

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: P257405

Luminaire Tested: **D3X-WG-31L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
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-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.2 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

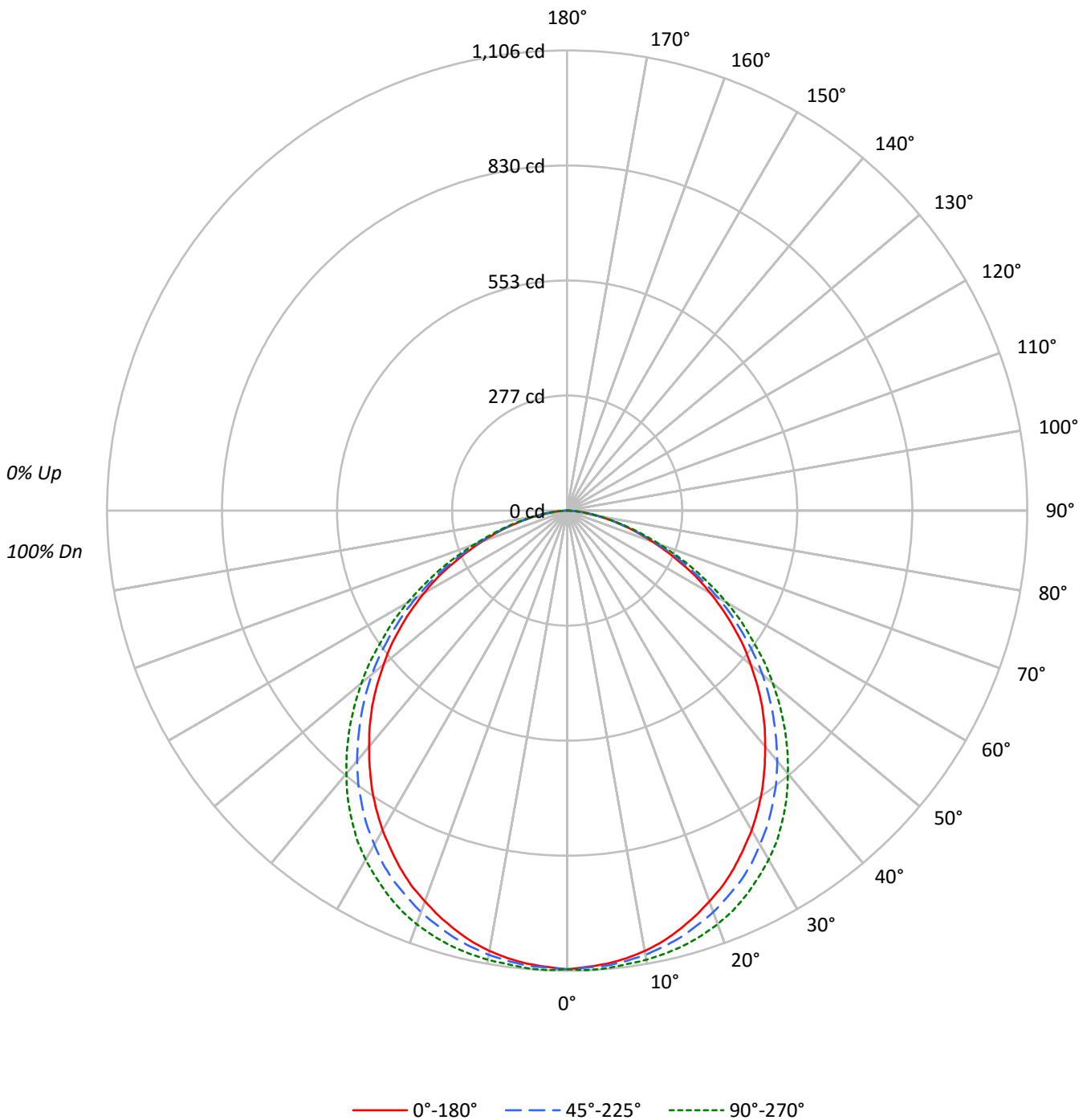
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | | 83 | 79 | 76 | | 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 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | | 59 | 53 | 48 | | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | | 54 | 47 | 42 | | 52 | 47 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | | 49 | 43 | 38 | | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | | 45 | 39 | 34 | | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | | 42 | 35 | 30 | | 41 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | | 39 | 32 | 28 | | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2967 | 2967 | 2967 |
| 5° | 2953 | 2966 | 2982 |
| 10° | 2937 | 2962 | 2996 |
| 15° | 2904 | 2956 | 3016 |
| 20° | 2862 | 2941 | 3029 |
| 25° | 2816 | 2922 | 3027 |
| 30° | 2756 | 2880 | 3010 |
| 35° | 2686 | 2828 | 2969 |
| 40° | 2602 | 2759 | 2899 |
| 45° | 2520 | 2666 | 2813 |
| 50° | 2411 | 2566 | 2701 |
| 55° | 2290 | 2420 | 2550 |
| 60° | 2138 | 2254 | 2387 |
| 65° | 1951 | 2039 | 2157 |
| 70° | 1708 | 1781 | 1854 |
| 75° | 1457 | 1489 | 1553 |
| 80° | 1170 | 1193 | 1216 |
| 85° | 855 | 809 | 760 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.4 | 3.6 |
| 10°-20° | 299.5 | 10.3 |
| 20°-30° | 452.8 | 15.6 |
| 30°-40° | 537.8 | 18.5 |
| 40°-50° | 539.9 | 18.6 |
| 50°-60° | 461.2 | 15.9 |
| 60°-70° | 317.8 | 11.0 |
| 70°-80° | 154.1 | 5.3 |
| 80°-90° | 33.7 | 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° | 856.7 | 29.5 |
| 0°-40° | 1394.5 | 48.1 |
| 0°-60° | 2395.7 | 82.6 |
| 0°-90° | 2901.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2901.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1102 | 1102 | 1102 | 1102 | 1102 | |
| 5° | 1093 | 1093 | 1098 | 1101 | 1104 | 104 |
| 15° | 1042 | 1047 | 1061 | 1075 | 1082 | 294 |
| 25° | 948 | 956 | 984 | 1010 | 1019 | 437 |
| 35° | 818 | 830 | 861 | 893 | 904 | 511 |
| 45° | 662 | 671 | 701 | 730 | 739 | 510 |
| 55° | 488 | 496 | 516 | 537 | 544 | 436 |
| 65° | 306 | 306 | 320 | 334 | 339 | 304 |
| 75° | 140 | 137 | 143 | 146 | 149 | 151 |
| 85° | 28 | 28 | 26 | 25 | 25 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P257405

