

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: P297562

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L83050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

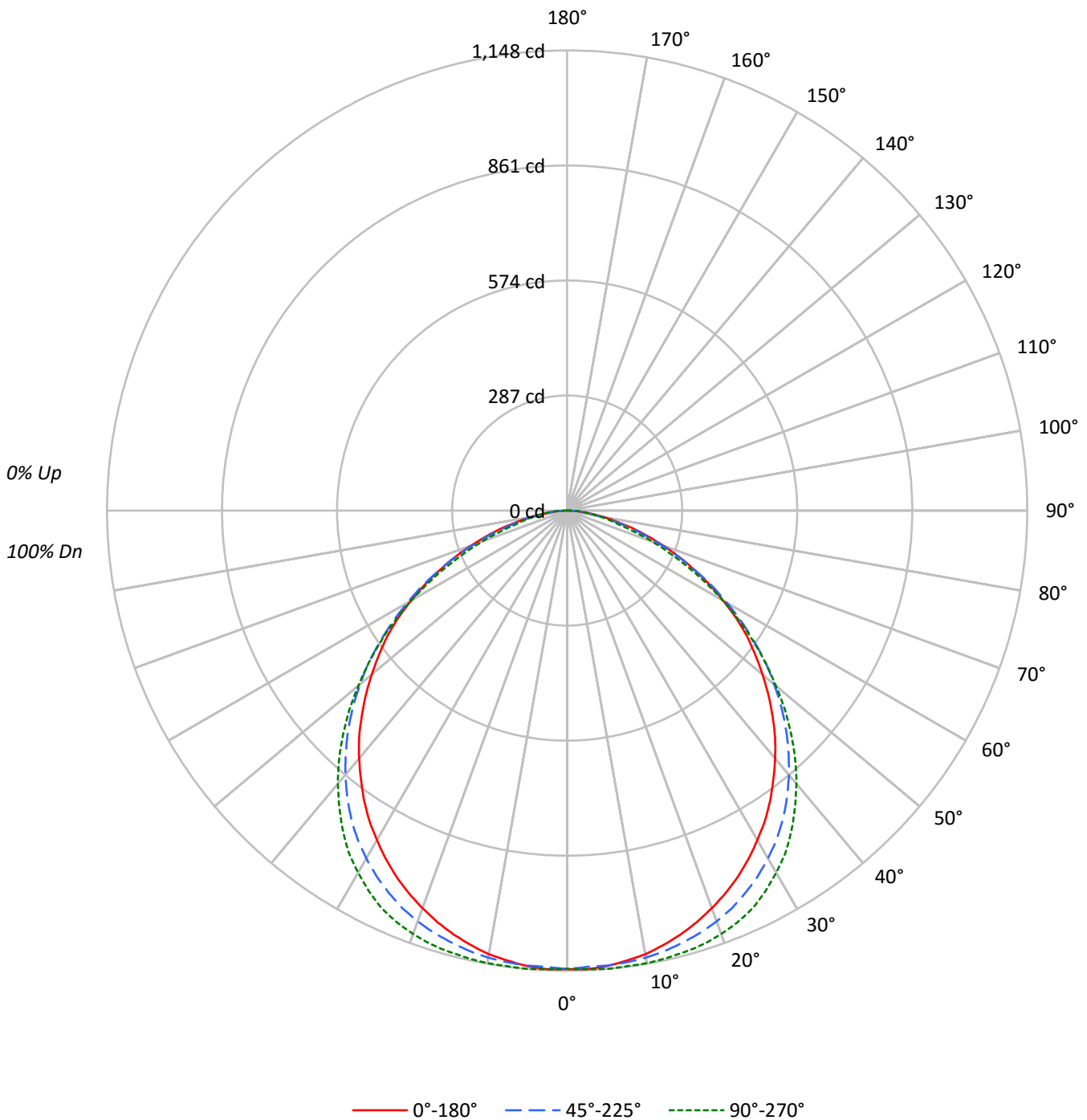
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297562

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Luminous Intensity Polar Plot





TEST NUMBER: P297562

CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-14-T1-W2A-4500K

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 | 92 | | 94 | 92 | 90 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | | 83 | 79 | 75 | | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | | 74 | 68 | 64 | | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | | 66 | 60 | 55 | | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 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 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | | 49 | 42 | 37 | | 48 | 42 | 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 | 27 | | 38 | 32 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3078 | 3078 | 3078 |
| 5° | 3082 | 3078 | 3101 |
| 10° | 3072 | 3095 | 3133 |
| 15° | 3050 | 3108 | 3175 |
| 20° | 3022 | 3123 | 3219 |
| 25° | 2992 | 3125 | 3250 |
| 30° | 2948 | 3114 | 3240 |
| 35° | 2901 | 3085 | 3205 |
| 40° | 2836 | 3023 | 3126 |
| 45° | 2758 | 2939 | 3008 |
| 50° | 2664 | 2822 | 2846 |
| 55° | 2571 | 2670 | 2657 |
| 60° | 2421 | 2474 | 2414 |
| 65° | 2231 | 2240 | 2115 |
| 70° | 1996 | 1952 | 1776 |
| 75° | 1734 | 1618 | 1370 |
| 80° | 1390 | 1260 | 1260 |
| 85° | 994 | 1167 | 1210 |



