

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P601185

Luminaire Tested: 24D3X-LP-60-L930

Issue Date: 10/6/2023

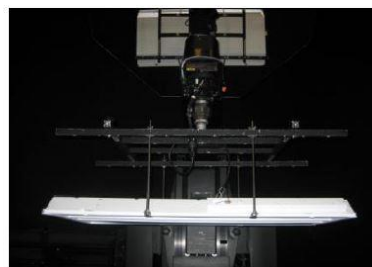
Test Information

Test Method: LM-79-2019
Report Number: P601185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-60-L930
Description: 2x4 D3X-LP AT 6000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

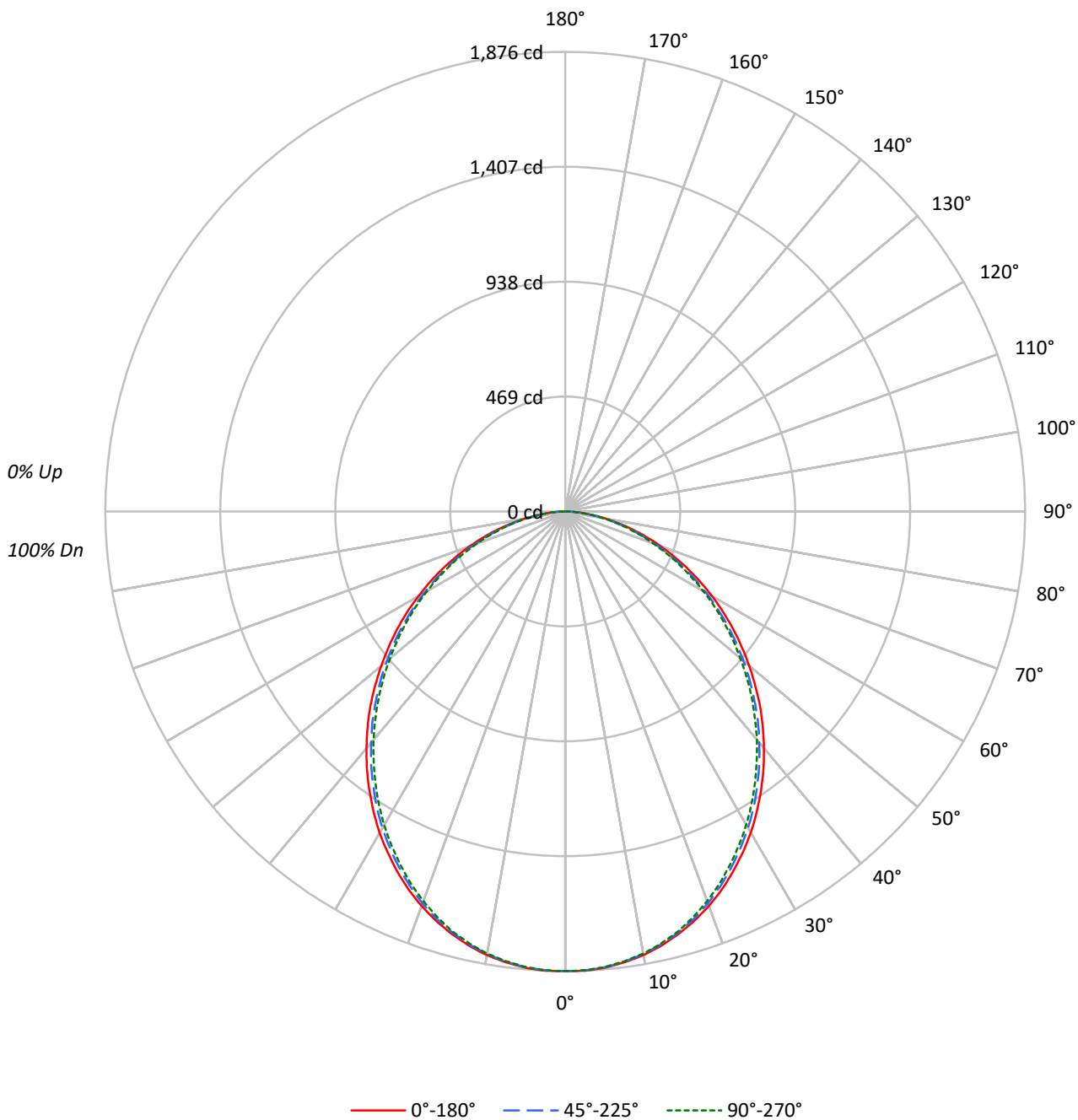
Lumens per Lamp: N/A
Luminaire Lumens: 4731.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
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: 24 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 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 37 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 33 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2525 | 2525 | 2525 |
| 5° | 2525 | 2522 | 2520 |
| 10° | 2513 | 2507 | 2504 |
| 15° | 2487 | 2479 | 2472 |
| 20° | 2454 | 2437 | 2423 |
| 25° | 2407 | 2381 | 2362 |
| 30° | 2353 | 2317 | 2295 |
| 35° | 2287 | 2243 | 2218 |
| 40° | 2214 | 2163 | 2136 |
| 45° | 2138 | 2078 | 2047 |
| 50° | 2051 | 1988 | 1953 |
| 55° | 1961 | 1892 | 1857 |
| 60° | 1860 | 1786 | 1752 |
| 65° | 1751 | 1669 | 1635 |
| 70° | 1629 | 1541 | 1503 |
| 75° | 1478 | 1395 | 1372 |
| 80° | 1280 | 1212 | 1218 |
| 85° | 1056 | 1042 | 974 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2138 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 177.2 | 3.7 |
| 10°-20° | 501.5 | 10.6 |
| 20°-30° | 739.1 | 15.6 |
| 30°-40° | 855.6 | 18.1 |
| 40°-50° | 844.8 | 17.9 |
| 50°-60° | 723.6 | 15.3 |
| 60°-70° | 523.1 | 11.1 |
| 70°-80° | 288.4 | 6.1 |
| 80°-90° | 77.7 | 1.6 |
| 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° | 1417.9 | 30.0 |
| 0°-40° | 2273.5 | 48.1 |
| 0°-60° | 3841.8 | 81.2 |
| 0°-90° | 4731.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4731.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1876 | 1876 | 1876 | 1876 | 1876 | |
| 5° | 1869 | 1868 | 1867 | 1866 | 1866 | 177 |
| 15° | 1786 | 1784 | 1780 | 1777 | 1775 | 503 |
| 25° | 1621 | 1617 | 1604 | 1596 | 1591 | 747 |
| 35° | 1392 | 1383 | 1366 | 1354 | 1350 | 870 |
