

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: P237785

Luminaire Tested: **8VRVT2-LD5-9-DR-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-9-DR-UNV-L835-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9054.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

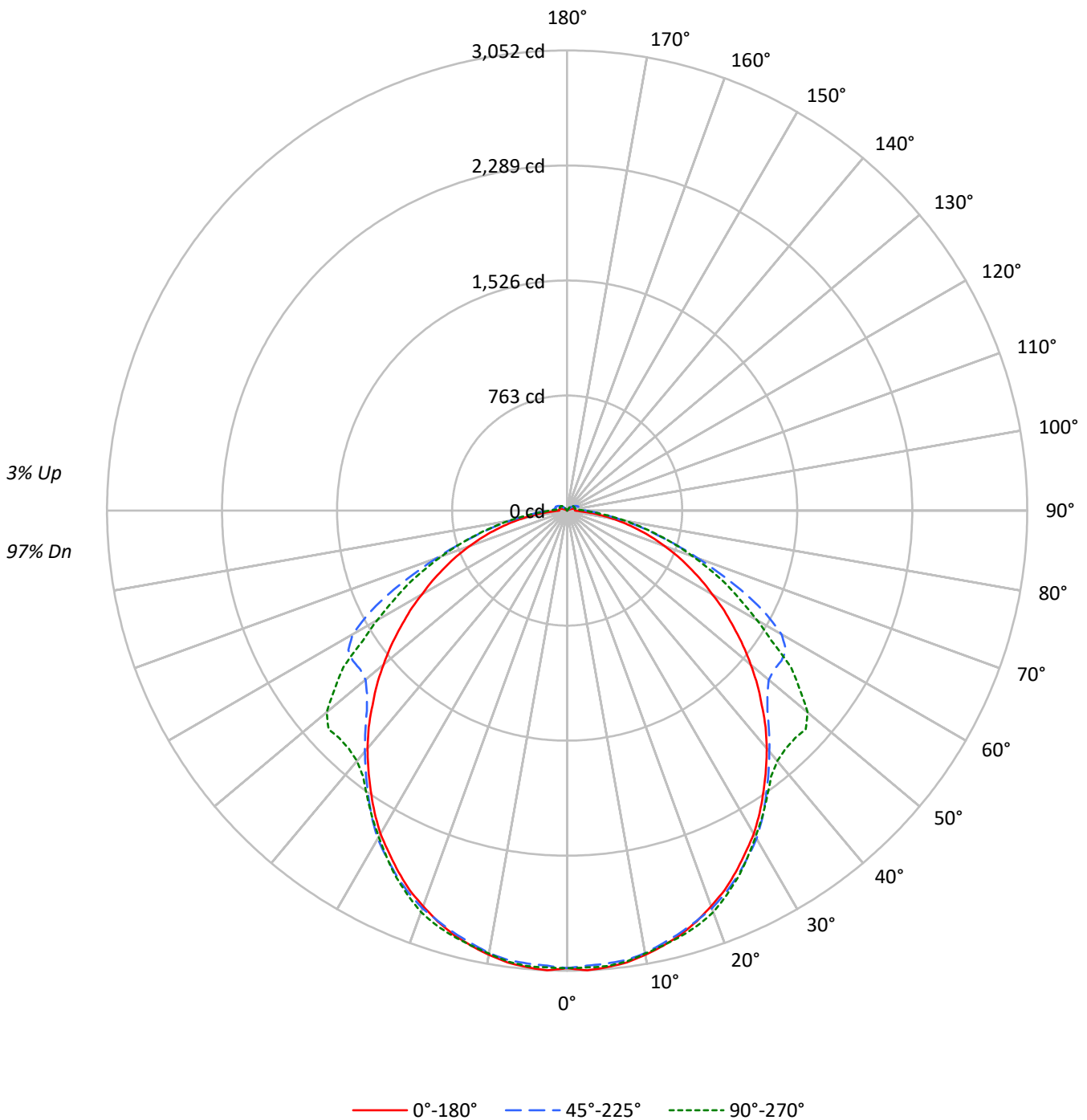
Input Watts (W): 65.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8VRVT2-LD5-9-DR-UNV-L835-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237785

