

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: P297486

Luminaire Tested: **D3X-WO-45L92765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297486
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-45L92765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

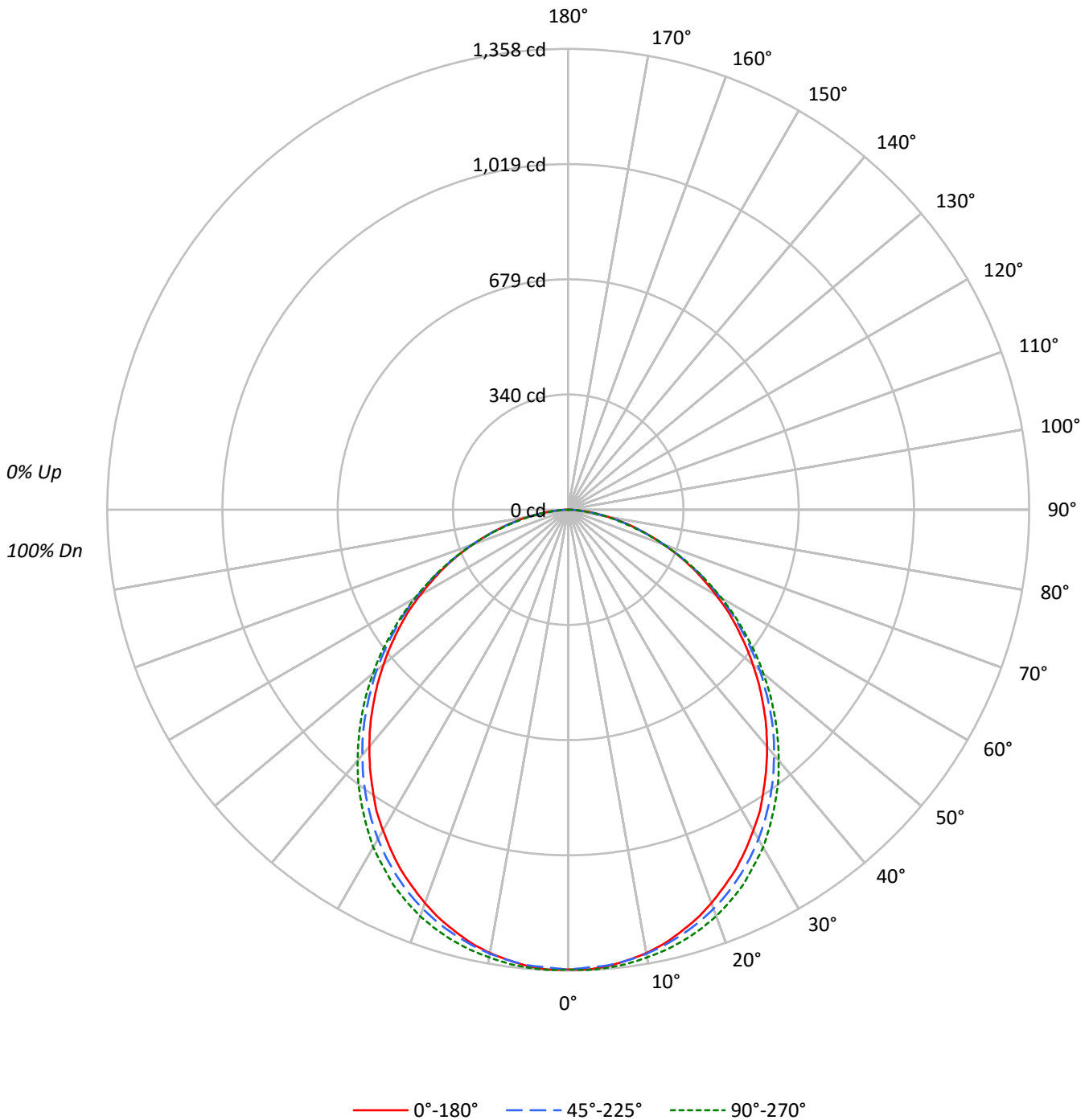
Input Watts (W): 31.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297486

CATALOG NUMBER: D3X-WO-45L92765-LD5-UNV-24-T1-W2A-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P297486

CATALOG NUMBER: D3X-WO-45L92765-LD5-UNV-24-T1-W2A-2700K

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° | 1823 | 1823 | 1823 |
| 5° | 1824 | 1821 | 1830 |
| 10° | 1812 | 1815 | 1830 |
| 15° | 1792 | 1806 | 1831 |
| 20° | 1767 | 1793 | 1825 |
| 25° | 1735 | 1771 | 1810 |
| 30° | 1695 | 1742 | 1785 |
| 35° | 1650 | 1703 | 1743 |
| 40° | 1600 | 1657 | 1695 |
| 45° | 1546 | 1603 | 1638 |
| 50° | 1487 | 1542 | 1570 |
| 55° | 1425 | 1470 | 1492 |
| 60° | 1353 | 1389 | 1405 |
| 65° | 1276 | 1295 | 1303 |
| 70° | 1171 | 1185 | 1171 |
| 75° | 1054 | 1048 | 1017 |
| 80° | 893 | 883 | 855 |
| 85° | 667 | 648 | 574 |



