

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: P297835

Luminaire Tested: **D3X-WO-26L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-26L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2672.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

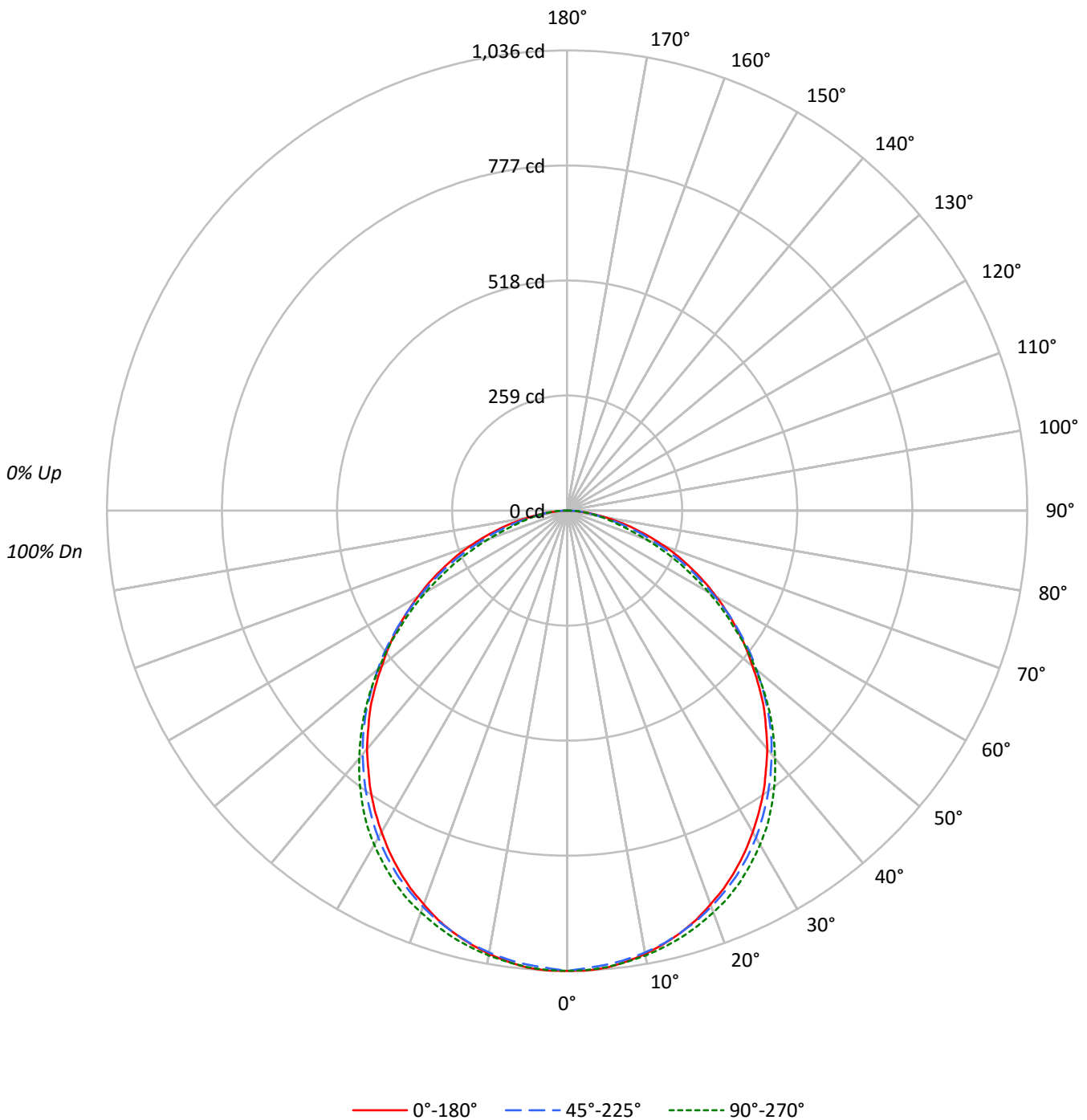
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297835

CATALOG NUMBER: D3X-WO-26L83050-LD5-UNV-14-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297835

