

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: P298164

Luminaire Tested: **D3X-WG-44L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298164  
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-44L83050-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: 4320.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

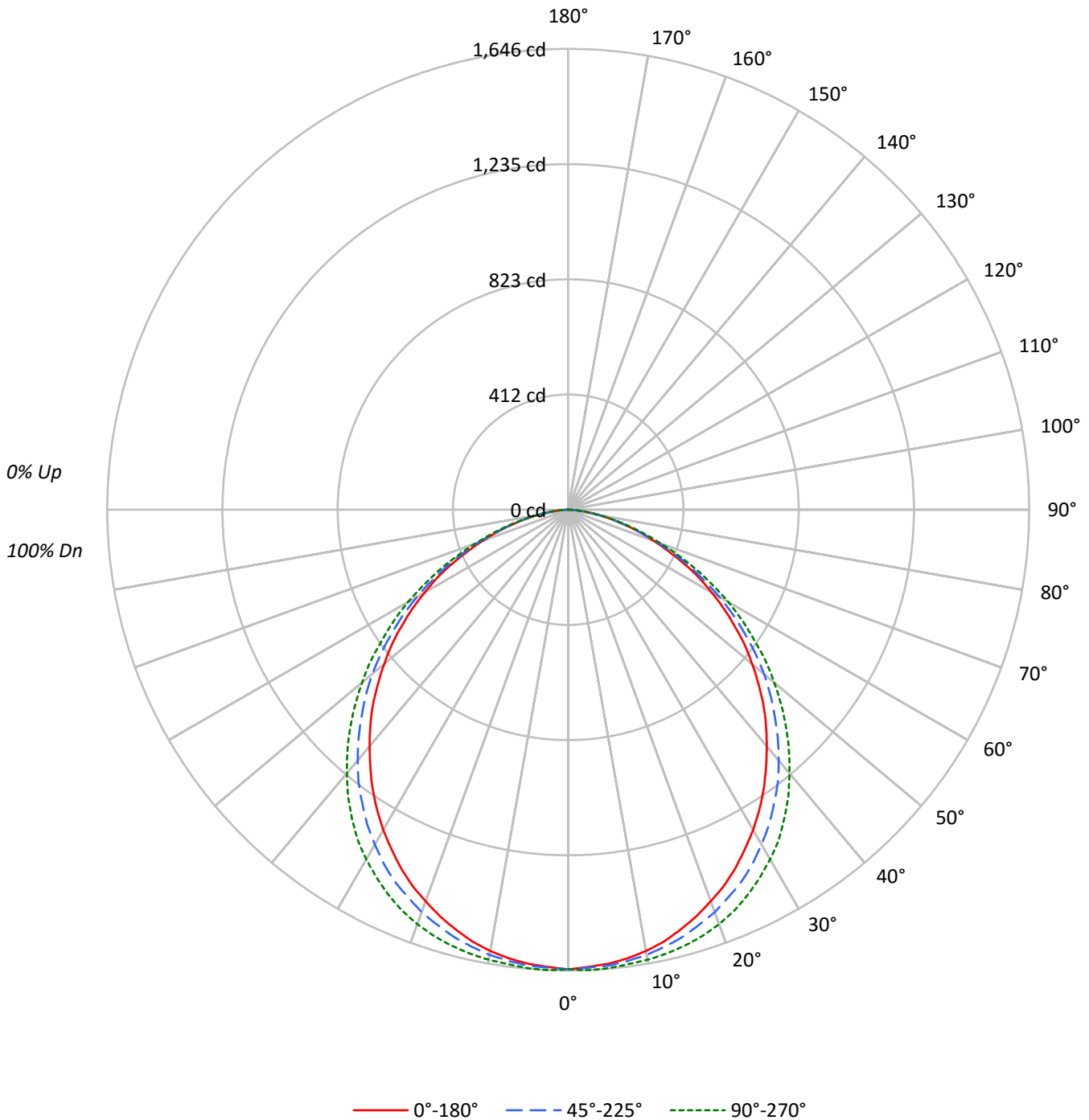
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 76  | 80  | 77  | 74  | 72  |    |    |    |    | 72  |   |  |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |    |    |    |    | 61  |   |  |   |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    |    |    |    | 52  |   |  |   |
| 5   | 77  | 65  | 56  | 49  | 75  | 64  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 52  | 48  | 45  |    |    |    |    | 45  |   |  |   |
| 6   | 71  | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |    |    |    |    | 35  |   |  |   |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |    |    | 32  |   |  |   |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 28  |    |    |    |    | 28  |   |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4418 | 4418 | 4418 |
| 5°  | 4397 | 4416 | 4441 |
| 10° | 4373 | 4411 | 4461 |
| 15° | 4325 | 4401 | 4491 |
| 20° | 4261 | 4379 | 4511 |
| 25° | 4194 | 4350 | 4507 |
| 30° | 4104 | 4289 | 4481 |
| 35° | 4000 | 4210 | 4421 |
| 40° | 3874 | 4108 | 4317 |
| 45° | 3752 | 3970 | 4188 |
| 50° | 3590 | 3821 | 4022 |
| 55° | 3410 | 3604 | 3797 |
| 60° | 3184 | 3357 | 3554 |
| 65° | 2905 | 3037 | 3212 |
| 70° | 2544 | 2652 | 2760 |
| 75° | 2170 | 2217 | 2312 |
| 80° | 1742 | 1776 | 1812 |
| 85° | 1275 | 1204 | 1133 |



