

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: P237745

Luminaire Tested: **2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237745
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: 2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 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: 3260.0 lumens
Efficiency: N/A
Efficacy: 149.5 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

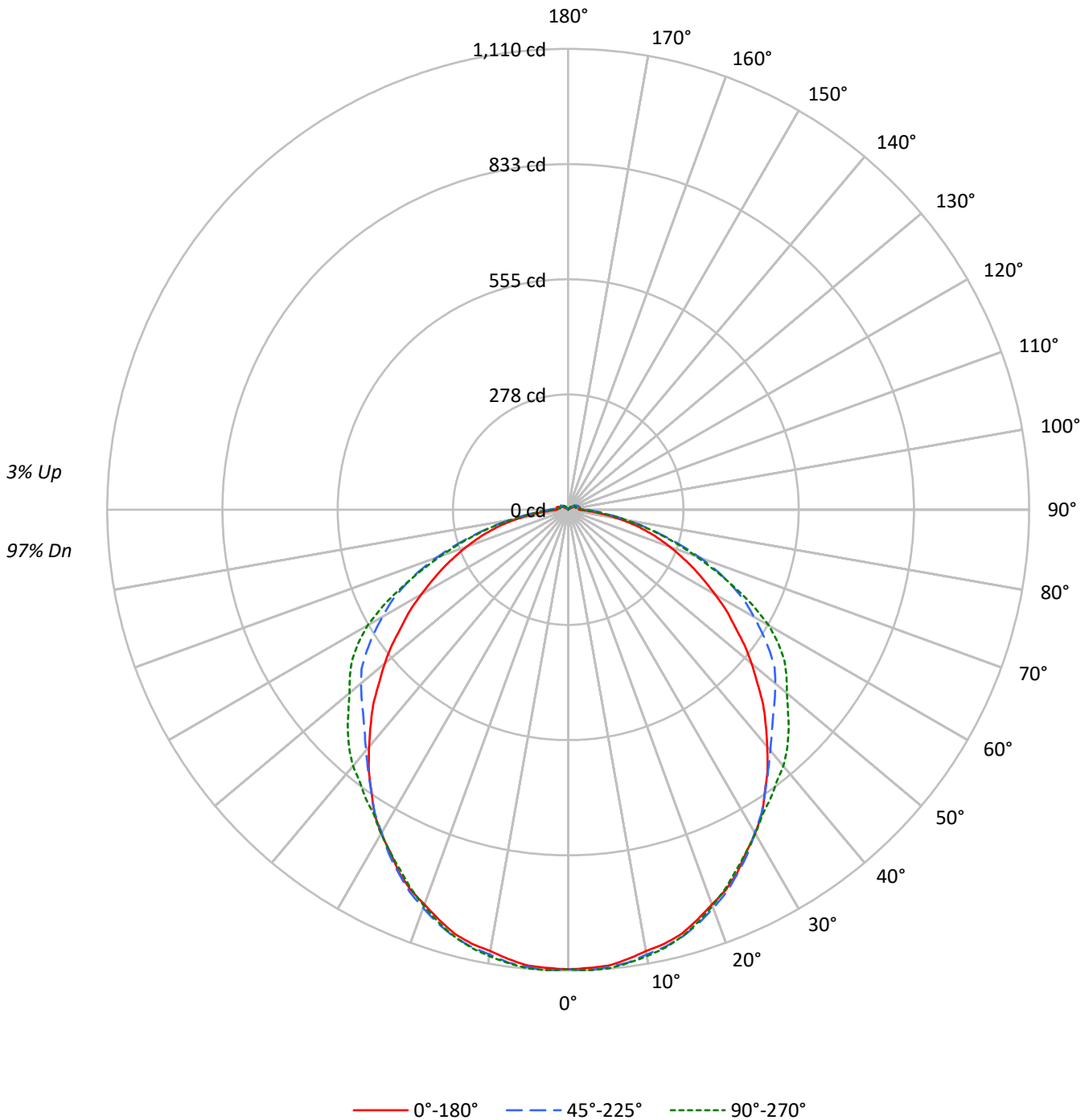
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237745

