

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: P298328

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298328
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-40L83050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

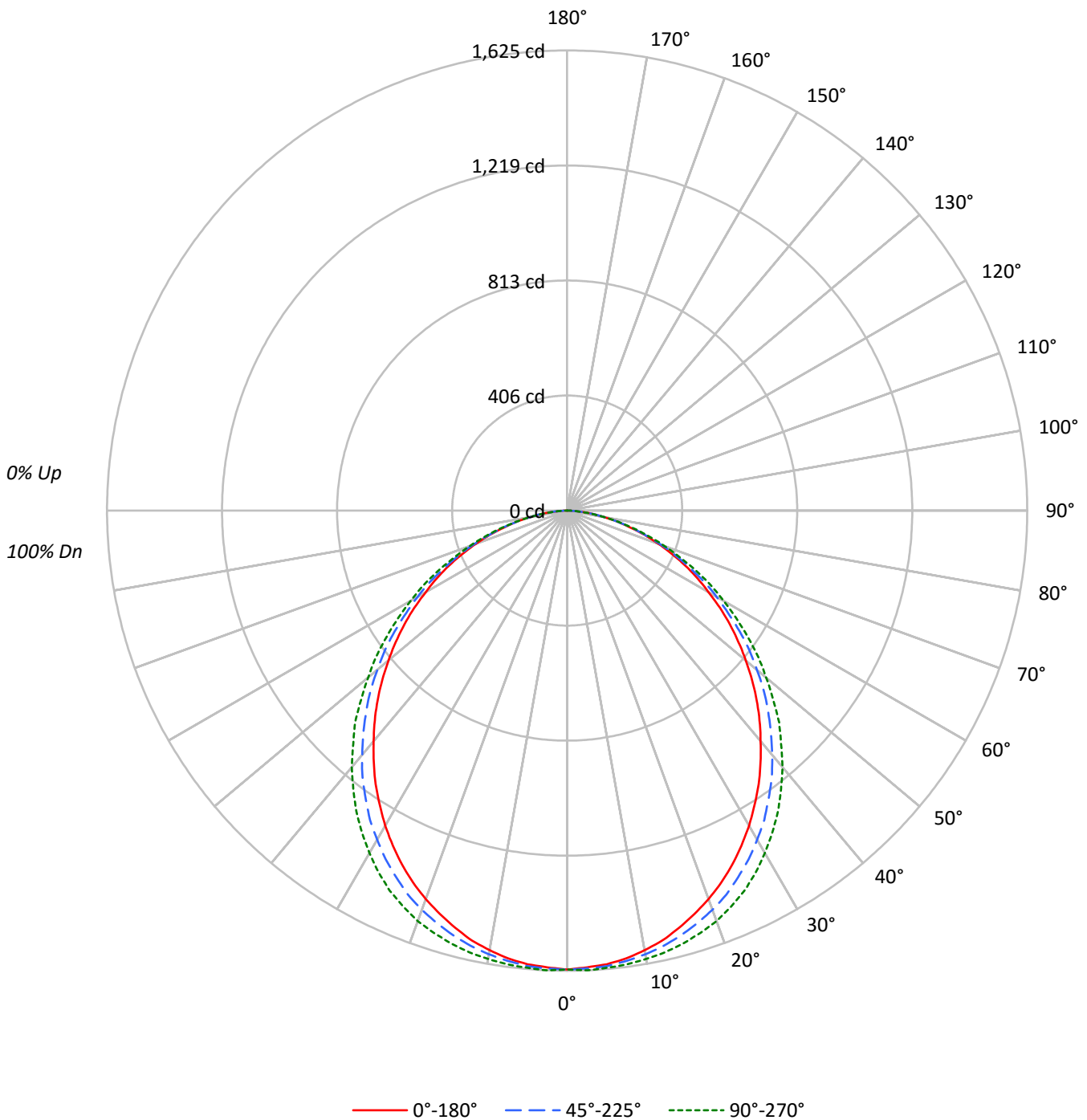
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P298328

