

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: P297225

Luminaire Tested: **D3X-WG-55L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L92765-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

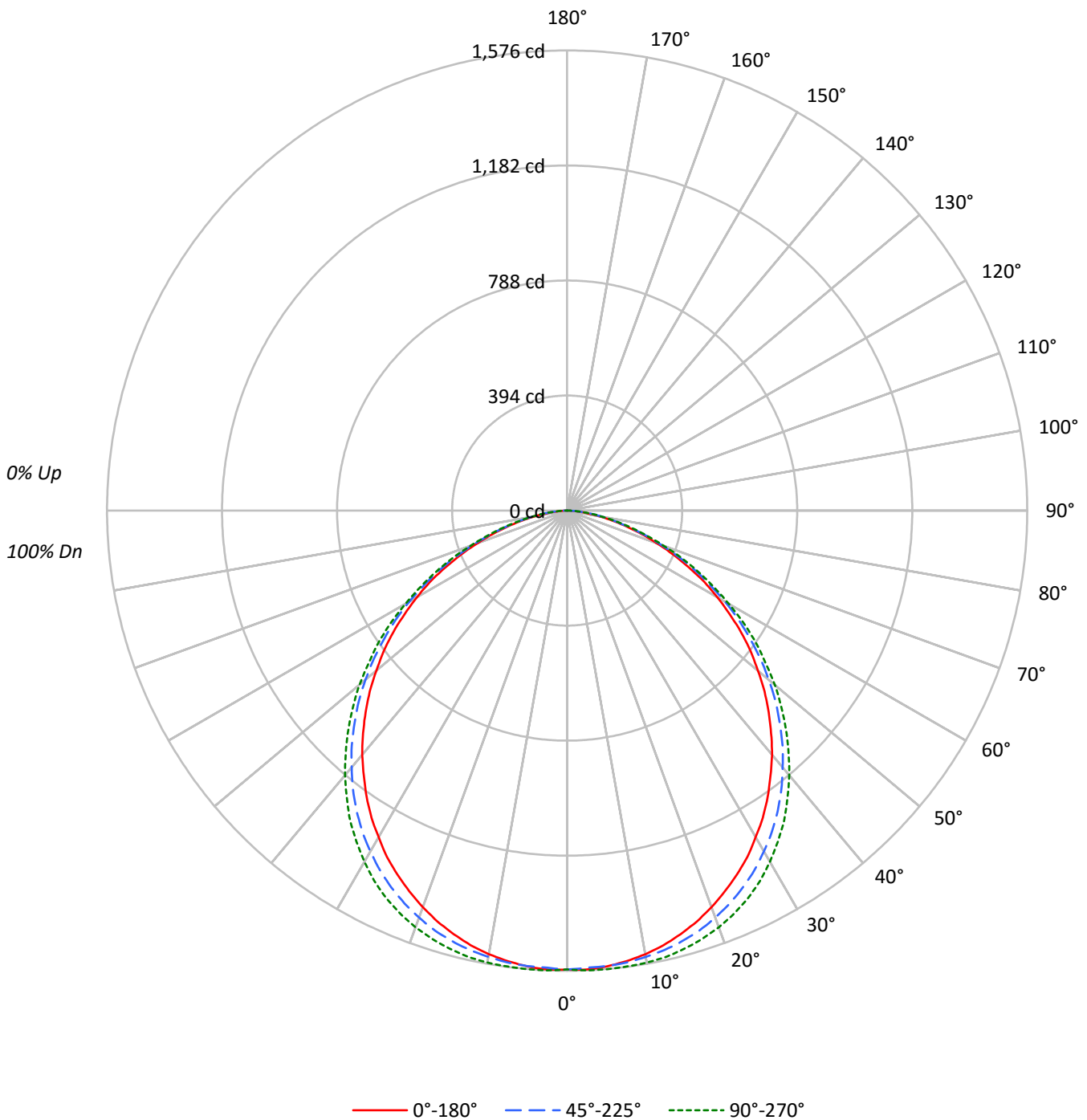
Input Watts (W): 37.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 71 |
| 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 | 47 | 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 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2115 | 2115 | 2115 |
| 5° | 2117 | 2115 | 2129 |
| 10° | 2108 | 2121 | 2148 |
| 15° | 2092 | 2126 | 2164 |
| 20° | 2070 | 2124 | 2174 |
| 25° | 2042 | 2114 | 2175 |
| 30° | 2007 | 2094 | 2158 |
| 35° | 1966 | 2064 | 2129 |
| 40° | 1918 | 2017 | 2079 |
| 45° | 1858 | 1959 | 2017 |
| 50° | 1786 | 1887 | 1945 |
| 55° | 1708 | 1794 | 1851 |
| 60° | 1598 | 1681 | 1721 |
| 65° | 1460 | 1537 | 1576 |
| 70° | 1282 | 1348 | 1384 |
| 75° | 1085 | 1140 | 1180 |
| 80° | 862 | 945 | 968 |
| 85° | 588 | 706 | 682 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.4 | 3.5 |
| 10°-20° | 431.2 | 10.1 |
| 20°-30° | 655.3 | 15.4 |
| 30°-40° | 781.9 | 18.4 |
| 40°-50° | 789.7 | 18.6 |
| 50°-60° | 680.4 | 16.0 |
| 60°-70° | 474.3 | 11.2 |
| 70°-80° | 235.0 | 5.5 |
| 80°-90° | 54.8 | 1.3 |
| 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° | 1235.8 | 29.1 |
| 0°-40° | 2017.7 | 47.5 |
| 0°-60° | 3487.8 | 82.0 |
| 0°-90° | 4252.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4252.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1572 | 1572 | 1572 | 1572 | 1572 | |
| 5° | 1567 | 1566 | 1566 | 1573 | 1576 | 149 |
| 15° | 1502 | 1509 | 1526 | 1546 | 1554 | 424 |
| 25° | 1375 | 1394 | 1424 | 1453 | 1465 | 634 |
| 35° | 1197 | 1217 | 1257 | 1286 | 1296 | 748 |
| 45° | 976 | 998 | 1030 | 1054 | 1060 | 753 |
| 55° | 728 | 743 | 765 | 783 | 789 | 649 |
| 65° | 458 | 468 | 483 | 487 | 495 | 455 |
| 75° | 209 | 212 | 219 | 224 | 227 | 225 |
