

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: P296920

Luminaire Tested: **D3X-WD-42L92765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-42L92765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

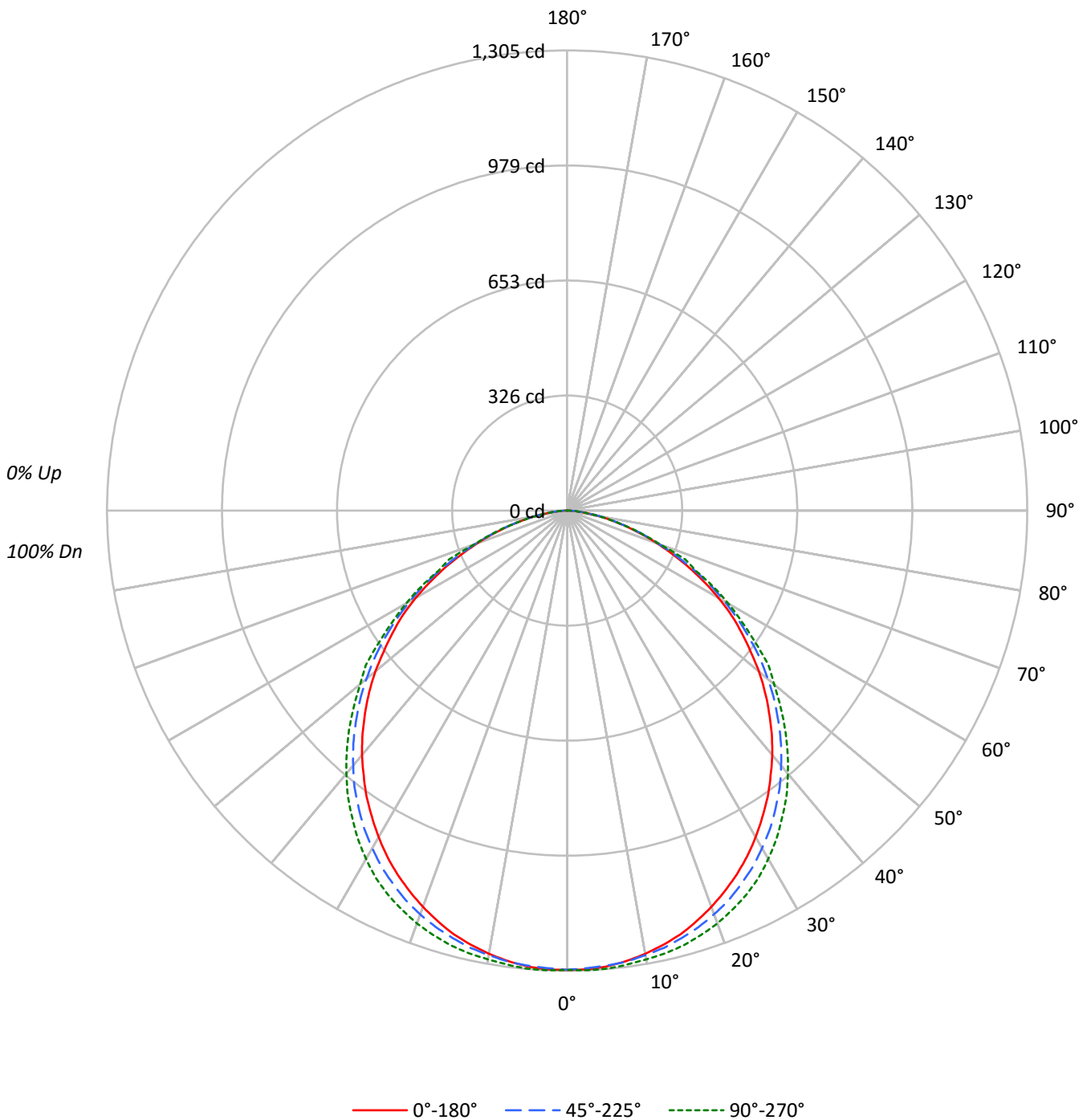
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 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 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 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° | 1752 | 1752 | 1752 |
| 5° | 1752 | 1749 | 1761 |
| 10° | 1744 | 1749 | 1766 |
| 15° | 1732 | 1748 | 1778 |
| 20° | 1712 | 1745 | 1784 |
| 25° | 1690 | 1735 | 1785 |
| 30° | 1661 | 1718 | 1772 |
| 35° | 1629 | 1693 | 1746 |
| 40° | 1590 | 1658 | 1711 |
| 45° | 1541 | 1613 | 1663 |
| 50° | 1485 | 1556 | 1603 |
| 55° | 1418 | 1482 | 1526 |
| 60° | 1336 | 1386 | 1420 |
| 65° | 1213 | 1253 | 1277 |
| 70° | 1065 | 1090 | 1105 |
| 75° | 899 | 912 | 919 |
| 80° | 719 | 728 | 709 |
| 85° | 483 | 503 | 483 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.4 | 3.5 |
| 10°-20° | 355.0 | 10.2 |
| 20°-30° | 538.6 | 15.4 |
| 30°-40° | 643.0 | 18.4 |
| 40°-50° | 651.0 | 18.6 |
| 50°-60° | 562.7 | 16.1 |
| 60°-70° | 390.0 | 11.2 |
| 70°-80° | 188.7 | 5.4 |
| 80°-90° | 41.5 | 1.2 |
| 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° | 1017.0 | 29.1 |
| 0°-40° | 1660.1 | 47.5 |
| 0°-60° | 2873.8 | 82.2 |
| 0°-90° | 3494.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3494.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1302 | 1302 | 1302 | 1302 | 1302 | |
| 5° | 1298 | 1296 | 1295 | 1301 | 1304 | 123 |
| 15° | 1244 | 1246 | 1255 | 1270 | 1276 | 350 |
| 25° | 1138 | 1146 | 1168 | 1192 | 1202 | 524 |
| 35° | 992 | 1000 | 1030 | 1057 | 1063 | 619 |
| 45° | 810 | 821 | 848 | 869 | 874 | 625 |
| 55° | 604 | 610 | 632 | 658 | 651 | 540 |
| 65° | 381 | 385 | 394 | 400 | 401 | 377 |
| 75° | 173 | 174 | 176 | 174 | 177 | 186 |
