

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: P237746

Luminaire Tested: **2VT2-LD5-4-DR100-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237746
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-LD5-4-DR100-UNV-L835-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4054.0 lumens
Efficiency: N/A
Efficacy: 140.3 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

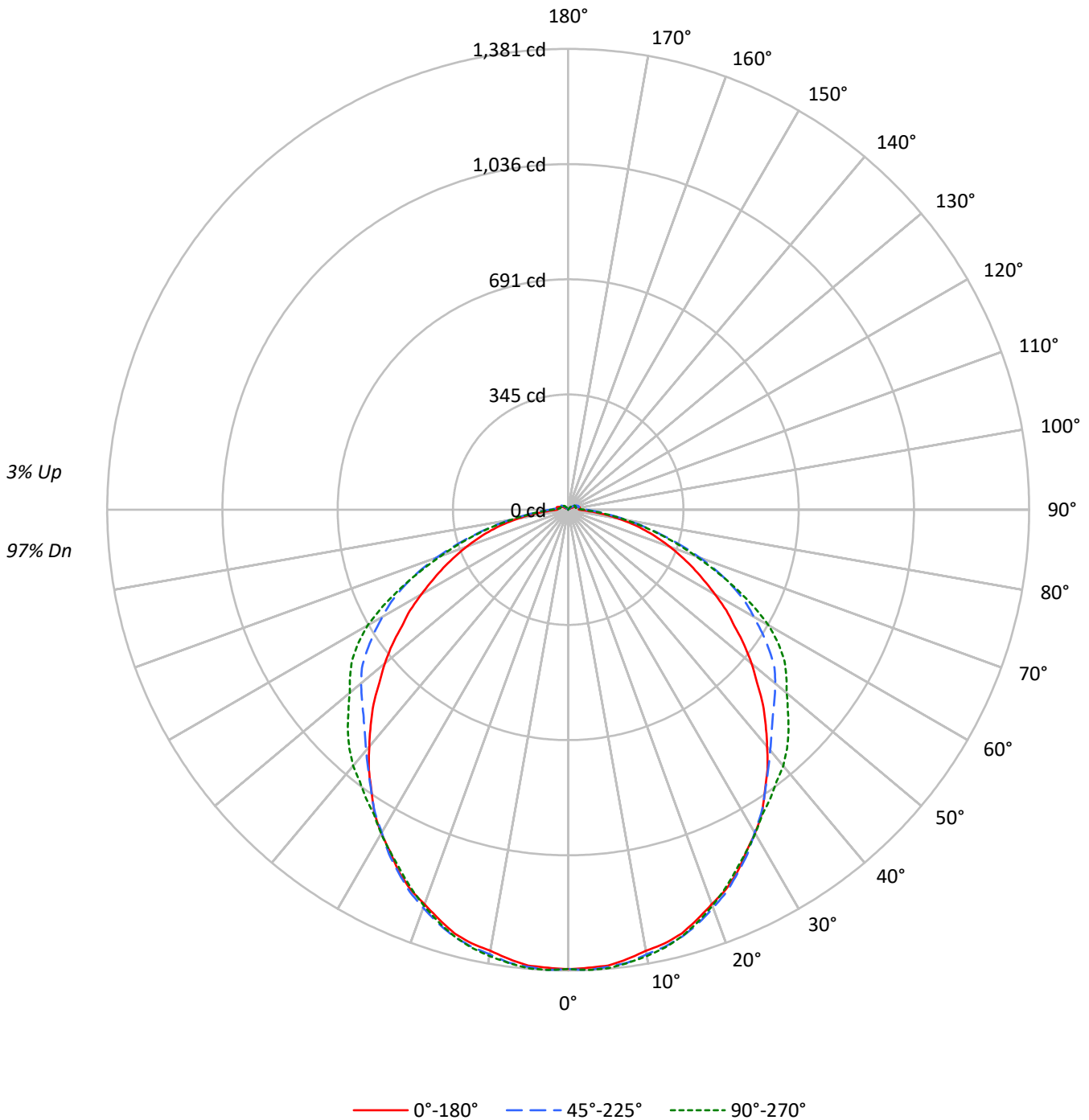
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237746

CATALOG NUMBER: 2VT2-LD5-4-DR100-UNV-L835-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237746

