

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: P297679

Luminaire Tested: **D3X-WD-35L92765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297679
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-35L92765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3213.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

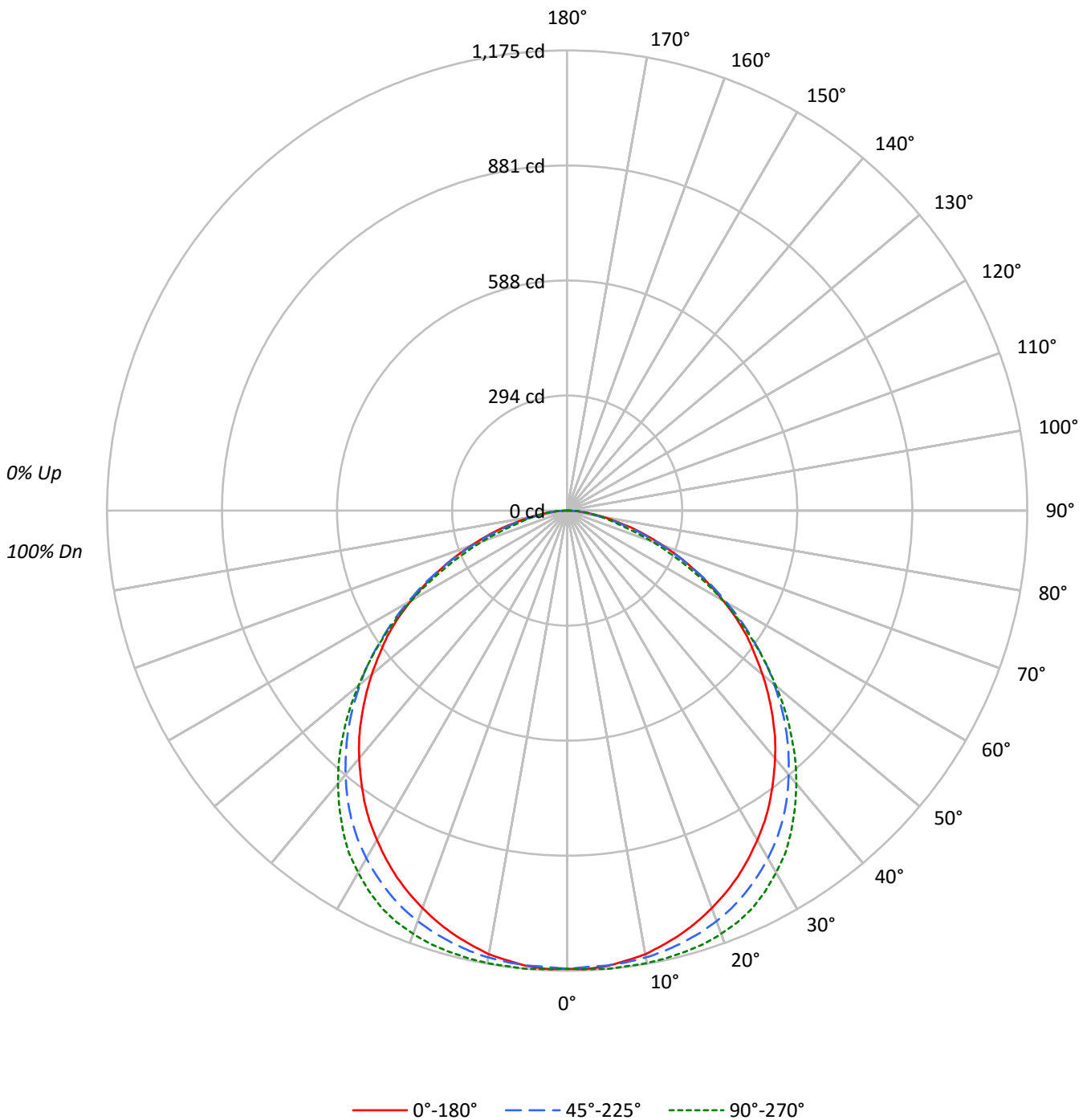
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 3149 | 3149 | 3149 |
| 5° | 3154 | 3150 | 3173 |
| 10° | 3143 | 3166 | 3206 |
| 15° | 3120 | 3180 | 3248 |
| 20° | 3093 | 3195 | 3294 |
| 25° | 3062 | 3198 | 3326 |
| 30° | 3017 | 3187 | 3316 |
| 35° | 2968 | 3157 | 3279 |
| 40° | 2902 | 3093 | 3199 |
| 45° | 2822 | 3008 | 3078 |
| 50° | 2726 | 2888 | 2912 |
| 55° | 2631 | 2732 | 2718 |
| 60° | 2478 | 2532 | 2470 |
| 65° | 2283 | 2292 | 2164 |
| 70° | 2043 | 1998 | 1817 |
| 75° | 1775 | 1655 | 1402 |
| 80° | 1423 | 1289 | 1289 |
| 85° | 1019 | 1195 | 1241 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.3 | 3.5 |
| 10°-20° | 323.1 | 10.1 |
| 20°-30° | 496.0 | 15.4 |
| 30°-40° | 597.4 | 18.6 |
| 40°-50° | 603.7 | 18.8 |
| 50°-60° | 515.0 | 16.0 |
| 60°-70° | 352.5 | 11.0 |
| 70°-80° | 170.1 | 5.3 |
| 80°-90° | 43.8 | 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° | 930.4 | 29.0 |
| 0°-40° | 1527.8 | 47.6 |
| 0°-60° | 2646.5 | 82.4 |
| 0°-90° | 3213.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3213.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1170 | 1170 | 1170 | 1170 | 1170 | |
| 5° | 1168 | 1168 | 1166 | 1173 | 1175 | 111 |
| 15° | 1120 | 1129 | 1142 | 1162 | 1166 | 316 |
| 25° | 1031 | 1047 | 1077 | 1109 | 1120 | 475 |
| 35° | 904 | 924 | 961 | 991 | 998 | 565 |
| 45° | 742 | 762 | 790 | 809 | 809 | 572 |
| 55° | 561 | 571 | 582 | 585 | 579 | 499 |
| 65° | 359 | 363 | 360 | 347 | 340 | 356 |
| 75° | 171 | 171 | 159 | 141 | 135 | 181 |
