

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: P297734

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2888.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

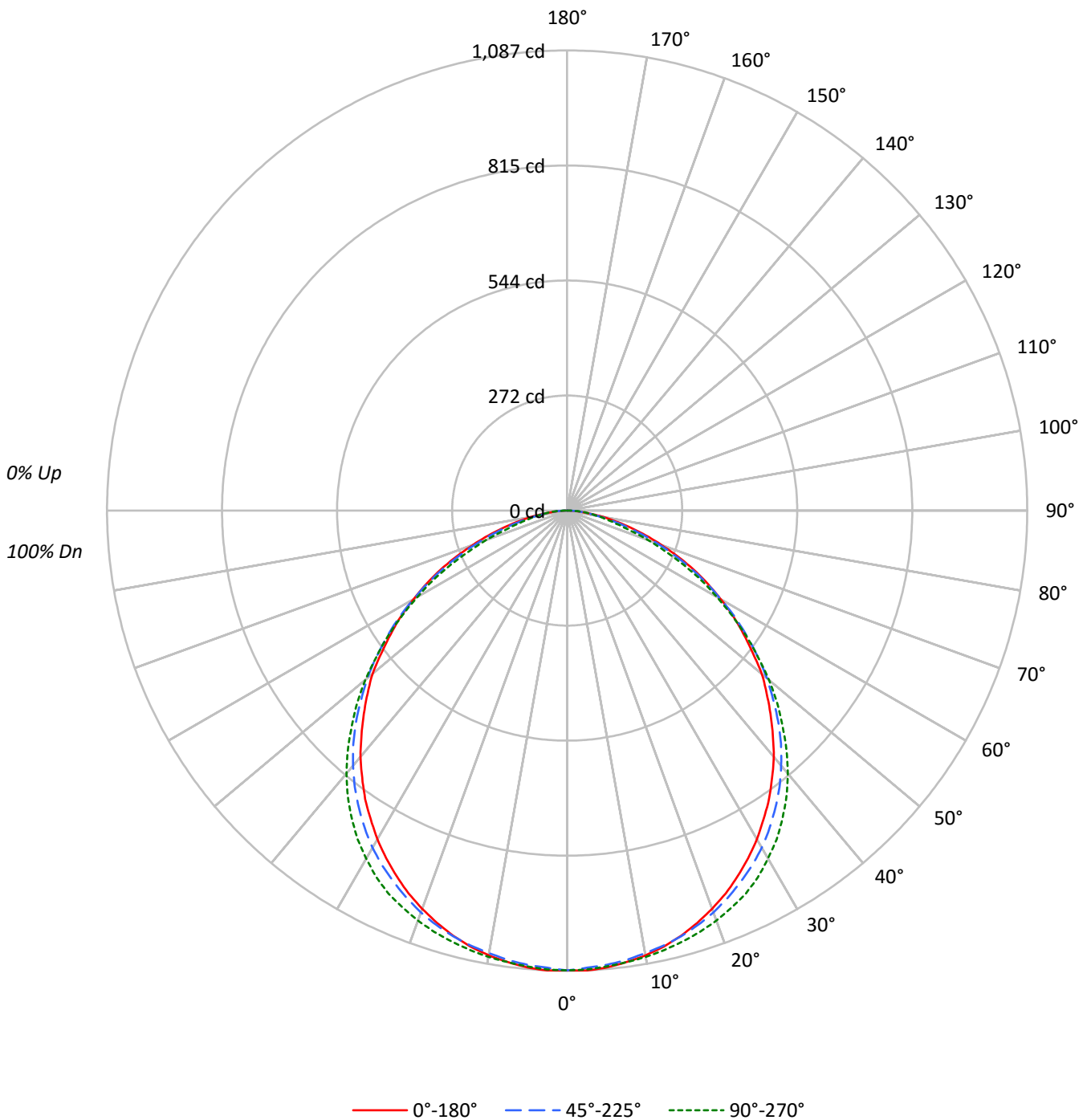
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 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 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2923 | 2923 | 2923 |
| 5° | 2927 | 2910 | 2920 |
| 10° | 2915 | 2901 | 2925 |
| 15° | 2896 | 2900 | 2936 |
| 20° | 2866 | 2892 | 2951 |
| 25° | 2830 | 2876 | 2964 |
| 30° | 2785 | 2857 | 2949 |
| 35° | 2732 | 2817 | 2915 |
| 40° | 2668 | 2763 | 2849 |
| 45° | 2585 | 2683 | 2737 |
| 50° | 2514 | 2579 | 2606 |
| 55° | 2387 | 2436 | 2424 |
| 60° | 2259 | 2259 | 2196 |
| 65° | 2097 | 2048 | 1933 |
| 70° | 1859 | 1778 | 1606 |
| 75° | 1612 | 1464 | 1235 |
| 80° | 1320 | 1141 | 1120 |
| 85° | 877 | 1037 | 1118 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.7 | 3.6 |
| 10°-20° | 294.8 | 10.2 |
| 20°-30° | 448.0 | 15.5 |
| 30°-40° | 536.4 | 18.6 |
| 40°-50° | 541.0 | 18.7 |
| 50°-60° | 460.8 | 16.0 |
| 60°-70° | 315.1 | 10.9 |
| 70°-80° | 150.9 | 5.2 |
| 80°-90° | 38.2 | 1.3 |
| 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° | 845.5 | 29.3 |
| 0°-40° | 1381.9 | 47.8 |
| 0°-60° | 2383.8 | 82.5 |
| 0°-90° | 2888.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2888.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1086 | 1086 | 1086 | 1086 | 1086 | |
| 5° | 1084 | 1082 | 1077 | 1082 | 1081 | 103 |
| 15° | 1040 | 1037 | 1041 | 1052 | 1054 | 293 |
| 25° | 953 | 954 | 969 | 991 | 998 | 439 |
| 35° | 832 | 834 | 858 | 882 | 887 | 520 |
| 45° | 679 | 684 | 705 | 719 | 719 | 525 |
| 55° | 509 | 511 | 519 | 520 | 517 | 456 |
| 65° | 329 | 323 | 322 | 310 | 304 | 325 |
| 75° | 155 | 152 | 141 | 123 | 119 | 166 |
