

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: P601130

Luminaire Tested: 22D3X-LP-60-L840

Issue Date: 10/5/2023

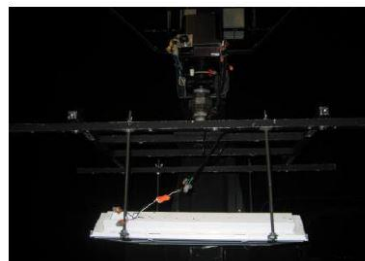
Test Information

Test Method: LM-79-2019
Report Number: P601130
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-60-L840
Description: 2x2 D3X-LP AT 6000LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

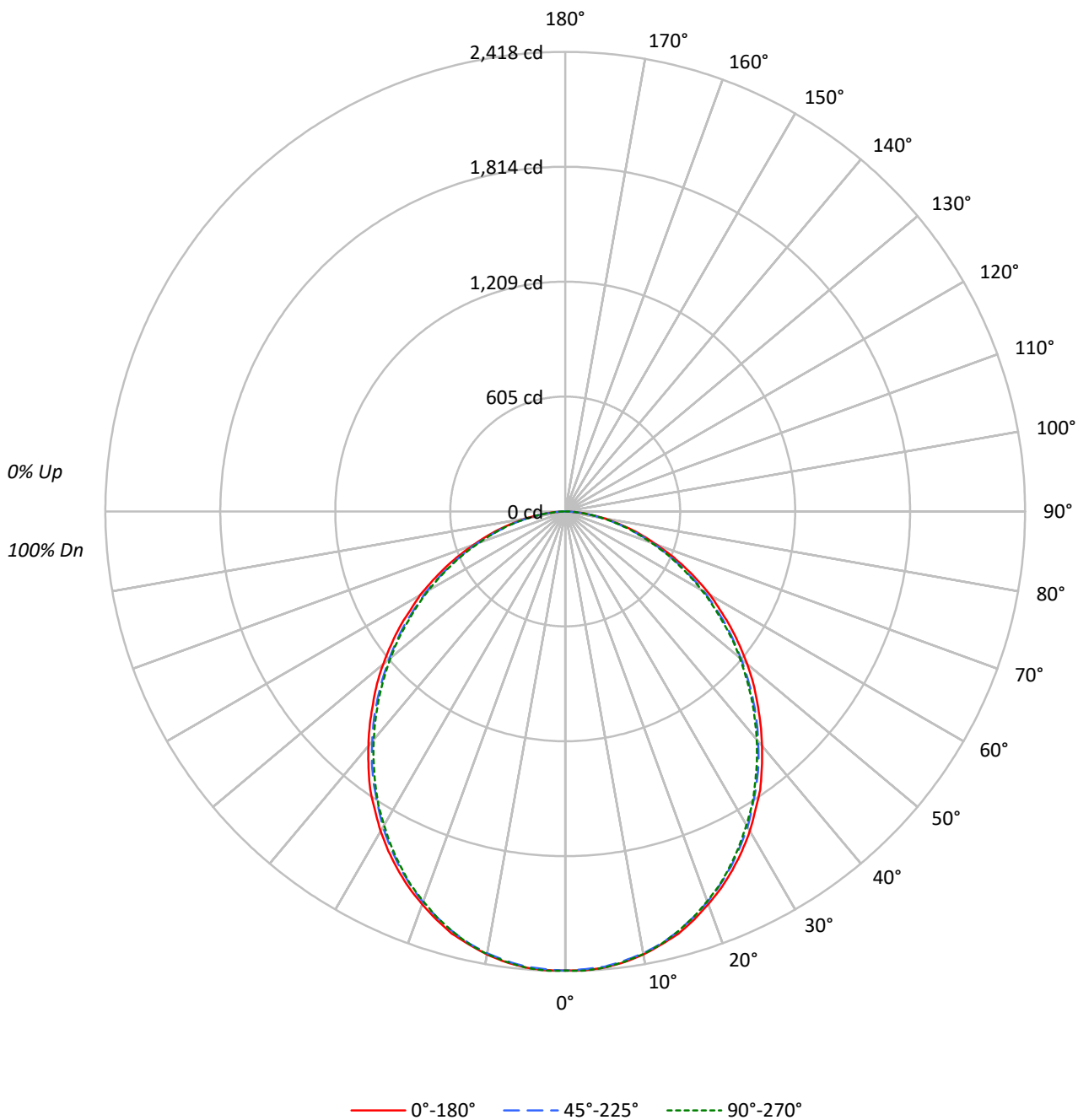
Lumens per Lamp: N/A
Luminaire Lumens: 6036.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
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: 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 | 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° | 6500 | 6500 | 6500 |
| 5° | 6505 | 6492 | 6505 |
| 10° | 6469 | 6449 | 6462 |
| 15° | 6408 | 6374 | 6374 |
| 20° | 6297 | 6263 | 6249 |
| 25° | 6179 | 6122 | 6100 |
| 30° | 6033 | 5958 | 5921 |
| 35° | 5872 | 5762 | 5722 |
| 40° | 5654 | 5544 | 5502 |
| 45° | 5439 | 5310 | 5265 |
| 50° | 5227 | 5056 | 5016 |
| 55° | 4989 | 4808 | 4741 |
| 60° | 4739 | 4532 | 4467 |
| 65° | 4412 | 4197 | 4152 |
| 70° | 4032 | 3880 | 3786 |
| 75° | 3677 | 3452 | 3477 |
| 80° | 3169 | 2983 | 3020 |
| 85° | 2452 | 2377 | 2229 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5439 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 228.2 | 3.8 |
| 10°-20° | 645.2 | 10.7 |
| 20°-30° | 950.2 | 15.7 |
| 30°-40° | 1099.2 | 18.2 |
| 40°-50° | 1080.6 | 17.9 |
| 50°-60° | 920.9 | 15.3 |
| 60°-70° | 659.9 | 10.9 |
| 70°-80° | 358.4 | 5.9 |
| 80°-90° | 93.5 | 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° | 1823.5 | 30.2 |
| 0°-40° | 2922.7 | 48.4 |
| 0°-60° | 4924.2 | 81.6 |
| 0°-90° | 6036.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6036.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2416 | 2416 | 2416 | 2416 | 2416 | |
| 5° | 2408 | 2403 | 2403 | 2403 | 2408 | 229 |
| 15° | 2300 | 2290 | 2288 | 2286 | 2288 | 647 |
| 25° | 2081 | 2071 | 2062 | 2057 | 2055 | 958 |
| 35° | 1788 | 1773 | 1754 | 1744 | 1742 | 1115 |
| 45° | 1429 | 1419 | 1395 | 1383 | 1383 | 1104 |
| 55° | 1063 | 1044 | 1025 | 1013 | 1010 | 949 |
