

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: P297411

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-31L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

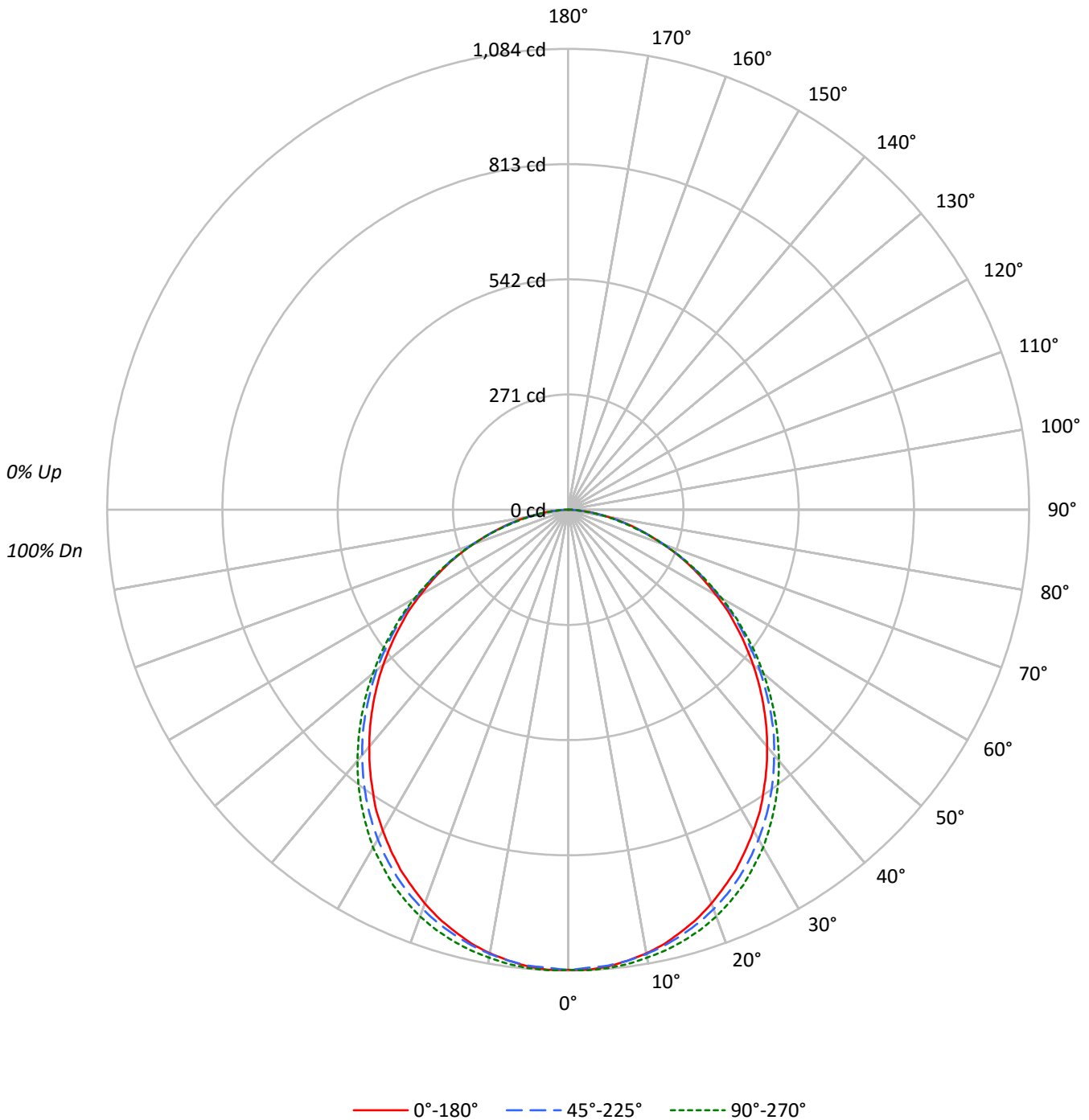
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 1456 | 1456 | 1456 |
| 5° | 1457 | 1454 | 1462 |
| 10° | 1447 | 1450 | 1462 |
| 15° | 1432 | 1442 | 1462 |
| 20° | 1411 | 1432 | 1458 |
| 25° | 1386 | 1415 | 1446 |
| 30° | 1354 | 1391 | 1425 |
| 35° | 1318 | 1361 | 1392 |
| 40° | 1278 | 1323 | 1354 |
| 45° | 1235 | 1281 | 1308 |
| 50° | 1188 | 1232 | 1254 |
| 55° | 1138 | 1174 | 1192 |
| 60° | 1081 | 1109 | 1122 |
| 65° | 1019 | 1035 | 1041 |
| 70° | 935 | 947 | 935 |
| 75° | 842 | 837 | 813 |
| 80° | 713 | 706 | 683 |
| 85° | 533 | 519 | 459 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.5 | 3.6 |
| 10°-20° | 292.7 | 10.3 |
| 20°-30° | 438.9 | 15.4 |
| 30°-40° | 516.9 | 18.2 |
| 40°-50° | 517.0 | 18.2 |
| 50°-60° | 446.1 | 15.7 |
| 60°-70° | 321.0 | 11.3 |
| 70°-80° | 170.3 | 6.0 |
| 80°-90° | 40.6 | 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° | 834.2 | 29.3 |
| 0°-40° | 1351.1 | 47.5 |
| 0°-60° | 2314.1 | 81.3 |
| 0°-90° | 2846.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2846.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1082 | 1082 | 1082 | 1082 | 1082 | |
| 5° | 1079 | 1078 | 1077 | 1080 | 1082 | 102 |
| 15° | 1028 | 1031 | 1035 | 1046 | 1050 | 290 |
| 25° | 934 | 940 | 953 | 969 | 974 | 430 |
| 35° | 802 | 812 | 828 | 843 | 848 | 502 |
| 45° | 649 | 658 | 673 | 684 | 687 | 501 |
| 55° | 485 | 490 | 500 | 509 | 508 | 434 |
| 65° | 320 | 321 | 325 | 327 | 327 | 317 |
| 75° | 162 | 160 | 161 | 157 | 156 | 172 |
| 85° | 34 | 34 | 34 | 31 | 30 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1082.4 | 1082.4 | 1082.4 | 1082.4 | 1082.4 |
