

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: P257319

Luminaire Tested: **D3X-WD-31L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L840-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.8 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

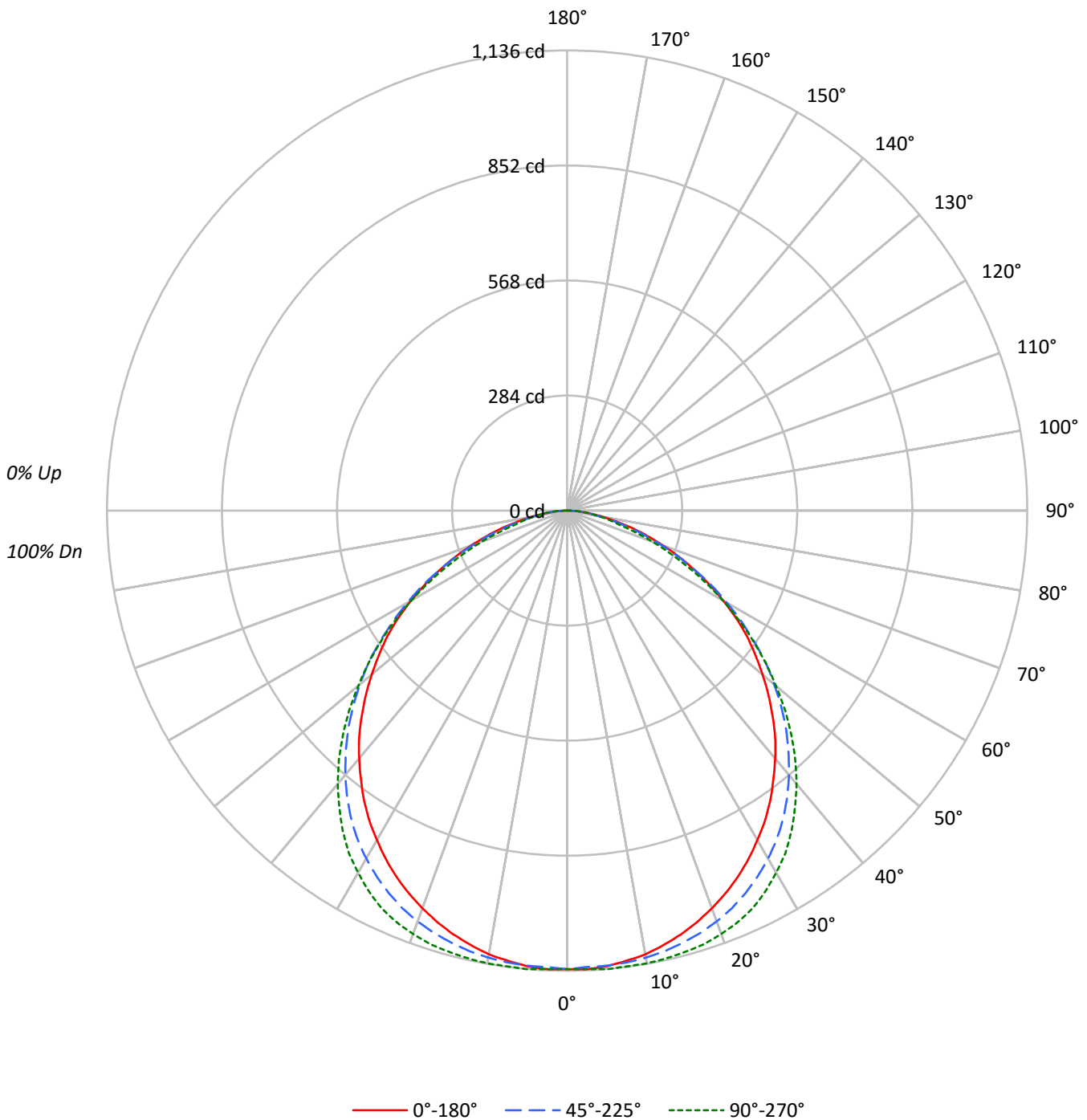
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 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 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3046 | 3046 | 3046 |
| 5° | 3050 | 3046 | 3069 |
| 10° | 3040 | 3063 | 3101 |
| 15° | 3019 | 3076 | 3142 |
| 20° | 2991 | 3091 | 3186 |
| 25° | 2961 | 3093 | 3217 |
| 30° | 2918 | 3082 | 3207 |
| 35° | 2871 | 3053 | 3172 |
| 40° | 2807 | 2992 | 3094 |
| 45° | 2729 | 2909 | 2978 |
| 50° | 2637 | 2794 | 2817 |
| 55° | 2545 | 2642 | 2630 |
| 60° | 2397 | 2449 | 2389 |
| 65° | 2208 | 2217 | 2094 |
| 70° | 1976 | 1932 | 1758 |
| 75° | 1717 | 1601 | 1356 |
| 80° | 1376 | 1247 | 1247 |
| 85° | 985 | 1158 | 1198 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.7 | 3.5 |
| 10°-20° | 312.5 | 10.1 |
| 20°-30° | 479.8 | 15.4 |
| 30°-40° | 577.9 | 18.6 |
| 40°-50° | 584.0 | 18.8 |
| 50°-60° | 498.1 | 16.0 |
| 60°-70° | 341.0 | 11.0 |
| 70°-80° | 164.5 | 5.3 |
| 80°-90° | 42.4 | 1.4 |
| 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° | 900.0 | 29.0 |
| 0°-40° | 1477.8 | 47.6 |
| 0°-60° | 2559.9 | 82.4 |
| 0°-90° | 3107.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3107.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1132 | 1132 | 1132 | 1132 | 1132 | |
| 5° | 1129 | 1129 | 1128 | 1135 | 1136 | 107 |
| 15° | 1084 | 1092 | 1104 | 1124 | 1128 | 306 |
| 25° | 997 | 1013 | 1042 | 1072 | 1084 | 459 |
| 35° | 874 | 893 | 930 | 959 | 966 | 546 |
| 45° | 717 | 737 | 764 | 782 | 782 | 553 |
| 55° | 542 | 552 | 563 | 566 | 560 | 483 |
| 65° | 347 | 351 | 348 | 336 | 329 | 344 |
| 75° | 165 | 165 | 154 | 136 | 130 | 175 |