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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 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 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 | 51 | 62 | 56 | 50 | 59 | 54 | 49 | 47 |
| 5 | 75 | 61 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 55 | 49 | 44 | 53 | 47 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 35 |
| 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 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7839 | 7839 | 7839 |
| 5° | 7871 | 7653 | 7643 |
| 10° | 7822 | 7489 | 7392 |
| 15° | 7746 | 7266 | 7174 |
| 20° | 7620 | 7073 | 6949 |
| 25° | 7472 | 6826 | 6621 |
| 30° | 7299 | 6551 | 6250 |
| 35° | 7062 | 6176 | 5914 |
| 40° | 6833 | 5817 | 5714 |
| 45° | 6541 | 5492 | 5853 |
| 50° | 6240 | 5407 | 5989 |
| 55° | 5905 | 5762 | 5532 |
| 60° | 5559 | 5922 | 4767 |
| 65° | 5249 | 5181 | 4177 |
| 70° | 4927 | 4123 | 3491 |
| 75° | 4533 | 3162 | 2775 |
| 80° | 4022 | 2311 | 2023 |
| 85° | 3312 | 1662 | 1287 |



TEST NUMBER: P237785

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 288.0 | 3.2 |
| 10°-20° | 822.8 | 9.1 |
| 20°-30° | 1229.8 | 13.6 |
| 30°-40° | 1440.8 | 15.9 |
| 40°-50° | 1507.8 | 16.7 |
| 50°-60° | 1458.3 | 16.1 |
| 60°-70° | 1133.7 | 12.5 |
| 70°-80° | 668.8 | 7.4 |
| 80°-90° | 241.0 | 2.7 |
| 90°-100° | 89.9 | 1.0 |
| 100°-110° | 67.3 | 0.7 |
| 110°-120° | 52.1 | 0.6 |
| 120°-130° | 33.2 | 0.4 |
| 130°-140° | 17.1 | 0.2 |
| 140°-150° | 3.4 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2340.6 | 25.9 |
| 0°-40° | 3781.4 | 41.8 |
| 0°-60° | 6747.5 | 74.5 |
| 0°-90° | 8791.0 | 97.1 |
| 90°-120° | 209.3 | 2.3 |
| 90°-150° | 263.0 | 2.9 |
| 90°-180° | 263.0 | 2.9 |
| 0°-180° | 9054.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3035 | 3035 | 3035 | 3035 | 3035 | |
| 5° | 3040 | 3026 | 3016 | 3042 | 3033 | 289 |
| 15° | 2912 | 2921 | 2899 | 2934 | 2922 | 820 |
| 25° | 2646 | 2658 | 2674 | 2694 | 2684 | 1218 |
| 35° | 2270 | 2300 | 2301 | 2314 | 2313 | 1421 |
| 45° | 1826 | 1858 | 1879 | 2059 | 2136 | 1411 |
| 55° | 1348 | 1395 | 1736 | 1851 | 1813 | 1208 |
| 65° | 896 | 1077 | 1302 | 1163 | 1172 | 890 |
| 75° | 488 | 729 | 612 | 620 | 624 | 519 |
| 85° | 137 | 216 | 216 | 215 | 209 | 148 |
| 90° | 53 | 112 | 124 | 118 | 111 | 32 |
| 95° | 54 | 82 | 91 | 79 | 70 | 43 |
| 105° | 44 | 64 | 79 | 63 | 54 | 46 |
| 115° | 22 | 42 | 70 | 60 | 53 | 23 |
| 125° | 9 | 16 | 48 | 53 | 50 | 9 |
| 135° | 4 | 3 | 25 | 38 | 39 | 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: P237785

