

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: P298405

Luminaire Tested: **D3X-WO-35L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3009.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

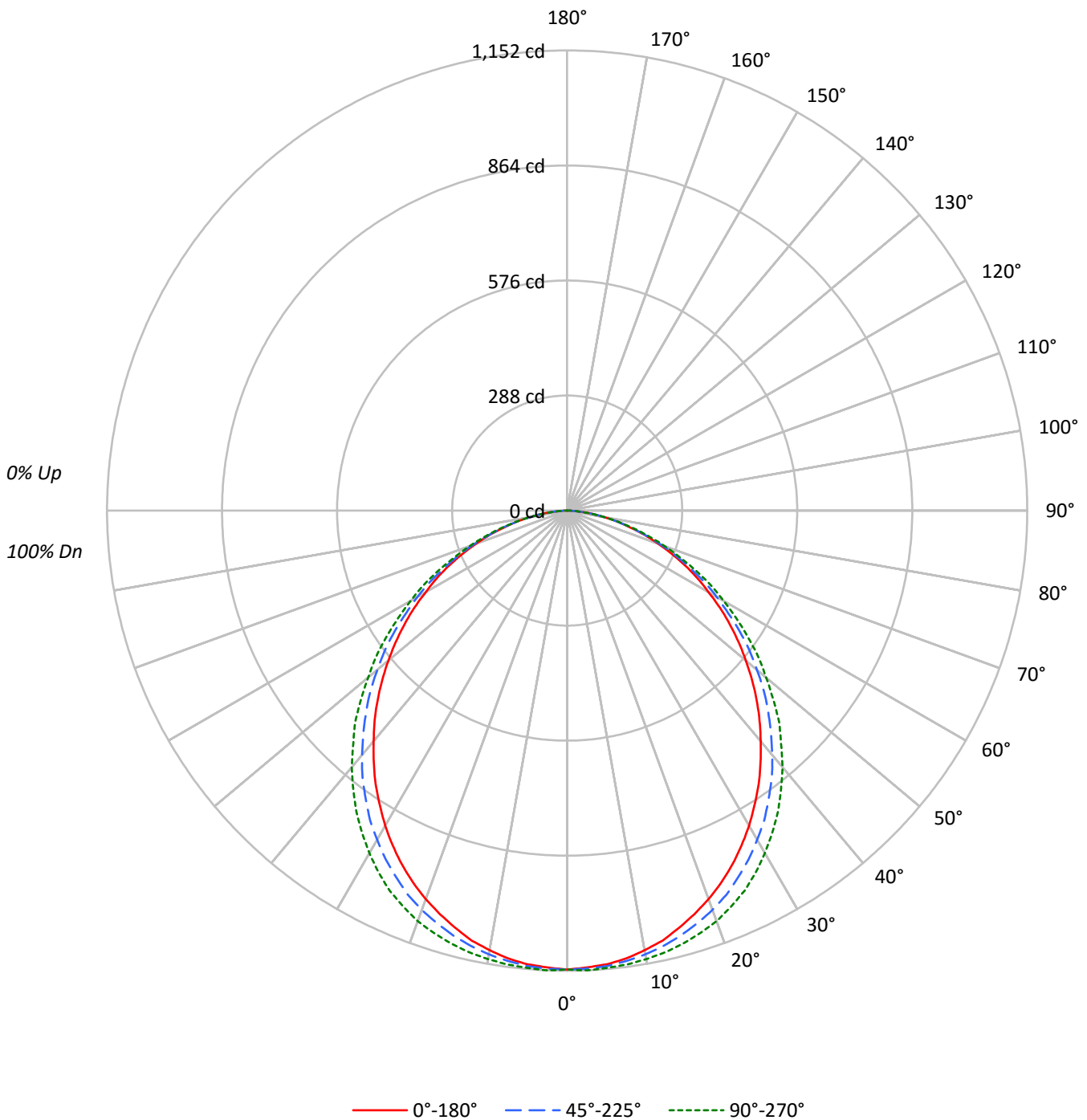
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 66 | 63 | 60 |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 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 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 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° | 3092 | 3092 | 3092 |
| 5° | 3080 | 3092 | 3104 |
| 10° | 3054 | 3083 | 3115 |
| 15° | 3014 | 3068 | 3126 |
| 20° | 2964 | 3046 | 3132 |
| 25° | 2905 | 3007 | 3118 |
| 30° | 2830 | 2956 | 3077 |
| 35° | 2746 | 2889 | 3022 |
| 40° | 2647 | 2805 | 2947 |
| 45° | 2554 | 2708 | 2856 |
| 50° | 2446 | 2596 | 2722 |
| 55° | 2334 | 2474 | 2594 |
| 60° | 2201 | 2330 | 2435 |
| 65° | 2080 | 2156 | 2261 |
| 70° | 1910 | 1969 | 2039 |
| 75° | 1698 | 1745 | 1791 |
| 80° | 1463 | 1440 | 1440 |
| 85° | 1112 | 1019 | 926 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.7 | 3.6 |
| 10°-20° | 310.7 | 10.3 |
| 20°-30° | 466.5 | 15.5 |
| 30°-40° | 549.0 | 18.2 |
| 40°-50° | 547.6 | 18.2 |
| 50°-60° | 469.9 | 15.6 |
| 60°-70° | 336.6 | 11.2 |
| 70°-80° | 178.2 | 5.9 |
| 80°-90° | 41.7 | 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° | 885.9 | 29.4 |
| 0°-40° | 1434.9 | 47.7 |
| 0°-60° | 2452.5 | 81.5 |
| 0°-90° | 3009.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3009.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1149 | 1149 | 1149 | 1149 | 1149 | |
| 5° | 1140 | 1140 | 1145 | 1148 | 1149 | 108 |
| 15° | 1082 | 1086 | 1101 | 1116 | 1122 | 305 |
| 25° | 978 | 987 | 1013 | 1038 | 1050 | 450 |
| 35° | 836 | 846 | 879 | 909 | 920 | 522 |
| 45° | 671 | 682 | 712 | 737 | 751 | 517 |
| 55° | 497 | 505 | 527 | 545 | 553 | 445 |
| 65° | 327 | 328 | 339 | 352 | 355 | 323 |
| 75° | 163 | 163 | 168 | 171 | 172 | 175 |
