

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: P257440

Luminaire Tested: **D3X-WG-31L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L830-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (112) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2978.1 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

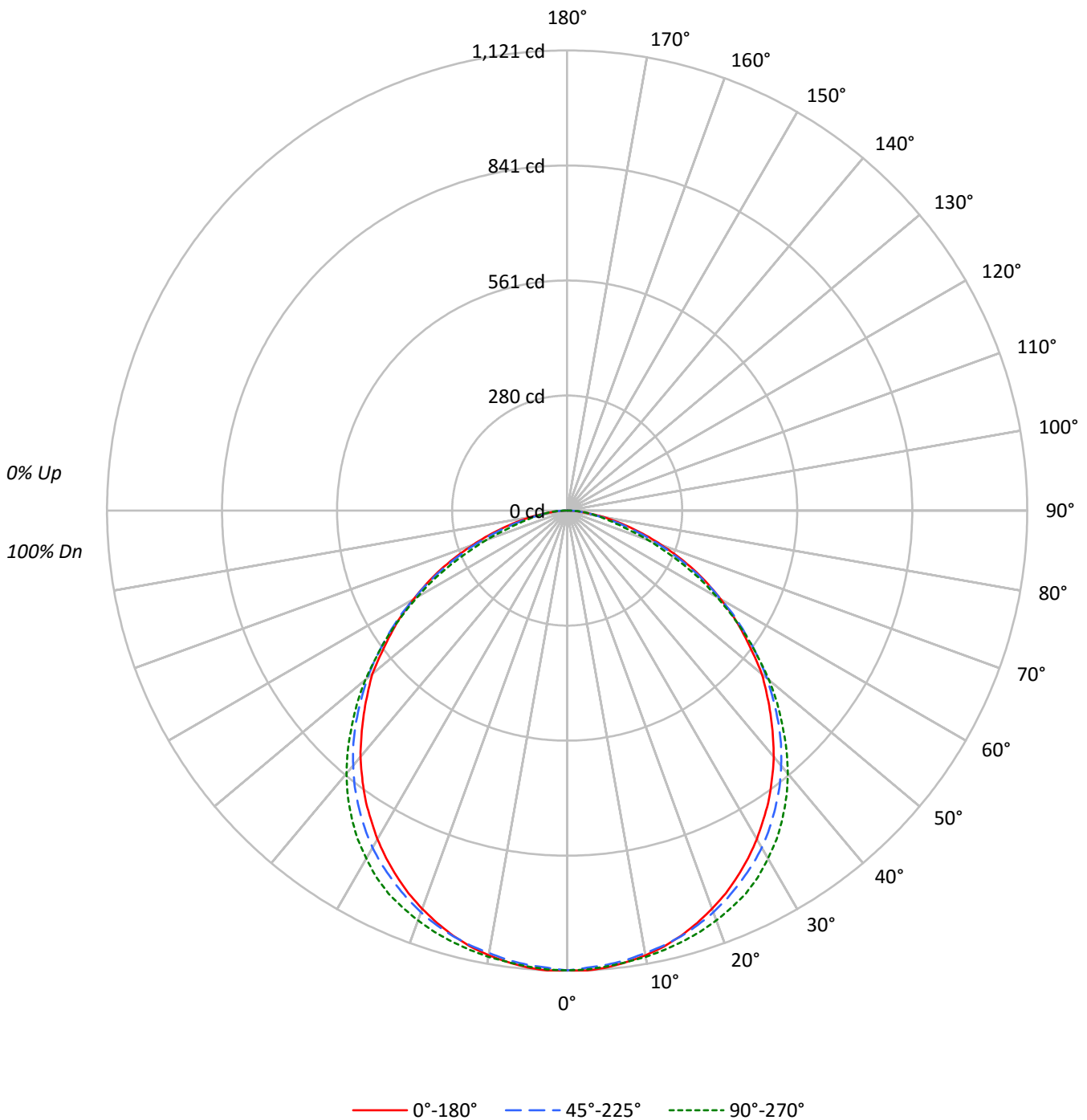
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 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 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 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 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3014 | 3014 | 3014 |
| 5° | 3018 | 3000 | 3011 |
| 10° | 3006 | 2991 | 3017 |
| 15° | 2987 | 2990 | 3027 |
| 20° | 2956 | 2982 | 3043 |
| 25° | 2918 | 2966 | 3056 |
| 30° | 2872 | 2946 | 3041 |
| 35° | 2817 | 2905 | 3006 |
| 40° | 2751 | 2849 | 2938 |
| 45° | 2666 | 2767 | 2823 |
| 50° | 2593 | 2659 | 2687 |
| 55° | 2462 | 2512 | 2499 |
| 60° | 2329 | 2329 | 2265 |
| 65° | 2162 | 2111 | 1993 |
| 70° | 1917 | 1834 | 1655 |
| 75° | 1661 | 1510 | 1274 |
| 80° | 1362 | 1176 | 1156 |
| 85° | 905 | 1068 | 1152 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.9 | 3.6 |
| 10°-20° | 304.0 | 10.2 |
| 20°-30° | 462.0 | 15.5 |
| 30°-40° | 553.1 | 18.6 |
| 40°-50° | 557.9 | 18.7 |
| 50°-60° | 475.2 | 16.0 |
| 60°-70° | 324.9 | 10.9 |
| 70°-80° | 155.6 | 5.2 |
| 80°-90° | 39.4 | 1.3 |
| 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° | 871.8 | 29.3 |
| 0°-40° | 1425.0 | 47.8 |
| 0°-60° | 2458.1 | 82.5 |
| 0°-90° | 2978.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2978.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1120 | 1120 | 1120 | 1120 | 1120 | |
| 5° | 1117 | 1116 | 1111 | 1116 | 1115 | 106 |
| 15° | 1072 | 1069 | 1073 | 1085 | 1087 | 302 |
| 25° | 983 | 984 | 999 | 1021 | 1029 | 453 |
| 35° | 858 | 860 | 884 | 910 | 915 | 536 |
| 45° | 700 | 706 | 727 | 742 | 742 | 541 |
| 55° | 525 | 527 | 535 | 537 | 533 | 470 |
| 65° | 340 | 333 | 332 | 320 | 313 | 335 |
| 75° | 160 | 157 | 145 | 126 | 122 | 171 |
| 85° | 29 | 32 | 35 | 36 | 37 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P257440

