

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: P258413

Luminaire Tested: **D3X-WD-80L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258413
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-80L835-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7357.6 lumens
Efficiency: N/A
Efficacy: 109.2 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

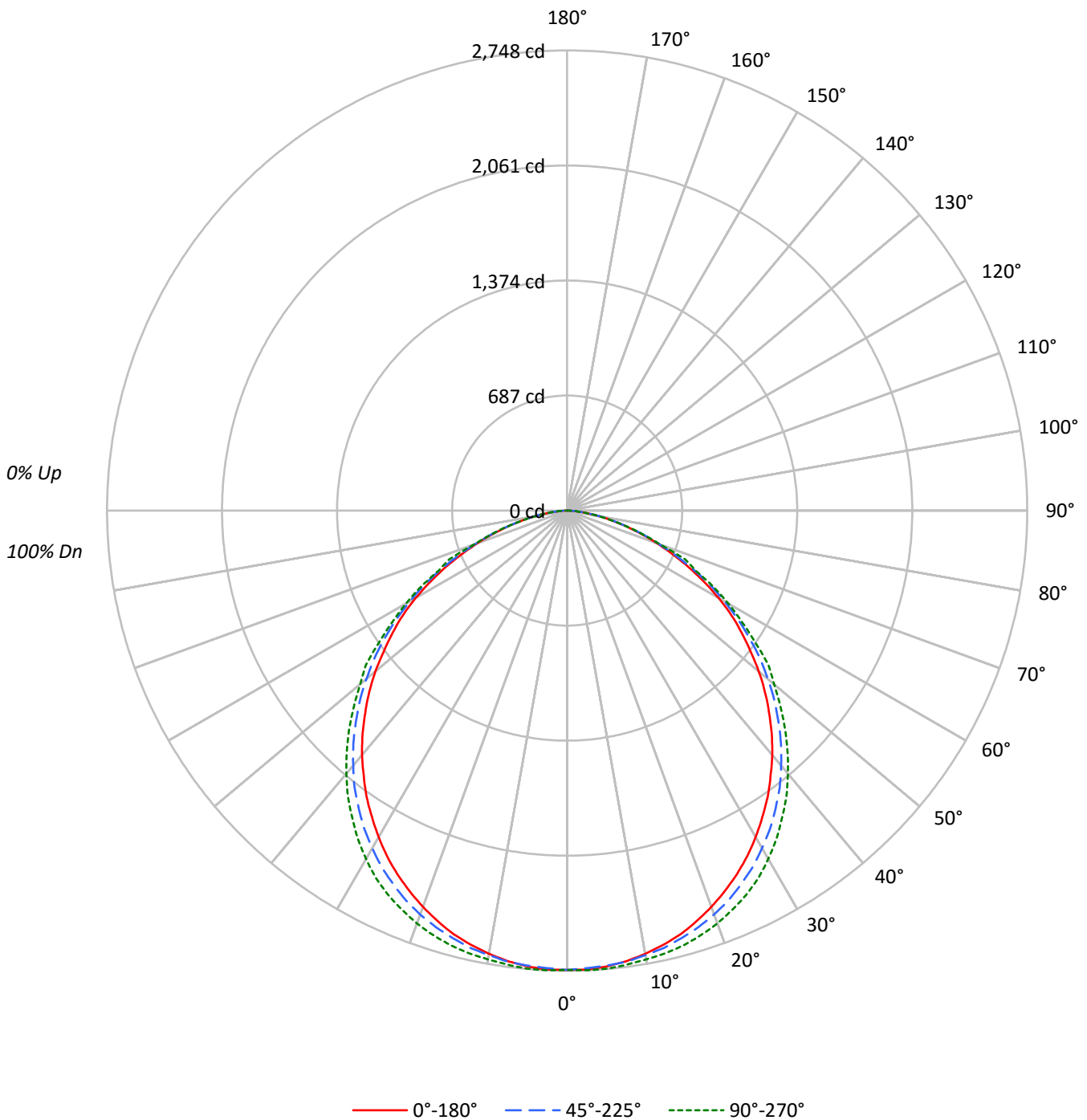
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 3691 | 3691 | 3691 |
| 5° | 3690 | 3683 | 3708 |
| 10° | 3672 | 3682 | 3719 |
| 15° | 3648 | 3681 | 3743 |
| 20° | 3606 | 3674 | 3757 |
| 25° | 3559 | 3653 | 3759 |
| 30° | 3498 | 3617 | 3732 |
| 35° | 3430 | 3564 | 3677 |
| 40° | 3348 | 3491 | 3603 |
| 45° | 3245 | 3396 | 3501 |
| 50° | 3128 | 3277 | 3376 |
| 55° | 2985 | 3121 | 3214 |
| 60° | 2813 | 2920 | 2991 |
| 65° | 2555 | 2639 | 2690 |
| 70° | 2243 | 2295 | 2326 |
| 75° | 1894 | 1921 | 1935 |
| 80° | 1514 | 1534 | 1493 |
| 85° | 1019 | 1059 | 1019 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 259.9 | 3.5 |
| 10°-20° | 747.5 | 10.2 |
| 20°-30° | 1134.2 | 15.4 |
| 30°-40° | 1354.1 | 18.4 |
| 40°-50° | 1370.9 | 18.6 |
| 50°-60° | 1185.0 | 16.1 |
| 60°-70° | 821.3 | 11.2 |
| 70°-80° | 397.4 | 5.4 |
| 80°-90° | 87.4 | 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° | 2141.7 | 29.1 |
| 0°-40° | 3495.7 | 47.5 |
| 0°-60° | 6051.6 | 82.2 |
| 0°-90° | 7357.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7357.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2743 | 2743 | 2743 | 2743 | 2743 | |
| 5° | 2732 | 2730 | 2727 | 2740 | 2746 | 259 |
| 15° | 2619 | 2624 | 2642 | 2674 | 2687 | 738 |
| 25° | 2397 | 2413 | 2460 | 2510 | 2532 | 1104 |
| 35° | 2088 | 2107 | 2170 | 2225 | 2239 | 1304 |
| 45° | 1705 | 1729 | 1785 | 1830 | 1840 | 1315 |
| 55° | 1272 | 1286 | 1330 | 1386 | 1370 | 1137 |
| 65° | 802 | 810 | 829 | 842 | 845 | 794 |
| 75° | 364 | 367 | 370 | 367 | 372 | 391 |