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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° | 11439 | 11439 | 11439 |
| 5° | 11359 | 11185 | 11179 |
| 10° | 11168 | 10856 | 10823 |
| 15° | 11072 | 10562 | 10444 |
| 20° | 10809 | 10149 | 9962 |
| 25° | 10594 | 9693 | 9448 |
| 30° | 10267 | 9169 | 9019 |
| 35° | 9867 | 8661 | 8686 |
| 40° | 9422 | 8201 | 8495 |
| 45° | 8982 | 7890 | 8228 |
| 50° | 8465 | 7762 | 7905 |
| 55° | 7903 | 7521 | 7765 |
| 60° | 7409 | 7085 | 7307 |
| 65° | 6927 | 6567 | 6305 |
| 70° | 6435 | 5650 | 5151 |
| 75° | 5900 | 4434 | 4037 |
| 80° | 4990 | 3182 | 2860 |
| 85° | 3679 | 2144 | 1804 |



TEST NUMBER: P237745

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.9 | 3.2 |
| 10°-20° | 299.0 | 9.2 |
| 20°-30° | 443.8 | 13.6 |
| 30°-40° | 522.7 | 16.0 |
| 40°-50° | 542.6 | 16.6 |
| 50°-60° | 509.2 | 15.6 |
| 60°-70° | 409.4 | 12.6 |
| 70°-80° | 243.0 | 7.5 |
| 80°-90° | 89.1 | 2.7 |
| 90°-100° | 33.4 | 1.0 |
| 100°-110° | 25.4 | 0.8 |
| 110°-120° | 19.4 | 0.6 |
| 120°-130° | 11.7 | 0.4 |
| 130°-140° | 5.5 | 0.2 |
| 140°-150° | 1.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 847.7 | 26.0 |
| 0°-40° | 1370.4 | 42.0 |
| 0°-60° | 2422.1 | 74.3 |
| 0°-90° | 3163.5 | 97.0 |
| 90°-120° | 78.2 | 2.4 |
| 90°-150° | 96.5 | 3.0 |
| 90°-180° | 96.0 | 2.9 |
| 0°-180° | 3260.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1107 | 1107 | 1107 | 1107 | 1107 | |
| 5° | 1103 | 1103 | 1106 | 1109 | 1109 | 104 |
| 15° | 1057 | 1058 | 1065 | 1065 | 1064 | 297 |
| 25° | 964 | 964 | 966 | 963 | 958 | 443 |
| 35° | 826 | 832 | 827 | 839 | 849 | 517 |
| 45° | 664 | 663 | 698 | 744 | 751 | 511 |
| 55° | 489 | 506 | 592 | 619 | 636 | 440 |
| 65° | 332 | 390 | 437 | 450 | 442 | 329 |
| 75° | 192 | 244 | 232 | 231 | 227 | 202 |
| 85° | 59 | 82 | 78 | 76 | 73 | 61 |
| 90° | 26 | 44 | 44 | 41 | 38 | 16 |
| 95° | 28 | 32 | 31 | 28 | 24 | 23 |
| 105° | 25 | 25 | 26 | 22 | 19 | 27 |
| 115° | 15 | 17 | 23 | 21 | 19 | 15 |
| 125° | 6 | 7 | 15 | 17 | 17 | 6 |
| 135° | 3 | 2 | 7 | 11 | 12 | 2 |
| 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: P237745