| 85° | 32 | 35 | 38 | 39 | 39 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1132.0 | 1132.0 | 1132.0 | 1132.0 | 1132.0 |
| 2.5° | 1133.4 | 1132.0 | 1127.8 | 1133.4 | 1133.4 |
| 5° | 1129.2 | 1129.2 | 1127.8 | 1134.8 | 1136.2 |
| 7.5° | 1120.9 | 1123.7 | 1125.1 | 1133.4 | 1134.8 |
| 10° | 1112.6 | 1115.4 | 1120.9 | 1132.0 | 1134.8 |
| 12.5° | 1098.7 | 1104.3 | 1114.0 | 1129.2 | 1132.0 |
| 15° | 1083.5 | 1091.8 | 1104.3 | 1123.7 | 1127.8 |
| 17.5° | 1065.4 | 1076.5 | 1093.2 | 1115.4 | 1122.3 |
| 20° | 1044.6 | 1057.1 | 1079.3 | 1104.3 | 1112.6 |
| 22.5° | 1022.4 | 1036.3 | 1062.6 | 1091.8 | 1100.1 |
| 25° | 997.4 | 1012.7 | 1041.8 | 1072.4 | 1083.5 |
| 27.5° | 969.7 | 986.3 | 1018.3 | 1050.2 | 1059.9 |
| 30° | 939.2 | 957.2 | 991.9 | 1023.8 | 1032.1 |
| 32.5° | 908.7 | 926.7 | 962.8 | 993.3 | 1003.0 |
| 35° | 874.0 | 893.4 | 929.5 | 958.6 | 965.5 |
| 37.5° | 836.5 | 855.9 | 892.0 | 921.1 | 923.9 |
| 40° | 799.1 | 818.5 | 851.8 | 878.1 | 880.9 |
| 42.5° | 760.2 | 778.3 | 808.8 | 831.0 | 833.7 |
| 45° | 717.2 | 736.6 | 764.4 | 782.4 | 782.4 |
| 47.5° | 674.2 | 693.6 | 717.2 | 729.7 | 729.7 |
| 50° | 629.8 | 647.9 | 667.3 | 674.2 | 672.8 |
| 52.5° | 585.4 | 602.1 | 618.7 | 620.1 | 617.3 |
| 55° | 542.4 | 552.1 | 563.2 | 566.0 | 560.5 |
| 57.5° | 495.3 | 503.6 | 510.5 | 506.4 | 502.2 |
| 60° | 445.3 | 453.6 | 455.0 | 448.1 | 443.9 |
| 62.5° | 396.8 | 403.7 | 403.7 | 392.6 | 385.7 |
| 65° | 346.8 | 351.0 | 348.2 | 335.7 | 328.8 |
| 67.5° | 299.7 | 302.4 | 296.9 | 284.4 | 273.3 |
| 70° | 251.1 | 252.5 | 245.5 | 230.3 | 223.4 |
| 72.5° | 206.7 | 208.1 | 199.8 | 181.7 | 173.4 |
| 75° | 165.1 | 165.1 | 154.0 | 136.0 | 130.4 |
| 77.5° | 123.5 | 127.6 | 115.1 | 105.4 | 105.4 |
| 80° | 88.8 | 92.9 | 80.5 | 81.8 | 80.5 |
| 82.5° | 58.3 | 62.4 | 58.3 | 58.3 | 58.3 |
| 85° | 31.9 | 34.7 | 37.5 | 38.8 | 38.8 |
| 87.5° | 9.7 | 16.6 | 18.0 | 19.4 | 22.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)