CATALOG NUMBER: D3X-WG-31L830-LD5-UNV-14-T1-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1120.0 | 1120.0 | 1120.0 | 1120.0 | 1120.0 |
| 2.5° | 1121.3 | 1120.0 | 1114.7 | 1120.0 | 1118.7 |
| 5° | 1117.3 | 1116.0 | 1110.7 | 1116.0 | 1114.7 |
| 7.5° | 1109.3 | 1108.0 | 1104.0 | 1109.3 | 1109.3 |
| 10° | 1100.0 | 1097.4 | 1094.7 | 1102.7 | 1104.0 |
| 12.5° | 1088.0 | 1085.4 | 1085.4 | 1094.7 | 1096.0 |
| 15° | 1072.1 | 1069.4 | 1073.4 | 1085.4 | 1086.7 |
| 17.5° | 1053.4 | 1052.1 | 1058.7 | 1073.4 | 1076.0 |
| 20° | 1032.1 | 1030.8 | 1041.4 | 1058.7 | 1062.7 |
| 22.5° | 1009.5 | 1009.5 | 1021.4 | 1041.4 | 1046.7 |
| 25° | 982.8 | 984.2 | 998.8 | 1021.4 | 1029.4 |
| 27.5° | 954.9 | 957.5 | 974.8 | 1000.1 | 1006.8 |
| 30° | 924.2 | 928.2 | 948.2 | 972.2 | 978.8 |
| 32.5° | 890.9 | 894.9 | 917.6 | 942.9 | 949.5 |
| 35° | 857.6 | 860.3 | 884.3 | 909.6 | 914.9 |
| 37.5° | 820.4 | 824.3 | 849.7 | 872.3 | 877.6 |
| 40° | 783.1 | 787.1 | 811.0 | 832.3 | 836.3 |
| 42.5° | 741.8 | 747.1 | 771.1 | 788.4 | 791.1 |
| 45° | 700.5 | 705.8 | 727.1 | 741.8 | 741.8 |
| 47.5° | 659.2 | 661.9 | 680.5 | 695.2 | 693.8 |
| 50° | 619.3 | 617.9 | 635.2 | 641.9 | 641.9 |
| 52.5° | 570.0 | 574.0 | 586.0 | 590.0 | 586.0 |
| 55° | 524.7 | 527.4 | 535.4 | 536.7 | 532.7 |
| 57.5° | 480.8 | 479.4 | 486.1 | 482.1 | 476.8 |
| 60° | 432.8 | 432.8 | 432.8 | 428.8 | 420.8 |
| 62.5° | 386.2 | 383.5 | 382.2 | 372.9 | 368.9 |
| 65° | 339.6 | 332.9 | 331.6 | 319.6 | 313.0 |
| 67.5° | 290.3 | 287.7 | 281.0 | 269.0 | 257.0 |
| 70° | 243.7 | 241.0 | 233.1 | 218.4 | 210.4 |
| 72.5° | 201.1 | 198.4 | 187.8 | 170.5 | 159.8 |
| 75° | 159.8 | 157.1 | 145.2 | 126.5 | 122.5 |
| 77.5° | 121.2 | 119.9 | 107.9 | 98.5 | 97.2 |
| 80° | 87.9 | 86.6 | 75.9 | 75.9 | 74.6 |
| 82.5° | 55.9 | 55.9 | 53.3 | 54.6 | 55.9 |
| 85° | 29.3 | 32.0 | 34.6 | 36.0 | 37.3 |
| 87.5° | 9.3 | 14.6 | 17.3 | 18.6 | 17.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)