

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: P292076

Luminaire Tested: **22GR-LD5-24-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-F125-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2256.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

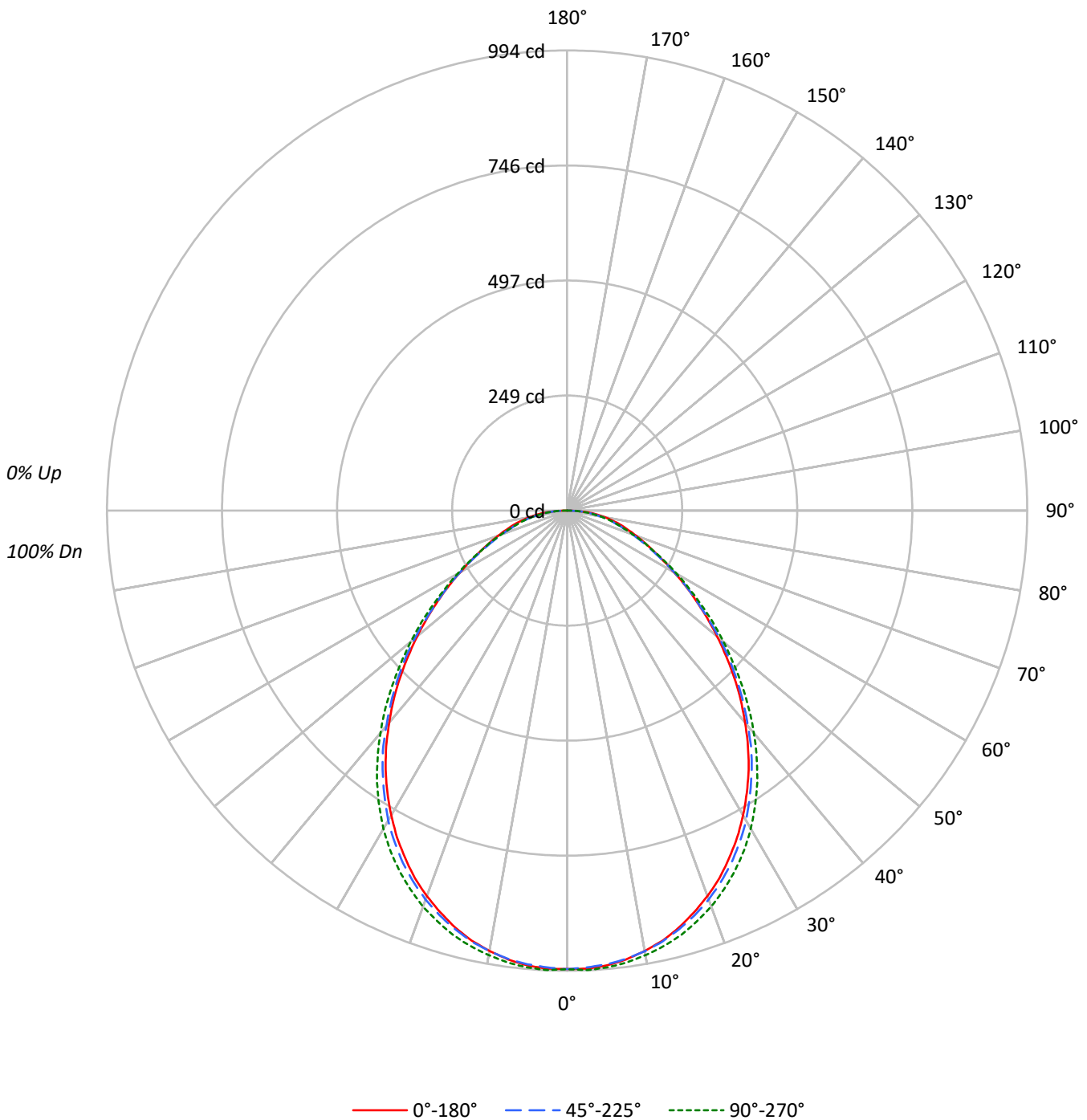
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |    |    | 73  |   |  |   |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 62  |    |    |    |    | 62  |   |  |   |
| 4   | 85  | 74  | 65  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |    |    | 54  |   |  |   |
| 5   | 78  | 66  | 58  | 52  | 76  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |    |    | 48  |   |  |   |
| 6   | 73  | 60  | 52  | 45  | 71  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 45  | 54  | 49  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 7   | 68  | 55  | 46  | 41  | 66  | 54  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |    | 38  |   |  |   |
| 8   | 63  | 50  | 42  | 36  | 62  | 50  | 42  | 36  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |
| 9   | 59  | 46  | 38  | 33  | 58  | 46  | 38  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    |    | 31  |   |  |   |
| 10  | 56  | 43  | 35  | 30  | 54  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |    |    | 28  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2665 | 2665 | 2665 |
| 5°  | 2664 | 2657 | 2675 |
| 10° | 2639 | 2640 | 2665 |
| 15° | 2599 | 2608 | 2645 |
| 20° | 2538 | 2560 | 2607 |
| 25° | 2459 | 2493 | 2548 |
| 30° | 2362 | 2403 | 2466 |
| 35° | 2246 | 2282 | 2352 |
| 40° | 2100 | 2135 | 2205 |
| 45° | 1944 | 1974 | 2032 |
| 50° | 1771 | 1799 | 1845 |
| 55° | 1599 | 1604 | 1650 |
| 60° | 1434 | 1440 | 1474 |
| 65° | 1307 | 1280 | 1310 |
| 70° | 1244 | 1174 | 1194 |
| 75° | 1252 | 1132 | 1137 |
| 80° | 1299 | 1144 | 1136 |
| 85° | 1423 | 1213 | 1149 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.6   | 4.1       |
| 10°-20°   | 264.3  | 11.7      |
| 20°-30°   | 386.9  | 17.1      |
| 30°-40°   | 435.0  | 19.3      |
| 40°-50°   | 401.1  | 17.8      |
| 50°-60°   | 309.2  | 13.7      |
| 60°-70°   | 204.0  | 9.0       |
| 70°-80°   | 118.7  | 5.3       |
| 80°-90°   | 43.3   | 1.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 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°    | 744.8  | 33.0      |
| 0°-40°    | 1179.7 | 52.3      |
| 0°-60°    | 1890.0 | 83.8      |
