

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: P298199

Luminaire Tested: **D3X-WG-35L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-35L82765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3420.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

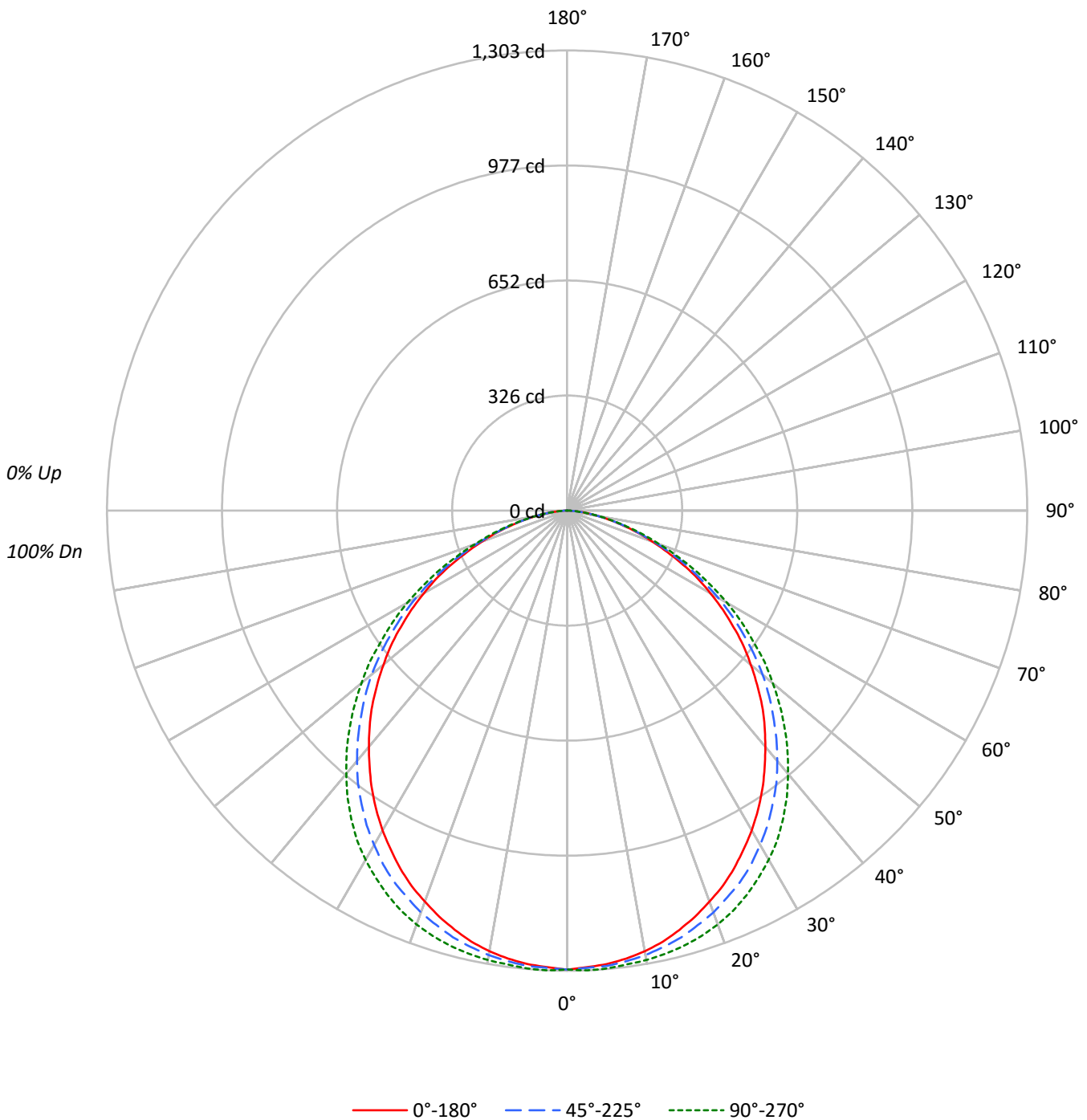
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 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 | 47 | 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 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3497 | 3497 | 3497 |
| 5° | 3481 | 3496 | 3516 |
| 10° | 3462 | 3492 | 3531 |
| 15° | 3424 | 3484 | 3555 |
| 20° | 3374 | 3467 | 3571 |
| 25° | 3320 | 3444 | 3568 |
| 30° | 3249 | 3395 | 3548 |
| 35° | 3166 | 3333 | 3500 |
| 40° | 3067 | 3252 | 3418 |
| 45° | 2970 | 3143 | 3316 |
| 50° | 2842 | 3024 | 3184 |
| 55° | 2700 | 2853 | 3006 |
| 60° | 2520 | 2657 | 2814 |
| 65° | 2300 | 2404 | 2543 |
| 70° | 2013 | 2099 | 2185 |
| 75° | 1718 | 1755 | 1831 |
| 80° | 1378 | 1407 | 1435 |
| 85° | 1010 | 954 | 895 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.0 | 3.6 |
| 10°-20° | 353.1 | 10.3 |
| 20°-30° | 533.8 | 15.6 |
| 30°-40° | 634.0 | 18.5 |
| 40°-50° | 636.5 | 18.6 |
| 50°-60° | 543.7 | 15.9 |
| 60°-70° | 374.6 | 11.0 |
| 70°-80° | 181.6 | 5.3 |
| 80°-90° | 39.7 | 1.2 |
| 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° | 1009.9 | 29.5 |
| 0°-40° | 1643.9 | 48.1 |
| 0°-60° | 2824.0 | 82.6 |
| 0°-90° | 3420.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3420.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1300 | 1300 | 1300 | 1300 | 1300 | |
| 5° | 1289 | 1289 | 1294 | 1298 | 1302 | 122 |
| 15° | 1229 | 1234 | 1251 | 1267 | 1276 | 346 |
| 25° | 1118 | 1127 | 1160 | 1191 | 1202 | 515 |
| 35° | 964 | 978 | 1015 | 1053 | 1066 | 602 |
| 45° | 780 | 791 | 826 | 860 | 871 | 601 |
| 55° | 575 | 584 | 608 | 634 | 641 | 514 |
| 65° | 361 | 361 | 378 | 394 | 399 | 358 |
| 75° | 165 | 162 | 169 | 172 | 176 | 177 |