| 45° | 1124 | 1109 | 1092 | 1081 | 1076 | 866 |
| 55° | 836 | 820 | 807 | 795 | 792 | 747 |
| 65° | 550 | 538 | 524 | 516 | 514 | 545 |
| 75° | 284 | 275 | 268 | 267 | 264 | 302 |
| 85° | 68 | 68 | 68 | 63 | 63 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P601185
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 |
| 2.5° | 1876.3 | 1876.3 | 1874.5 | 1874.5 | 1874.5 |
| 5° | 1869.2 | 1868.3 | 1867.4 | 1865.7 | 1865.7 |
| 7.5° | 1855.9 | 1855.9 | 1853.2 | 1853.2 | 1851.4 |
| 10° | 1839.0 | 1837.2 | 1834.6 | 1834.6 | 1832.8 |
| 12.5° | 1815.0 | 1813.2 | 1809.7 | 1808.8 | 1806.1 |
| 15° | 1785.7 | 1783.9 | 1779.5 | 1776.8 | 1775.0 |
| 17.5° | 1751.9 | 1749.3 | 1743.9 | 1739.5 | 1735.9 |
| 20° | 1713.7 | 1710.2 | 1702.2 | 1696.9 | 1692.4 |
| 22.5° | 1670.2 | 1666.7 | 1655.1 | 1648.9 | 1644.4 |
| 25° | 1621.3 | 1616.9 | 1603.6 | 1595.6 | 1591.1 |
| 27.5° | 1568.9 | 1563.6 | 1548.5 | 1539.6 | 1535.2 |
| 30° | 1514.7 | 1506.7 | 1491.6 | 1481.0 | 1477.4 |
| 32.5° | 1454.3 | 1446.3 | 1431.2 | 1418.8 | 1415.2 |
| 35° | 1392.1 | 1383.3 | 1365.5 | 1353.9 | 1350.4 |
| 37.5° | 1328.2 | 1316.6 | 1300.6 | 1289.1 | 1283.7 |
| 40° | 1260.7 | 1249.1 | 1231.3 | 1218.9 | 1216.2 |
| 42.5° | 1193.1 | 1178.9 | 1163.8 | 1151.4 | 1146.0 |
| 45° | 1123.8 | 1108.7 | 1091.9 | 1081.2 | 1075.9 |
| 47.5° | 1051.0 | 1036.8 | 1021.7 | 1009.2 | 1004.8 |
| 50° | 979.9 | 964.8 | 949.7 | 938.2 | 932.8 |
| 52.5° | 907.1 | 892.0 | 877.7 | 868.0 | 862.6 |
| 55° | 836.0 | 820.0 | 806.7 | 795.1 | 791.6 |
| 57.5° | 764.0 | 749.8 | 734.7 | 724.1 | 721.4 |
| 60° | 691.2 | 678.7 | 663.6 | 653.9 | 651.2 |
| 62.5° | 621.0 | 608.6 | 594.3 | 584.6 | 580.1 |
| 65° | 549.9 | 537.5 | 524.2 | 516.2 | 513.5 |
| 67.5° | 480.6 | 469.1 | 457.5 | 449.5 | 447.8 |
| 70° | 414.0 | 402.4 | 391.8 | 384.7 | 382.0 |
| 72.5° | 347.4 | 339.4 | 328.7 | 324.3 | 321.6 |
| 75° | 284.3 | 275.4 | 268.3 | 267.4 | 263.9 |
| 77.5° | 223.0 | 222.1 | 210.6 | 208.8 | 208.8 |
| 80° | 165.2 | 162.6 | 156.4 | 154.6 | 157.2 |
| 82.5° | 113.7 | 111.9 | 108.4 | 107.5 | 106.6 |
| 85° | 68.4 | 68.4 | 67.5 | 63.1 | 63.1 |
| 87.5° | 31.1 | 30.2 | 29.3 | 30.2 | 32.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)