

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: P297919

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

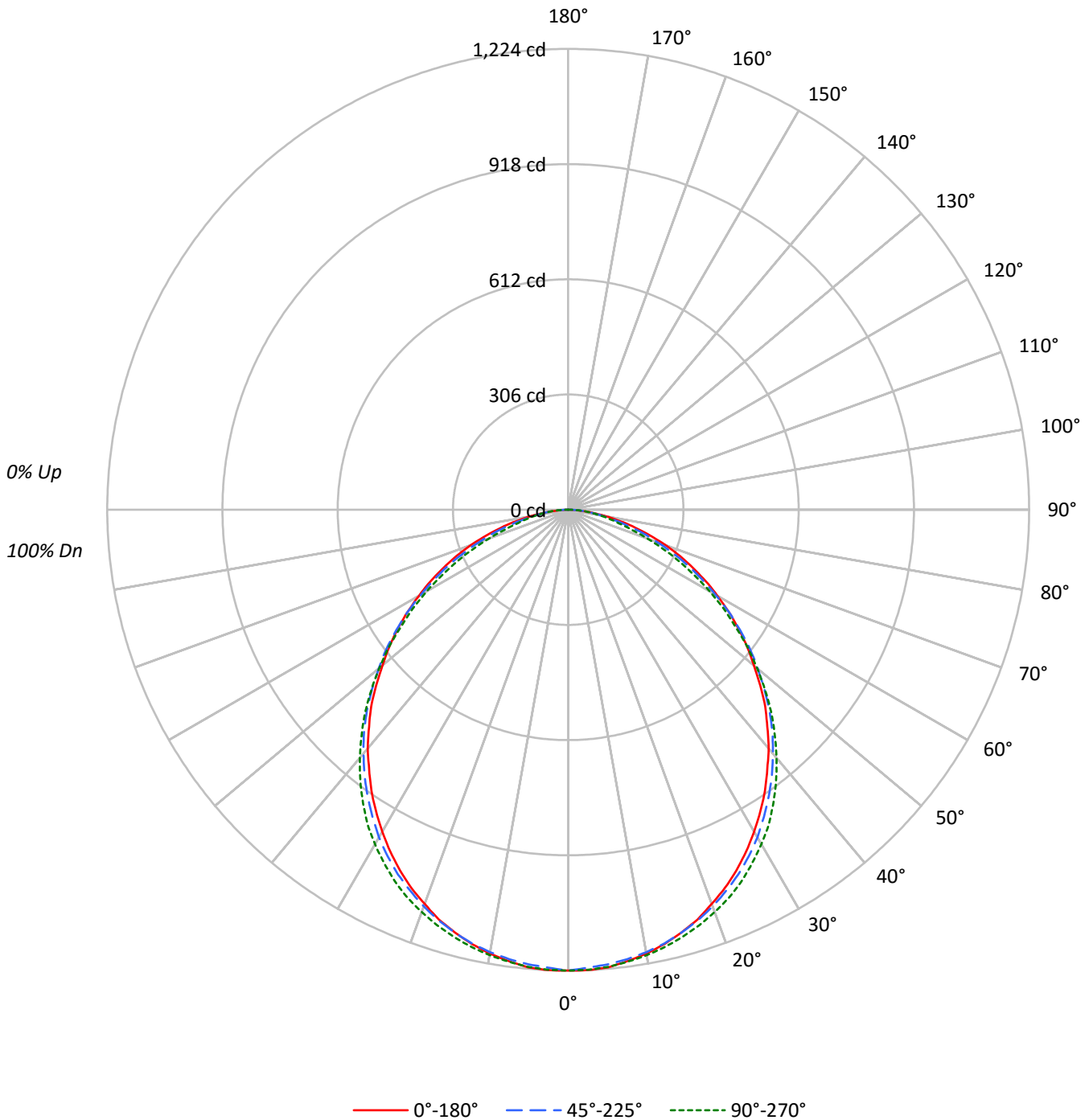
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 95 | 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 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 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 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3294 | 3294 | 3294 |
| 5° | 3296 | 3274 | 3292 |
| 10° | 3272 | 3261 | 3283 |
| 15° | 3239 | 3239 | 3272 |
| 20° | 3191 | 3210 | 3256 |
| 25° | 3138 | 3174 | 3233 |
| 30° | 3068 | 3122 | 3188 |
| 35° | 2993 | 3050 | 3120 |
| 40° | 2909 | 2970 | 3022 |
| 45° | 2815 | 2877 | 2902 |
| 50° | 2694 | 2750 | 2739 |
| 55° | 2592 | 2611 | 2542 |
| 60° | 2462 | 2426 | 2333 |
| 65° | 2325 | 2232 | 2078 |
| 70° | 2158 | 1979 | 1758 |
| 75° | 1919 | 1697 | 1446 |
| 80° | 1596 | 1389 | 1348 |
| 85° | 1158 | 1238 | 1238 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.5 | 3.7 |
| 10°-20° | 329.1 | 10.4 |
| 20°-30° | 493.2 | 15.6 |
| 30°-40° | 581.1 | 18.4 |
| 40°-50° | 579.6 | 18.4 |
| 50°-60° | 493.0 | 15.6 |
| 60°-70° | 344.0 | 10.9 |
| 70°-80° | 174.9 | 5.5 |
| 80°-90° | 45.7 | 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° | 937.8 | 29.7 |
| 0°-40° | 1518.9 | 48.1 |
| 0°-60° | 2591.4 | 82.1 |
| 0°-90° | 3156.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3156.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1224 | 1224 | 1224 | 1224 | 1224 | |
| 5° | 1220 | 1217 | 1212 | 1219 | 1219 | 116 |
| 15° | 1163 | 1163 | 1163 | 1173 | 1175 | 328 |
| 25° | 1057 | 1058 | 1069 | 1085 | 1089 | 486 |
| 35° | 911 | 912 | 928 | 947 | 950 | 569 |
| 45° | 740 | 742 | 756 | 761 | 763 | 569 |
| 55° | 552 | 552 | 556 | 548 | 542 | 494 |
| 65° | 365 | 360 | 350 | 332 | 326 | 362 |
| 75° | 185 | 178 | 163 | 143 | 139 | 196 |
