

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: P258412

Luminaire Tested: **D3X-WD-80L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258412
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-80L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7063.7 lumens
Efficiency: N/A
Efficacy: 104.8 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

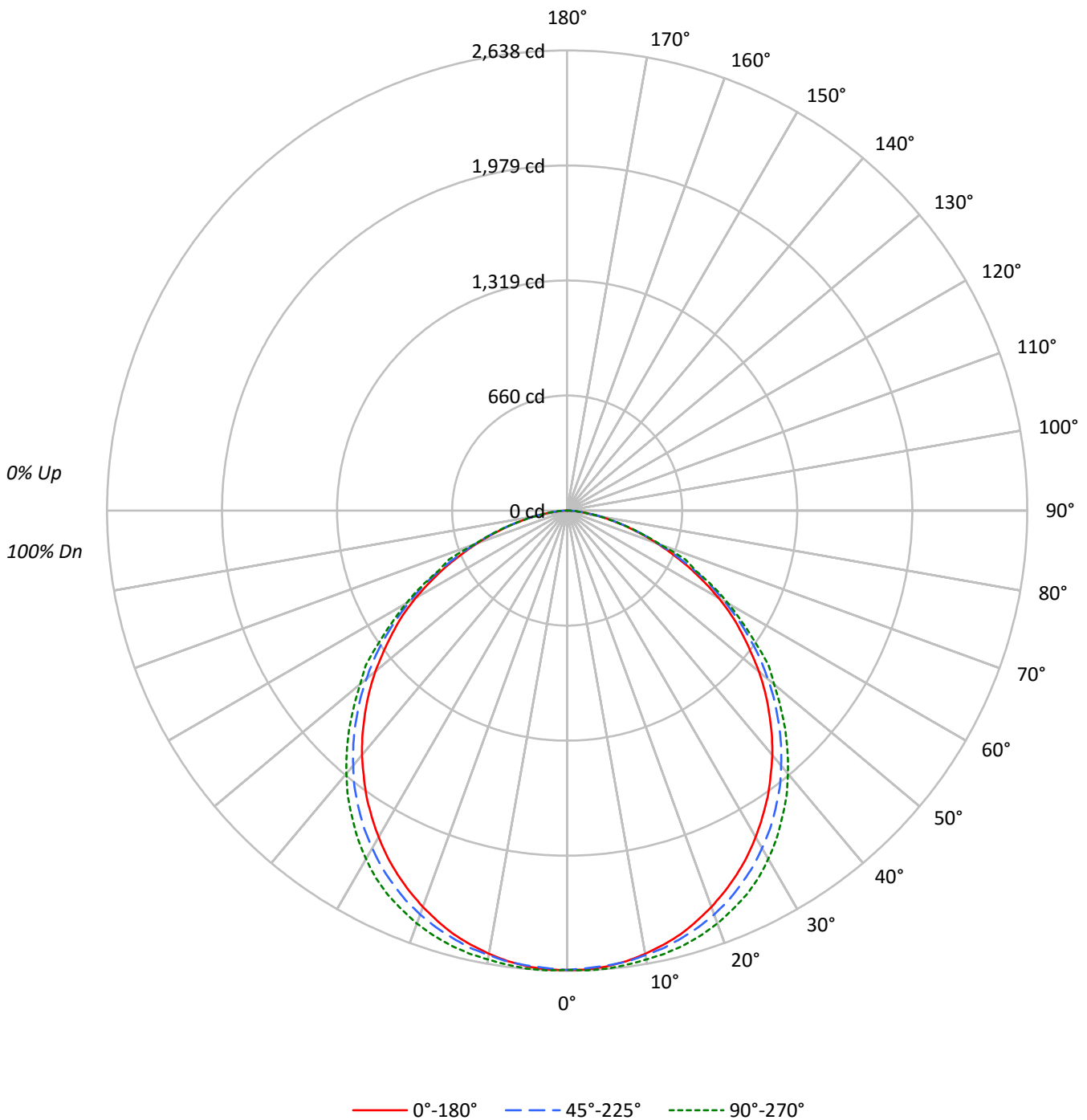
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3543 | 3543 | 3543 |
| 5° | 3543 | 3536 | 3560 |
| 10° | 3525 | 3535 | 3570 |
| 15° | 3502 | 3534 | 3594 |
| 20° | 3462 | 3527 | 3607 |
| 25° | 3416 | 3507 | 3608 |
| 30° | 3359 | 3473 | 3583 |
| 35° | 3293 | 3422 | 3530 |
| 40° | 3214 | 3352 | 3459 |
| 45° | 3115 | 3260 | 3361 |
| 50° | 3003 | 3146 | 3241 |
| 55° | 2866 | 2997 | 3086 |
| 60° | 2701 | 2803 | 2871 |
| 65° | 2453 | 2534 | 2582 |
| 70° | 2153 | 2203 | 2233 |
| 75° | 1818 | 1844 | 1858 |
| 80° | 1453 | 1473 | 1433 |
| 85° | 979 | 1017 | 979 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 249.6 | 3.5 |
| 10°-20° | 717.7 | 10.2 |
| 20°-30° | 1088.9 | 15.4 |
| 30°-40° | 1300.0 | 18.4 |
| 40°-50° | 1316.1 | 18.6 |
| 50°-60° | 1137.6 | 16.1 |
| 60°-70° | 788.5 | 11.2 |
| 70°-80° | 381.5 | 5.4 |
| 80°-90° | 83.9 | 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° | 2056.1 | 29.1 |
| 0°-40° | 3356.1 | 47.5 |
| 0°-60° | 5809.8 | 82.2 |
| 0°-90° | 7063.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7063.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2633 | 2633 | 2633 | 2633 | 2633 | |
| 5° | 2623 | 2621 | 2618 | 2631 | 2636 | 249 |
| 15° | 2514 | 2519 | 2537 | 2567 | 2580 | 709 |
| 25° | 2301 | 2316 | 2362 | 2410 | 2430 | 1060 |
| 35° | 2005 | 2022 | 2083 | 2136 | 2149 | 1252 |
| 45° | 1637 | 1660 | 1713 | 1756 | 1766 | 1263 |
| 55° | 1222 | 1234 | 1277 | 1331 | 1315 | 1092 |
| 65° | 770 | 778 | 796 | 808 | 811 | 763 |
| 75° | 350 | 352 | 355 | 352 | 357 | 375 |
