

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: P258392

Luminaire Tested: **D3X-WD-55L935-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-55L935-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3500 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4366.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

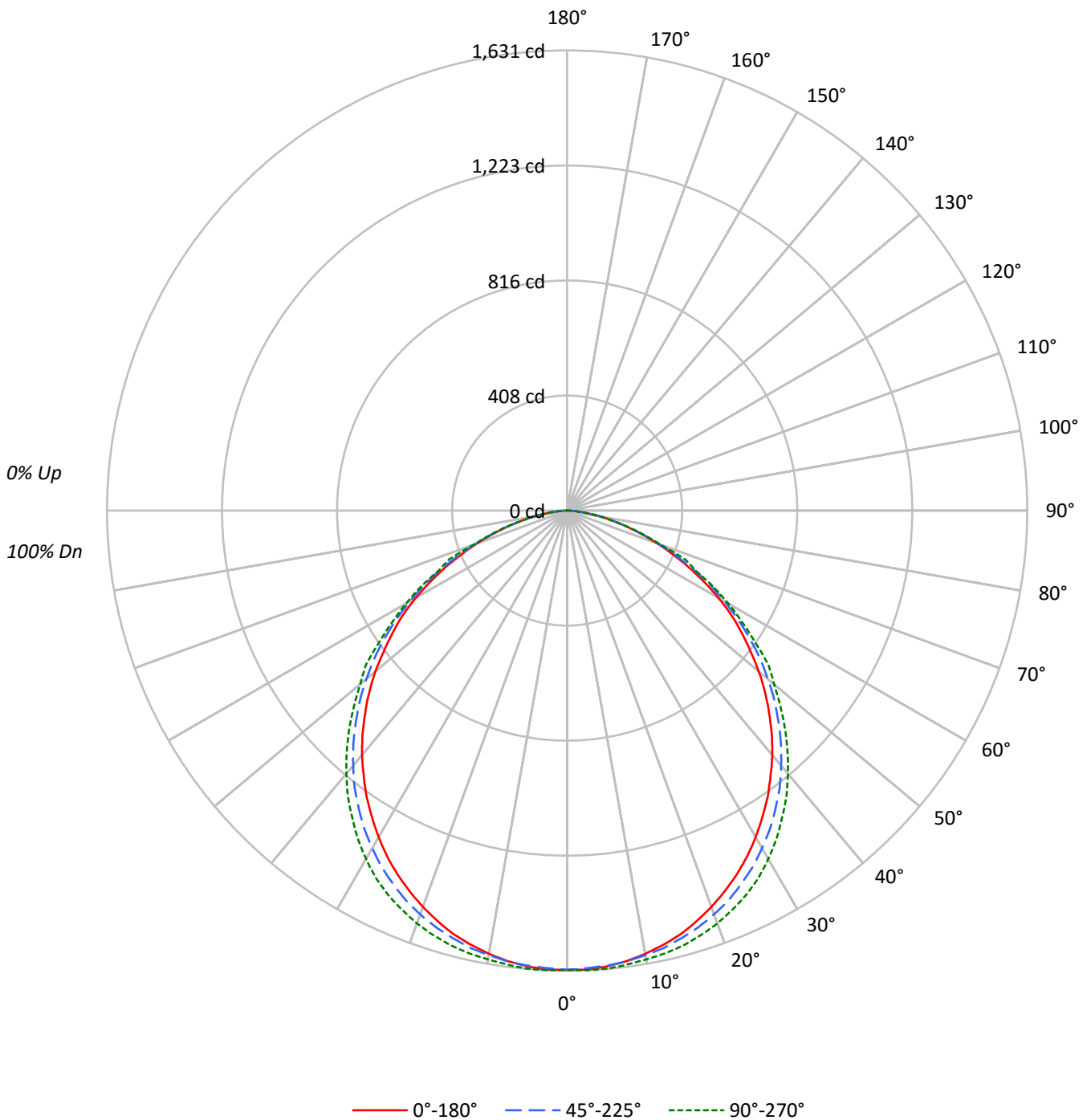
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 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 | 48 | 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 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2190 | 2190 | 2190 |
| 5° | 2190 | 2186 | 2201 |
| 10° | 2179 | 2186 | 2207 |
| 15° | 2165 | 2185 | 2222 |
| 20° | 2140 | 2181 | 2230 |
| 25° | 2112 | 2168 | 2231 |
| 30° | 2076 | 2147 | 2215 |
| 35° | 2036 | 2115 | 2182 |
| 40° | 1987 | 2072 | 2138 |
| 45° | 1926 | 2015 | 2078 |
| 50° | 1856 | 1945 | 2004 |
| 55° | 1772 | 1852 | 1908 |
| 60° | 1669 | 1733 | 1775 |
| 65° | 1516 | 1566 | 1596 |
| 70° | 1331 | 1362 | 1381 |
| 75° | 1124 | 1141 | 1148 |
| 80° | 898 | 910 | 886 |
| 85° | 605 | 628 | 605 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.3 | 3.5 |
| 10°-20° | 443.7 | 10.2 |
| 20°-30° | 673.1 | 15.4 |
| 30°-40° | 803.7 | 18.4 |
| 40°-50° | 813.6 | 18.6 |
| 50°-60° | 703.3 | 16.1 |
| 60°-70° | 487.4 | 11.2 |
| 70°-80° | 235.8 | 5.4 |
| 80°-90° | 51.8 | 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° | 1271.1 | 29.1 |
| 0°-40° | 2074.7 | 47.5 |
| 0°-60° | 3591.6 | 82.2 |
| 0°-90° | 4366.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4366.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1628 | 1628 | 1628 | 1628 | 1628 | |
| 5° | 1622 | 1620 | 1618 | 1626 | 1630 | 154 |
| 15° | 1554 | 1557 | 1568 | 1587 | 1595 | 438 |
| 25° | 1423 | 1432 | 1460 | 1490 | 1503 | 655 |
| 35° | 1239 | 1250 | 1288 | 1321 | 1329 | 774 |
| 45° | 1012 | 1026 | 1059 | 1086 | 1092 | 781 |
| 55° | 755 | 763 | 790 | 823 | 813 | 675 |
| 65° | 476 | 481 | 492 | 500 | 501 | 471 |