| 2.5° | 1083.3 | 1081.4 | 1078.6 | 1082.4 | 1084.3 |
| 5° | 1078.6 | 1077.6 | 1076.6 | 1080.5 | 1082.4 |
| 7.5° | 1069.9 | 1070.9 | 1069.9 | 1075.7 | 1077.6 |
| 10° | 1059.4 | 1060.3 | 1061.3 | 1068.0 | 1069.9 |
| 12.5° | 1046.0 | 1046.9 | 1049.8 | 1058.4 | 1061.3 |
| 15° | 1027.7 | 1030.6 | 1035.4 | 1046.0 | 1049.8 |
| 17.5° | 1008.6 | 1012.4 | 1019.1 | 1031.6 | 1035.4 |
| 20° | 985.6 | 990.3 | 999.9 | 1013.4 | 1018.2 |
| 22.5° | 959.7 | 964.5 | 977.9 | 992.3 | 997.1 |
| 25° | 933.8 | 939.5 | 953.0 | 969.3 | 974.1 |
| 27.5° | 903.1 | 910.8 | 925.2 | 941.5 | 945.3 |
| 30° | 871.5 | 878.2 | 895.4 | 910.8 | 917.5 |
| 32.5° | 839.8 | 846.5 | 862.8 | 878.2 | 883.0 |
| 35° | 802.4 | 812.0 | 828.3 | 842.7 | 847.5 |
| 37.5° | 766.0 | 774.6 | 791.9 | 806.3 | 811.1 |
| 40° | 727.7 | 735.3 | 753.5 | 767.0 | 770.8 |
| 42.5° | 689.3 | 697.0 | 715.2 | 725.7 | 729.6 |
| 45° | 649.0 | 657.7 | 673.0 | 684.5 | 687.4 |
| 47.5° | 608.8 | 615.5 | 629.9 | 640.4 | 644.3 |
| 50° | 567.6 | 574.3 | 588.6 | 597.3 | 599.2 |
| 52.5° | 526.3 | 531.1 | 544.5 | 552.2 | 555.1 |
| 55° | 485.1 | 489.9 | 500.4 | 509.1 | 508.1 |
| 57.5° | 445.8 | 447.7 | 458.3 | 464.0 | 464.0 |
| 60° | 401.7 | 403.6 | 412.2 | 416.1 | 417.0 |
| 62.5° | 360.5 | 363.4 | 370.1 | 371.0 | 371.0 |
| 65° | 320.2 | 321.2 | 325.0 | 326.9 | 326.9 |
| 67.5° | 279.9 | 279.0 | 282.8 | 282.8 | 281.9 |
| 70° | 237.8 | 239.7 | 240.6 | 238.7 | 237.8 |
| 72.5° | 199.4 | 198.5 | 198.5 | 197.5 | 197.5 |
| 75° | 162.0 | 160.1 | 161.1 | 157.2 | 156.3 |
| 77.5° | 127.5 | 124.6 | 123.7 | 121.8 | 119.8 |
| 80° | 92.0 | 92.0 | 91.1 | 89.2 | 88.2 |
| 82.5° | 61.4 | 61.4 | 60.4 | 58.5 | 56.6 |
| 85° | 34.5 | 34.5 | 33.6 | 30.7 | 29.7 |
| 87.5° | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)