

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: P601144

Luminaire Tested: 22D3X-LP-80-L935

Issue Date: 10/5/2023

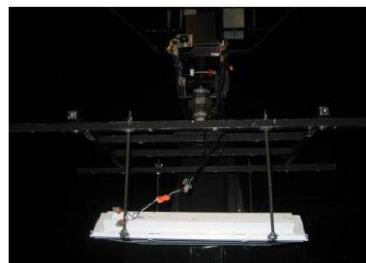
Test Information

Test Method: LM-79-2019
Report Number: P601144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-80-L935
Description: 2x2 D3X-LP AT 8000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

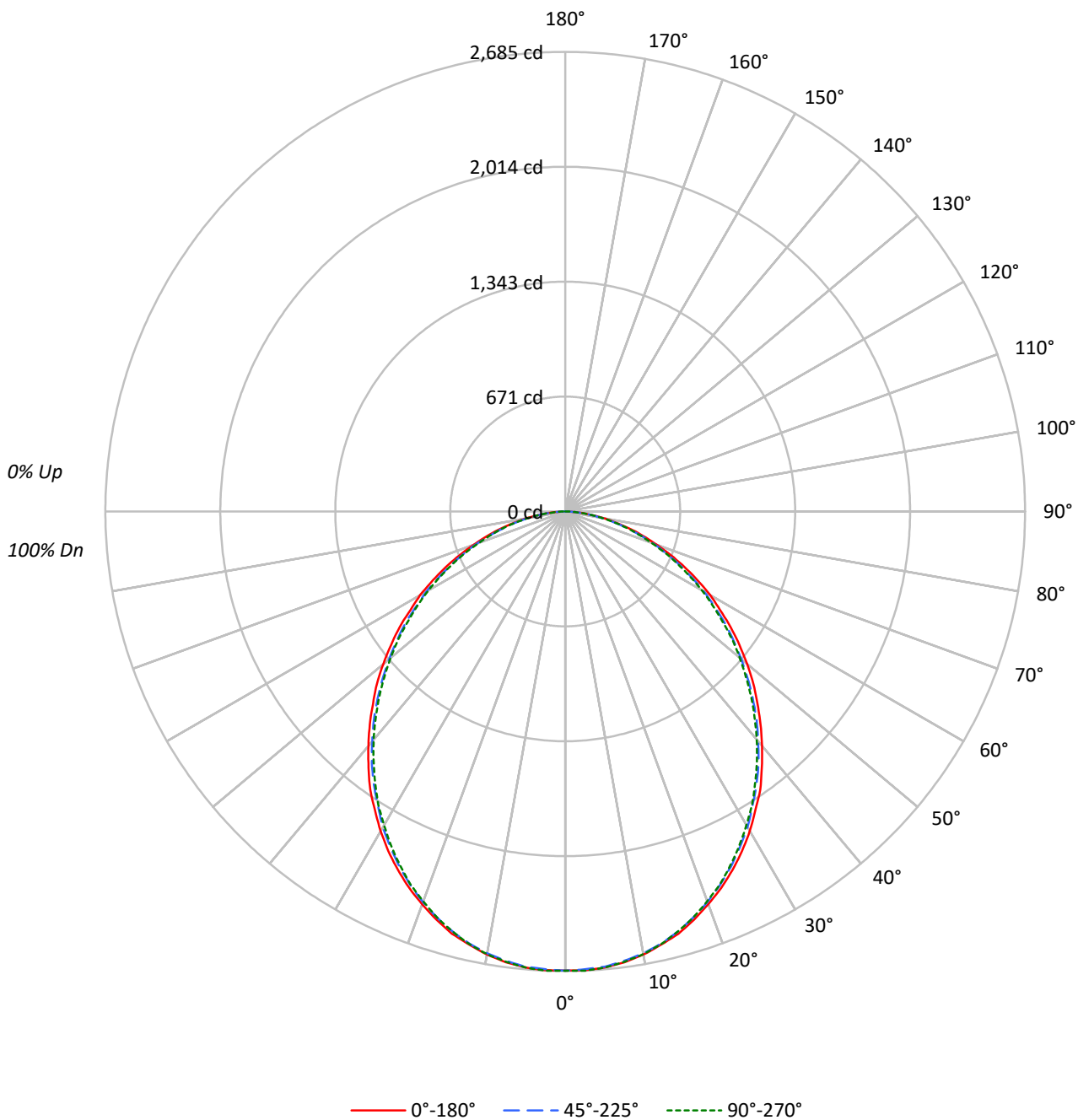
Lumens per Lamp: N/A
Luminaire Lumens: 6703.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
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



TEST NUMBER: P601144
CATALOG NUMBER: 22D3X-LP-80-L935

Luminous Intensity Polar Plot





TEST NUMBER: P601144
 CATALOG NUMBER: 22D3X-LP-80-L935

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 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 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 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 36 |
| 8 | 62 | 49 | 40 | 34 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7218 | 7218 | 7218 |
| 5° | 7224 | 7210 | 7224 |
| 10° | 7183 | 7162 | 7176 |
| 15° | 7115 | 7078 | 7078 |
| 20° | 6993 | 6955 | 6939 |
| 25° | 6862 | 6798 | 6774 |
| 30° | 6700 | 6616 | 6575 |
| 35° | 6521 | 6398 | 6354 |
| 40° | 6279 | 6157 | 6110 |
| 45° | 6040 | 5897 | 5846 |
| 50° | 5805 | 5615 | 5570 |
| 55° | 5540 | 5339 | 5264 |
| 60° | 5262 | 5033 | 4961 |
| 65° | 4899 | 4661 | 4610 |
| 70° | 4478 | 4309 | 4204 |
| 75° | 4083 | 3833 | 3861 |
| 80° | 3519 | 3312 | 3353 |
| 85° | 2723 | 2640 | 2476 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6040 cd/sqm