| 85° | 36 | 34 | 33 | 30 | 30 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: D3X-WO-35L93050-LD5-UNV-22-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1149.1 | 1149.1 | 1149.1 | 1149.1 | 1149.1 |
| 2.5° | 1144.6 | 1144.6 | 1147.6 | 1150.6 | 1152.1 |
| 5° | 1140.1 | 1140.1 | 1144.6 | 1147.6 | 1149.1 |
| 7.5° | 1131.1 | 1131.1 | 1137.1 | 1143.1 | 1146.1 |
| 10° | 1117.6 | 1120.6 | 1128.1 | 1137.1 | 1140.1 |
| 12.5° | 1102.7 | 1105.7 | 1116.1 | 1128.1 | 1132.6 |
| 15° | 1081.7 | 1086.2 | 1101.2 | 1116.1 | 1122.1 |
| 17.5° | 1059.2 | 1065.2 | 1083.2 | 1101.2 | 1108.7 |
| 20° | 1035.2 | 1041.2 | 1063.7 | 1084.7 | 1093.7 |
| 22.5° | 1008.3 | 1015.8 | 1041.2 | 1063.7 | 1072.7 |
| 25° | 978.3 | 987.3 | 1012.8 | 1038.2 | 1050.2 |
| 27.5° | 945.4 | 955.8 | 984.3 | 1011.3 | 1021.8 |
| 30° | 910.9 | 922.9 | 951.3 | 979.8 | 990.3 |
| 32.5° | 873.4 | 883.9 | 918.4 | 945.4 | 955.8 |
| 35° | 836.0 | 846.5 | 879.4 | 909.4 | 919.9 |
| 37.5° | 795.5 | 809.0 | 842.0 | 868.9 | 879.4 |
| 40° | 753.6 | 767.1 | 798.5 | 830.0 | 839.0 |
| 42.5° | 713.1 | 725.1 | 755.1 | 783.6 | 792.5 |
| 45° | 671.2 | 681.7 | 711.6 | 737.1 | 750.6 |
| 47.5° | 627.7 | 638.2 | 668.2 | 692.2 | 699.7 |
| 50° | 584.3 | 594.8 | 620.2 | 641.2 | 650.2 |
| 52.5° | 540.8 | 551.3 | 575.3 | 594.8 | 603.8 |
| 55° | 497.4 | 504.9 | 527.4 | 545.3 | 552.8 |
| 57.5° | 454.0 | 459.9 | 477.9 | 497.4 | 501.9 |
| 60° | 409.0 | 416.5 | 433.0 | 446.5 | 452.5 |
| 62.5° | 368.6 | 371.6 | 386.5 | 398.5 | 406.0 |
| 65° | 326.6 | 328.1 | 338.6 | 352.1 | 355.1 |
| 67.5° | 283.2 | 284.7 | 295.1 | 302.6 | 305.6 |
| 70° | 242.7 | 242.7 | 250.2 | 256.2 | 259.2 |
| 72.5° | 203.8 | 202.3 | 206.7 | 212.7 | 215.7 |
| 75° | 163.3 | 163.3 | 167.8 | 170.8 | 172.3 |
| 77.5° | 128.8 | 125.8 | 128.8 | 131.8 | 131.8 |
| 80° | 94.4 | 92.9 | 92.9 | 94.4 | 92.9 |
| 82.5° | 64.4 | 62.9 | 64.4 | 61.4 | 59.9 |
| 85° | 36.0 | 34.5 | 33.0 | 30.0 | 30.0 |
| 87.5° | 12.0 | 10.5 | 10.5 | 12.0 | 12.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)