

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: P297329

Luminaire Tested: **D3X-WO-36L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297329
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-36L82765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3468.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

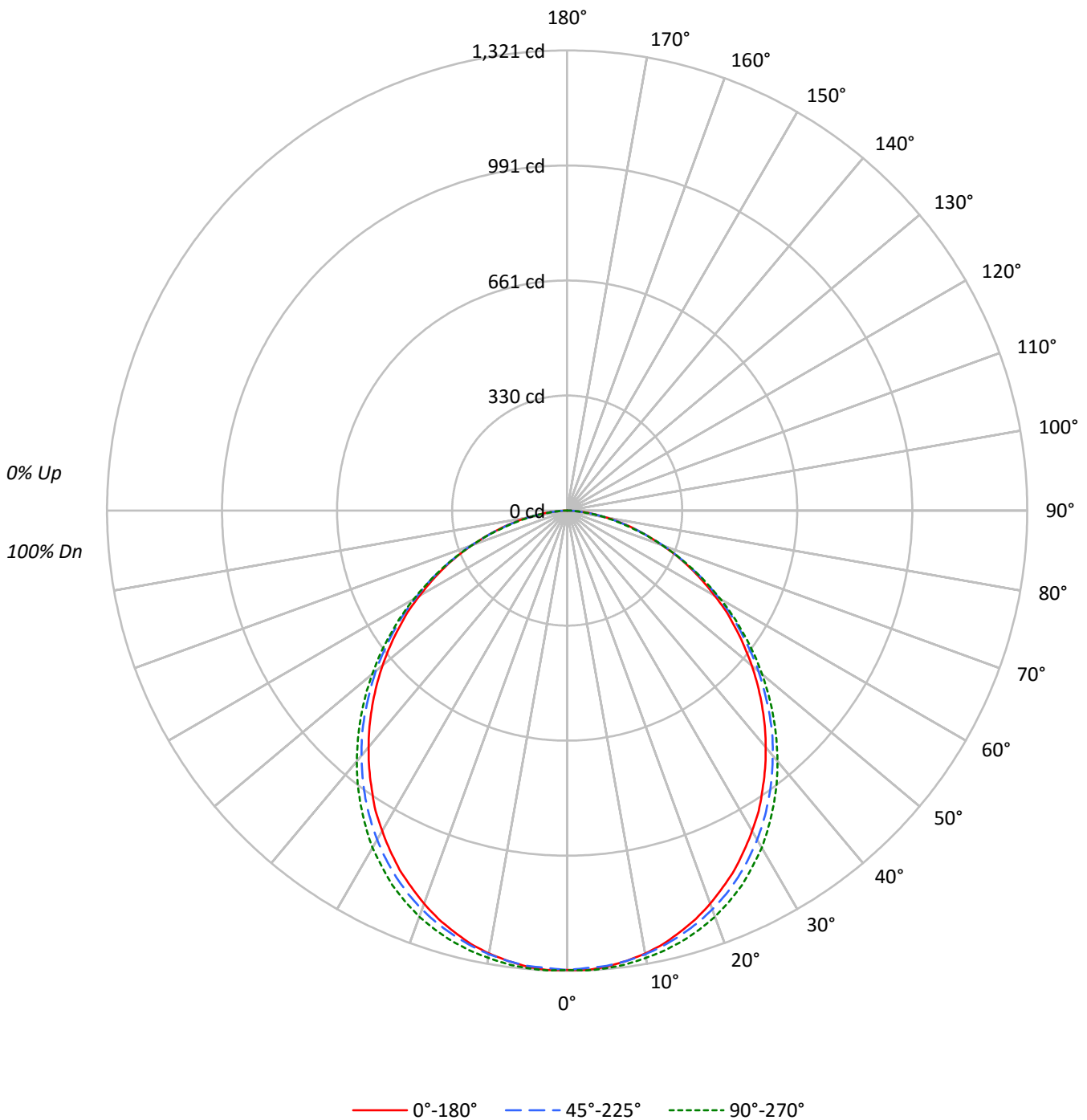
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1775 | 1775 | 1775 |
| 5° | 1775 | 1772 | 1781 |
| 10° | 1764 | 1767 | 1781 |
| 15° | 1745 | 1757 | 1782 |
| 20° | 1720 | 1745 | 1776 |
| 25° | 1689 | 1724 | 1762 |
| 30° | 1650 | 1695 | 1737 |
| 35° | 1606 | 1658 | 1696 |
| 40° | 1557 | 1613 | 1650 |
| 45° | 1505 | 1560 | 1594 |
| 50° | 1448 | 1501 | 1528 |
| 55° | 1387 | 1430 | 1453 |
| 60° | 1317 | 1352 | 1368 |
| 65° | 1242 | 1261 | 1268 |
| 70° | 1140 | 1153 | 1140 |
| 75° | 1026 | 1020 | 990 |
| 80° | 869 | 860 | 833 |
| 85° | 650 | 631 | 559 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.9 | 3.6 |
| 10°-20° | 356.7 | 10.3 |
| 20°-30° | 534.9 | 15.4 |
| 30°-40° | 629.9 | 18.2 |
| 40°-50° | 630.0 | 18.2 |
| 50°-60° | 543.6 | 15.7 |
| 60°-70° | 391.1 | 11.3 |
| 70°-80° | 207.5 | 6.0 |
| 80°-90° | 49.5 | 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° | 1016.5 | 29.3 |
| 0°-40° | 1646.4 | 47.5 |
| 0°-60° | 2819.9 | 81.3 |
| 0°-90° | 3468.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3468.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1319 | 1319 | 1319 | 1319 | 1319 | |
| 5° | 1314 | 1313 | 1312 | 1317 | 1319 | 125 |
| 15° | 1252 | 1256 | 1262 | 1275 | 1279 | 353 |
| 25° | 1138 | 1145 | 1161 | 1181 | 1187 | 523 |
| 35° | 978 | 990 | 1009 | 1027 | 1033 | 612 |
| 45° | 791 | 801 | 820 | 834 | 838 | 610 |
| 55° | 591 | 597 | 610 | 620 | 619 | 529 |
| 65° | 390 | 391 | 396 | 398 | 398 | 386 |
| 75° | 197 | 195 | 196 | 192 | 190 | 210 |