TEST NUMBER: P601144
 CATALOG NUMBER: 22D3X-LP-80-L935

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 253.4 | 3.8 |
| 10°-20° | 716.4 | 10.7 |
| 20°-30° | 1055.2 | 15.7 |
| 30°-40° | 1220.6 | 18.2 |
| 40°-50° | 1200.0 | 17.9 |
| 50°-60° | 1022.7 | 15.3 |
| 60°-70° | 732.8 | 10.9 |
| 70°-80° | 398.0 | 5.9 |
| 80°-90° | 103.8 | 1.5 |
| 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° | 2025.0 | 30.2 |
| 0°-40° | 3245.7 | 48.4 |
| 0°-60° | 5468.4 | 81.6 |
| 0°-90° | 6703.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6703.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2682 | 2682 | 2682 | 2682 | 2682 | |
| 5° | 2674 | 2669 | 2669 | 2669 | 2674 | 254 |
| 15° | 2554 | 2543 | 2541 | 2538 | 2541 | 719 |
| 25° | 2311 | 2300 | 2290 | 2284 | 2282 | 1064 |
| 35° | 1985 | 1969 | 1948 | 1937 | 1934 | 1238 |
| 45° | 1587 | 1576 | 1550 | 1536 | 1536 | 1226 |
| 55° | 1181 | 1160 | 1138 | 1125 | 1122 | 1054 |
| 65° | 769 | 753 | 732 | 724 | 724 | 762 |
| 75° | 393 | 379 | 369 | 363 | 371 | 415 |
| 85° | 88 | 88 | 86 | 83 | 80 | 107 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P601144
 CATALOG NUMBER: 22D3X-LP-80-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2682.4 | 2682.4 | 2682.4 | 2682.4 | 2682.4 |
| 2.5° | 2682.4 | 2679.7 | 2677.0 | 2679.7 | 2685.0 |
| 5° | 2674.4 | 2669.0 | 2669.0 | 2669.0 | 2674.4 |
| 7.5° | 2655.7 | 2650.3 | 2647.6 | 2650.3 | 2653.0 |
| 10° | 2628.9 | 2623.6 | 2620.9 | 2623.6 | 2626.3 |
| 12.5° | 2591.5 | 2588.9 | 2586.2 | 2586.2 | 2588.9 |
| 15° | 2554.1 | 2543.4 | 2540.8 | 2538.1 | 2540.8 |
| 17.5° | 2500.7 | 2498.0 | 2487.3 | 2487.3 | 2487.3 |
| 20° | 2441.9 | 2436.6 | 2428.6 | 2423.2 | 2423.2 |
| 22.5° | 2380.5 | 2375.1 | 2361.8 | 2356.4 | 2359.1 |
| 25° | 2311.0 | 2300.3 | 2289.6 | 2284.3 | 2281.6 |
| 27.5° | 2236.2 | 2225.5 | 2209.5 | 2201.5 | 2201.5 |
| 30° | 2156.1 | 2148.0 | 2129.3 | 2118.6 | 2116.0 |
| 32.5° | 2067.9 | 2062.5 | 2035.8 | 2030.5 | 2030.5 |
| 35° | 1985.1 | 1969.0 | 1947.7 | 1937.0 | 1934.3 |
| 37.5° | 1886.2 | 1875.5 | 1854.2 | 1840.8 | 1838.1 |
| 40° | 1787.4 | 1774.0 | 1752.6 | 1741.9 | 1739.3 |
| 42.5° | 1688.5 | 1675.1 | 1653.8 | 1640.4 | 1637.7 |
| 45° | 1587.0 | 1576.3 | 1549.6 | 1536.2 | 1536.2 |
| 47.5° | 1490.8 | 1469.4 | 1445.4 | 1434.7 | 1432.0 |
| 50° | 1386.6 | 1367.9 | 1341.2 | 1330.5 | 1330.5 |
| 52.5° | 1282.4 | 1269.1 | 1239.7 | 1234.3 | 1229.0 |
| 55° | 1180.9 | 1159.5 | 1138.1 | 1124.8 | 1122.1 |
| 57.5° | 1071.3 | 1052.6 | 1031.3 | 1020.6 | 1020.6 |
| 60° | 977.8 | 953.8 | 935.1 | 921.7 | 921.7 |
| 62.5° | 871.0 | 849.6 | 830.9 | 822.9 | 820.2 |
| 65° | 769.4 | 753.4 | 732.0 | 724.0 | 724.0 |
| 67.5° | 667.9 | 654.6 | 635.9 | 627.8 | 630.5 |
| 70° | 569.1 | 561.1 | 547.7 | 537.0 | 534.3 |
| 72.5° | 478.2 | 467.5 | 454.2 | 451.5 | 451.5 |
| 75° | 392.7 | 379.4 | 368.7 | 363.3 | 371.4 |
| 77.5° | 304.6 | 296.6 | 291.2 | 288.5 | 291.2 |
| 80° | 227.1 | 216.4 | 213.7 | 216.4 | 216.4 |
| 82.5° | 157.6 | 152.3 | 149.6 | 149.6 | 149.6 |
| 85° | 88.2 | 88.2 | 85.5 | 82.8 | 80.2 |
| 87.5° | 34.7 | 34.7 | 37.4 | 37.4 | 40.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)