

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: METALUX

Report Number: P237751

Luminaire Tested: **2VT2-LD5-5-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-5-DR100-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5456.9 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

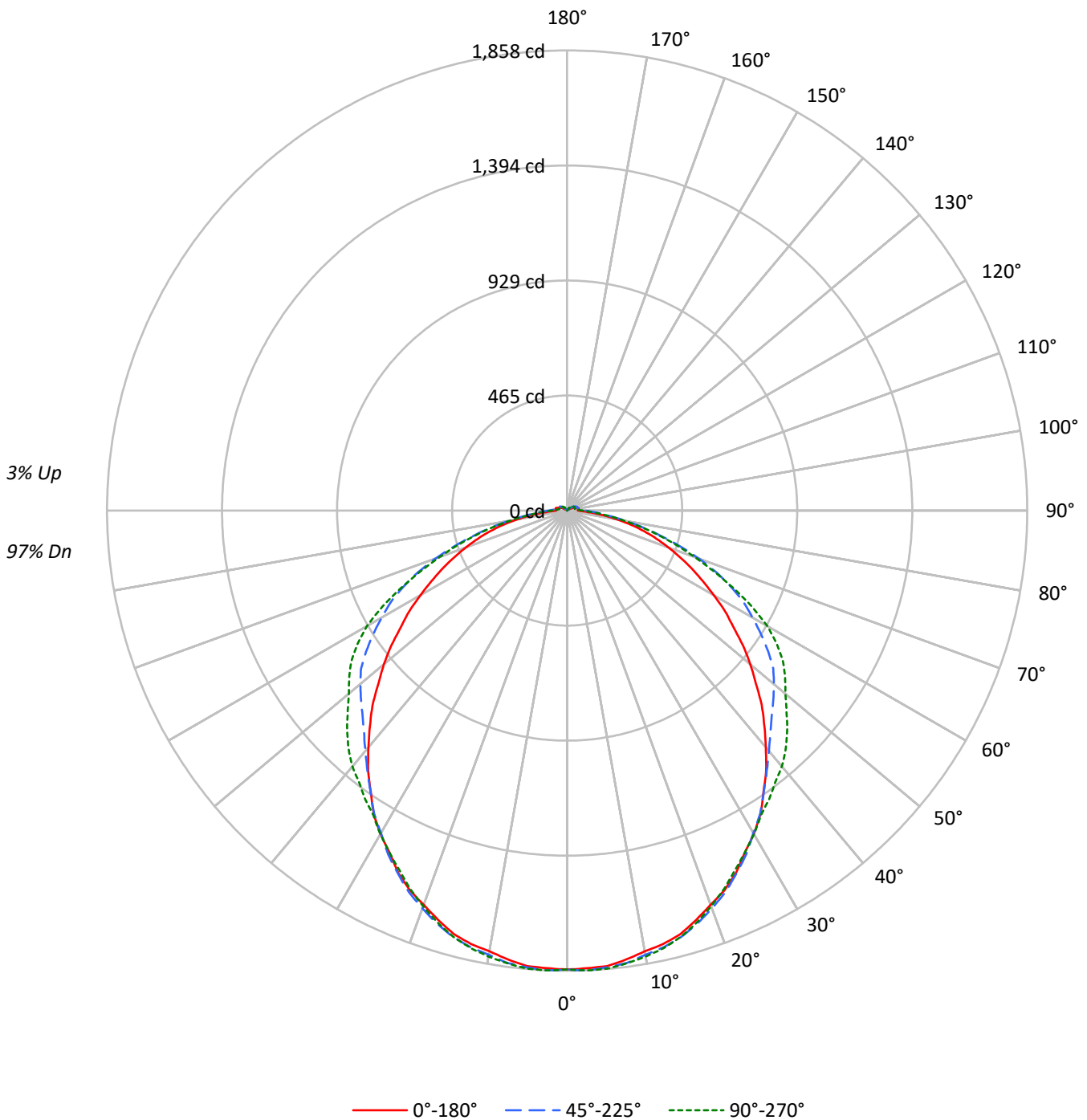
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 108 | 103 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 85 | 87 | 84 | 82 | 80 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 55 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 47 |
| 5 | 75 | 62 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 19148 | 19148 | 19148 |
| 5° | 19014 | 18723 | 18712 |
| 10° | 18696 | 18172 | 18118 |
| 15° | 18534 | 17679 | 17483 |
| 20° | 18094 | 16988 | 16675 |
| 25° | 17734 | 16224 | 15815 |
| 30° | 17186 | 15349 | 15096 |
| 35° | 16517 | 14497 | 14541 |
| 40° | 15773 | 13728 | 14219 |
| 45° | 15034 | 13207 | 13773 |
| 50° | 14172 | 12994 | 13232 |
| 55° | 13229 | 12588 | 12997 |
| 60° | 12403 | 11860 | 12232 |
| 65° | 11593 | 10992 | 10553 |
| 70° | 10772 | 9458 | 8621 |
| 75° | 9879 | 7423 | 6757 |
| 80° | 8355 | 5325 | 4787 |
| 85° | 6156 | 3586 | 3019 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.7 | 3.2 |
| 10°-20° | 500.4 | 9.2 |
| 20°-30° | 742.8 | 13.6 |
| 30°-40° | 874.9 | 16.0 |
