

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: P233262

Luminaire Tested: **2VRVT3-LD5-4-G-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VRVT3-LD5-4-G-UNV-L835-CD1-U  
Description: 2FT VRVT3 GENRAL APPLICATION, 4000LM  
Light Source: (196) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4058.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')  
CIE Type: Direct

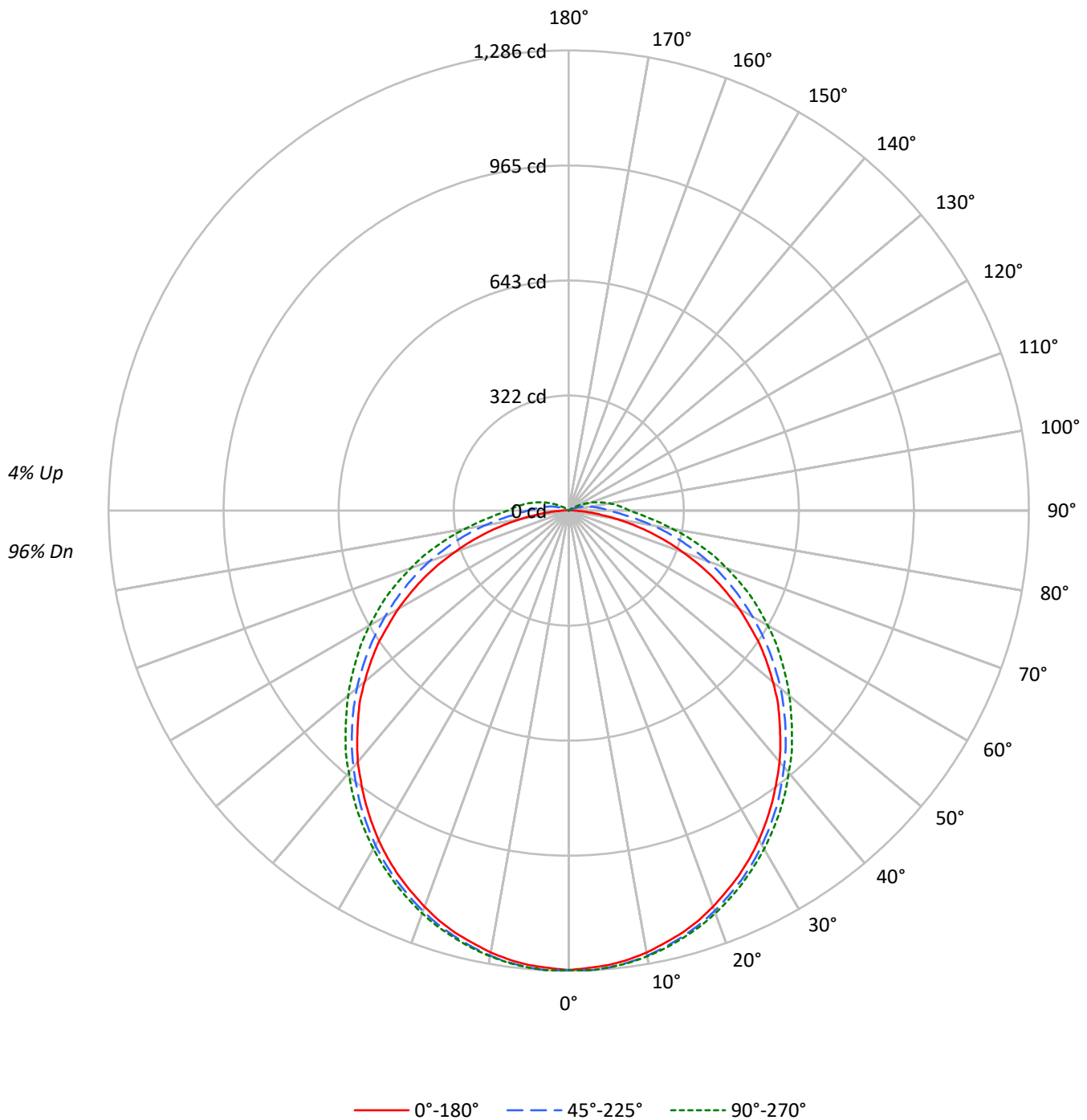
Input Watts (W): 32.12  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 |
| 1   | 107 | 101 | 97  | 92  | 103 | 99  | 94  | 90  | 94  | 90  | 87  | 89  | 86  | 83  | 85 | 82 | 80 |
| 2   | 96  | 88  | 80  | 74  | 93  | 85  | 79  | 73  | 81  | 76  | 71  | 77  | 73  | 69  | 74 | 70 | 66 |
| 3   | 88  | 77  | 68  | 61  | 85  | 75  | 67  | 60  | 71  | 64  | 59  | 68  | 62  | 57  | 65 | 60 | 56 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 56  | 50  | 60  | 54  | 49  | 58 | 52 | 48 |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 52 | 46 | 41 |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 47 | 41 | 36 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 43 | 37 | 32 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 |
| 10  | 51  | 38  | 30  | 24  | 50  | 37  | 30  | 24  | 36  | 29  | 24  | 35  | 28  | 24  | 34 | 28 | 23 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16586 | 16586 | 16586 |
| 5°  | 15812 | 14006 | 13640 |
| 10° | 15065 | 12034 | 11516 |
| 15° | 14341 | 10479 | 9899  |
| 20° | 13613 | 9211  | 8623  |
| 25° | 12902 | 8140  | 7562  |
| 30° | 12190 | 7214  | 6666  |
| 35° | 11463 | 6395  | 5894  |
| 40° | 10761 | 5653  | 5204  |
| 45° | 10006 | 4987  | 4604  |
| 50° | 9238  | 4382  | 4066  |
| 55° | 8421  | 3803  | 3568  |
| 60° | 7483  | 3260  | 3112  |
| 65° | 6454  | 2755  | 2686  |
| 70° | 5251  | 2276  | 2251  |
| 75° | 4001  | 1797  | 1841  |
| 80° | 2615  | 1344  | 1441  |
| 85° | 1194  | 939   | 1102  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.6  | 3.0       |
| 10°-20°   | 347.3  | 8.6       |
| 20°-30°   | 524.6  | 12.9      |
| 30°-40°   | 632.3  | 15.6      |
| 40°-50°   | 661.6  | 16.3      |
| 50°-60°   | 613.3  | 15.1      |
| 60°-70°   | 497.5  | 12.3      |
| 70°-80°   | 334.4  | 8.2       |
| 80°-90°   | 171.4  | 4.2       |
| 90°-100°  | 88.6   | 2.2       |
| 100°-110° | 46.0   | 1.1       |
| 110°-120° | 17.0   | 0.4       |
