

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: P297962

Luminaire Tested: **D3X-WO-40L92765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297962
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-40L92765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 87.9 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

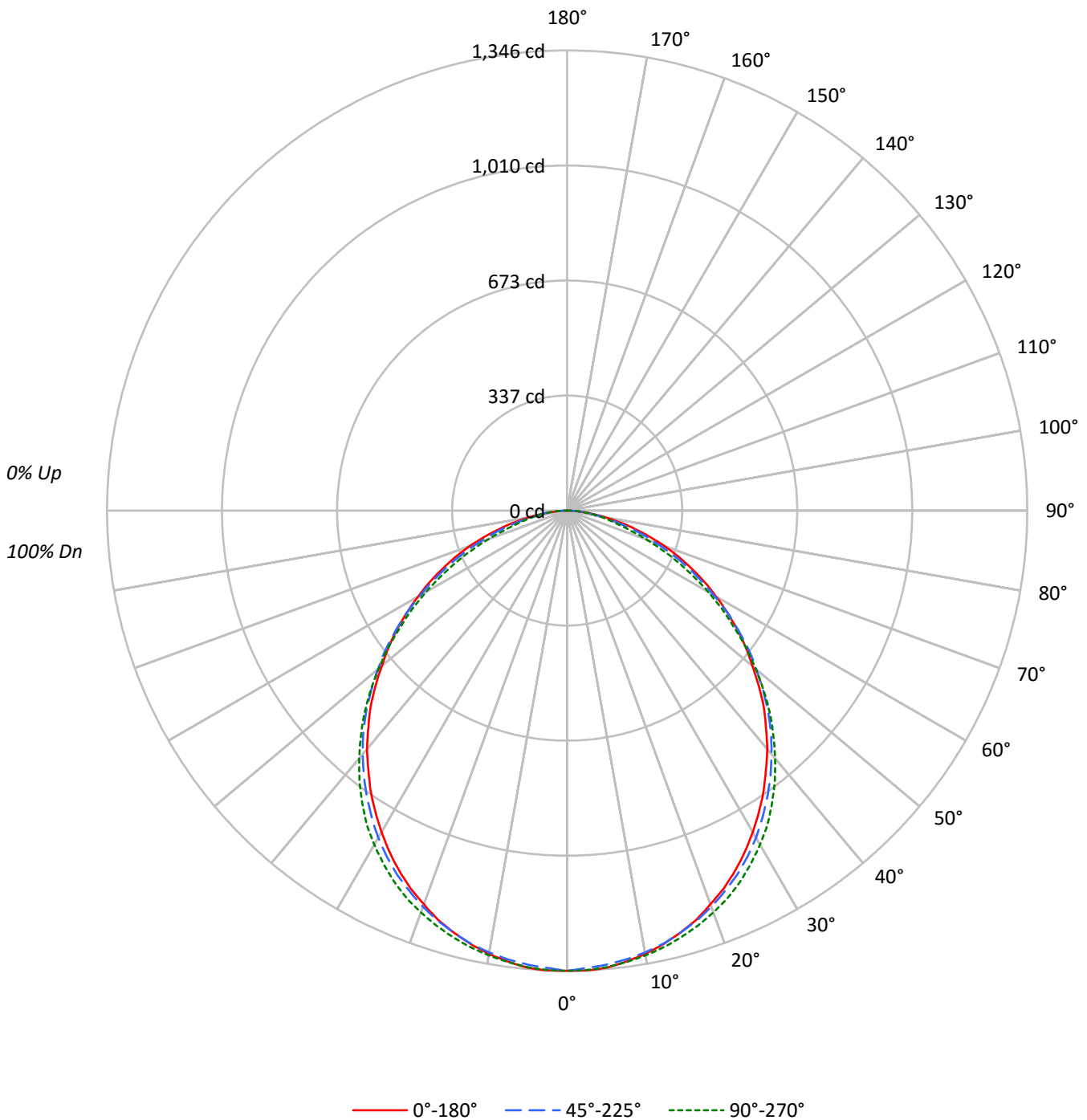
Input Watts (W): 39.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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CATALOG NUMBER: D3X-WO-40L92765-LD5-UNV-14-T1-W2A-3500K

