

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: G3-1806-819-7

Luminaire Tested: **D3X-WO-31L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1806-819-7
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2968.6 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

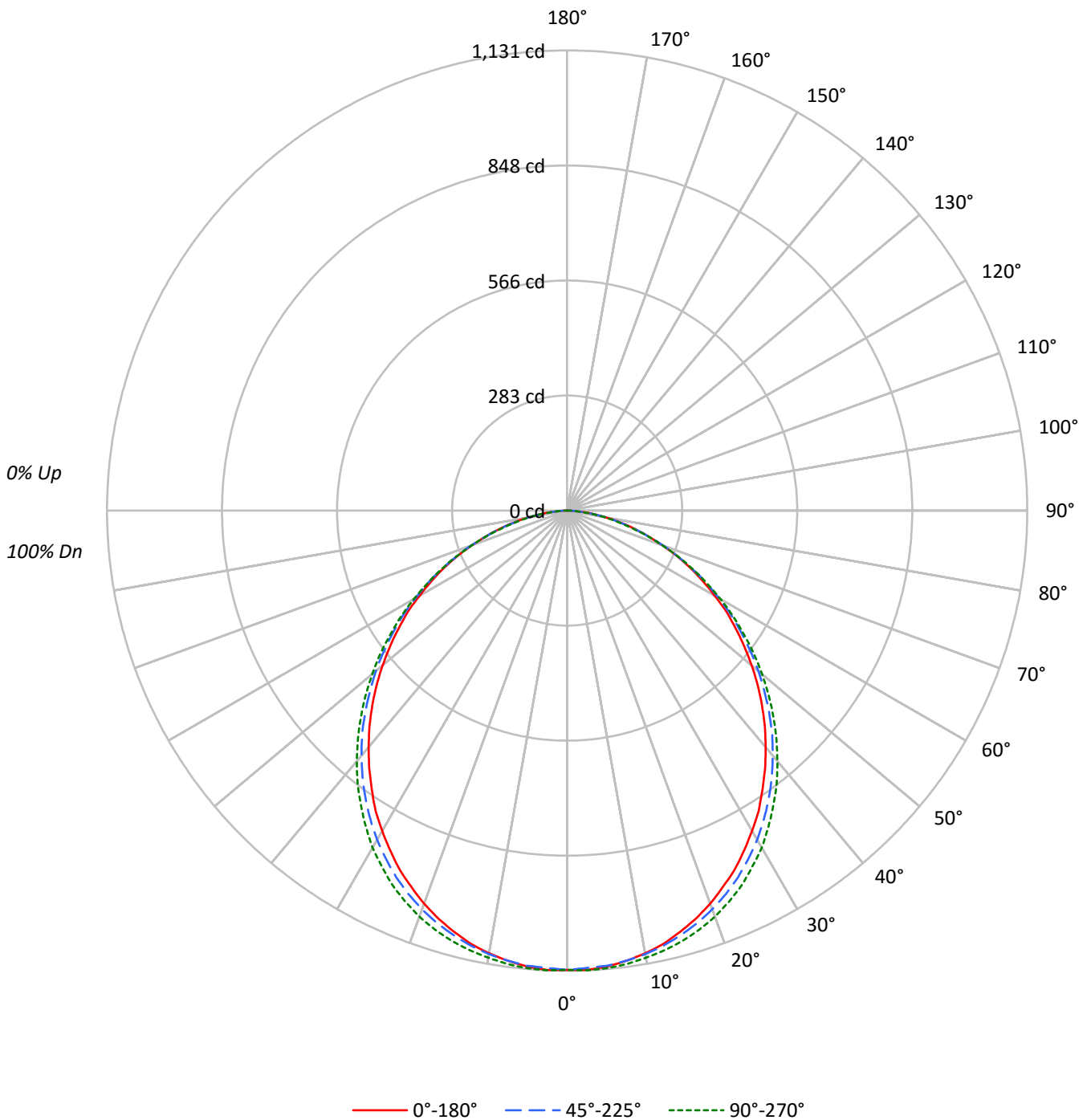
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 100 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 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 | 41 | 39 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 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° | 1519 | 1519 | 1519 |
| 5° | 1519 | 1517 | 1525 |
| 10° | 1510 | 1512 | 1525 |
| 15° | 1493 | 1504 | 1525 |
| 20° | 1472 | 1493 | 1521 |
| 25° | 1446 | 1476 | 1508 |
| 30° | 1412 | 1451 | 1487 |
| 35° | 1375 | 1419 | 1452 |
| 40° | 1333 | 1381 | 1412 |
| 45° | 1288 | 1336 | 1364 |
| 50° | 1239 | 1285 | 1308 |
| 55° | 1187 | 1225 | 1243 |
| 60° | 1128 | 1157 | 1171 |
| 65° | 1063 | 1079 | 1086 |
| 70° | 976 | 987 | 976 |
| 75° | 879 | 873 | 847 |
| 80° | 744 | 736 | 713 |
| 85° | 556 | 540 | 479 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.9 | 3.6 |
| 10°-20° | 305.4 | 10.3 |
| 20°-30° | 457.8 | 15.4 |
| 30°-40° | 539.2 | 18.2 |
| 40°-50° | 539.3 | 18.2 |
| 50°-60° | 465.3 | 15.7 |
| 60°-70° | 334.8 | 11.3 |
| 70°-80° | 177.6 | 6.0 |
| 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° | 870.1 | 29.3 |
| 0°-40° | 1409.3 | 47.5 |
| 0°-60° | 2413.8 | 81.3 |
| 0°-90° | 2968.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2968.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1129 | 1129 | 1129 | 1129 | 1129 | |
| 5° | 1125 | 1124 | 1123 | 1127 | 1129 | 107 |
| 15° | 1072 | 1075 | 1080 | 1091 | 1095 | 302 |
| 25° | 974 | 980 | 994 | 1011 | 1016 | 448 |
| 35° | 837 | 847 | 864 | 879 | 884 | 524 |
| 45° | 677 | 686 | 702 | 714 | 717 | 522 |
| 55° | 506 | 511 | 522 | 531 | 530 | 453 |
| 65° | 334 | 335 | 339 | 341 | 341 | 330 |
| 75° | 169 | 167 | 168 | 164 | 163 | 180 |
| 85° | 36 | 36 | 35 | 32 | 31 | 44 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: G3-1806-819-7