| 85° | 66 | 71 | 69 | 66 | 66 | 85 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2742.9 | 2742.9 | 2742.9 | 2742.9 | 2742.9 |
| 2.5° | 2742.9 | 2740.2 | 2734.9 | 2742.9 | 2748.1 |
| 5° | 2732.3 | 2729.7 | 2727.0 | 2740.2 | 2745.5 |
| 7.5° | 2713.8 | 2713.8 | 2716.5 | 2729.7 | 2734.9 |
| 10° | 2687.4 | 2690.1 | 2695.3 | 2716.5 | 2721.7 |
| 12.5° | 2655.7 | 2661.0 | 2674.2 | 2698.0 | 2708.5 |
| 15° | 2618.8 | 2624.1 | 2642.5 | 2674.2 | 2687.4 |
| 17.5° | 2571.3 | 2581.8 | 2608.2 | 2645.2 | 2658.4 |
| 20° | 2518.5 | 2531.7 | 2566.0 | 2608.2 | 2624.1 |
| 22.5° | 2460.4 | 2473.6 | 2518.5 | 2563.3 | 2579.2 |
| 25° | 2397.0 | 2412.9 | 2460.4 | 2510.5 | 2531.7 |
| 27.5° | 2328.4 | 2346.9 | 2399.7 | 2452.5 | 2473.6 |
| 30° | 2251.8 | 2273.0 | 2328.4 | 2383.8 | 2402.3 |
| 32.5° | 2170.0 | 2191.1 | 2254.5 | 2307.3 | 2325.8 |
| 35° | 2088.2 | 2106.6 | 2170.0 | 2225.4 | 2238.6 |
| 37.5° | 1995.8 | 2016.9 | 2085.5 | 2133.0 | 2151.5 |
| 40° | 1906.0 | 1927.1 | 1987.8 | 2035.4 | 2051.2 |
| 42.5° | 1808.3 | 1829.5 | 1890.2 | 1935.0 | 1948.2 |
| 45° | 1705.4 | 1729.1 | 1784.6 | 1829.5 | 1840.0 |
| 47.5° | 1602.4 | 1620.9 | 1679.0 | 1718.6 | 1726.5 |
| 50° | 1494.2 | 1512.7 | 1565.5 | 1605.1 | 1613.0 |
| 52.5° | 1380.7 | 1409.7 | 1451.9 | 1481.0 | 1515.3 |
| 55° | 1272.4 | 1285.6 | 1330.5 | 1385.9 | 1370.1 |
| 57.5° | 1164.2 | 1172.1 | 1209.1 | 1232.8 | 1238.1 |
| 60° | 1045.4 | 1056.0 | 1085.0 | 1098.2 | 1111.4 |
| 62.5° | 921.3 | 929.2 | 963.6 | 976.8 | 982.0 |
| 65° | 802.5 | 810.5 | 828.9 | 842.1 | 844.8 |
| 67.5° | 681.1 | 689.0 | 704.9 | 715.4 | 762.9 |
| 70° | 570.2 | 575.5 | 583.4 | 604.5 | 591.3 |
| 72.5° | 464.6 | 467.3 | 475.2 | 475.2 | 477.8 |
| 75° | 364.3 | 366.9 | 369.6 | 366.9 | 372.2 |
| 77.5° | 271.9 | 277.2 | 279.8 | 277.2 | 274.6 |
| 80° | 195.4 | 200.6 | 198.0 | 192.7 | 192.7 |
| 82.5° | 126.7 | 129.4 | 126.7 | 124.1 | 124.1 |
| 85° | 66.0 | 71.3 | 68.6 | 66.0 | 66.0 |
| 87.5° | 23.8 | 26.4 | 29.0 | 31.7 | 31.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)