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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° | 14225 | 14225 | 14225 |
| 5° | 14125 | 13910 | 13901 |
| 10° | 13889 | 13500 | 13459 |
| 15° | 13768 | 13134 | 12988 |
| 20° | 13441 | 12621 | 12388 |
| 25° | 13174 | 12053 | 11750 |
| 30° | 12768 | 11402 | 11215 |
| 35° | 12270 | 10770 | 10802 |
| 40° | 11718 | 10199 | 10563 |
| 45° | 11169 | 9811 | 10232 |
| 50° | 10528 | 9653 | 9830 |
| 55° | 9829 | 9352 | 9657 |
| 60° | 9216 | 8812 | 9088 |
| 65° | 8613 | 8166 | 7839 |
| 70° | 8003 | 7026 | 6404 |
| 75° | 7339 | 5515 | 5021 |
| 80° | 6206 | 3957 | 3556 |
| 85° | 4571 | 2666 | 2243 |



TEST NUMBER: P237746

CATALOG NUMBER: 2VT2-LD5-4-DR100-UNV-L835-CD1-WL-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.5 | 3.2 |
| 10°-20° | 371.8 | 9.2 |
| 20°-30° | 551.9 | 13.6 |
| 30°-40° | 650.0 | 16.0 |
| 40°-50° | 674.7 | 16.6 |
| 50°-60° | 633.2 | 15.6 |
| 60°-70° | 509.1 | 12.6 |
| 70°-80° | 302.1 | 7.5 |
| 80°-90° | 110.8 | 2.7 |
| 90°-100° | 41.5 | 1.0 |
| 100°-110° | 31.6 | 0.8 |
| 110°-120° | 24.2 | 0.6 |
| 120°-130° | 14.6 | 0.4 |
| 130°-140° | 6.9 | 0.2 |
| 140°-150° | 1.2 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1054.1 | 26.0 |
| 0°-40° | 1704.1 | 42.0 |
| 0°-60° | 3012.1 | 74.3 |
| 0°-90° | 3934.1 | 97.0 |
| 90°-120° | 97.3 | 2.4 |
| 90°-150° | 120.0 | 3.0 |
| 90°-180° | 120.0 | 3.0 |
| 0°-180° | 4054.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1377 | 1377 | 1377 | 1377 | 1377 | |
| 5° | 1371 | 1371 | 1375 | 1379 | 1379 | 130 |
| 15° | 1315 | 1316 | 1324 | 1324 | 1322 | 370 |
| 25° | 1199 | 1199 | 1201 | 1197 | 1191 | 551 |
| 35° | 1027 | 1035 | 1028 | 1043 | 1056 | 643 |
| 45° | 825 | 824 | 868 | 926 | 934 | 635 |
| 55° | 608 | 629 | 736 | 770 | 791 | 547 |
| 65° | 413 | 485 | 543 | 559 | 550 | 409 |
| 75° | 239 | 303 | 289 | 288 | 282 | 251 |
| 85° | 74 | 102 | 98 | 95 | 91 | 76 |
| 90° | 33 | 55 | 55 | 51 | 48 | 19 |
| 95° | 34 | 40 | 38 | 34 | 30 | 28 |
| 105° | 32 | 32 | 33 | 28 | 24 | 33 |
| 115° | 18 | 21 | 29 | 26 | 24 | 19 |
| 125° | 8 | 9 | 18 | 21 | 21 | 8 |
| 135° | 4 | 3 | 9 | 13 | 14 | 3 |
| 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: P237746