| 85° | 38 | 46 | 46 | 43 | 44 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1571.9 | 1571.9 | 1571.9 | 1571.9 | 1571.9 |
| 2.5° | 1573.4 | 1570.4 | 1567.3 | 1573.4 | 1576.4 |
| 5° | 1567.3 | 1565.8 | 1565.8 | 1573.4 | 1576.4 |
| 7.5° | 1556.6 | 1556.6 | 1561.2 | 1571.9 | 1574.9 |
| 10° | 1542.9 | 1546.0 | 1552.1 | 1567.3 | 1571.9 |
| 12.5° | 1524.7 | 1530.7 | 1541.4 | 1559.7 | 1565.8 |
| 15° | 1501.8 | 1509.4 | 1526.2 | 1546.0 | 1553.6 |
| 17.5° | 1475.9 | 1486.6 | 1507.9 | 1530.7 | 1538.4 |
| 20° | 1445.5 | 1459.2 | 1483.5 | 1509.4 | 1518.6 |
| 22.5° | 1411.9 | 1428.7 | 1456.1 | 1483.5 | 1494.2 |
| 25° | 1375.4 | 1393.7 | 1424.1 | 1453.1 | 1465.3 |
| 27.5° | 1337.3 | 1355.6 | 1389.1 | 1418.0 | 1430.2 |
| 30° | 1291.6 | 1312.9 | 1348.0 | 1378.4 | 1389.1 |
| 32.5° | 1247.4 | 1268.8 | 1305.3 | 1332.7 | 1343.4 |
| 35° | 1197.2 | 1217.0 | 1256.6 | 1285.5 | 1296.2 |
| 37.5° | 1143.9 | 1166.7 | 1204.8 | 1230.7 | 1239.8 |
| 40° | 1092.1 | 1111.9 | 1148.4 | 1174.3 | 1183.5 |
| 42.5° | 1034.2 | 1055.5 | 1092.1 | 1114.9 | 1122.5 |
| 45° | 976.3 | 997.7 | 1029.6 | 1054.0 | 1060.1 |
| 47.5° | 916.9 | 936.7 | 968.7 | 988.5 | 994.6 |
| 50° | 853.0 | 871.2 | 901.7 | 921.5 | 929.1 |
| 52.5° | 792.0 | 808.8 | 834.7 | 851.4 | 856.0 |
| 55° | 728.1 | 743.3 | 764.6 | 782.9 | 789.0 |
| 57.5° | 659.5 | 676.3 | 696.1 | 711.3 | 715.9 |
| 60° | 594.0 | 607.7 | 624.5 | 638.2 | 639.7 |
| 62.5° | 530.1 | 536.1 | 551.4 | 563.6 | 565.1 |
| 65° | 458.5 | 467.6 | 482.8 | 487.4 | 495.0 |
| 67.5° | 393.0 | 399.1 | 411.2 | 417.3 | 423.4 |
| 70° | 326.0 | 330.5 | 342.7 | 350.3 | 351.8 |
| 72.5° | 268.1 | 269.6 | 278.7 | 284.8 | 286.3 |
| 75° | 208.7 | 211.7 | 219.3 | 223.9 | 226.9 |
| 77.5° | 158.4 | 161.5 | 167.5 | 170.6 | 170.6 |
| 80° | 111.2 | 115.8 | 121.9 | 123.4 | 124.9 |
| 82.5° | 71.6 | 77.7 | 82.2 | 83.8 | 80.7 |
| 85° | 38.1 | 45.7 | 45.7 | 42.6 | 44.2 |
| 87.5° | 13.7 | 16.8 | 18.3 | 19.8 | 19.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)