

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: P298029

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
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-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

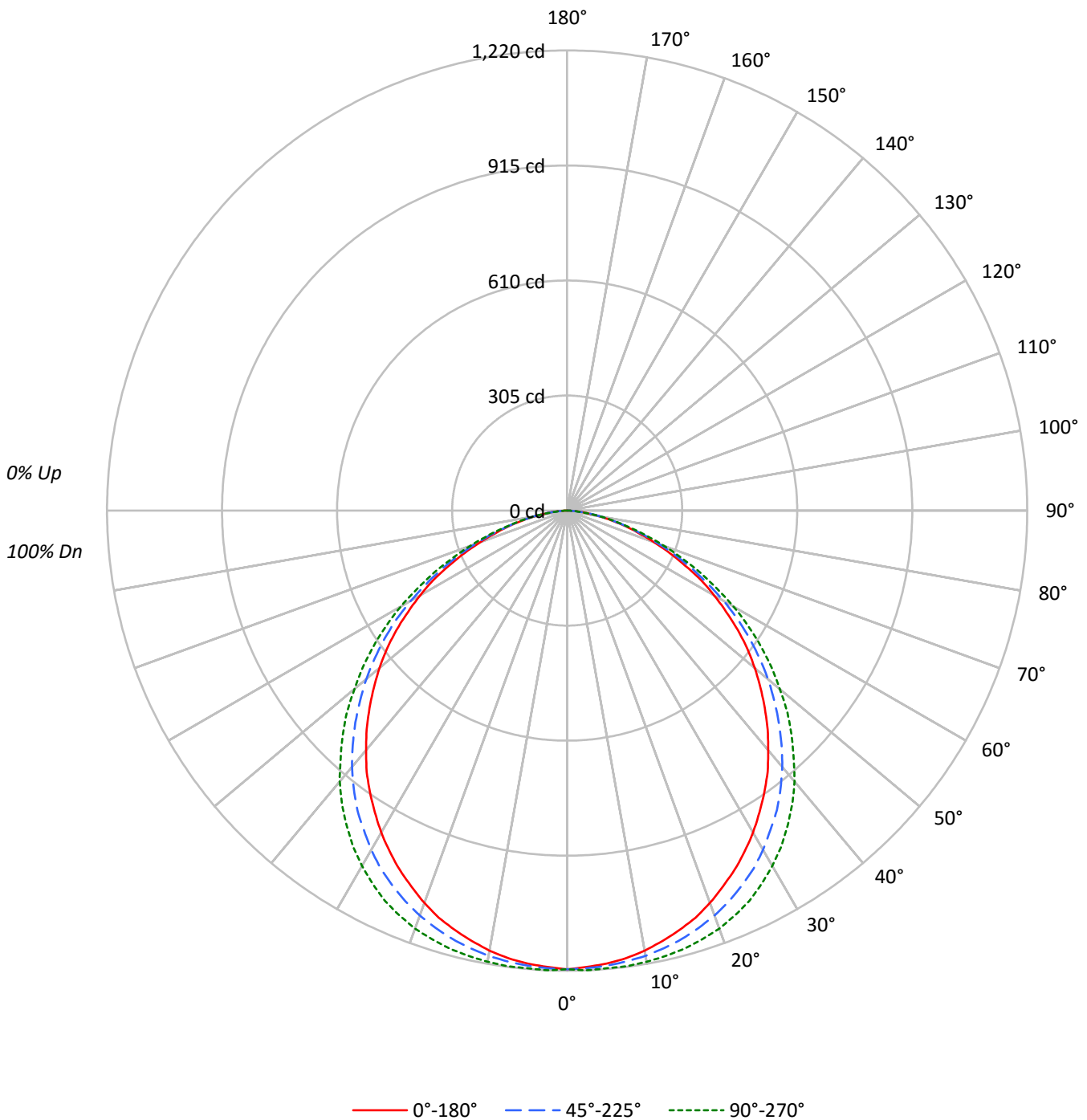
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 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 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3273 | 3273 | 3273 |
| 5° | 3257 | 3271 | 3290 |
| 10° | 3237 | 3275 | 3319 |
| 15° | 3207 | 3276 | 3349 |
| 20° | 3170 | 3271 | 3377 |
| 25° | 3120 | 3256 | 3392 |
| 30° | 3063 | 3227 | 3380 |
| 35° | 2995 | 3186 | 3348 |
| 40° | 2912 | 3116 | 3295 |
| 45° | 2820 | 3021 | 3202 |
| 50° | 2719 | 2911 | 3080 |
| 55° | 2593 | 2766 | 2940 |
| 60° | 2425 | 2577 | 2747 |
| 65° | 2197 | 2331 | 2477 |
| 70° | 1939 | 2035 | 2146 |
| 75° | 1666 | 1702 | 1775 |
| 80° | 1336 | 1364 | 1392 |
| 85° | 979 | 871 | 871 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.3 | 3.5 |
| 10°-20° | 332.0 | 10.2 |
| 20°-30° | 505.0 | 15.4 |
| 30°-40° | 604.2 | 18.5 |
| 40°-50° | 610.8 | 18.7 |
| 50°-60° | 525.6 | 16.1 |
| 60°-70° | 362.9 | 11.1 |
| 70°-80° | 176.0 | 5.4 |
| 80°-90° | 38.2 | 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° | 952.3 | 29.1 |
| 0°-40° | 1556.5 | 47.6 |
| 0°-60° | 2692.9 | 82.4 |
| 0°-90° | 3270.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3270.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1216 | 1216 | 1216 | 1216 | 1216 | |
| 5° | 1206 | 1207 | 1211 | 1216 | 1218 | 114 |
| 15° | 1151 | 1158 | 1176 | 1193 | 1202 | 325 |
| 25° | 1051 | 1063 | 1097 | 1130 | 1142 | 484 |
| 35° | 912 | 928 | 970 | 1005 | 1019 | 570 |
| 45° | 741 | 755 | 794 | 827 | 841 | 572 |
| 55° | 553 | 562 | 590 | 616 | 627 | 493 |
| 65° | 345 | 350 | 366 | 382 | 389 | 343 |
| 75° | 160 | 157 | 164 | 169 | 171 | 170 |