| 85° | 33 | 36 | 39 | 40 | 40 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1170.3 | 1170.3 | 1170.3 | 1170.3 | 1170.3 |
| 2.5° | 1171.8 | 1170.3 | 1166.0 | 1171.8 | 1171.8 |
| 5° | 1167.5 | 1167.5 | 1166.0 | 1173.2 | 1174.6 |
| 7.5° | 1158.8 | 1161.7 | 1163.2 | 1171.8 | 1173.2 |
| 10° | 1150.2 | 1153.1 | 1158.8 | 1170.3 | 1173.2 |
| 12.5° | 1135.9 | 1141.6 | 1151.7 | 1167.5 | 1170.3 |
| 15° | 1120.1 | 1128.7 | 1141.6 | 1161.7 | 1166.0 |
| 17.5° | 1101.5 | 1113.0 | 1130.2 | 1153.1 | 1160.3 |
| 20° | 1080.0 | 1092.9 | 1115.8 | 1141.6 | 1150.2 |
| 22.5° | 1057.0 | 1071.4 | 1098.6 | 1128.7 | 1137.3 |
| 25° | 1031.2 | 1047.0 | 1077.1 | 1108.7 | 1120.1 |
| 27.5° | 1002.5 | 1019.7 | 1052.7 | 1085.7 | 1095.7 |
| 30° | 971.0 | 989.6 | 1025.5 | 1058.5 | 1067.1 |
| 32.5° | 939.4 | 958.1 | 995.3 | 1026.9 | 1036.9 |
| 35° | 903.6 | 923.6 | 960.9 | 991.0 | 998.2 |
| 37.5° | 864.8 | 884.9 | 922.2 | 952.3 | 955.2 |
| 40° | 826.1 | 846.2 | 880.6 | 907.9 | 910.7 |
| 42.5° | 786.0 | 804.6 | 836.2 | 859.1 | 862.0 |
| 45° | 741.5 | 761.6 | 790.3 | 808.9 | 808.9 |
| 47.5° | 697.0 | 717.1 | 741.5 | 754.4 | 754.4 |
| 50° | 651.1 | 669.8 | 689.9 | 697.0 | 695.6 |
| 52.5° | 605.2 | 622.5 | 639.7 | 641.1 | 638.2 |
| 55° | 560.8 | 570.8 | 582.3 | 585.2 | 579.4 |
| 57.5° | 512.0 | 520.6 | 527.8 | 523.5 | 519.2 |
| 60° | 460.4 | 469.0 | 470.4 | 463.3 | 459.0 |
| 62.5° | 410.2 | 417.4 | 417.4 | 405.9 | 398.7 |
| 65° | 358.6 | 362.9 | 360.0 | 347.1 | 339.9 |
| 67.5° | 309.8 | 312.7 | 306.9 | 294.0 | 282.5 |
| 70° | 259.6 | 261.0 | 253.9 | 238.1 | 230.9 |
| 72.5° | 213.7 | 215.1 | 206.5 | 187.9 | 179.3 |
| 75° | 170.7 | 170.7 | 159.2 | 140.6 | 134.8 |
| 77.5° | 127.6 | 131.9 | 119.0 | 109.0 | 109.0 |
| 80° | 91.8 | 96.1 | 83.2 | 84.6 | 83.2 |
| 82.5° | 60.2 | 64.5 | 60.2 | 60.2 | 60.2 |
| 85° | 33.0 | 35.9 | 38.7 | 40.2 | 40.2 |
| 87.5° | 10.0 | 17.2 | 18.6 | 20.1 | 22.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)