| 40°-50° | 908.2 | 16.6 |
| 50°-60° | 852.4 | 15.6 |
| 60°-70° | 685.3 | 12.6 |
| 70°-80° | 406.7 | 7.5 |
| 80°-90° | 149.1 | 2.7 |
| 90°-100° | 55.8 | 1.0 |
| 100°-110° | 42.5 | 0.8 |
| 110°-120° | 32.5 | 0.6 |
| 120°-130° | 19.6 | 0.4 |
| 130°-140° | 9.2 | 0.2 |
| 140°-150° | 1.7 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1418.9 | 26.0 |
| 0°-40° | 2293.9 | 42.0 |
| 0°-60° | 4054.4 | 74.3 |
| 0°-90° | 5295.5 | 97.0 |
| 90°-120° | 130.9 | 2.4 |
| 90°-150° | 161.4 | 3.0 |
| 90°-180° | 161.0 | 3.0 |
| 0°-180° | 5456.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1853 | 1853 | 1853 | 1853 | 1853 | |
| 5° | 1846 | 1846 | 1851 | 1857 | 1857 | 175 |
| 15° | 1770 | 1771 | 1782 | 1782 | 1780 | 498 |
| 25° | 1613 | 1613 | 1617 | 1612 | 1603 | 741 |
| 35° | 1383 | 1393 | 1384 | 1404 | 1422 | 866 |
| 45° | 1111 | 1109 | 1168 | 1246 | 1257 | 855 |
| 55° | 818 | 847 | 990 | 1037 | 1065 | 736 |
| 65° | 556 | 653 | 731 | 753 | 740 | 551 |
| 75° | 321 | 408 | 389 | 387 | 380 | 338 |
| 85° | 99 | 137 | 131 | 128 | 122 | 103 |
| 90° | 44 | 74 | 74 | 69 | 64 | 26 |
| 95° | 46 | 53 | 52 | 46 | 41 | 38 |
| 105° | 43 | 43 | 44 | 37 | 32 | 45 |
| 115° | 25 | 28 | 39 | 36 | 32 | 25 |
| 125° | 11 | 12 | 25 | 28 | 28 | 10 |
| 135° | 5 | 4 | 12 | 18 | 20 | 4 |
| 145° | 0 | 0 | 0 | 0 | 0 | 1 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P237751