| 85° | 33 | 33 | 31 | 29 | 29 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1299.7 | 1299.7 | 1299.7 | 1299.7 | 1299.7 |
| 2.5° | 1294.2 | 1294.2 | 1296.0 | 1301.5 | 1303.3 |
| 5° | 1288.8 | 1288.8 | 1294.2 | 1297.9 | 1301.5 |
| 7.5° | 1279.7 | 1281.5 | 1287.0 | 1294.2 | 1296.0 |
| 10° | 1267.0 | 1268.8 | 1277.9 | 1287.0 | 1292.4 |
| 12.5° | 1250.7 | 1254.3 | 1265.2 | 1279.7 | 1285.2 |
| 15° | 1228.9 | 1234.3 | 1250.7 | 1267.0 | 1276.1 |
| 17.5° | 1205.3 | 1212.5 | 1230.7 | 1254.3 | 1263.4 |
| 20° | 1178.1 | 1187.1 | 1210.7 | 1236.1 | 1247.0 |
| 22.5° | 1150.8 | 1158.1 | 1185.3 | 1214.4 | 1227.1 |
| 25° | 1118.2 | 1127.2 | 1159.9 | 1190.8 | 1201.7 |
| 27.5° | 1081.9 | 1094.6 | 1129.1 | 1161.7 | 1172.6 |
| 30° | 1045.6 | 1056.4 | 1092.7 | 1129.1 | 1141.8 |
| 32.5° | 1005.6 | 1016.5 | 1056.4 | 1092.7 | 1107.3 |
| 35° | 963.9 | 978.4 | 1014.7 | 1052.8 | 1065.5 |
| 37.5° | 918.5 | 934.8 | 972.9 | 1005.6 | 1022.0 |
| 40° | 873.1 | 887.6 | 925.7 | 960.2 | 972.9 |
| 42.5° | 827.7 | 840.4 | 876.7 | 913.0 | 923.9 |
| 45° | 780.5 | 791.4 | 825.9 | 860.4 | 871.3 |
| 47.5° | 729.7 | 742.4 | 775.1 | 804.1 | 816.8 |
| 50° | 678.9 | 691.6 | 722.4 | 749.7 | 760.6 |
| 52.5° | 629.9 | 637.1 | 666.2 | 691.6 | 704.3 |
| 55° | 575.4 | 584.5 | 608.1 | 633.5 | 640.8 |
| 57.5° | 522.8 | 528.2 | 551.8 | 573.6 | 584.5 |
| 60° | 468.3 | 472.0 | 493.7 | 510.1 | 522.8 |
| 62.5° | 417.5 | 417.5 | 433.8 | 452.0 | 459.2 |
| 65° | 361.2 | 361.2 | 377.6 | 393.9 | 399.3 |
| 67.5° | 306.8 | 310.4 | 321.3 | 334.0 | 337.6 |
| 70° | 255.9 | 255.9 | 266.8 | 275.9 | 277.7 |
| 72.5° | 210.6 | 208.7 | 214.2 | 221.5 | 225.1 |
| 75° | 165.2 | 161.6 | 168.8 | 172.4 | 176.1 |
| 77.5° | 125.2 | 123.4 | 127.1 | 130.7 | 130.7 |
| 80° | 88.9 | 87.1 | 90.8 | 90.8 | 92.6 |
| 82.5° | 58.1 | 59.9 | 59.9 | 58.1 | 56.3 |
| 85° | 32.7 | 32.7 | 30.9 | 29.0 | 29.0 |
| 87.5° | 10.9 | 10.9 | 10.9 | 12.7 | 12.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)