CATALOG NUMBER: D3X-WO-26L83050-LD5-UNV-14-T1-W2A-3500K

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 | 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 | | | | | 100 | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 | | | | | 35 | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 29 | | | | | 29 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2789 | 2789 | 2789 |
| 5° | 2790 | 2772 | 2787 |
| 10° | 2770 | 2761 | 2779 |
| 15° | 2742 | 2742 | 2771 |
| 20° | 2702 | 2718 | 2757 |
| 25° | 2657 | 2687 | 2738 |
| 30° | 2597 | 2643 | 2699 |
| 35° | 2534 | 2582 | 2642 |
| 40° | 2463 | 2514 | 2558 |
| 45° | 2384 | 2435 | 2457 |
| 50° | 2281 | 2328 | 2319 |
| 55° | 2195 | 2211 | 2152 |
| 60° | 2085 | 2054 | 1975 |
| 65° | 1969 | 1890 | 1760 |
| 70° | 1827 | 1675 | 1489 |
| 75° | 1625 | 1437 | 1225 |
| 80° | 1351 | 1176 | 1141 |
| 85° | 979 | 1050 | 1050 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.8 | 3.7 |
| 10°-20° | 278.6 | 10.4 |
| 20°-30° | 417.6 | 15.6 |
| 30°-40° | 492.0 | 18.4 |
| 40°-50° | 490.7 | 18.4 |
| 50°-60° | 417.4 | 15.6 |
| 60°-70° | 291.3 | 10.9 |
| 70°-80° | 148.1 | 5.5 |
| 80°-90° | 38.7 | 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° | 794.0 | 29.7 |
| 0°-40° | 1285.9 | 48.1 |
| 0°-60° | 2194.0 | 82.1 |
| 0°-90° | 2672.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2672.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1036 | 1036 | 1036 | 1036 | 1036 | |
| 5° | 1033 | 1031 | 1026 | 1032 | 1032 | 98 |
| 15° | 984 | 984 | 984 | 993 | 994 | 277 |
| 25° | 895 | 896 | 905 | 919 | 922 | 412 |
| 35° | 771 | 772 | 786 | 802 | 804 | 482 |
| 45° | 626 | 629 | 640 | 644 | 646 | 482 |
| 55° | 468 | 468 | 471 | 464 | 459 | 418 |
| 65° | 309 | 305 | 297 | 281 | 276 | 307 |
| 75° | 156 | 151 | 138 | 121 | 118 | 166 |
| 85° | 32 | 33 | 34 | 34 | 34 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1036.4 | 1036.4 | 1036.4 | 1036.4 | 1036.4 |
| 2.5° | 1036.4 | 1035.2 | 1030.7 | 1035.2 | 1035.2 |
| 5° | 1033.0 | 1030.7 | 1026.2 | 1031.8 | 1031.8 |
| 7.5° | 1023.9 | 1022.8 | 1019.4 | 1025.0 | 1025.0 |
| 10° | 1013.7 | 1012.6 | 1010.3 | 1017.1 | 1017.1 |
| 12.5° | 1000.1 | 1000.1 | 999.0 | 1005.8 | 1006.9 |
| 15° | 984.3 | 984.3 | 984.3 | 993.3 | 994.5 |
| 17.5° | 966.2 | 965.0 | 968.4 | 978.6 | 979.7 |
| 20° | 943.5 | 944.6 | 949.2 | 960.5 | 962.8 |
| 22.5° | 920.8 | 922.0 | 927.6 | 941.2 | 944.6 |
| 25° | 894.8 | 895.9 | 905.0 | 918.6 | 922.0 |
| 27.5° | 866.5 | 868.7 | 878.9 | 893.7 | 895.9 |
| 30° | 835.9 | 838.2 | 850.6 | 865.3 | 868.7 |
| 32.5° | 804.2 | 807.6 | 818.9 | 834.8 | 839.3 |
| 35° | 771.3 | 772.5 | 786.1 | 801.9 | 804.2 |
| 37.5° | 735.1 | 738.5 | 752.1 | 765.7 | 767.9 |
| 40° | 701.1 | 703.4 | 715.8 | 727.2 | 728.3 |
| 42.5° | 662.6 | 666.0 | 679.6 | 687.5 | 687.5 |
| 45° | 626.4 | 628.6 | 639.9 | 644.5 | 645.6 |
| 47.5° | 585.6 | 587.8 | 598.0 | 600.3 | 600.3 |
| 50° | 544.8 | 550.5 | 556.1 | 556.1 | 553.9 |
| 52.5° | 507.4 | 508.6 | 515.4 | 510.8 | 508.6 |
| 55° | 467.8 | 467.8 | 471.2 | 464.4 | 458.7 |
| 57.5° | 428.1 | 428.1 | 428.1 | 419.1 | 414.6 |
| 60° | 387.4 | 386.2 | 381.7 | 370.4 | 367.0 |
| 62.5° | 348.9 | 345.5 | 338.7 | 327.3 | 320.5 |
| 65° | 309.2 | 304.7 | 296.8 | 280.9 | 276.4 |
| 67.5° | 271.8 | 263.9 | 254.8 | 240.1 | 232.2 |
| 70° | 232.2 | 225.4 | 212.9 | 195.9 | 189.2 |
| 72.5° | 193.7 | 186.9 | 176.7 | 159.7 | 149.5 |
| 75° | 156.3 | 150.6 | 138.2 | 121.2 | 117.8 |
| 77.5° | 120.1 | 116.7 | 104.2 | 96.3 | 95.1 |
| 80° | 87.2 | 86.1 | 75.9 | 73.6 | 73.6 |
| 82.5° | 57.8 | 56.6 | 53.2 | 53.2 | 52.1 |
| 85° | 31.7 | 32.8 | 34.0 | 34.0 | 34.0 |
| 87.5° | 11.3 | 13.6 | 15.9 | 15.9 | 15.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)