

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: P298215

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4107.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

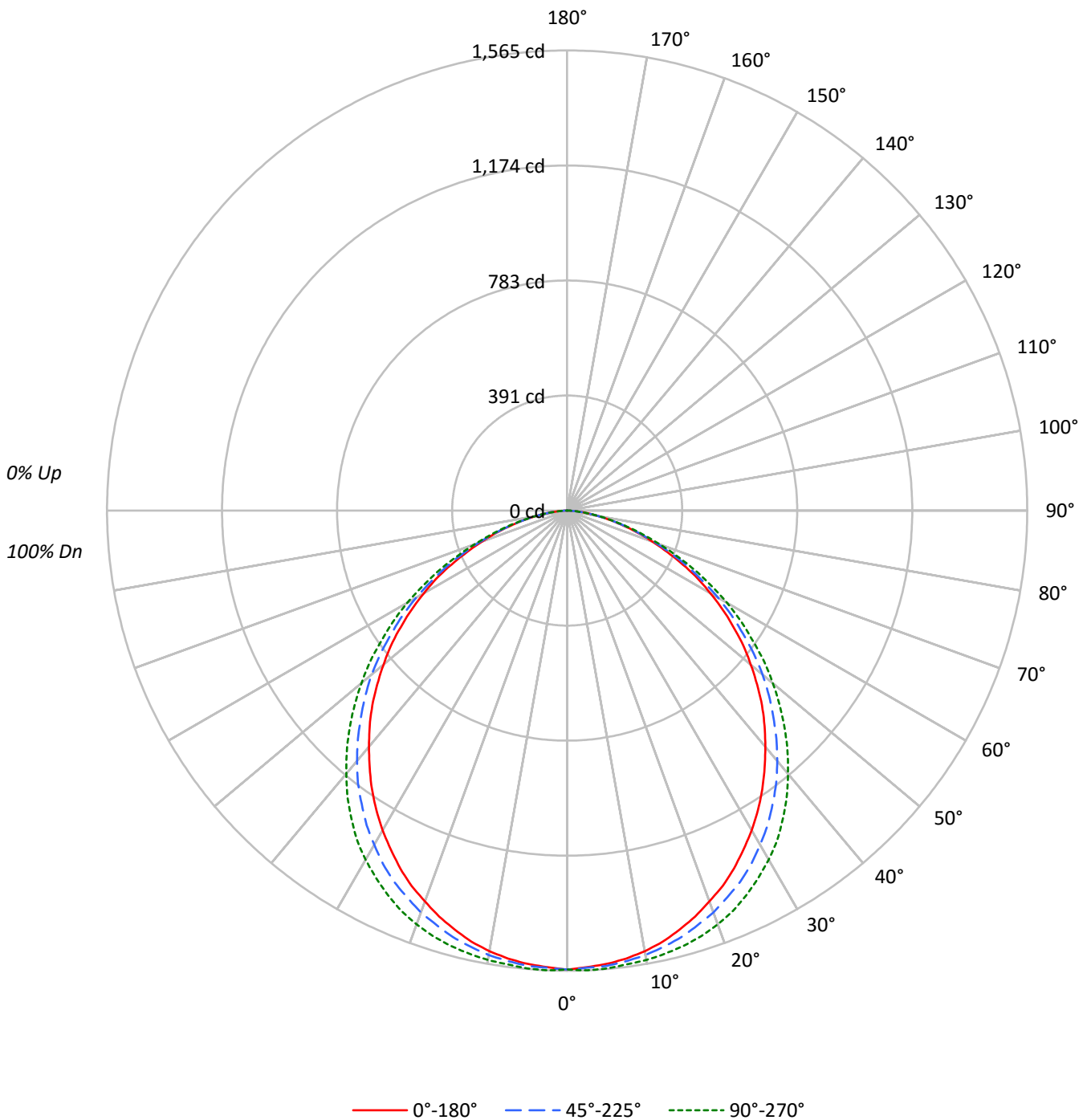
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 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 | 47 | 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 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4200 | 4200 | 4200 |
| 5° | 4181 | 4198 | 4222 |
| 10° | 4157 | 4193 | 4241 |
| 15° | 4111 | 4184 | 4269 |
| 20° | 4051 | 4164 | 4288 |
| 25° | 3987 | 4136 | 4285 |
| 30° | 3901 | 4078 | 4260 |
| 35° | 3802 | 4003 | 4204 |
| 40° | 3683 | 3905 | 4104 |
| 45° | 3567 | 3774 | 3982 |
| 50° | 3413 | 3632 | 3823 |
| 55° | 3242 | 3426 | 3610 |
| 60° | 3027 | 3191 | 3379 |
| 65° | 2762 | 2887 | 3054 |
| 70° | 2419 | 2521 | 2624 |
| 75° | 2063 | 2108 | 2198 |
| 80° | 1655 | 1689 | 1723 |
| 85° | 1210 | 1145 | 1078 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.7 | 3.6 |
| 10°-20° | 424.0 | 10.3 |
| 20°-30° | 641.0 | 15.6 |
| 30°-40° | 761.4 | 18.5 |
| 40°-50° | 764.4 | 18.6 |
| 50°-60° | 652.9 | 15.9 |
| 60°-70° | 449.8 | 11.0 |
| 70°-80° | 218.1 | 5.3 |
| 80°-90° | 47.7 | 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° | 1212.7 | 29.5 |
| 0°-40° | 1974.1 | 48.1 |
| 0°-60° | 3391.4 | 82.6 |
| 0°-90° | 4107.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4107.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1561 | 1561 | 1561 | 1561 | 1561 | |
| 5° | 1548 | 1548 | 1554 | 1559 | 1563 | 147 |
| 15° | 1476 | 1482 | 1502 | 1522 | 1532 | 416 |
| 25° | 1343 | 1354 | 1393 | 1430 | 1443 | 618 |
| 35° | 1158 | 1175 | 1218 | 1264 | 1280 | 723 |
| 45° | 937 | 950 | 992 | 1033 | 1046 | 722 |
| 55° | 691 | 702 | 730 | 761 | 770 | 618 |
| 65° | 434 | 434 | 453 | 473 | 480 | 430 |
| 75° | 198 | 194 | 203 | 207 | 211 | 213 |