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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° | 4361 | 4361 | 4361 |
| 5° | 4344 | 4361 | 4378 |
| 10° | 4307 | 4348 | 4394 |
| 15° | 4250 | 4327 | 4409 |
| 20° | 4181 | 4296 | 4418 |
| 25° | 4097 | 4241 | 4398 |
| 30° | 3992 | 4169 | 4340 |
| 35° | 3873 | 4075 | 4262 |
| 40° | 3734 | 3956 | 4157 |
| 45° | 3603 | 3820 | 4029 |
| 50° | 3450 | 3662 | 3839 |
| 55° | 3291 | 3490 | 3658 |
| 60° | 3105 | 3287 | 3435 |
| 65° | 2933 | 3041 | 3189 |
| 70° | 2693 | 2777 | 2877 |
| 75° | 2394 | 2461 | 2527 |
| 80° | 2063 | 2030 | 2030 |
| 85° | 1565 | 1436 | 1306 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.3 | 3.6 |
| 10°-20° | 438.2 | 10.3 |
| 20°-30° | 658.0 | 15.5 |
| 30°-40° | 774.4 | 18.2 |
| 40°-50° | 772.4 | 18.2 |
| 50°-60° | 662.8 | 15.6 |
| 60°-70° | 474.7 | 11.2 |
| 70°-80° | 251.4 | 5.9 |
| 80°-90° | 58.8 | 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° | 1249.5 | 29.4 |
| 0°-40° | 2023.9 | 47.7 |
| 0°-60° | 3459.1 | 81.5 |
| 0°-90° | 4244.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4244.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1621 | 1621 | 1621 | 1621 | 1621 | |
| 5° | 1608 | 1608 | 1614 | 1619 | 1621 | 153 |
| 15° | 1526 | 1532 | 1553 | 1574 | 1583 | 430 |
| 25° | 1380 | 1392 | 1428 | 1464 | 1481 | 635 |
| 35° | 1179 | 1194 | 1240 | 1283 | 1297 | 737 |
| 45° | 947 | 962 | 1004 | 1040 | 1059 | 730 |
| 55° | 702 | 712 | 744 | 769 | 780 | 627 |
| 65° | 461 | 463 | 478 | 497 | 501 | 455 |
| 75° | 230 | 230 | 237 | 241 | 243 | 247 |
| 85° | 51 | 49 | 46 | 42 | 42 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P298328

CATALOG NUMBER: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-4500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1620.7 | 1620.7 | 1620.7 | 1620.7 | 1620.7 |
| 2.5° | 1614.4 | 1614.4 | 1618.6 | 1622.9 | 1625.0 |
| 5° | 1608.1 | 1608.1 | 1614.4 | 1618.6 | 1620.7 |
| 7.5° | 1595.4 | 1595.4 | 1603.8 | 1612.3 | 1616.5 |
| 10° | 1576.4 | 1580.6 | 1591.2 | 1603.8 | 1608.1 |
| 12.5° | 1555.2 | 1559.5 | 1574.3 | 1591.2 | 1597.5 |
| 15° | 1525.7 | 1532.0 | 1553.1 | 1574.3 | 1582.7 |
| 17.5° | 1494.0 | 1502.4 | 1527.8 | 1553.1 | 1563.7 |
| 20° | 1460.1 | 1468.6 | 1500.3 | 1529.9 | 1542.6 |
| 22.5° | 1422.1 | 1432.7 | 1468.6 | 1500.3 | 1513.0 |
| 25° | 1379.9 | 1392.5 | 1428.5 | 1464.4 | 1481.3 |
| 27.5° | 1333.4 | 1348.2 | 1388.3 | 1426.3 | 1441.1 |
| 30° | 1284.8 | 1301.7 | 1341.8 | 1382.0 | 1396.8 |
| 32.5° | 1231.9 | 1246.7 | 1295.3 | 1333.4 | 1348.2 |
| 35° | 1179.1 | 1193.9 | 1240.4 | 1282.6 | 1297.4 |
| 37.5° | 1122.1 | 1141.1 | 1187.6 | 1225.6 | 1240.4 |
| 40° | 1062.9 | 1081.9 | 1126.3 | 1170.7 | 1183.3 |
| 42.5° | 1005.8 | 1022.7 | 1065.0 | 1105.1 | 1117.8 |
| 45° | 946.7 | 961.5 | 1003.7 | 1039.6 | 1058.7 |
| 47.5° | 885.4 | 900.2 | 942.4 | 976.3 | 986.8 |
| 50° | 824.1 | 838.9 | 874.8 | 904.4 | 917.1 |
| 52.5° | 762.8 | 777.6 | 811.4 | 838.9 | 851.6 |
| 55° | 701.5 | 712.1 | 743.8 | 769.2 | 779.7 |
| 57.5° | 640.3 | 648.7 | 674.1 | 701.5 | 707.9 |
| 60° | 576.9 | 587.4 | 610.7 | 629.7 | 638.2 |
| 62.5° | 519.8 | 524.0 | 545.2 | 562.1 | 572.6 |
| 65° | 460.7 | 462.8 | 477.6 | 496.6 | 500.8 |
| 67.5° | 399.4 | 401.5 | 416.3 | 426.8 | 431.1 |
| 70° | 342.3 | 342.3 | 352.9 | 361.3 | 365.6 |
| 72.5° | 287.4 | 285.3 | 291.6 | 300.1 | 304.3 |
| 75° | 230.3 | 230.3 | 236.7 | 240.9 | 243.0 |
| 77.5° | 181.7 | 177.5 | 181.7 | 186.0 | 186.0 |
| 80° | 133.1 | 131.0 | 131.0 | 133.1 | 131.0 |
| 82.5° | 90.9 | 88.8 | 90.9 | 86.6 | 84.5 |
| 85° | 50.7 | 48.6 | 46.5 | 42.3 | 42.3 |
| 87.5° | 16.9 | 14.8 | 14.8 | 16.9 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)