| 120°-130° | 2.3    | 0.1       |
| 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°    | 993.5  | 24.5      |
| 0°-40°    | 1625.8 | 40.1      |
| 0°-60°    | 2900.7 | 71.5      |
| 0°-90°    | 3904.0 | 96.2      |
| 90°-120°  | 151.6  | 3.7       |
| 90°-150°  | 153.9  | 3.8       |
| 90°-180°  | 154.0  | 3.8       |
| 0°-180°   | 4058.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1284 | 1284  | 1284 | 1284  | 1284 |      |
| 5°   | 1275 | 1277  | 1282 | 1283  | 1282 | 121  |
| 15°  | 1222 | 1226  | 1232 | 1236  | 1236 | 345  |
| 25°  | 1125 | 1129  | 1140 | 1147  | 1149 | 518  |
| 35°  | 992  | 998   | 1012 | 1022  | 1028 | 621  |
| 45°  | 833  | 839   | 856  | 874   | 882  | 643  |
| 55°  | 652  | 659   | 684  | 713   | 724  | 581  |
| 65°  | 447  | 463   | 503  | 544   | 559  | 441  |
| 75°  | 236  | 267   | 323  | 365   | 381  | 250  |
| 85°  | 56   | 103   | 161  | 205   | 220  | 63   |
| 90°  | 16   | 57    | 113  | 155   | 170  | 10   |
| 95°  | 10   | 33    | 85   | 127   | 142  | 8    |
| 105° | 5    | 7     | 42   | 76    | 89   | 5    |
| 115° | 2    | 2     | 10   | 32    | 41   | 2    |
| 125° | 1    | 0     | 0    | 3     | 7    | 1    |
| 135° | 1    | 0     | 0    | 0     | 0    | 0    |
| 145° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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: P233262

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1284.1 | 1284.1 | 1284.1 | 1284.1 | 1284.1 |
| 2.5°   | 1279.1 | 1281.1 | 1286.1 | 1287.1 | 1286.1 |
| 5°     | 1275.1 | 1277.1 | 1282.1 | 1283.1 | 1282.1 |
| 7.5°   | 1266.1 | 1269.1 | 1274.1 | 1276.1 | 1275.1 |
| 10°    | 1254.1 | 1257.1 | 1263.1 | 1265.1 | 1265.1 |
| 12.5°  | 1238.1 | 1242.1 | 1249.1 | 1251.1 | 1252.1 |
| 15°    | 1222.1 | 1226.1 | 1232.1 | 1236.1 | 1236.1 |
| 17.5°  | 1202.1 | 1205.1 | 1213.1 | 1218.1 | 1219.1 |
| 20°    | 1178.1 | 1182.1 | 1191.1 | 1197.1 | 1198.1 |
| 22.5°  | 1152.1 | 1157.1 | 1166.1 | 1173.1 | 1174.1 |
| 25°    | 1125.1 | 1129.1 | 1140.1 | 1147.1 | 1149.1 |
| 27.5°  | 1095.1 | 1099.1 | 1111.1 | 1118.1 | 1121.1 |
| 30°    | 1063.1 | 1068.1 | 1080.1 | 1090.1 | 1092.1 |
| 32.5°  | 1028.1 | 1034.1 | 1046.1 | 1056.1 | 1060.1 |
| 35°    | 992.1  | 998.1  | 1012.1 | 1022.1 | 1028.1 |
| 37.5°  | 954.1  | 960.1  | 974.1  | 988.1  | 994.1  |
| 40°    | 917.1  | 922.1  | 936.1  | 950.1  | 956.1  |