| 85° | 39 | 39 | 37 | 35 | 35 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1560.8 | 1560.8 | 1560.8 | 1560.8 | 1560.8 |
| 2.5° | 1554.2 | 1554.2 | 1556.4 | 1562.9 | 1565.1 |
| 5° | 1547.7 | 1547.7 | 1554.2 | 1558.6 | 1562.9 |
| 7.5° | 1536.8 | 1539.0 | 1545.5 | 1554.2 | 1556.4 |
| 10° | 1521.5 | 1523.7 | 1534.6 | 1545.5 | 1552.0 |
| 12.5° | 1501.9 | 1506.3 | 1519.3 | 1536.8 | 1543.3 |
| 15° | 1475.7 | 1482.3 | 1501.9 | 1521.5 | 1532.4 |
| 17.5° | 1447.4 | 1456.1 | 1477.9 | 1506.3 | 1517.2 |
| 20° | 1414.7 | 1425.6 | 1453.9 | 1484.5 | 1497.5 |
| 22.5° | 1382.0 | 1390.7 | 1423.4 | 1458.3 | 1473.6 |
| 25° | 1342.8 | 1353.7 | 1392.9 | 1430.0 | 1443.0 |
| 27.5° | 1299.2 | 1314.4 | 1355.9 | 1395.1 | 1408.2 |
| 30° | 1255.6 | 1268.7 | 1312.3 | 1355.9 | 1371.1 |
| 32.5° | 1207.6 | 1220.7 | 1268.7 | 1312.3 | 1329.7 |
| 35° | 1157.5 | 1174.9 | 1218.5 | 1264.3 | 1279.6 |
| 37.5° | 1103.0 | 1122.6 | 1168.4 | 1207.6 | 1227.2 |
| 40° | 1048.5 | 1065.9 | 1111.7 | 1153.1 | 1168.4 |
| 42.5° | 994.0 | 1009.3 | 1052.9 | 1096.5 | 1109.5 |
| 45° | 937.3 | 950.4 | 991.8 | 1033.2 | 1046.3 |
| 47.5° | 876.3 | 891.5 | 930.8 | 965.7 | 980.9 |
| 50° | 815.3 | 830.5 | 867.6 | 900.3 | 913.3 |
| 52.5° | 756.4 | 765.1 | 800.0 | 830.5 | 845.8 |
| 55° | 691.0 | 701.9 | 730.2 | 760.8 | 769.5 |
| 57.5° | 627.8 | 634.3 | 662.7 | 688.8 | 701.9 |
| 60° | 562.4 | 566.8 | 592.9 | 612.5 | 627.8 |
| 62.5° | 501.4 | 501.4 | 521.0 | 542.8 | 551.5 |
| 65° | 433.8 | 433.8 | 453.4 | 473.0 | 479.6 |
| 67.5° | 368.4 | 372.7 | 385.8 | 401.1 | 405.4 |
| 70° | 307.4 | 307.4 | 320.4 | 331.3 | 333.5 |
| 72.5° | 252.9 | 250.7 | 257.2 | 265.9 | 270.3 |
| 75° | 198.4 | 194.0 | 202.7 | 207.1 | 211.4 |
| 77.5° | 150.4 | 148.2 | 152.6 | 156.9 | 156.9 |
| 80° | 106.8 | 104.6 | 109.0 | 109.0 | 111.2 |
| 82.5° | 69.8 | 71.9 | 71.9 | 69.8 | 67.6 |
| 85° | 39.2 | 39.2 | 37.1 | 34.9 | 34.9 |
| 87.5° | 13.1 | 13.1 | 13.1 | 15.3 | 15.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)