

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: P233264

Luminaire Tested: **2VT3-LD5-4-G-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233264  
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: 2VT3-LD5-4-G-UNV-L850-CD1-U  
Description: 2FT VT3 GENRAL APPLICATION, 4000LM  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

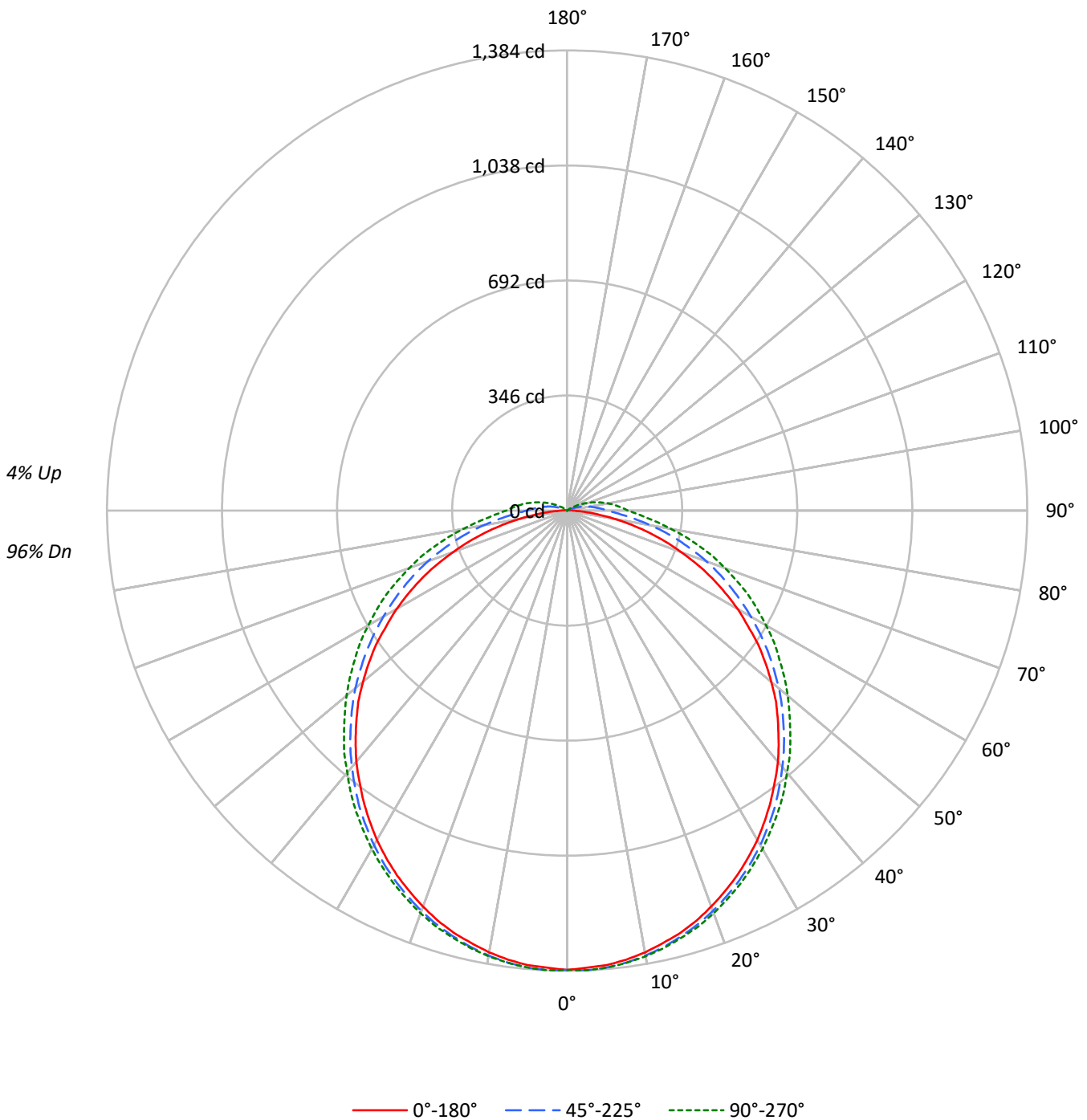
Lumens per Lamp: N/A  
Luminaire Lumens: 4366.0 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')  
CIE Type: Direct