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1107.0 | 1107.0 | 1107.0 | 1107.0 | 1107.0 |
| 2.5° | 1104.9 | 1107.0 | 1110.2 | 1110.2 | 1110.2 |
| 5° | 1102.7 | 1102.7 | 1105.9 | 1109.1 | 1109.1 |
| 7.5° | 1092.1 | 1094.3 | 1100.6 | 1100.6 | 1101.7 |
| 10° | 1079.4 | 1085.8 | 1087.9 | 1092.1 | 1092.1 |
| 12.5° | 1070.9 | 1073.1 | 1078.4 | 1080.5 | 1080.5 |
| 15° | 1057.2 | 1058.2 | 1064.6 | 1064.6 | 1063.5 |
| 17.5° | 1034.9 | 1038.1 | 1044.4 | 1044.4 | 1041.2 |
| 20° | 1011.6 | 1019.0 | 1021.1 | 1017.9 | 1015.8 |
| 22.5° | 991.4 | 993.5 | 996.7 | 991.4 | 988.2 |
| 25° | 963.8 | 963.8 | 966.0 | 962.8 | 957.5 |
| 27.5° | 928.9 | 936.3 | 935.2 | 933.1 | 928.9 |
| 30° | 900.2 | 904.5 | 898.1 | 899.2 | 901.3 |
| 32.5° | 868.4 | 870.5 | 866.3 | 868.4 | 870.5 |
| 35° | 826.0 | 832.4 | 827.1 | 838.7 | 849.3 |
| 37.5° | 788.9 | 793.1 | 791.0 | 814.3 | 824.9 |
| 40° | 745.4 | 749.7 | 757.1 | 791.0 | 805.9 |
| 42.5° | 704.1 | 705.1 | 725.3 | 768.7 | 780.4 |
| 45° | 663.8 | 662.7 | 697.7 | 744.4 | 750.7 |
| 47.5° | 617.1 | 620.3 | 674.4 | 714.7 | 717.8 |
| 50° | 576.8 | 582.1 | 651.0 | 677.6 | 687.1 |
| 52.5° | 534.4 | 542.9 | 626.7 | 646.8 | 662.7 |
| 55° | 488.8 | 505.8 | 591.7 | 619.2 | 636.2 |
| 57.5° | 451.7 | 472.9 | 554.6 | 587.4 | 600.1 |
| 60° | 408.2 | 444.3 | 516.4 | 548.2 | 557.7 |
| 62.5° | 369.0 | 416.7 | 480.3 | 501.5 | 502.6 |
| 65° | 331.9 | 390.2 | 436.9 | 449.6 | 442.2 |
| 67.5° | 294.8 | 360.5 | 389.1 | 390.2 | 382.8 |
| 70° | 259.8 | 325.5 | 337.2 | 332.9 | 326.6 |
| 72.5° | 225.9 | 285.2 | 284.2 | 278.9 | 276.7 |
| 75° | 191.9 | 243.9 | 232.2 | 231.2 | 226.9 |
| 77.5° | 156.9 | 200.4 | 185.6 | 184.5 | 181.3 |
| 80° | 121.9 | 153.7 | 142.1 | 143.1 | 138.9 |
| 82.5° | 88.0 | 116.6 | 106.0 | 107.1 | 102.9 |
| 85° | 59.4 | 81.6 | 78.5 | 76.3 | 73.2 |
| 87.5° | 35.0 | 57.3 | 57.3 | 56.2 | 52.0 |
| 90° | 26.5 | 44.5 | 44.5 | 41.4 | 38.2 |
| 92.5° | 25.4 | 36.1 | 36.1 | 32.9 | 29.7 |
| 95° | 27.6 | 31.8 | 30.7 | 27.6 | 24.4 |
| 97.5° | 28.6 | 29.7 | 28.6 | 24.4 | 22.3 |
| 100° | 28.6 | 27.6 | 27.6 | 22.3 | 20.1 |
| 102.5° | 27.6 | 26.5 | 26.5 | 22.3 | 19.1 |
| 105° | 25.4 | 25.4 | 26.5 | 22.3 | 19.1 |
| 107.5° | 23.3 | 24.4 | 25.4 | 22.3 | 19.1 |
| 110° | 20.1 | 22.3 | 25.4 | 22.3 | 19.1 |



TEST NUMBER: P237745

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 18.0 | 20.1 | 24.4 | 21.2 | 19.1 |
| 115° | 14.8 | 17.0 | 23.3 | 21.2 | 19.1 |
| 117.5° | 12.7 | 14.8 | 21.2 | 20.1 | 19.1 |
| 120° | 10.6 | 11.7 | 20.1 | 20.1 | 18.0 |
| 122.5° | 8.5 | 9.5 | 18.0 | 19.1 | 18.0 |
| 125° | 6.4 | 7.4 | 14.8 | 17.0 | 17.0 |
| 127.5° | 5.3 | 5.3 | 12.7 | 15.9 | 15.9 |
| 130° | 4.2 | 4.2 | 10.6 | 14.8 | 14.8 |
| 132.5° | 3.2 | 3.2 | 8.5 | 12.7 | 13.8 |
| 135° | 3.2 | 2.1 | 7.4 | 10.6 | 11.7 |
| 137.5° | 2.1 | 2.1 | 5.3 | 9.5 | 10.6 |
| 140° | 2.1 | 2.1 | 4.2 | 7.4 | 8.5 |
| 142.5° | 2.1 | 1.1 | 2.1 | 6.4 | 7.4 |
| 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)