TEST NUMBER: P297486

CATALOG NUMBER: D3X-WO-45L92765-LD5-UNV-24-T1-W2A-2700K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.3 | 3.6 |
| 10°-20° | 366.5 | 10.3 |
| 20°-30° | 549.5 | 15.4 |
| 30°-40° | 647.1 | 18.2 |
| 40°-50° | 647.3 | 18.2 |
| 50°-60° | 558.4 | 15.7 |
| 60°-70° | 401.9 | 11.3 |
| 70°-80° | 213.1 | 6.0 |
| 80°-90° | 50.8 | 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° | 1044.3 | 29.3 |
| 0°-40° | 1691.5 | 47.5 |
| 0°-60° | 2897.2 | 81.3 |
| 0°-90° | 3563.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3563.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1355 | 1355 | 1355 | 1355 | 1355 | |
| 5° | 1350 | 1349 | 1348 | 1353 | 1355 | 128 |
| 15° | 1287 | 1290 | 1296 | 1310 | 1314 | 363 |
| 25° | 1169 | 1176 | 1193 | 1213 | 1219 | 538 |
| 35° | 1005 | 1017 | 1037 | 1055 | 1061 | 628 |
| 45° | 813 | 823 | 843 | 857 | 861 | 627 |
| 55° | 607 | 613 | 626 | 637 | 636 | 543 |
| 65° | 401 | 402 | 407 | 409 | 409 | 397 |
| 75° | 203 | 200 | 202 | 197 | 196 | 216 |
| 85° | 43 | 43 | 42 | 38 | 37 | 52 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297486

CATALOG NUMBER: D3X-WO-45L92765-LD5-UNV-24-T1-W2A-2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1355.1 | 1355.1 | 1355.1 | 1355.1 | 1355.1 |
| 2.5° | 1356.3 | 1353.9 | 1350.3 | 1355.1 | 1357.5 |
| 5° | 1350.3 | 1349.1 | 1347.9 | 1352.7 | 1355.1 |
| 7.5° | 1339.5 | 1340.7 | 1339.5 | 1346.7 | 1349.1 |
| 10° | 1326.3 | 1327.5 | 1328.7 | 1337.1 | 1339.5 |
| 12.5° | 1309.5 | 1310.7 | 1314.3 | 1325.1 | 1328.7 |
| 15° | 1286.7 | 1290.3 | 1296.3 | 1309.5 | 1314.3 |
| 17.5° | 1262.7 | 1267.5 | 1275.9 | 1291.5 | 1296.3 |
| 20° | 1233.9 | 1239.9 | 1251.9 | 1268.7 | 1274.7 |
| 22.5° | 1201.4 | 1207.4 | 1224.2 | 1242.3 | 1248.3 |
| 25° | 1169.0 | 1176.2 | 1193.0 | 1213.4 | 1219.4 |
| 27.5° | 1130.6 | 1140.2 | 1158.2 | 1178.6 | 1183.4 |
| 30° | 1091.0 | 1099.4 | 1121.0 | 1140.2 | 1148.6 |
| 32.5° | 1051.4 | 1059.8 | 1080.2 | 1099.4 | 1105.4 |
| 35° | 1004.6 | 1016.6 | 1037.0 | 1055.0 | 1061.0 |
| 37.5° | 959.0 | 969.8 | 991.4 | 1009.4 | 1015.4 |
| 40° | 911.0 | 920.6 | 943.4 | 960.2 | 965.0 |
| 42.5° | 863.0 | 872.6 | 895.4 | 908.6 | 913.4 |
| 45° | 812.6 | 823.4 | 842.6 | 857.0 | 860.6 |
| 47.5° | 762.2 | 770.6 | 788.6 | 801.8 | 806.6 |
| 50° | 710.5 | 718.9 | 736.9 | 747.8 | 750.2 |
| 52.5° | 658.9 | 664.9 | 681.7 | 691.3 | 694.9 |
| 55° | 607.3 | 613.3 | 626.5 | 637.3 | 636.1 |
| 57.5° | 558.1 | 560.5 | 573.7 | 580.9 | 580.9 |
| 60° | 502.9 | 505.3 | 516.1 | 520.9 | 522.1 |
| 62.5° | 451.3 | 454.9 | 463.3 | 464.5 | 464.5 |
| 65° | 400.9 | 402.1 | 406.9 | 409.3 | 409.3 |
| 67.5° | 350.5 | 349.3 | 354.1 | 354.1 | 352.9 |
| 70° | 297.7 | 300.1 | 301.3 | 298.9 | 297.7 |
| 72.5° | 249.7 | 248.5 | 248.5 | 247.3 | 247.3 |
| 75° | 202.8 | 200.4 | 201.6 | 196.8 | 195.6 |
| 77.5° | 159.6 | 156.0 | 154.8 | 152.4 | 150.0 |
| 80° | 115.2 | 115.2 | 114.0 | 111.6 | 110.4 |
| 82.5° | 76.8 | 76.8 | 75.6 | 73.2 | 70.8 |
| 85° | 43.2 | 43.2 | 42.0 | 38.4 | 37.2 |
| 87.5° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)