CATALOG NUMBER: 8VRVT2-LD5-9-DR-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3034.6 | 3034.6 | 3034.6 | 3034.6 | 3034.6 |
| 2.5° | 3052.1 | 3037.5 | 3021.4 | 3040.4 | 3033.1 |
| 5° | 3040.4 | 3025.8 | 3015.6 | 3041.9 | 3033.1 |
| 7.5° | 3022.9 | 3012.7 | 3006.8 | 3028.7 | 3017.0 |
| 10° | 2992.2 | 2987.8 | 2980.5 | 3002.4 | 2983.4 |
| 12.5° | 2954.2 | 2958.6 | 2939.6 | 2964.4 | 2952.8 |
| 15° | 2911.8 | 2920.6 | 2898.7 | 2933.8 | 2922.1 |
| 17.5° | 2856.3 | 2866.6 | 2853.4 | 2897.2 | 2884.1 |
| 20° | 2792.0 | 2797.9 | 2806.7 | 2837.3 | 2834.4 |
| 22.5° | 2726.3 | 2730.7 | 2745.3 | 2768.7 | 2761.4 |
| 25° | 2645.9 | 2657.6 | 2673.7 | 2694.2 | 2683.9 |
| 27.5° | 2559.7 | 2577.3 | 2593.3 | 2609.4 | 2591.9 |
| 30° | 2475.0 | 2483.8 | 2513.0 | 2511.5 | 2498.4 |
| 32.5° | 2377.1 | 2399.0 | 2410.7 | 2406.3 | 2407.8 |
| 35° | 2270.5 | 2299.7 | 2301.1 | 2314.3 | 2312.8 |
| 37.5° | 2165.3 | 2197.4 | 2193.0 | 2217.9 | 2222.2 |
| 40° | 2060.1 | 2082.0 | 2086.4 | 2130.2 | 2168.2 |
| 42.5° | 1947.6 | 1969.5 | 1981.2 | 2073.2 | 2143.3 |
| 45° | 1826.3 | 1858.4 | 1878.9 | 2058.6 | 2136.0 |
| 47.5° | 1712.3 | 1741.6 | 1800.0 | 2058.6 | 2146.3 |
| 50° | 1589.6 | 1624.7 | 1745.9 | 2054.2 | 2082.0 |
| 52.5° | 1471.3 | 1506.3 | 1729.9 | 1991.4 | 1943.2 |
| 55° | 1348.5 | 1395.3 | 1735.7 | 1851.1 | 1813.1 |
| 57.5° | 1234.6 | 1300.3 | 1721.1 | 1683.1 | 1607.1 |
| 60° | 1113.3 | 1209.7 | 1642.2 | 1496.1 | 1455.2 |
| 62.5° | 1006.7 | 1136.7 | 1490.3 | 1317.9 | 1303.2 |
| 65° | 895.6 | 1076.8 | 1301.8 | 1163.0 | 1171.8 |
| 67.5° | 794.8 | 1022.7 | 1104.5 | 1021.3 | 1027.1 |
| 70° | 688.1 | 958.4 | 920.5 | 886.8 | 885.4 |
| 72.5° | 588.8 | 866.4 | 759.7 | 749.5 | 753.9 |
| 75° | 488.0 | 729.1 | 612.2 | 619.5 | 623.9 |
| 77.5° | 395.9 | 588.8 | 490.9 | 499.7 | 499.7 |
| 80° | 301.0 | 439.8 | 375.5 | 391.6 | 393.0 |
| 82.5° | 216.2 | 314.1 | 286.4 | 295.1 | 287.8 |
| 85° | 137.3 | 216.2 | 216.2 | 214.8 | 208.9 |
| 87.5° | 77.4 | 149.0 | 157.8 | 156.3 | 149.0 |
| 90° | 52.6 | 112.5 | 124.2 | 118.3 | 111.0 |
| 92.5° | 52.6 | 95.0 | 103.7 | 93.5 | 86.2 |
| 95° | 54.1 | 81.8 | 90.6 | 78.9 | 70.1 |
| 97.5° | 52.6 | 76.0 | 84.7 | 70.1 | 61.4 |
| 100° | 51.1 | 70.1 | 81.8 | 65.7 | 57.0 |
| 102.5° | 48.2 | 67.2 | 80.4 | 62.8 | 54.1 |
| 105° | 43.8 | 64.3 | 78.9 | 62.8 | 54.1 |
| 107.5° | 38.0 | 59.9 | 78.9 | 62.8 | 54.1 |
| 110° | 33.6 | 54.1 | 77.4 | 61.4 | 52.6 |



TEST NUMBER: P237785

CATALOG NUMBER: 8VRVT2-LD5-9-DR-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 27.8 | 48.2 | 74.5 | 61.4 | 52.6 |
| 115° | 21.9 | 42.4 | 70.1 | 59.9 | 52.6 |
| 117.5° | 19.0 | 35.1 | 65.7 | 59.9 | 52.6 |
| 120° | 14.6 | 29.2 | 61.4 | 57.0 | 51.1 |
| 122.5° | 11.7 | 21.9 | 55.5 | 55.5 | 49.7 |
| 125° | 8.8 | 16.1 | 48.2 | 52.6 | 49.7 |
| 127.5° | 7.3 | 11.7 | 42.4 | 49.7 | 48.2 |
| 130° | 5.8 | 7.3 | 36.5 | 46.8 | 45.3 |
| 132.5° | 4.4 | 4.4 | 30.7 | 42.4 | 42.4 |
| 135° | 4.4 | 2.9 | 24.8 | 38.0 | 39.4 |
| 137.5° | 2.9 | 2.9 | 19.0 | 32.1 | 35.1 |
| 140° | 2.9 | 2.9 | 14.6 | 27.8 | 30.7 |
| 142.5° | 2.9 | 2.9 | 10.2 | 21.9 | 24.8 |
| 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)