| 85° | 31 | 34 | 33 | 31 | 31 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1302.5 | 1302.5 | 1302.5 | 1302.5 | 1302.5 |
| 2.5° | 1302.5 | 1301.3 | 1298.8 | 1302.5 | 1305.0 |
| 5° | 1297.5 | 1296.3 | 1295.0 | 1301.3 | 1303.8 |
| 7.5° | 1288.7 | 1288.7 | 1290.0 | 1296.3 | 1298.8 |
| 10° | 1276.2 | 1277.5 | 1280.0 | 1290.0 | 1292.5 |
| 12.5° | 1261.2 | 1263.7 | 1269.9 | 1281.2 | 1286.2 |
| 15° | 1243.6 | 1246.1 | 1254.9 | 1269.9 | 1276.2 |
| 17.5° | 1221.1 | 1226.1 | 1238.6 | 1256.2 | 1262.4 |
| 20° | 1196.0 | 1202.2 | 1218.5 | 1238.6 | 1246.1 |
| 22.5° | 1168.4 | 1174.7 | 1196.0 | 1217.3 | 1224.8 |
| 25° | 1138.3 | 1145.8 | 1168.4 | 1192.2 | 1202.2 |
| 27.5° | 1105.7 | 1114.5 | 1139.6 | 1164.6 | 1174.7 |
| 30° | 1069.4 | 1079.4 | 1105.7 | 1132.0 | 1140.8 |
| 32.5° | 1030.5 | 1040.5 | 1070.6 | 1095.7 | 1104.5 |
| 35° | 991.6 | 1000.4 | 1030.5 | 1056.8 | 1063.1 |
| 37.5° | 947.8 | 957.8 | 990.4 | 1012.9 | 1021.7 |
| 40° | 905.1 | 915.2 | 944.0 | 966.6 | 974.1 |
| 42.5° | 858.7 | 868.8 | 897.6 | 918.9 | 925.2 |
| 45° | 809.9 | 821.1 | 847.5 | 868.8 | 873.8 |
| 47.5° | 761.0 | 769.7 | 797.3 | 816.1 | 819.9 |
| 50° | 709.6 | 718.3 | 743.4 | 762.2 | 766.0 |
| 52.5° | 655.7 | 669.4 | 689.5 | 703.3 | 719.6 |
| 55° | 604.3 | 610.5 | 631.8 | 658.2 | 650.6 |
| 57.5° | 552.9 | 556.6 | 574.2 | 585.5 | 588.0 |
| 60° | 496.4 | 501.5 | 515.2 | 521.5 | 527.8 |
| 62.5° | 437.5 | 441.3 | 457.6 | 463.8 | 466.4 |
| 65° | 381.1 | 384.9 | 393.6 | 399.9 | 401.2 |
| 67.5° | 323.4 | 327.2 | 334.7 | 339.7 | 362.3 |
| 70° | 270.8 | 273.3 | 277.1 | 287.1 | 280.8 |
| 72.5° | 220.6 | 221.9 | 225.7 | 225.7 | 226.9 |
| 75° | 173.0 | 174.3 | 175.5 | 174.3 | 176.8 |
| 77.5° | 129.1 | 131.6 | 132.9 | 131.6 | 130.4 |
| 80° | 92.8 | 95.3 | 94.0 | 91.5 | 91.5 |
| 82.5° | 60.2 | 61.4 | 60.2 | 58.9 | 58.9 |
| 85° | 31.3 | 33.8 | 32.6 | 31.3 | 31.3 |
| 87.5° | 11.3 | 12.5 | 13.8 | 15.0 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)