CATALOG NUMBER: 2VT2-LD5-5-DR100-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1853.0 | 1853.0 | 1853.0 | 1853.0 | 1853.0 |
| 2.5° | 1849.5 | 1853.0 | 1858.3 | 1858.3 | 1858.3 |
| 5° | 1845.9 | 1845.9 | 1851.2 | 1856.6 | 1856.6 |
| 7.5° | 1828.2 | 1831.7 | 1842.4 | 1842.4 | 1844.1 |
| 10° | 1806.9 | 1817.5 | 1821.1 | 1828.2 | 1828.2 |
| 12.5° | 1792.7 | 1796.2 | 1805.1 | 1808.6 | 1808.6 |
| 15° | 1769.6 | 1771.4 | 1782.0 | 1782.0 | 1780.2 |
| 17.5° | 1732.3 | 1737.6 | 1748.3 | 1748.3 | 1743.0 |
| 20° | 1693.3 | 1705.7 | 1709.2 | 1703.9 | 1700.4 |
| 22.5° | 1659.5 | 1663.1 | 1668.4 | 1659.5 | 1654.2 |
| 25° | 1613.4 | 1613.4 | 1616.9 | 1611.6 | 1602.7 |
| 27.5° | 1554.8 | 1567.3 | 1565.5 | 1561.9 | 1554.8 |
| 30° | 1506.9 | 1514.0 | 1503.4 | 1505.1 | 1508.7 |
| 32.5° | 1453.7 | 1457.2 | 1450.1 | 1453.7 | 1457.2 |
| 35° | 1382.7 | 1393.3 | 1384.4 | 1404.0 | 1421.7 |
| 37.5° | 1320.5 | 1327.6 | 1324.1 | 1363.1 | 1380.9 |
| 40° | 1247.8 | 1254.9 | 1267.3 | 1324.1 | 1348.9 |
| 42.5° | 1178.5 | 1180.3 | 1214.0 | 1286.8 | 1306.3 |
| 45° | 1111.1 | 1109.3 | 1167.9 | 1246.0 | 1256.6 |
| 47.5° | 1033.0 | 1038.3 | 1128.8 | 1196.3 | 1201.6 |
| 50° | 965.6 | 974.4 | 1089.8 | 1134.2 | 1150.1 |
| 52.5° | 894.6 | 908.8 | 1049.0 | 1082.7 | 1109.3 |
| 55° | 818.2 | 846.6 | 990.4 | 1036.6 | 1064.9 |
| 57.5° | 756.1 | 791.6 | 928.3 | 983.3 | 1004.6 |
| 60° | 683.3 | 743.7 | 864.4 | 917.6 | 933.6 |
| 62.5° | 617.7 | 697.5 | 804.0 | 839.5 | 841.3 |
| 65° | 555.5 | 653.2 | 731.3 | 752.6 | 740.1 |
| 67.5° | 493.4 | 603.5 | 651.4 | 653.2 | 640.7 |
| 70° | 434.9 | 544.9 | 564.4 | 557.3 | 546.7 |
| 72.5° | 378.1 | 477.5 | 475.7 | 466.8 | 463.3 |
| 75° | 321.3 | 408.2 | 388.7 | 386.9 | 379.8 |
| 77.5° | 262.7 | 335.5 | 310.6 | 308.8 | 303.5 |
| 80° | 204.1 | 257.4 | 237.8 | 239.6 | 232.5 |
| 82.5° | 147.3 | 195.2 | 177.5 | 179.3 | 172.2 |
| 85° | 99.4 | 136.7 | 131.3 | 127.8 | 122.5 |
| 87.5° | 58.6 | 95.8 | 95.8 | 94.1 | 87.0 |
| 90° | 44.4 | 74.5 | 74.5 | 69.2 | 63.9 |
| 92.5° | 42.6 | 60.3 | 60.3 | 55.0 | 49.7 |
| 95° | 46.1 | 53.2 | 51.5 | 46.1 | 40.8 |
| 97.5° | 47.9 | 49.7 | 47.9 | 40.8 | 37.3 |
| 100° | 47.9 | 46.1 | 46.1 | 37.3 | 33.7 |
| 102.5° | 46.1 | 44.4 | 44.4 | 37.3 | 31.9 |
| 105° | 42.6 | 42.6 | 44.4 | 37.3 | 31.9 |
| 107.5° | 39.0 | 40.8 | 42.6 | 37.3 | 31.9 |
| 110° | 33.7 | 37.3 | 42.6 | 37.3 | 31.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 30.2 | 33.7 | 40.8 | 35.5 | 31.9 |
| 115° | 24.8 | 28.4 | 39.0 | 35.5 | 31.9 |
| 117.5° | 21.3 | 24.8 | 35.5 | 33.7 | 31.9 |
| 120° | 17.7 | 19.5 | 33.7 | 33.7 | 30.2 |
| 122.5° | 14.2 | 16.0 | 30.2 | 31.9 | 30.2 |
| 125° | 10.6 | 12.4 | 24.8 | 28.4 | 28.4 |
| 127.5° | 8.9 | 8.9 | 21.3 | 26.6 | 26.6 |
| 130° | 7.1 | 7.1 | 17.7 | 24.8 | 24.8 |
| 132.5° | 5.3 | 5.3 | 14.2 | 21.3 | 23.1 |
| 135° | 5.3 | 3.5 | 12.4 | 17.7 | 19.5 |
| 137.5° | 3.5 | 3.5 | 8.9 | 16.0 | 17.7 |
| 140° | 3.5 | 3.5 | 7.1 | 12.4 | 14.2 |
| 142.5° | 3.5 | 1.8 | 3.5 | 10.6 | 12.4 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)