| 42.5°  | 875.1  | 882.1  | 897.1  | 914.1  | 922.1  |
| 45°    | 833.1  | 839.1  | 856.1  | 874.1  | 882.1  |
| 47.5°  | 792.1  | 798.1  | 815.1  | 834.1  | 843.1  |
| 50°    | 745.1  | 751.1  | 773.1  | 795.1  | 805.1  |
| 52.5°  | 698.1  | 705.1  | 728.1  | 755.1  | 765.1  |
| 55°    | 652.1  | 659.1  | 684.1  | 713.1  | 724.1  |
| 57.5°  | 598.0  | 612.0  | 639.0  | 671.1  | 686.1  |
| 60°    | 551.0  | 562.0  | 593.0  | 628.0  | 642.0  |
| 62.5°  | 498.0  | 512.0  | 548.0  | 586.0  | 600.0  |
| 65°    | 447.0  | 463.0  | 503.0  | 544.0  | 559.0  |
| 67.5°  | 394.0  | 411.0  | 459.0  | 500.0  | 513.0  |
| 70°    | 338.0  | 363.0  | 414.0  | 454.0  | 469.0  |
| 72.5°  | 288.0  | 314.0  | 367.0  | 409.0  | 428.0  |
| 75°    | 236.0  | 267.0  | 323.0  | 365.0  | 381.0  |
| 77.5°  | 184.0  | 221.0  | 281.0  | 321.0  | 339.0  |
| 80°    | 139.0  | 178.0  | 237.0  | 279.0  | 294.0  |
| 82.5°  | 92.0   | 138.0  | 197.0  | 240.0  | 256.0  |
| 85°    | 56.0   | 103.0  | 161.0  | 205.0  | 220.0  |
| 87.5°  | 28.0   | 75.0   | 134.0  | 176.0  | 193.0  |
| 90°    | 16.0   | 57.0   | 113.0  | 155.0  | 170.0  |
| 92.5°  | 13.0   | 44.0   | 99.0   | 140.0  | 156.0  |
| 95°    | 10.0   | 33.0   | 85.0   | 127.0  | 142.0  |
| 97.5°  | 8.0    | 24.0   | 74.0   | 114.0  | 129.0  |
| 100°   | 7.0    | 17.0   | 62.0   | 101.0  | 116.0  |
| 102.5° | 6.0    | 11.0   | 52.0   | 88.0   | 102.0  |
| 105°   | 5.0    | 7.0    | 42.0   | 76.0   | 89.0   |
| 107.5° | 4.0    | 4.0    | 32.0   | 64.0   | 76.0   |
| 110°   | 3.0    | 3.0    | 23.0   | 52.0   | 65.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.0 | 3.0   | 16.0 | 42.0  | 52.0 |
| 115°   | 2.0 | 2.0   | 10.0 | 32.0  | 41.0 |
| 117.5° | 2.0 | 2.0   | 5.0  | 23.0  | 31.0 |
| 120°   | 1.0 | 1.0   | 2.0  | 15.0  | 22.0 |
| 122.5° | 1.0 | 1.0   | 1.0  | 8.0   | 14.0 |
| 125°   | 1.0 | 0.0   | 0.0  | 3.0   | 7.0  |
| 127.5° | 0.0 | 0.0   | 0.0  | 0.0   | 2.0  |
| 130°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 132.5° | 1.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 135°   | 1.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 137.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 140°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 142.5° | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 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)