| 85° | 32 | 32 | 28 | 28 | 28 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1216.2 | 1216.2 | 1216.2 | 1216.2 | 1216.2 |
| 2.5° | 1211.0 | 1211.0 | 1214.5 | 1218.0 | 1219.8 |
| 5° | 1205.7 | 1207.4 | 1211.0 | 1216.2 | 1218.0 |
| 7.5° | 1196.9 | 1198.6 | 1205.7 | 1214.5 | 1218.0 |
| 10° | 1184.6 | 1188.1 | 1198.6 | 1209.2 | 1214.5 |
| 12.5° | 1168.7 | 1175.8 | 1188.1 | 1202.2 | 1209.2 |
| 15° | 1151.1 | 1158.2 | 1175.8 | 1193.4 | 1202.2 |
| 17.5° | 1131.8 | 1138.8 | 1159.9 | 1182.8 | 1191.6 |
| 20° | 1107.1 | 1117.7 | 1142.3 | 1168.7 | 1179.3 |
| 22.5° | 1079.0 | 1093.0 | 1121.2 | 1149.4 | 1161.7 |
| 25° | 1050.8 | 1063.1 | 1096.6 | 1130.0 | 1142.3 |
| 27.5° | 1019.1 | 1033.2 | 1070.2 | 1103.6 | 1115.9 |
| 30° | 985.7 | 999.8 | 1038.5 | 1075.4 | 1087.8 |
| 32.5° | 948.7 | 966.3 | 1003.3 | 1042.0 | 1056.1 |
| 35° | 911.7 | 927.6 | 969.8 | 1005.0 | 1019.1 |
| 37.5° | 873.0 | 887.1 | 929.3 | 966.3 | 980.4 |
| 40° | 829.0 | 844.9 | 887.1 | 924.1 | 938.1 |
| 42.5° | 786.8 | 802.6 | 841.3 | 876.5 | 888.9 |
| 45° | 741.0 | 755.1 | 793.8 | 827.3 | 841.3 |
| 47.5° | 695.3 | 711.1 | 744.5 | 778.0 | 792.1 |
| 50° | 649.5 | 661.8 | 695.3 | 726.9 | 735.7 |
| 52.5° | 602.0 | 612.5 | 642.4 | 670.6 | 682.9 |
| 55° | 552.7 | 561.5 | 589.6 | 616.0 | 626.6 |
| 57.5° | 499.9 | 510.4 | 536.8 | 556.2 | 568.5 |
| 60° | 450.6 | 455.9 | 478.8 | 498.1 | 510.4 |
| 62.5° | 401.3 | 403.1 | 420.7 | 440.0 | 447.1 |
| 65° | 345.0 | 350.3 | 366.1 | 381.9 | 389.0 |
| 67.5° | 293.9 | 299.2 | 311.5 | 323.9 | 329.1 |
| 70° | 246.4 | 246.4 | 258.7 | 267.5 | 272.8 |
| 72.5° | 198.9 | 200.7 | 209.5 | 214.7 | 220.0 |
| 75° | 160.2 | 156.7 | 163.7 | 169.0 | 170.7 |
| 77.5° | 119.7 | 117.9 | 123.2 | 125.0 | 128.5 |
| 80° | 86.2 | 86.2 | 88.0 | 89.8 | 89.8 |
| 82.5° | 56.3 | 56.3 | 58.1 | 54.6 | 52.8 |
| 85° | 31.7 | 31.7 | 28.2 | 28.2 | 28.2 |
| 87.5° | 10.6 | 10.6 | 10.6 | 12.3 | 10.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)