

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: P297603

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297603
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-35L82765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3306.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

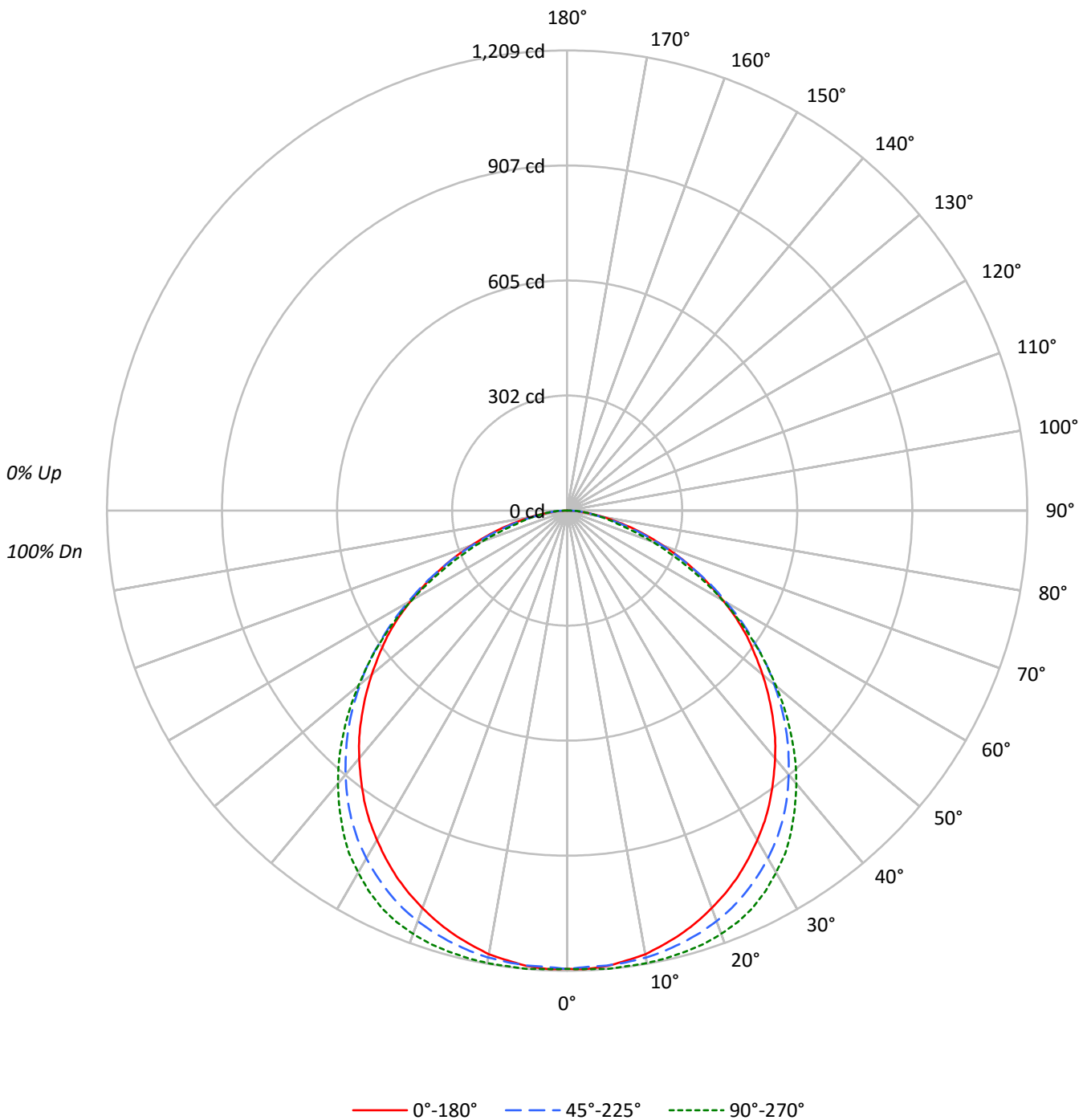
Input Watts (W): 33.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 3240 | 3240 | 3240 |
| 5° | 3245 | 3241 | 3265 |
| 10° | 3234 | 3258 | 3298 |
| 15° | 3211 | 3273 | 3343 |
| 20° | 3182 | 3288 | 3389 |
| 25° | 3151 | 3291 | 3422 |
| 30° | 3104 | 3278 | 3411 |
| 35° | 3054 | 3248 | 3374 |
| 40° | 2986 | 3183 | 3292 |
| 45° | 2904 | 3094 | 3167 |
| 50° | 2805 | 2972 | 2996 |
| 55° | 2707 | 2811 | 2797 |
| 60° | 2549 | 2605 | 2541 |
| 65° | 2349 | 2358 | 2227 |
| 70° | 2102 | 2055 | 1869 |
| 75° | 1826 | 1703 | 1442 |
| 80° | 1463 | 1327 | 1327 |
| 85° | 1047 | 1229 | 1275 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.5 | 3.5 |
| 10°-20° | 332.4 | 10.1 |
| 20°-30° | 510.4 | 15.4 |
| 30°-40° | 614.7 | 18.6 |
| 40°-50° | 621.2 | 18.8 |
| 50°-60° | 529.9 | 16.0 |
| 60°-70° | 362.7 | 11.0 |
| 70°-80° | 175.0 | 5.3 |
| 80°-90° | 45.1 | 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° | 957.4 | 29.0 |
| 0°-40° | 1572.1 | 47.6 |
| 0°-60° | 2723.1 | 82.4 |
| 0°-90° | 3306.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3306.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1204 | 1204 | 1204 | 1204 | 1204 | |
| 5° | 1201 | 1201 | 1200 | 1207 | 1209 | 114 |
| 15° | 1152 | 1161 | 1175 | 1195 | 1200 | 325 |
| 25° | 1061 | 1077 | 1108 | 1141 | 1152 | 489 |
| 35° | 930 | 950 | 989 | 1020 | 1027 | 581 |
| 45° | 763 | 784 | 813 | 832 | 832 | 588 |
| 55° | 577 | 587 | 599 | 602 | 596 | 514 |
| 65° | 369 | 373 | 370 | 357 | 350 | 366 |
| 75° | 176 | 176 | 164 | 145 | 139 | 186 |