CATALOG NUMBER: D3X-WG-31L830-LD5-UNV-22-T1-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1102.5 | 1102.5 | 1102.5 | 1102.5 | <i>1102.5</i> |
| 2.5° | <i>1097.9</i> | <i>1097.9</i> | <i>1099.4</i> | <i>1104.1</i> | <i>1105.6</i> |
| 5° | 1093.3 | 1093.3 | 1097.9 | 1101.0 | <i>1104.1</i> |
| 7.5° | 1085.6 | 1087.1 | 1091.7 | 1097.9 | <i>1099.4</i> |
| 10° | 1074.8 | 1076.3 | 1084.0 | 1091.7 | <i>1096.4</i> |
| 12.5° | 1060.9 | 1064.0 | 1073.3 | 1085.6 | <i>1090.2</i> |
| 15° | 1042.5 | 1047.1 | 1060.9 | 1074.8 | <i>1082.5</i> |
| 17.5° | 1022.5 | 1028.6 | 1044.0 | 1064.0 | <i>1071.7</i> |
| 20° | 999.4 | 1007.1 | 1027.1 | 1048.6 | <i>1057.9</i> |
| 22.5° | 976.3 | 982.4 | 1005.5 | 1030.1 | <i>1040.9</i> |
| 25° | 948.5 | 956.2 | 984.0 | 1010.1 | <i>1019.4</i> |
| 27.5° | 917.7 | 928.5 | 957.8 | 985.5 | <i>994.7</i> |
| 30° | 886.9 | 896.2 | 927.0 | 957.8 | <i>968.6</i> |
| 32.5° | 853.1 | 862.3 | 896.2 | 927.0 | <i>939.3</i> |
| 35° | 817.7 | 830.0 | 860.8 | 893.1 | <i>903.9</i> |
| 37.5° | 779.2 | 793.0 | 825.4 | 853.1 | <i>866.9</i> |
| 40° | 740.7 | 753.0 | 785.3 | 814.6 | <i>825.4</i> |
| 42.5° | 702.2 | 712.9 | 743.7 | 774.5 | <i>783.8</i> |
| 45° | 662.1 | 671.4 | 700.6 | 729.9 | <i>739.1</i> |
| 47.5° | 619.0 | 629.8 | 657.5 | 682.1 | <i>692.9</i> |
| 50° | 575.9 | 586.7 | 612.9 | 636.0 | <i>645.2</i> |
| 52.5° | 534.3 | 540.5 | 565.1 | 586.7 | <i>597.5</i> |
| 55° | 488.1 | 495.8 | 515.8 | 537.4 | <i>543.6</i> |
| 57.5° | 443.5 | 448.1 | 468.1 | 486.6 | <i>495.8</i> |
| 60° | 397.3 | 400.4 | 418.8 | 432.7 | <i>443.5</i> |
| 62.5° | 354.2 | 354.2 | 368.0 | 383.4 | <i>389.6</i> |
| 65° | 306.4 | 306.4 | 320.3 | 334.1 | <i>338.8</i> |
| 67.5° | 260.2 | 263.3 | 272.6 | 283.3 | <i>286.4</i> |
| 70° | 217.1 | 217.1 | 226.4 | 234.1 | <i>235.6</i> |
| 72.5° | 178.6 | 177.1 | 181.7 | 187.9 | <i>190.9</i> |
| 75° | 140.1 | 137.0 | 143.2 | 146.3 | <i>149.4</i> |
| 77.5° | 106.2 | 104.7 | 107.8 | 110.9 | <i>110.9</i> |
| 80° | 75.5 | 73.9 | 77.0 | 77.0 | <i>78.5</i> |
| 82.5° | 49.3 | 50.8 | 50.8 | 49.3 | <i>47.7</i> |
| 85° | 27.7 | 27.7 | 26.2 | 24.6 | <i>24.6</i> |
| 87.5° | 9.2 | 9.2 | 9.2 | 10.8 | <i>10.8</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |

(END OF REPORT)