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 | 30 | 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° | 3623 | 3623 | 3623 |
| 5° | 3625 | 3601 | 3621 |
| 10° | 3598 | 3586 | 3610 |
| 15° | 3562 | 3562 | 3599 |
| 20° | 3510 | 3531 | 3581 |
| 25° | 3451 | 3491 | 3556 |
| 30° | 3374 | 3434 | 3507 |
| 35° | 3292 | 3354 | 3432 |
| 40° | 3199 | 3267 | 3323 |
| 45° | 3097 | 3164 | 3192 |
| 50° | 2963 | 3024 | 3012 |
| 55° | 2851 | 2872 | 2796 |
| 60° | 2708 | 2668 | 2566 |
| 65° | 2558 | 2455 | 2286 |
| 70° | 2373 | 2176 | 1933 |
| 75° | 2111 | 1866 | 1591 |
| 80° | 1756 | 1528 | 1481 |
| 85° | 1272 | 1362 | 1362 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.1 | 3.7 |
| 10°-20° | 361.9 | 10.4 |
| 20°-30° | 542.4 | 15.6 |
| 30°-40° | 639.1 | 18.4 |
| 40°-50° | 637.4 | 18.4 |
| 50°-60° | 542.2 | 15.6 |
| 60°-70° | 378.4 | 10.9 |
| 70°-80° | 192.3 | 5.5 |
| 80°-90° | 50.2 | 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° | 1031.4 | 29.7 |
| 0°-40° | 1670.5 | 48.1 |
| 0°-60° | 2850.1 | 82.1 |
| 0°-90° | 3471.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3471.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1346 | 1346 | 1346 | 1346 | 1346 | |
| 5° | 1342 | 1339 | 1333 | 1340 | 1340 | 127 |
| 15° | 1279 | 1279 | 1279 | 1290 | 1292 | 360 |
| 25° | 1162 | 1164 | 1176 | 1193 | 1198 | 535 |
| 35° | 1002 | 1004 | 1021 | 1042 | 1045 | 626 |
| 45° | 814 | 817 | 831 | 837 | 839 | 626 |
| 55° | 608 | 608 | 612 | 603 | 596 | 543 |
| 65° | 402 | 396 | 386 | 365 | 359 | 398 |
| 75° | 203 | 196 | 180 | 157 | 153 | 216 |
| 85° | 41 | 43 | 44 | 44 | 44 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297962

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1346.3 | 1346.3 | 1346.3 | 1346.3 | 1346.3 |
| 2.5° | 1346.3 | 1344.8 | 1338.9 | 1344.8 | 1344.8 |
| 5° | 1341.9 | 1338.9 | 1333.0 | 1340.4 | 1340.4 |
| 7.5° | 1330.1 | 1328.6 | 1324.2 | 1331.6 | 1331.6 |
| 10° | 1316.9 | 1315.4 | 1312.4 | 1321.3 | 1321.3 |
| 12.5° | 1299.2 | 1299.2 | 1297.7 | 1306.6 | 1308.0 |
| 15° | 1278.6 | 1278.6 | 1278.6 | 1290.4 | 1291.8 |
| 17.5° | 1255.1 | 1253.6 | 1258.0 | 1271.2 | 1272.7 |
| 20° | 1225.6 | 1227.1 | 1233.0 | 1247.7 | 1250.6 |
| 22.5° | 1196.2 | 1197.7 | 1205.0 | 1222.7 | 1227.1 |
| 25° | 1162.4 | 1163.8 | 1175.6 | 1193.3 | 1197.7 |
| 27.5° | 1125.6 | 1128.5 | 1141.8 | 1160.9 | 1163.8 |
| 30° | 1085.9 | 1088.8 | 1105.0 | 1124.1 | 1128.5 |
| 32.5° | 1044.7 | 1049.1 | 1063.8 | 1084.4 | 1090.3 |
| 35° | 1002.0 | 1003.5 | 1021.1 | 1041.7 | 1044.7 |
| 37.5° | 954.9 | 959.3 | 977.0 | 994.6 | 997.6 |
| 40° | 910.8 | 913.7 | 929.9 | 944.6 | 946.1 |
| 42.5° | 860.7 | 865.2 | 882.8 | 893.1 | 893.1 |
| 45° | 813.7 | 816.6 | 831.3 | 837.2 | 838.7 |
| 47.5° | 760.7 | 763.6 | 776.9 | 779.8 | 779.8 |
| 50° | 707.7 | 715.1 | 722.4 | 722.4 | 719.5 |
| 52.5° | 659.2 | 660.6 | 669.5 | 663.6 | 660.6 |
| 55° | 607.7 | 607.7 | 612.1 | 603.3 | 595.9 |
| 57.5° | 556.2 | 556.2 | 556.2 | 544.4 | 538.5 |
| 60° | 503.2 | 501.7 | 495.8 | 481.1 | 476.7 |
| 62.5° | 453.2 | 448.8 | 439.9 | 425.2 | 416.4 |
| 65° | 401.7 | 395.8 | 385.5 | 364.9 | 359.0 |
| 67.5° | 353.1 | 342.8 | 331.1 | 311.9 | 301.6 |
| 70° | 301.6 | 292.8 | 276.6 | 254.5 | 245.7 |
| 72.5° | 251.6 | 242.8 | 229.5 | 207.5 | 194.2 |
| 75° | 203.0 | 195.7 | 179.5 | 157.4 | 153.0 |
| 77.5° | 156.0 | 151.5 | 135.4 | 125.1 | 123.6 |
| 80° | 113.3 | 111.8 | 98.6 | 95.6 | 95.6 |
| 82.5° | 75.0 | 73.6 | 69.2 | 69.2 | 67.7 |
| 85° | 41.2 | 42.7 | 44.1 | 44.1 | 44.1 |
| 87.5° | 14.7 | 17.7 | 20.6 | 20.6 | 20.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)