| 75° | 216 | 218 | 219 | 218 | 221 | 232 |
| 85° | 39 | 42 | 41 | 39 | 39 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1627.9 | 1627.9 | 1627.9 | 1627.9 | 1627.9 |
| 2.5° | 1627.9 | 1626.3 | 1623.2 | 1627.9 | 1631.0 |
| 5° | 1621.6 | 1620.1 | 1618.5 | 1626.3 | 1629.5 |
| 7.5° | 1610.7 | 1610.7 | 1612.2 | 1620.1 | 1623.2 |
| 10° | 1595.0 | 1596.6 | 1599.7 | 1612.2 | 1615.4 |
| 12.5° | 1576.2 | 1579.3 | 1587.2 | 1601.3 | 1607.5 |
| 15° | 1554.3 | 1557.4 | 1568.4 | 1587.2 | 1595.0 |
| 17.5° | 1526.1 | 1532.3 | 1548.0 | 1569.9 | 1577.8 |
| 20° | 1494.7 | 1502.6 | 1522.9 | 1548.0 | 1557.4 |
| 22.5° | 1460.2 | 1468.1 | 1494.7 | 1521.4 | 1530.8 |
| 25° | 1422.6 | 1432.0 | 1460.2 | 1490.0 | 1502.6 |
| 27.5° | 1381.9 | 1392.9 | 1424.2 | 1455.5 | 1468.1 |
| 30° | 1336.5 | 1349.0 | 1381.9 | 1414.8 | 1425.8 |
| 32.5° | 1287.9 | 1300.4 | 1338.0 | 1369.4 | 1380.3 |
| 35° | 1239.3 | 1250.3 | 1287.9 | 1320.8 | 1328.6 |
| 37.5° | 1184.5 | 1197.0 | 1237.8 | 1266.0 | 1276.9 |
| 40° | 1131.2 | 1143.8 | 1179.8 | 1208.0 | 1217.4 |
| 42.5° | 1073.3 | 1085.8 | 1121.8 | 1148.5 | 1156.3 |
| 45° | 1012.1 | 1026.2 | 1059.2 | 1085.8 | 1092.1 |
| 47.5° | 951.0 | 962.0 | 996.5 | 1020.0 | 1024.7 |
| 50° | 886.8 | 897.8 | 929.1 | 952.6 | 957.3 |
| 52.5° | 819.4 | 836.7 | 861.7 | 879.0 | 899.3 |
| 55° | 755.2 | 763.0 | 789.7 | 822.6 | 813.2 |
| 57.5° | 691.0 | 695.7 | 717.6 | 731.7 | 734.8 |
| 60° | 620.4 | 626.7 | 644.0 | 651.8 | 659.6 |
| 62.5° | 546.8 | 551.5 | 571.9 | 579.7 | 582.8 |
| 65° | 476.3 | 481.0 | 492.0 | 499.8 | 501.4 |
| 67.5° | 404.2 | 408.9 | 418.3 | 424.6 | 452.8 |
| 70° | 338.4 | 341.6 | 346.3 | 358.8 | 351.0 |
| 72.5° | 275.8 | 277.3 | 282.0 | 282.0 | 283.6 |
| 75° | 216.2 | 217.8 | 219.4 | 217.8 | 220.9 |
| 77.5° | 161.4 | 164.5 | 166.1 | 164.5 | 162.9 |
| 80° | 115.9 | 119.1 | 117.5 | 114.4 | 114.4 |
| 82.5° | 75.2 | 76.8 | 75.2 | 73.6 | 73.6 |
| 85° | 39.2 | 42.3 | 40.7 | 39.2 | 39.2 |
| 87.5° | 14.1 | 15.7 | 17.2 | 18.8 | 18.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)