TEST NUMBER: P298164

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.4  | 3.6       |
| 10°-20°   | 446.0  | 10.3      |
| 20°-30°   | 674.2  | 15.6      |
| 30°-40°   | 800.9  | 18.5      |
| 40°-50°   | 804.0  | 18.6      |
| 50°-60°   | 686.7  | 15.9      |
| 60°-70°   | 473.2  | 11.0      |
| 70°-80°   | 229.4  | 5.3       |
| 80°-90°   | 50.2   | 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°    | 1275.6 | 29.5      |
| 0°-40°    | 2076.5 | 48.1      |
| 0°-60°    | 3567.2 | 82.6      |
| 0°-90°    | 4320.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4320.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1642 | 1642  | 1642 | 1642  | 1642 |      |
| 5°  | 1628 | 1628  | 1635 | 1639  | 1644 | 155  |
| 15° | 1552 | 1559  | 1580 | 1600  | 1612 | 438  |
| 25° | 1412 | 1424  | 1465 | 1504  | 1518 | 650  |
| 35° | 1218 | 1236  | 1282 | 1330  | 1346 | 761  |
| 45° | 986  | 1000  | 1043 | 1087  | 1101 | 759  |
| 55° | 727  | 738   | 768  | 800   | 809  | 650  |
| 65° | 456  | 456   | 477  | 498   | 504  | 452  |
| 75° | 209  | 204   | 213  | 218   | 222  | 224  |
| 85° | 41   | 41    | 39   | 37    | 37   | 50   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1641.7 | 1641.7 | 1641.7 | 1641.7 | 1641.7 |
| 2.5°  | 1634.8 | 1634.8 | 1637.1 | 1644.0 | 1646.3 |
| 5°    | 1627.9 | 1627.9 | 1634.8 | 1639.4 | 1644.0 |
| 7.5°  | 1616.5 | 1618.8 | 1625.6 | 1634.8 | 1637.1 |
| 10°   | 1600.4 | 1602.7 | 1614.2 | 1625.6 | 1632.5 |
| 12.5° | 1579.8 | 1584.4 | 1598.1 | 1616.5 | 1623.4 |
| 15°   | 1552.3 | 1559.2 | 1579.8 | 1600.4 | 1611.9 |
| 17.5° | 1522.5 | 1531.6 | 1554.6 | 1584.4 | 1595.8 |
| 20°   | 1488.1 | 1499.5 | 1529.3 | 1561.4 | 1575.2 |
| 22.5° | 1453.7 | 1462.9 | 1497.2 | 1533.9 | 1550.0 |
| 25°   | 1412.4 | 1423.9 | 1465.1 | 1504.1 | 1517.9 |
| 27.5° | 1366.6 | 1382.6 | 1426.2 | 1467.4 | 1481.2 |
| 30°   | 1320.7 | 1334.5 | 1380.3 | 1426.2 | 1442.2 |
| 32.5° | 1270.3 | 1284.0 | 1334.5 | 1380.3 | 1398.7 |
| 35°   | 1217.5 | 1235.9 | 1281.7 | 1329.9 | 1345.9 |
| 37.5° | 1160.2 | 1180.8 | 1229.0 | 1270.3 | 1290.9 |
| 40°   | 1102.9 | 1121.2 | 1169.4 | 1212.9 | 1229.0 |
| 42.5° | 1045.6 | 1061.6 | 1107.5 | 1153.3 | 1167.1 |
| 45°   | 985.9  | 999.7  | 1043.3 | 1086.8 | 1100.6 |
| 47.5° | 921.7  | 937.8  | 979.1  | 1015.7 | 1031.8 |
| 50°   | 857.5  | 873.6  | 912.6  | 947.0  | 960.7  |
| 52.5° | 795.6  | 804.8  | 841.5  | 873.6  | 889.6  |
| 55°   | 726.8  | 738.3  | 768.1  | 800.2  | 809.4  |
| 57.5° | 660.3  | 667.2  | 697.0  | 724.5  | 738.3  |
| 60°   | 591.6  | 596.1  | 623.7  | 644.3  | 660.3  |
| 62.5° | 527.4  | 527.4  | 548.0  | 570.9  | 580.1  |
| 65°   | 456.3  | 456.3  | 476.9  | 497.6  | 504.4  |
| 67.5° | 387.5  | 392.1  | 405.8  | 421.9  | 426.5  |
| 70°   | 323.3  | 323.3  | 337.1  | 348.5  | 350.8  |
| 72.5° | 266.0  | 263.7  | 270.6  | 279.7  | 284.3  |
| 75°   | 208.7  | 204.1  | 213.2  | 217.8  | 222.4  |
| 77.5° | 158.2  | 155.9  | 160.5  | 165.1  | 165.1  |
| 80°   | 112.4  | 110.1  | 114.6  | 114.6  | 116.9  |
| 82.5° | 73.4   | 75.7   | 75.7   | 73.4   | 71.1   |
| 85°   | 41.3   | 41.3   | 39.0   | 36.7   | 36.7   |
| 87.5° | 13.8   | 13.8   | 13.8   | 16.1   | 16.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)