Input Watts (W): 32.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 | 96 |
| 1   | 107 | 101 | 97  | 92  | 103 | 99  | 94  | 90  | 94  | 90  | 87  | 89  | 86  | 83  | 85 | 82 | 80 | 78 |
| 2   | 96  | 88  | 80  | 74  | 93  | 85  | 79  | 73  | 81  | 76  | 71  | 77  | 73  | 69  | 74 | 70 | 66 | 64 |
| 3   | 88  | 77  | 68  | 61  | 85  | 75  | 67  | 60  | 71  | 64  | 59  | 68  | 62  | 57  | 65 | 60 | 56 | 53 |
| 4   | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 56  | 50  | 60  | 54  | 49  | 58 | 52 | 48 | 45 |
| 5   | 74  | 60  | 51  | 44  | 71  | 59  | 50  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 52 | 46 | 41 | 39 |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 47 | 41 | 36 | 34 |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 43 | 37 | 32 | 30 |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |
| 9   | 55  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10  | 51  | 38  | 30  | 24  | 50  | 37  | 30  | 24  | 36  | 29  | 24  | 35  | 28  | 24  | 34 | 28 | 23 | 22 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17846 | 17846 | 17846 |
| 5°  | 17013 | 15069 | 14675 |
| 10° | 16209 | 12948 | 12390 |
| 15° | 15430 | 11274 | 10650 |
| 20° | 14646 | 9910  | 9277  |
| 25° | 13881 | 8758  | 8136  |
| 30° | 13116 | 7761  | 7172  |
| 35° | 12333 | 6880  | 6341  |
| 40° | 11578 | 6081  | 5599  |
| 45° | 10766 | 5365  | 4953  |
| 50° | 9939  | 4714  | 4374  |
| 55° | 9059  | 4092  | 3838  |
| 60° | 8052  | 3507  | 3348  |
| 65° | 6945  | 2964  | 2890  |
| 70° | 5650  | 2449  | 2422  |
| 75° | 4304  | 1933  | 1980  |
| 80° | 2814  | 1446  | 1550  |
| 85° | 1285  | 1010  | 1186  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.8  | 3.0       |
| 10°-20°   | 373.6  | 8.6       |
| 20°-30°   | 564.4  | 12.9      |
| 30°-40°   | 680.3  | 15.6      |
| 40°-50°   | 711.7  | 16.3      |
| 50°-60°   | 659.9  | 15.1      |
| 60°-70°   | 535.3  | 12.3      |
| 70°-80°   | 359.8  | 8.2       |
| 80°-90°   | 184.4  | 4.2       |
| 90°-100°  | 95.3   | 2.2       |
| 100°-110° | 49.5   | 1.1       |
| 110°-120° | 18.3   | 0.4       |
| 120°-130° | 2.5    | 0.1       |
| 130°-140° | 0.1    | 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°    | 1068.9 | 24.5      |
| 0°-40°    | 1749.2 | 40.1      |
| 0°-60°    | 3120.8 | 71.5      |
| 0°-90°    | 4200.4 | 96.2      |
| 90°-120°  | 163.1  | 3.7       |
| 90°-150°  | 165.7  | 3.8       |
| 90°-180°  | 166.0  | 3.8       |
| 0°-180°   | 4366.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1382 | 1382  | 1382 | 1382  | 1382 |      |
| 5°   | 1372 | 1374  | 1379 | 1380  | 1379 | 130  |
| 15°  | 1315 | 1319  | 1326 | 1330  | 1330 | 371  |
| 25°  | 1210 | 1215  | 1227 | 1234  | 1236 | 558  |
| 35°  | 1067 | 1074  | 1089 | 1100  | 1106 | 668  |
| 45°  | 896  | 903   | 921  | 940   | 949  | 692  |
| 55°  | 702  | 709   | 736  | 767   | 779  | 625  |
| 65°  | 481  | 498   | 541  | 585   | 602  | 475  |
| 75°  | 254  | 287   | 348  | 393   | 410  | 269  |
| 85°  | 60   | 111   | 173  | 221   | 237  | 68   |
| 90°  | 17   | 61    | 122  | 167   | 183  | 11   |
| 95°  | 11   | 36    | 92   | 137   | 153  | 8    |
| 105° | 5    | 8     | 45   | 82    | 96   | 6    |
| 115° | 2    | 2     | 11   | 34    | 44   | 2    |
| 125° | 1    | 0     | 0    | 3     | 8    | 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: P233264