| 85° | 42 | 42 | 41 | 37 | 36 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1318.9 | 1318.9 | 1318.9 | 1318.9 | 1318.9 |
| 2.5° | 1320.1 | 1317.8 | 1314.3 | 1318.9 | 1321.3 |
| 5° | 1314.3 | 1313.1 | 1311.9 | 1316.6 | 1318.9 |
| 7.5° | 1303.8 | 1304.9 | 1303.8 | 1310.8 | 1313.1 |
| 10° | 1290.9 | 1292.1 | 1293.2 | 1301.4 | 1303.8 |
| 12.5° | 1274.6 | 1275.7 | 1279.2 | 1289.7 | 1293.2 |
| 15° | 1252.4 | 1255.9 | 1261.7 | 1274.6 | 1279.2 |
| 17.5° | 1229.0 | 1233.7 | 1241.8 | 1257.0 | 1261.7 |
| 20° | 1201.0 | 1206.8 | 1218.5 | 1234.8 | 1240.7 |
| 22.5° | 1169.4 | 1175.3 | 1191.6 | 1209.1 | 1215.0 |
| 25° | 1137.9 | 1144.9 | 1161.2 | 1181.1 | 1186.9 |
| 27.5° | 1100.5 | 1109.8 | 1127.4 | 1147.2 | 1151.9 |
| 30° | 1061.9 | 1070.1 | 1091.1 | 1109.8 | 1118.0 |
| 32.5° | 1023.4 | 1031.6 | 1051.4 | 1070.1 | 1076.0 |
| 35° | 977.8 | 989.5 | 1009.4 | 1026.9 | 1032.7 |
| 37.5° | 933.4 | 943.9 | 965.0 | 982.5 | 988.3 |
| 40° | 886.7 | 896.0 | 918.2 | 934.6 | 939.3 |
| 42.5° | 840.0 | 849.3 | 871.5 | 884.4 | 889.0 |
| 45° | 790.9 | 801.4 | 820.1 | 834.1 | 837.6 |
| 47.5° | 741.8 | 750.0 | 767.5 | 780.4 | 785.1 |
| 50° | 691.6 | 699.8 | 717.3 | 727.8 | 730.2 |
| 52.5° | 641.4 | 647.2 | 663.6 | 672.9 | 676.4 |
| 55° | 591.1 | 597.0 | 609.8 | 620.3 | 619.2 |
| 57.5° | 543.2 | 545.6 | 558.4 | 565.4 | 565.4 |
| 60° | 489.5 | 491.8 | 502.3 | 507.0 | 508.2 |
| 62.5° | 439.3 | 442.8 | 450.9 | 452.1 | 452.1 |
| 65° | 390.2 | 391.4 | 396.0 | 398.4 | 398.4 |
| 67.5° | 341.1 | 340.0 | 344.6 | 344.6 | 343.5 |
| 70° | 289.7 | 292.1 | 293.2 | 290.9 | 289.7 |
| 72.5° | 243.0 | 241.8 | 241.8 | 240.7 | 240.7 |
| 75° | 197.4 | 195.1 | 196.3 | 191.6 | 190.4 |
| 77.5° | 155.4 | 151.9 | 150.7 | 148.4 | 146.0 |
| 80° | 112.2 | 112.2 | 111.0 | 108.6 | 107.5 |
| 82.5° | 74.8 | 74.8 | 73.6 | 71.3 | 68.9 |
| 85° | 42.1 | 42.1 | 40.9 | 37.4 | 36.2 |
| 87.5° | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)