| 85° | 63 | 68 | 66 | 63 | 63 | 82 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2633.3 | 2633.3 | 2633.3 | 2633.3 | 2633.3 |
| 2.5° | 2633.3 | 2630.7 | 2625.7 | 2633.3 | 2638.4 |
| 5° | 2623.1 | 2620.6 | 2618.1 | 2630.7 | 2635.8 |
| 7.5° | 2605.4 | 2605.4 | 2607.9 | 2620.6 | 2625.7 |
| 10° | 2580.1 | 2582.6 | 2587.7 | 2607.9 | 2613.0 |
| 12.5° | 2549.6 | 2554.7 | 2567.4 | 2590.2 | 2600.3 |
| 15° | 2514.2 | 2519.2 | 2537.0 | 2567.4 | 2580.1 |
| 17.5° | 2468.5 | 2478.7 | 2504.0 | 2539.5 | 2552.2 |
| 20° | 2417.9 | 2430.5 | 2463.5 | 2504.0 | 2519.2 |
| 22.5° | 2362.1 | 2374.8 | 2417.9 | 2460.9 | 2476.1 |
| 25° | 2301.3 | 2316.5 | 2362.1 | 2410.3 | 2430.5 |
| 27.5° | 2235.4 | 2253.1 | 2303.8 | 2354.5 | 2374.8 |
| 30° | 2161.9 | 2182.2 | 2235.4 | 2288.6 | 2306.3 |
| 32.5° | 2083.3 | 2103.6 | 2164.4 | 2215.1 | 2232.8 |
| 35° | 2004.7 | 2022.5 | 2083.3 | 2136.5 | 2149.2 |
| 37.5° | 1916.0 | 1936.3 | 2002.2 | 2047.8 | 2065.6 |
| 40° | 1829.9 | 1850.1 | 1908.4 | 1954.1 | 1969.3 |
| 42.5° | 1736.1 | 1756.4 | 1814.7 | 1857.7 | 1870.4 |
| 45° | 1637.2 | 1660.1 | 1713.3 | 1756.4 | 1766.5 |
| 47.5° | 1538.4 | 1556.1 | 1611.9 | 1649.9 | 1657.5 |
| 50° | 1434.5 | 1452.2 | 1502.9 | 1540.9 | 1548.5 |
| 52.5° | 1325.5 | 1353.4 | 1393.9 | 1421.8 | 1454.8 |
| 55° | 1221.6 | 1234.3 | 1277.4 | 1330.6 | 1315.4 |
| 57.5° | 1117.7 | 1125.3 | 1160.8 | 1183.6 | 1188.7 |
| 60° | 1003.6 | 1013.8 | 1041.7 | 1054.3 | 1067.0 |
| 62.5° | 884.5 | 892.1 | 925.1 | 937.7 | 942.8 |
| 65° | 770.5 | 778.1 | 795.8 | 808.5 | 811.0 |
| 67.5° | 653.9 | 661.5 | 676.7 | 686.8 | 732.5 |
| 70° | 547.4 | 552.5 | 560.1 | 580.4 | 567.7 |
| 72.5° | 446.1 | 448.6 | 456.2 | 456.2 | 458.7 |
| 75° | 349.8 | 352.3 | 354.8 | 352.3 | 357.4 |
| 77.5° | 261.0 | 266.1 | 268.7 | 266.1 | 263.6 |
| 80° | 187.5 | 192.6 | 190.1 | 185.0 | 185.0 |
| 82.5° | 121.7 | 124.2 | 121.7 | 119.1 | 119.1 |
| 85° | 63.4 | 68.4 | 65.9 | 63.4 | 63.4 |
| 87.5° | 22.8 | 25.3 | 27.9 | 30.4 | 30.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)