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CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-14-T1-W2A-4500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.8 | 3.5 |
| 10°-20° | 315.7 | 10.1 |
| 20°-30° | 484.8 | 15.4 |
| 30°-40° | 583.8 | 18.6 |
| 40°-50° | 590.0 | 18.8 |
| 50°-60° | 503.3 | 16.0 |
| 60°-70° | 344.5 | 11.0 |
| 70°-80° | 166.2 | 5.3 |
| 80°-90° | 42.8 | 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° | 909.3 | 29.0 |
| 0°-40° | 1493.1 | 47.6 |
| 0°-60° | 2586.4 | 82.4 |
| 0°-90° | 3140.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3140.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1144 | 1144 | 1144 | 1144 | 1144 | |
| 5° | 1141 | 1141 | 1140 | 1146 | 1148 | 108 |
| 15° | 1095 | 1103 | 1116 | 1135 | 1140 | 309 |
| 25° | 1008 | 1023 | 1053 | 1084 | 1095 | 464 |
| 35° | 883 | 903 | 939 | 968 | 976 | 552 |
| 45° | 725 | 744 | 772 | 790 | 790 | 559 |
| 55° | 548 | 558 | 569 | 572 | 566 | 488 |
| 65° | 350 | 355 | 352 | 339 | 332 | 348 |
| 75° | 167 | 167 | 156 | 137 | 132 | 177 |
| 85° | 32 | 35 | 38 | 39 | 39 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297562

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1143.7 | 1143.7 | 1143.7 | 1143.7 | 1143.7 |
| 2.5° | 1145.1 | 1143.7 | 1139.5 | 1145.1 | 1145.1 |
| 5° | 1140.9 | 1140.9 | 1139.5 | 1146.5 | 1147.9 |
| 7.5° | 1132.5 | 1135.3 | 1136.7 | 1145.1 | 1146.5 |
| 10° | 1124.1 | 1126.9 | 1132.5 | 1143.7 | 1146.5 |
| 12.5° | 1110.1 | 1115.7 | 1125.5 | 1140.9 | 1143.7 |
| 15° | 1094.7 | 1103.1 | 1115.7 | 1135.3 | 1139.5 |
| 17.5° | 1076.5 | 1087.7 | 1104.5 | 1126.9 | 1133.9 |
| 20° | 1055.4 | 1068.0 | 1090.5 | 1115.7 | 1124.1 |
| 22.5° | 1033.0 | 1047.0 | 1073.7 | 1103.1 | 1111.5 |
| 25° | 1007.8 | 1023.2 | 1052.6 | 1083.5 | 1094.7 |
| 27.5° | 979.7 | 996.6 | 1028.8 | 1061.0 | 1070.8 |
| 30° | 948.9 | 967.1 | 1002.2 | 1034.4 | 1042.8 |
| 32.5° | 918.1 | 936.3 | 972.7 | 1003.6 | 1013.4 |
| 35° | 883.0 | 902.7 | 939.1 | 968.5 | 975.5 |
| 37.5° | 845.2 | 864.8 | 901.3 | 930.7 | 933.5 |
| 40° | 807.3 | 827.0 | 860.6 | 887.2 | 890.0 |
| 42.5° | 768.1 | 786.3 | 817.2 | 839.6 | 842.4 |
| 45° | 724.6 | 744.3 | 772.3 | 790.5 | 790.5 |
| 47.5° | 681.2 | 700.8 | 724.6 | 737.3 | 737.3 |
| 50° | 636.3 | 654.6 | 674.2 | 681.2 | 679.8 |
| 52.5° | 591.5 | 608.3 | 625.1 | 626.5 | 623.7 |
| 55° | 548.0 | 557.9 | 569.1 | 571.9 | 566.3 |
| 57.5° | 500.4 | 508.8 | 515.8 | 511.6 | 507.4 |
| 60° | 449.9 | 458.3 | 459.7 | 452.7 | 448.5 |
| 62.5° | 400.9 | 407.9 | 407.9 | 396.7 | 389.7 |
| 65° | 350.4 | 354.6 | 351.8 | 339.2 | 332.2 |
| 67.5° | 302.8 | 305.6 | 299.9 | 287.3 | 276.1 |
| 70° | 253.7 | 255.1 | 248.1 | 232.7 | 225.7 |
| 72.5° | 208.8 | 210.2 | 201.8 | 183.6 | 175.2 |
| 75° | 166.8 | 166.8 | 155.6 | 137.4 | 131.8 |
| 77.5° | 124.7 | 129.0 | 116.3 | 106.5 | 106.5 |
| 80° | 89.7 | 93.9 | 81.3 | 82.7 | 81.3 |
| 82.5° | 58.9 | 63.1 | 58.9 | 58.9 | 58.9 |
| 85° | 32.2 | 35.0 | 37.8 | 39.2 | 39.2 |
| 87.5° | 9.8 | 16.8 | 18.2 | 19.6 | 22.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)