CATALOG NUMBER: 2VT3-LD5-4-G-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|        | 0°            | 22.5°         | 45°           | 67.5°         | 90°           |
|--------|---------------|---------------|---------------|---------------|---------------|
| 0°     | 1381.6        | 1381.6        | 1381.6        | <i>1381.6</i> | 1381.6        |
| 2.5°   | <i>1376.2</i> | <i>1378.3</i> | <i>1383.7</i> | <i>1384.8</i> | <i>1383.7</i> |
| 5°     | 1371.9        | 1374.0        | 1379.4        | <i>1380.5</i> | 1379.4        |
| 7.5°   | 1362.2        | 1365.4        | 1370.8        | <i>1373.0</i> | 1371.9        |
| 10°    | 1349.3        | 1352.5        | 1359.0        | <i>1361.1</i> | 1361.1        |
| 12.5°  | 1332.1        | 1336.4        | 1343.9        | <i>1346.1</i> | 1347.1        |
| 15°    | 1314.9        | 1319.2        | 1325.6        | <i>1329.9</i> | 1329.9        |
| 17.5°  | 1293.3        | 1296.6        | 1305.2        | <i>1310.5</i> | 1311.6        |
| 20°    | 1267.5        | 1271.8        | 1281.5        | <i>1288.0</i> | 1289.0        |
| 22.5°  | 1239.5        | 1244.9        | 1254.6        | <i>1262.1</i> | 1263.2        |
| 25°    | 1210.5        | 1214.8        | 1226.6        | <i>1234.2</i> | 1236.3        |
| 27.5°  | 1178.2        | 1182.5        | 1195.4        | <i>1202.9</i> | 1206.2        |
| 30°    | 1143.8        | 1149.1        | 1162.1        | <i>1172.8</i> | 1175.0        |
| 32.5°  | 1106.1        | 1112.6        | 1125.5        | <i>1136.2</i> | 1140.5        |
| 35°    | 1067.4        | 1073.8        | 1088.9        | <i>1099.7</i> | 1106.1        |
| 37.5°  | 1026.5        | 1032.9        | 1048.0        | <i>1063.1</i> | 1069.5        |
| 40°    | 986.7         | 992.1         | 1007.1        | <i>1022.2</i> | 1028.6        |
| 42.5°  | 941.5         | 949.0         | 965.2         | <i>983.4</i>  | 992.1         |
| 45°    | 896.3         | 902.7         | 921.0         | <i>940.4</i>  | 949.0         |
| 47.5°  | 852.2         | 858.6         | 876.9         | <i>897.4</i>  | 907.1         |
| 50°    | 801.6         | 808.1         | 831.7         | <i>855.4</i>  | 866.2         |
| 52.5°  | 751.0         | 758.6         | 783.3         | <i>812.4</i>  | 823.1         |
| 55°    | 701.5         | 709.1         | 736.0         | <i>767.2</i>  | 779.0         |
| 57.5°  | 643.4         | 658.5         | 687.6         | <i>722.0</i>  | 738.1         |
| 60°    | 592.9         | 604.7         | 638.1         | <i>675.7</i>  | 690.8         |
| 62.5°  | 535.8         | 550.9         | 589.6         | <i>630.5</i>  | 645.6         |
| 65°    | 481.0         | 498.2         | 541.2         | <i>585.3</i>  | 601.5         |
| 67.5°  | 423.9         | 442.2         | 493.9         | <i>538.0</i>  | 552.0         |
| 70°    | 363.7         | 390.6         | 445.5         | <i>488.5</i>  | 504.6         |
| 72.5°  | 309.9         | 337.9         | 394.9         | <i>440.1</i>  | 460.5         |
| 75°    | 253.9         | 287.3         | 347.5         | <i>392.7</i>  | 409.9         |
| 77.5°  | 198.0         | 237.8         | 302.4         | <i>345.4</i>  | 364.8         |
| 80°    | 149.6         | 191.5         | 255.0         | <i>300.2</i>  | 316.3         |
| 82.5°  | 99.0          | 148.5         | 212.0         | <i>258.2</i>  | 275.5         |
| 85°    | 60.3          | 110.8         | 173.2         | <i>220.6</i>  | 236.7         |
| 87.5°  | 30.1          | 80.7          | 144.2         | <i>189.4</i>  | 207.7         |
| 90°    | 17.2          | 61.3          | 121.6         | <i>166.8</i>  | 182.9         |
| 92.5°  | 14.0          | 47.3          | 106.5         | <i>150.6</i>  | 167.9         |
| 95°    | 10.8          | 35.5          | 91.5          | <i>136.6</i>  | 152.8         |
| 97.5°  | 8.6           | 25.8          | 79.6          | <i>122.7</i>  | 138.8         |
| 100°   | 7.5           | 18.3          | 66.7          | <i>108.7</i>  | 124.8         |
| 102.5° | 6.5           | 11.8          | 56.0          | <i>94.7</i>   | 109.8         |
| 105°   | 5.4           | 7.5           | 45.2          | <i>81.8</i>   | 95.8          |
| 107.5° | 4.3           | 4.3           | 34.4          | <i>68.9</i>   | 81.8          |
| 110°   | 3.2           | 3.2           | 24.7          | <i>56.0</i>   | 69.9          |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.2 | 3.2   | 17.2 | 45.2  | 56.0 |
| 115°   | 2.2 | 2.2   | 10.8 | 34.4  | 44.1 |
| 117.5° | 2.2 | 2.2   | 5.4  | 24.7  | 33.4 |
| 120°   | 1.1 | 1.1   | 2.2  | 16.1  | 23.7 |
| 122.5° | 1.1 | 1.1   | 1.1  | 8.6   | 15.1 |
| 125°   | 1.1 | 0.0   | 0.0  | 3.2   | 7.5  |
| 127.5° | 0.0 | 0.0   | 0.0  | 0.0   | 2.2  |
| 130°   | 0.0 | 0.0   | 0.0  | 0.0   | 0.0  |
| 132.5° | 1.1 | 0.0   | 0.0  | 0.0   | 0.0  |
| 135°   | 1.1 | 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)