CATALOG NUMBER: D3X-WO-31L830-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 1129 | 1129 | 1129 | 1129 | 1129 |
| 2.5° | 1130 | 1128 | 1125 | 1129 | 1131 |
| 5° | 1125 | 1124 | 1123 | 1127 | 1129 |
| 7.5° | 1116 | 1117 | 1116 | 1122 | 1124 |
| 10° | 1105 | 1106 | 1107 | 1114 | 1116 |
| 12.5° | 1091 | 1092 | 1095 | 1104 | 1107 |
| 15° | 1072 | 1075 | 1080 | 1091 | 1095 |
| 17.5° | 1052 | 1056 | 1063 | 1076 | 1080 |
| 20° | 1028 | 1033 | 1043 | 1057 | 1062 |
| 22.5° | 1001 | 1006 | 1020 | 1035 | 1040 |
| 25° | 974 | 980 | 994 | 1011 | 1016 |
| 27.5° | 942 | 950 | 965 | 982 | 986 |
| 30° | 909 | 916 | 934 | 950 | 957 |
| 32.5° | 876 | 883 | 900 | 916 | 921 |
| 35° | 837 | 847 | 864 | 879 | 884 |
| 37.5° | 799 | 808 | 826 | 841 | 846 |
| 40° | 759 | 767 | 786 | 800 | 804 |
| 42.5° | 719 | 727 | 746 | 757 | 761 |
| 45° | 677 | 686 | 702 | 714 | 717 |
| 47.5° | 635 | 642 | 657 | 668 | 672 |
| 50° | 592 | 599 | 614 | 623 | 625 |
| 52.5° | 549 | 554 | 568 | 576 | 579 |
| 55° | 506 | 511 | 522 | 531 | 530 |
| 57.5° | 465 | 467 | 478 | 484 | 484 |
| 60° | 419 | 421 | 430 | 434 | 435 |
| 62.5° | 376 | 379 | 386 | 387 | 387 |
| 65° | 334 | 335 | 339 | 341 | 341 |
| 67.5° | 292 | 291 | 295 | 295 | 294 |
| 70° | 248 | 250 | 251 | 249 | 248 |
| 72.5° | 208 | 207 | 207 | 206 | 206 |
| 75° | 169 | 167 | 168 | 164 | 163 |
| 77.5° | 133 | 130 | 129 | 127 | 125 |
| 80° | 96 | 96 | 95 | 93 | 92 |
| 82.5° | 64 | 64 | 63 | 61 | 59 |
| 85° | 36 | 36 | 35 | 32 | 31 |
| 87.5° | 12 | 12 | 12 | 12 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)