| 85° | 28 | 31 | 34 | 35 | 36 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1086.1 | 1086.1 | 1086.1 | 1086.1 | 1086.1 |
| 2.5° | 1087.4 | 1086.1 | 1081.0 | 1086.1 | 1084.8 |
| 5° | 1083.5 | 1082.2 | 1077.1 | 1082.2 | 1081.0 |
| 7.5° | 1075.8 | 1074.5 | 1070.6 | 1075.8 | 1075.8 |
| 10° | 1066.8 | 1064.2 | 1061.6 | 1069.3 | 1070.6 |
| 12.5° | 1055.1 | 1052.5 | 1052.5 | 1061.6 | 1062.9 |
| 15° | 1039.6 | 1037.0 | 1040.9 | 1052.5 | 1053.8 |
| 17.5° | 1021.5 | 1020.3 | 1026.7 | 1040.9 | 1043.5 |
| 20° | 1000.9 | 999.6 | 1009.9 | 1026.7 | 1030.6 |
| 22.5° | 978.9 | 978.9 | 990.6 | 1009.9 | 1015.1 |
| 25° | 953.1 | 954.4 | 968.6 | 990.6 | 998.3 |
| 27.5° | 926.0 | 928.6 | 945.4 | 969.9 | 976.3 |
| 30° | 896.3 | 900.2 | 919.5 | 942.8 | 949.2 |
| 32.5° | 864.0 | 867.9 | 889.8 | 914.4 | 920.8 |
| 35° | 831.7 | 834.3 | 857.5 | 882.1 | 887.2 |
| 37.5° | 795.5 | 799.4 | 824.0 | 845.9 | 851.1 |
| 40° | 759.4 | 763.3 | 786.5 | 807.2 | 811.0 |
| 42.5° | 719.3 | 724.5 | 747.8 | 764.5 | 767.1 |
| 45° | 679.3 | 684.5 | 705.1 | 719.3 | 719.3 |
| 47.5° | 639.3 | 641.9 | 659.9 | 674.1 | 672.9 |
| 50° | 600.5 | 599.2 | 616.0 | 622.5 | 622.5 |
| 52.5° | 552.7 | 556.6 | 568.2 | 572.1 | 568.2 |
| 55° | 508.8 | 511.4 | 519.2 | 520.5 | 516.6 |
| 57.5° | 466.2 | 464.9 | 471.4 | 467.5 | 462.3 |
| 60° | 419.7 | 419.7 | 419.7 | 415.9 | 408.1 |
| 62.5° | 374.5 | 371.9 | 370.7 | 361.6 | 357.7 |
| 65° | 329.3 | 322.9 | 321.6 | 310.0 | 303.5 |
| 67.5° | 281.5 | 279.0 | 272.5 | 260.9 | 249.3 |
| 70° | 236.3 | 233.8 | 226.0 | 211.8 | 204.1 |
| 72.5° | 195.0 | 192.4 | 182.1 | 165.3 | 155.0 |
| 75° | 155.0 | 152.4 | 140.8 | 122.7 | 118.8 |
| 77.5° | 117.5 | 116.2 | 104.6 | 95.6 | 94.3 |
| 80° | 85.2 | 83.9 | 73.6 | 73.6 | 72.3 |
| 82.5° | 54.2 | 54.2 | 51.7 | 53.0 | 54.2 |
| 85° | 28.4 | 31.0 | 33.6 | 34.9 | 36.2 |
| 87.5° | 9.0 | 14.2 | 16.8 | 18.1 | 16.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)