| 65° | 693 | 678 | 659 | 652 | 652 | 686 |
| 75° | 354 | 342 | 332 | 327 | 334 | 374 |
| 85° | 79 | 79 | 77 | 75 | 72 | 97 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P601130
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2415.5 | 2415.5 | 2415.5 | 2415.5 | 2415.5 |
| 2.5° | 2415.5 | 2413.1 | 2410.6 | 2413.1 | 2417.9 |
| 5° | 2408.2 | 2403.4 | 2403.4 | 2403.4 | 2408.2 |
| 7.5° | 2391.4 | 2386.6 | 2384.2 | 2386.6 | 2389.0 |
| 10° | 2367.3 | 2362.5 | 2360.1 | 2362.5 | 2364.9 |
| 12.5° | 2333.7 | 2331.3 | 2328.8 | 2328.8 | 2331.3 |
| 15° | 2300.0 | 2290.4 | 2287.9 | 2285.5 | 2287.9 |
| 17.5° | 2251.9 | 2249.5 | 2239.8 | 2239.8 | 2239.8 |
| 20° | 2198.9 | 2194.1 | 2186.9 | 2182.1 | 2182.1 |
| 22.5° | 2143.6 | 2138.8 | 2126.8 | 2121.9 | 2124.4 |
| 25° | 2081.0 | 2071.4 | 2061.8 | 2057.0 | 2054.6 |
| 27.5° | 2013.7 | 2004.1 | 1989.6 | 1982.4 | 1982.4 |
| 30° | 1941.5 | 1934.3 | 1917.4 | 1907.8 | 1905.4 |
| 32.5° | 1862.1 | 1857.3 | 1833.2 | 1828.4 | 1828.4 |
| 35° | 1787.5 | 1773.1 | 1753.9 | 1744.2 | 1741.8 |
| 37.5° | 1698.5 | 1688.9 | 1669.6 | 1657.6 | 1655.2 |
| 40° | 1609.5 | 1597.5 | 1578.2 | 1568.6 | 1566.2 |
| 42.5° | 1520.5 | 1508.5 | 1489.2 | 1477.2 | 1474.8 |
| 45° | 1429.1 | 1419.4 | 1395.4 | 1383.4 | 1383.4 |
| 47.5° | 1342.5 | 1323.2 | 1301.6 | 1291.9 | 1289.5 |
| 50° | 1248.6 | 1231.8 | 1207.7 | 1198.1 | 1198.1 |
| 52.5° | 1154.8 | 1142.8 | 1116.3 | 1111.5 | 1106.7 |
| 55° | 1063.4 | 1044.1 | 1024.9 | 1012.9 | 1010.5 |
| 57.5° | 964.7 | 947.9 | 928.7 | 919.0 | 919.0 |
| 60° | 880.5 | 858.9 | 842.0 | 830.0 | 830.0 |
| 62.5° | 784.3 | 765.1 | 748.2 | 741.0 | 738.6 |
| 65° | 692.9 | 678.4 | 659.2 | 652.0 | 652.0 |
| 67.5° | 601.5 | 589.4 | 572.6 | 565.4 | 567.8 |
| 70° | 512.4 | 505.2 | 493.2 | 483.6 | 481.2 |
| 72.5° | 430.6 | 421.0 | 409.0 | 406.6 | 406.6 |
| 75° | 353.7 | 341.6 | 332.0 | 327.2 | 334.4 |
| 77.5° | 274.3 | 267.0 | 262.2 | 259.8 | 262.2 |
| 80° | 204.5 | 194.9 | 192.5 | 194.9 | 194.9 |
| 82.5° | 141.9 | 137.1 | 134.7 | 134.7 | 134.7 |
| 85° | 79.4 | 79.4 | 77.0 | 74.6 | 72.2 |
| 87.5° | 31.3 | 31.3 | 33.7 | 33.7 | 36.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)