| 85° | 34 | 37 | 40 | 41 | 41 | 42 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1204.2 | 1204.2 | 1204.2 | 1204.2 | 1204.2 |
| 2.5° | 1205.7 | 1204.2 | 1199.8 | 1205.7 | 1205.7 |
| 5° | 1201.2 | 1201.2 | 1199.8 | 1207.1 | 1208.6 |
| 7.5° | 1192.4 | 1195.3 | 1196.8 | 1205.7 | 1207.1 |
| 10° | 1183.5 | 1186.5 | 1192.4 | 1204.2 | 1207.1 |
| 12.5° | 1168.8 | 1174.7 | 1185.0 | 1201.2 | 1204.2 |
| 15° | 1152.5 | 1161.4 | 1174.7 | 1195.3 | 1199.8 |
| 17.5° | 1133.4 | 1145.2 | 1162.9 | 1186.5 | 1193.9 |
| 20° | 1111.2 | 1124.5 | 1148.1 | 1174.7 | 1183.5 |
| 22.5° | 1087.6 | 1102.4 | 1130.4 | 1161.4 | 1170.3 |
| 25° | 1061.1 | 1077.3 | 1108.3 | 1140.7 | 1152.5 |
| 27.5° | 1031.5 | 1049.2 | 1083.2 | 1117.1 | 1127.5 |
| 30° | 999.1 | 1018.3 | 1055.1 | 1089.1 | 1097.9 |
| 32.5° | 966.6 | 985.8 | 1024.2 | 1056.6 | 1067.0 |
| 35° | 929.7 | 950.4 | 988.7 | 1019.7 | 1027.1 |
| 37.5° | 889.9 | 910.5 | 948.9 | 979.9 | 982.8 |
| 40° | 850.0 | 870.7 | 906.1 | 934.1 | 937.1 |
| 42.5° | 808.7 | 827.9 | 860.4 | 884.0 | 886.9 |
| 45° | 763.0 | 783.6 | 813.1 | 832.3 | 832.3 |
| 47.5° | 717.2 | 737.9 | 763.0 | 776.2 | 776.2 |
| 50° | 670.0 | 689.2 | 709.8 | 717.2 | 715.7 |
| 52.5° | 622.8 | 640.5 | 658.2 | 659.7 | 656.7 |
| 55° | 577.0 | 587.3 | 599.1 | 602.1 | 596.2 |
| 57.5° | 526.8 | 535.7 | 543.1 | 538.6 | 534.2 |
| 60° | 473.7 | 482.6 | 484.0 | 476.7 | 472.2 |
| 62.5° | 422.1 | 429.4 | 429.4 | 417.6 | 410.3 |
| 65° | 368.9 | 373.4 | 370.4 | 357.1 | 349.7 |
| 67.5° | 318.8 | 321.7 | 315.8 | 302.5 | 290.7 |
| 70° | 267.1 | 268.6 | 261.2 | 245.0 | 237.6 |
| 72.5° | 219.9 | 221.4 | 212.5 | 193.3 | 184.5 |
| 75° | 175.6 | 175.6 | 163.8 | 144.6 | 138.7 |
| 77.5° | 131.3 | 135.8 | 122.5 | 112.2 | 112.2 |
| 80° | 94.4 | 98.9 | 85.6 | 87.1 | 85.6 |
| 82.5° | 62.0 | 66.4 | 62.0 | 62.0 | 62.0 |
| 85° | 33.9 | 36.9 | 39.8 | 41.3 | 41.3 |
| 87.5° | 10.3 | 17.7 | 19.2 | 20.7 | 23.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)