| 85° | 38 | 39 | 40 | 40 | 40 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1224.1 | 1224.1 | 1224.1 | 1224.1 | 1224.1 |
| 2.5° | 1224.1 | 1222.8 | 1217.4 | 1222.8 | 1222.8 |
| 5° | 1220.1 | 1217.4 | 1212.1 | 1218.8 | 1218.8 |
| 7.5° | 1209.4 | 1208.0 | 1204.0 | 1210.7 | 1210.7 |
| 10° | 1197.3 | 1196.0 | 1193.3 | 1201.4 | 1201.4 |
| 12.5° | 1181.3 | 1181.3 | 1180.0 | 1188.0 | 1189.3 |
| 15° | 1162.6 | 1162.6 | 1162.6 | 1173.3 | 1174.6 |
| 17.5° | 1141.2 | 1139.8 | 1143.8 | 1155.9 | 1157.2 |
| 20° | 1114.4 | 1115.7 | 1121.1 | 1134.5 | 1137.1 |
| 22.5° | 1087.6 | 1089.0 | 1095.7 | 1111.7 | 1115.7 |
| 25° | 1056.9 | 1058.2 | 1068.9 | 1085.0 | 1089.0 |
| 27.5° | 1023.4 | 1026.1 | 1038.1 | 1055.5 | 1058.2 |
| 30° | 987.3 | 990.0 | 1004.7 | 1022.1 | 1026.1 |
| 32.5° | 949.9 | 953.9 | 967.2 | 986.0 | 991.3 |
| 35° | 911.1 | 912.4 | 928.4 | 947.2 | 949.9 |
| 37.5° | 868.2 | 872.3 | 888.3 | 904.4 | 907.0 |
| 40° | 828.1 | 830.8 | 845.5 | 858.9 | 860.2 |
| 42.5° | 782.6 | 786.6 | 802.7 | 812.1 | 812.1 |
| 45° | 739.8 | 742.5 | 755.9 | 761.2 | 762.6 |
| 47.5° | 691.7 | 694.3 | 706.4 | 709.0 | 709.0 |
| 50° | 643.5 | 650.2 | 656.9 | 656.9 | 654.2 |
| 52.5° | 599.3 | 600.7 | 608.7 | 603.4 | 600.7 |
| 55° | 552.5 | 552.5 | 556.5 | 548.5 | 541.8 |
| 57.5° | 505.7 | 505.7 | 505.7 | 495.0 | 489.6 |
| 60° | 457.5 | 456.2 | 450.8 | 437.5 | 433.5 |
| 62.5° | 412.0 | 408.0 | 400.0 | 386.6 | 378.6 |
| 65° | 365.2 | 359.9 | 350.5 | 331.8 | 326.4 |
| 67.5° | 321.1 | 311.7 | 301.0 | 283.6 | 274.3 |
| 70° | 274.3 | 266.2 | 251.5 | 231.4 | 223.4 |
| 72.5° | 228.8 | 220.7 | 208.7 | 188.6 | 176.6 |
| 75° | 184.6 | 177.9 | 163.2 | 143.1 | 139.1 |
| 77.5° | 141.8 | 137.8 | 123.1 | 113.7 | 112.4 |
| 80° | 103.0 | 101.7 | 89.6 | 87.0 | 87.0 |
| 82.5° | 68.2 | 66.9 | 62.9 | 62.9 | 61.5 |
| 85° | 37.5 | 38.8 | 40.1 | 40.1 | 40.1 |
| 87.5° | 13.4 | 16.1 | 18.7 | 18.7 | 18.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)