299 |
| 10° | 4272 | 4258 | 4286 |
| 15° | 4229 | 4229 | 4273 |
| 20° | 4167 | 4192 | 4252 |
| 25° | 4097 | 4144 | 4222 |
| 30° | 4006 | 4076 | 4163 |
| 35° | 3908 | 3983 | 4074 |
| 40° | 3798 | 3878 | 3946 |
| 45° | 3676 | 3756 | 3789 |
| 50° | 3517 | 3591 | 3576 |
| 55° | 3385 | 3409 | 3319 |
| 60° | 3215 | 3168 | 3046 |
| 65° | 3037 | 2914 | 2714 |
| 70° | 2817 | 2584 | 2295 |
| 75° | 2507 | 2216 | 1889 |
| 80° | 2084 | 1813 | 1759 |
| 85° | 1510 | 1618 | 1618 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.8 | 3.7 |
| 10°-20° | 429.7 | 10.4 |
| 20°-30° | 644.0 | 15.6 |
| 30°-40° | 758.7 | 18.4 |
| 40°-50° | 756.8 | 18.4 |
| 50°-60° | 643.7 | 15.6 |
| 60°-70° | 449.2 | 10.9 |
| 70°-80° | 228.3 | 5.5 |
| 80°-90° | 59.6 | 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° | 1224.5 | 29.7 |
| 0°-40° | 1983.3 | 48.1 |
| 0°-60° | 3383.7 | 82.1 |
| 0°-90° | 4121.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4121.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1598 | 1598 | 1598 | 1598 | 1598 | |
| 5° | 1593 | 1590 | 1583 | 1591 | 1591 | 151 |
| 15° | 1518 | 1518 | 1518 | 1532 | 1534 | 428 |
| 25° | 1380 | 1382 | 1396 | 1417 | 1422 | 635 |
| 35° | 1190 | 1191 | 1212 | 1237 | 1240 | 743 |
| 45° | 966 | 970 | 987 | 994 | 996 | 743 |
| 55° | 722 | 722 | 727 | 716 | 708 | 645 |
| 65° | 477 | 470 | 458 | 433 | 426 | 473 |
| 75° | 241 | 232 | 213 | 187 | 182 | 256 |
| 85° | 49 | 51 | 52 | 52 | 52 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1598.4 | 1598.4 | 1598.4 | 1598.4 | 1598.4 |
| 2.5° | 1598.4 | 1596.6 | 1589.7 | 1596.6 | 1596.6 |
| 5° | 1593.2 | 1589.7 | 1582.7 | 1591.4 | 1591.4 |
| 7.5° | 1579.2 | 1577.4 | 1572.2 | 1580.9 | 1580.9 |
| 10° | 1563.5 | 1561.7 | 1558.2 | 1568.7 | 1568.7 |
| 12.5° | 1542.5 | 1542.5 | 1540.7 | 1551.2 | 1553.0 |
| 15° | 1518.0 | 1518.0 | 1518.0 | 1532.0 | 1533.8 |
| 17.5° | 1490.1 | 1488.3 | 1493.6 | 1509.3 | 1511.0 |
| 20° | 1455.1 | 1456.9 | 1463.9 | 1481.4 | 1484.8 |
| 22.5° | 1420.2 | 1422.0 | 1430.7 | 1451.7 | 1456.9 |
| 25° | 1380.0 | 1381.8 | 1395.8 | 1416.7 | 1422.0 |
| 27.5° | 1336.4 | 1339.9 | 1355.6 | 1378.3 | 1381.8 |
| 30° | 1289.2 | 1292.7 | 1311.9 | 1334.6 | 1339.9 |
| 32.5° | 1240.3 | 1245.5 | 1263.0 | 1287.4 | 1294.4 |
| 35° | 1189.6 | 1191.4 | 1212.3 | 1236.8 | 1240.3 |
| 37.5° | 1133.7 | 1139.0 | 1159.9 | 1180.9 | 1184.4 |
| 40° | 1081.3 | 1084.8 | 1104.0 | 1121.5 | 1123.2 |
| 42.5° | 1021.9 | 1027.2 | 1048.1 | 1060.4 | 1060.4 |
| 45° | 966.0 | 969.5 | 987.0 | 994.0 | 995.7 |
| 47.5° | 903.1 | 906.6 | 922.4 | 925.8 | 925.8 |
| 50° | 840.2 | 849.0 | 857.7 | 857.7 | 854.2 |
| 52.5° | 782.6 | 784.3 | 794.8 | 787.8 | 784.3 |
| 55° | 721.5 | 721.5 | 726.7 | 716.2 | 707.5 |
| 57.5° | 660.3 | 660.3 | 660.3 | 646.3 | 639.4 |
| 60° | 597.4 | 595.7 | 588.7 | 571.2 | 566.0 |
| 62.5° | 538.0 | 532.8 | 522.3 | 504.8 | 494.4 |
| 65° | 476.9 | 469.9 | 457.7 | 433.2 | 426.2 |
| 67.5° | 419.3 | 407.0 | 393.0 | 370.3 | 358.1 |
| 70° | 358.1 | 347.6 | 328.4 | 302.2 | 291.7 |
| 72.5° | 298.7 | 288.2 | 272.5 | 246.3 | 230.6 |
| 75° | 241.1 | 232.3 | 213.1 | 186.9 | 181.7 |
| 77.5° | 185.2 | 179.9 | 160.7 | 148.5 | 146.7 |
| 80° | 134.5 | 132.8 | 117.0 | 113.5 | 113.5 |
| 82.5° | 89.1 | 87.3 | 82.1 | 82.1 | 80.4 |
| 85° | 48.9 | 50.7 | 52.4 | 52.4 | 52.4 |
| 87.5° | 17.5 | 21.0 | 24.5 | 24.5 | 24.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)