| 0°-90°    | 2256.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2256.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 990 | 990   | 990 | 990   | 990 |      |
| 5°  | 986 | 984   | 984 | 988   | 990 | 93   |
| 15° | 933 | 933   | 936 | 944   | 950 | 263  |
| 25° | 828 | 832   | 840 | 851   | 858 | 381  |
| 35° | 684 | 687   | 695 | 709   | 716 | 426  |
| 45° | 511 | 511   | 519 | 529   | 534 | 393  |
| 55° | 341 | 340   | 342 | 348   | 352 | 306  |
| 65° | 205 | 204   | 201 | 203   | 206 | 206  |
| 75° | 120 | 115   | 109 | 107   | 109 | 127  |
| 85° | 46  | 46    | 39  | 36    | 37  | 49   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 990.4 | 990.4 | 990.4 | 990.4 | 990.4 |
| 2.5°  | 990.4 | 988.3 | 987.8 | 991.4 | 993.5 |
| 5°    | 986.2 | 984.1 | 983.6 | 988.3 | 990.4 |
| 7.5°  | 977.8 | 976.3 | 976.8 | 982.0 | 984.6 |
| 10°   | 965.8 | 965.3 | 966.3 | 972.1 | 975.2 |
| 12.5° | 951.7 | 951.1 | 953.2 | 959.5 | 963.7 |
| 15°   | 932.8 | 932.8 | 936.0 | 944.3 | 949.6 |
| 17.5° | 910.3 | 911.9 | 916.6 | 925.0 | 930.7 |
| 20°   | 886.2 | 887.8 | 894.1 | 903.5 | 910.3 |
| 22.5° | 859.5 | 861.6 | 867.9 | 879.4 | 885.2 |
| 25°   | 828.1 | 832.3 | 839.6 | 851.2 | 858.0 |
| 27.5° | 795.7 | 800.4 | 807.2 | 821.3 | 827.6 |
| 30°   | 760.1 | 763.2 | 773.2 | 786.2 | 793.6 |
| 32.5° | 722.4 | 725.5 | 733.9 | 749.6 | 755.9 |
| 35°   | 683.6 | 686.8 | 694.6 | 708.8 | 716.1 |
| 37.5° | 641.8 | 644.4 | 653.8 | 664.8 | 672.7 |
| 40°   | 597.8 | 601.5 | 607.7 | 620.8 | 627.6 |
| 42.5° | 554.9 | 556.4 | 563.2 | 576.3 | 581.6 |
| 45°   | 510.9 | 511.4 | 518.8 | 529.2 | 533.9 |
| 47.5° | 465.4 | 466.4 | 475.3 | 481.6 | 486.3 |
| 50°   | 423.0 | 423.5 | 429.8 | 435.5 | 440.8 |
| 52.5° | 380.6 | 380.6 | 383.7 | 390.0 | 396.8 |
| 55°   | 340.8 | 340.3 | 341.8 | 347.6 | 351.8 |
| 57.5° | 303.1 | 302.6 | 304.7 | 308.3 | 311.5 |
| 60°   | 266.4 | 265.4 | 267.5 | 269.6 | 273.8 |
| 62.5° | 234.0 | 235.0 | 232.4 | 235.6 | 238.7 |
| 65°   | 205.2 | 204.2 | 201.0 | 202.6 | 205.7 |
| 67.5° | 180.6 | 179.0 | 173.8 | 174.8 | 178.5 |
| 70°   | 158.1 | 154.9 | 149.2 | 149.2 | 151.8 |
| 72.5° | 137.7 | 134.5 | 127.2 | 127.7 | 128.8 |
| 75°   | 120.4 | 115.2 | 108.9 | 106.8 | 109.4 |
| 77.5° | 101.6 | 97.4  | 91.6  | 90.0  | 91.1  |
| 80°   | 83.8  | 80.6  | 73.8  | 71.7  | 73.3  |
| 82.5° | 66.5  | 63.9  | 56.0  | 54.4  | 55.0  |
| 85°   | 46.1  | 45.5  | 39.3  | 36.1  | 37.2  |
| 87.5° | 24.6  | 25.1  | 20.4  | 18.3  | 19.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)