CATALOG NUMBER: 2VT2-LD5-4-DR100-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1376.6 | 1376.6 | 1376.6 | 1376.6 | 1376.6 |
| 2.5° | 1374.0 | 1376.6 | 1380.6 | 1380.6 | 1380.6 |
| 5° | 1371.3 | 1371.3 | 1375.3 | 1379.2 | 1379.2 |
| 7.5° | 1358.1 | 1360.8 | 1368.7 | 1368.7 | 1370.0 |
| 10° | 1342.3 | 1350.2 | 1352.9 | 1358.1 | 1358.1 |
| 12.5° | 1331.8 | 1334.4 | 1341.0 | 1343.6 | 1343.6 |
| 15° | 1314.6 | 1315.9 | 1323.9 | 1323.9 | 1322.5 |
| 17.5° | 1286.9 | 1290.9 | 1298.8 | 1298.8 | 1294.8 |
| 20° | 1257.9 | 1267.2 | 1269.8 | 1265.8 | 1263.2 |
| 22.5° | 1232.9 | 1235.5 | 1239.5 | 1232.9 | 1228.9 |
| 25° | 1198.6 | 1198.6 | 1201.2 | 1197.3 | 1190.7 |
| 27.5° | 1155.1 | 1164.3 | 1163.0 | 1160.4 | 1155.1 |
| 30° | 1119.5 | 1124.8 | 1116.8 | 1118.2 | 1120.8 |
| 32.5° | 1079.9 | 1082.6 | 1077.3 | 1079.9 | 1082.6 |
| 35° | 1027.2 | 1035.1 | 1028.5 | 1043.0 | 1056.2 |
| 37.5° | 981.0 | 986.3 | 983.7 | 1012.7 | 1025.9 |
| 40° | 927.0 | 932.2 | 941.5 | 983.7 | 1002.1 |
| 42.5° | 875.5 | 876.9 | 901.9 | 956.0 | 970.5 |
| 45° | 825.4 | 824.1 | 867.6 | 925.6 | 933.6 |
| 47.5° | 767.4 | 771.4 | 838.6 | 888.7 | 892.7 |
| 50° | 717.3 | 723.9 | 809.6 | 842.6 | 854.4 |
| 52.5° | 664.6 | 675.1 | 779.3 | 804.3 | 824.1 |
| 55° | 607.9 | 629.0 | 735.8 | 770.1 | 791.2 |
| 57.5° | 561.7 | 588.1 | 689.6 | 730.5 | 746.3 |
| 60° | 507.7 | 552.5 | 642.2 | 681.7 | 693.6 |
| 62.5° | 458.9 | 518.2 | 597.3 | 623.7 | 625.0 |
| 65° | 412.7 | 485.2 | 543.3 | 559.1 | 549.8 |
| 67.5° | 366.6 | 448.3 | 483.9 | 485.2 | 476.0 |
| 70° | 323.1 | 404.8 | 419.3 | 414.0 | 406.1 |
| 72.5° | 280.9 | 354.7 | 353.4 | 346.8 | 344.2 |
| 75° | 238.7 | 303.3 | 288.8 | 287.5 | 282.2 |
| 77.5° | 195.2 | 249.2 | 230.8 | 229.4 | 225.5 |
| 80° | 151.6 | 191.2 | 176.7 | 178.0 | 172.7 |
| 82.5° | 109.4 | 145.0 | 131.9 | 133.2 | 127.9 |
| 85° | 73.8 | 101.5 | 97.6 | 94.9 | 91.0 |
| 87.5° | 43.5 | 71.2 | 71.2 | 69.9 | 64.6 |
| 90° | 33.0 | 55.4 | 55.4 | 51.4 | 47.5 |
| 92.5° | 31.6 | 44.8 | 44.8 | 40.9 | 36.9 |
| 95° | 34.3 | 39.6 | 38.2 | 34.3 | 30.3 |
| 97.5° | 35.6 | 36.9 | 35.6 | 30.3 | 27.7 |
| 100° | 35.6 | 34.3 | 34.3 | 27.7 | 25.1 |
| 102.5° | 34.3 | 33.0 | 33.0 | 27.7 | 23.7 |
| 105° | 31.6 | 31.6 | 33.0 | 27.7 | 23.7 |
| 107.5° | 29.0 | 30.3 | 31.6 | 27.7 | 23.7 |
| 110° | 25.1 | 27.7 | 31.6 | 27.7 | 23.7 |



TEST NUMBER: P237746

CATALOG NUMBER: 2VT2-LD5-4-DR100-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 22.4 | 25.1 | 30.3 | 26.4 | 23.7 |
| 115° | 18.5 | 21.1 | 29.0 | 26.4 | 23.7 |
| 117.5° | 15.8 | 18.5 | 26.4 | 25.1 | 23.7 |
| 120° | 13.2 | 14.5 | 25.1 | 25.1 | 22.4 |
| 122.5° | 10.5 | 11.9 | 22.4 | 23.7 | 22.4 |
| 125° | 7.9 | 9.2 | 18.5 | 21.1 | 21.1 |
| 127.5° | 6.6 | 6.6 | 15.8 | 19.8 | 19.8 |
| 130° | 5.3 | 5.3 | 13.2 | 18.5 | 18.5 |
| 132.5° | 4.0 | 4.0 | 10.5 | 15.8 | 17.1 |
| 135° | 4.0 | 2.6 | 9.2 | 13.2 | 14.5 |
| 137.5° | 2.6 | 2.6 | 6.6 | 11.9 | 13.2 |
| 140° | 2.6 | 2.6 | 5.3 | 9.2 | 10.5 |
| 142.5° | 2.6 | 1.3 | 2.6 | 7.9 | 9.2 |
| 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)