

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: P292063

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292063  
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-LD5-20-F125-UNV-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1694.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

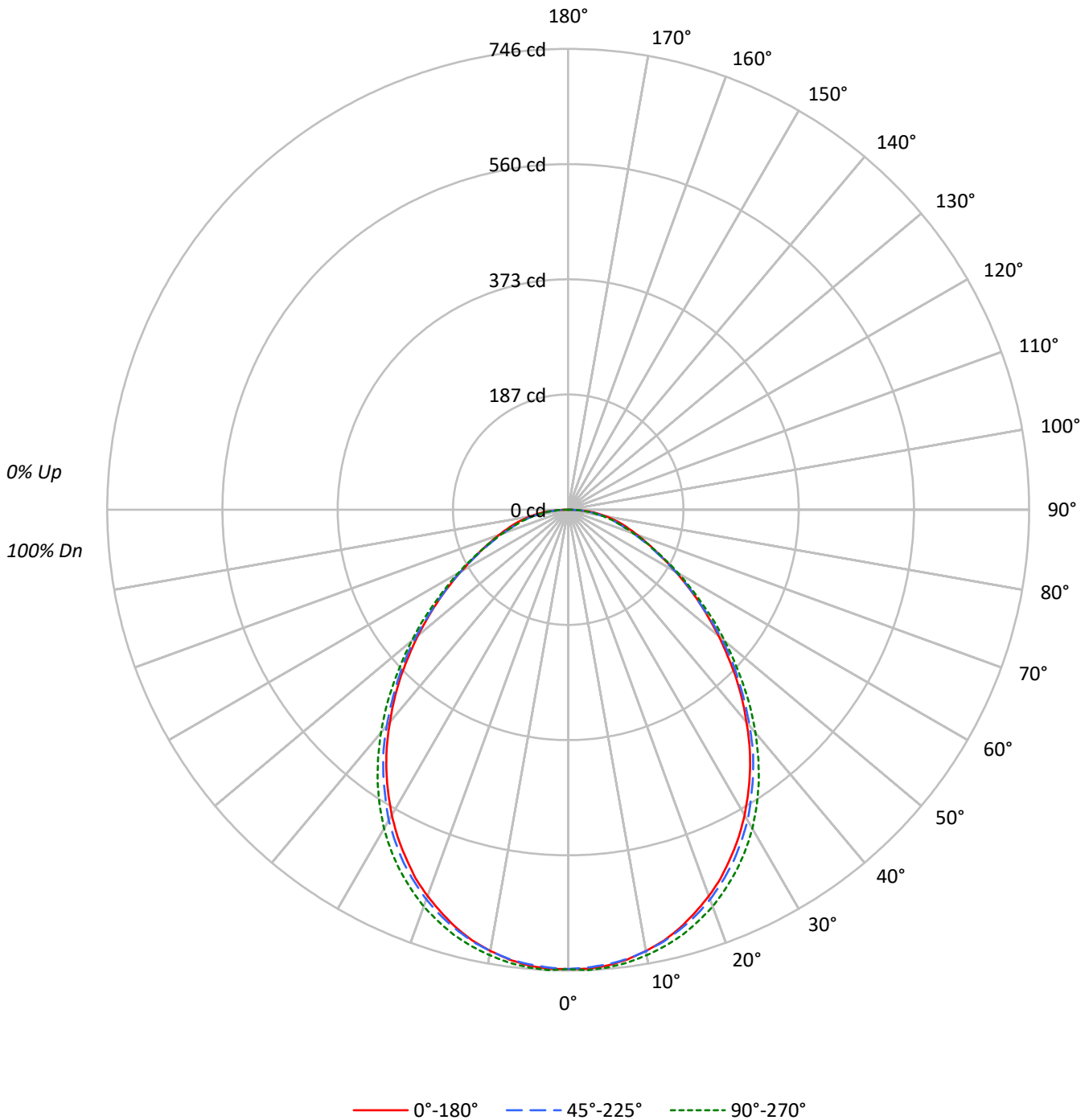
Input Watts (W): 15.252  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2001 | 2001 | 2001 |
| 5°  | 2000 | 1995 | 2009 |
| 10° | 1982 | 1983 | 2001 |
| 15° | 1951 | 1958 | 1986 |
| 20° | 1906 | 1922 | 1957 |
| 25° | 1846 | 1872 | 1913 |
| 30° | 1773 | 1804 | 1852 |
| 35° | 1686 | 1713 | 1766 |
| 40° | 1577 | 1603 | 1656 |
| 45° | 1460 | 1482 | 1526 |
| 50° | 1330 | 1351 | 1386 |
| 55° | 1201 | 1204 | 1239 |
| 60° | 1077 | 1081 | 1107 |
| 65° | 981  | 961  | 984  |
| 70° | 934  | 881  | 897  |
| 75° | 940  | 850  | 854  |
| 80° | 975  | 859  | 852  |
| 85° | 1068 | 911  | 861  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.3   | 4.1       |
| 10°-20°   | 198.5  | 11.7      |
| 20°-30°   | 290.5  | 17.1      |
| 30°-40°   | 326.6  | 19.3      |
| 40°-50°   | 301.2  | 17.8      |
| 50°-60°   | 232.2  | 13.7      |
| 60°-70°   | 153.2  | 9.0       |
| 70°-80°   | 89.2   | 5.3       |
| 80°-90°   | 32.5   | 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°    | 559.2  | 33.0      |
| 0°-40°    | 885.8  | 52.3      |
| 0°-60°    | 1419.2 | 83.8      |
| 0°-90°    | 1694.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1694.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 744 | 744   | 744 | 744   | 744 |      |
| 5°  | 740 | 739   | 739 | 742   | 744 | 70   |
| 15° | 700 | 700   | 703 | 709   | 713 | 197  |
| 25° | 622 | 625   | 630 | 639   | 644 | 286  |
| 35° | 513 | 516   | 522 | 532   | 538 | 320  |
| 45° | 384 | 384   | 390 | 397   | 401 | 295  |
| 55° | 256 | 256   | 257 | 261   | 264 | 230  |
| 65° | 154 | 153   | 151 | 152   | 154 | 155  |
| 75° | 90  | 86    | 82  | 80    | 82  | 95   |
| 85° | 35  | 34    | 30  | 27    | 28  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 743.7 | 743.7 | 743.7 | 743.7 | 743.7 |
| 2.5°  | 743.7 | 742.1 | 741.7 | 744.5 | 746.0 |
| 5°    | 740.5 | 739.0 | 738.6 | 742.1 | 743.7 |
| 7.5°  | 734.2 | 733.1 | 733.5 | 737.4 | 739.3 |
| 10°   | 725.2 | 724.8 | 725.6 | 729.9 | 732.3 |
| 12.5° | 714.6 | 714.2 | 715.8 | 720.5 | 723.6 |
| 15°   | 700.4 | 700.4 | 702.8 | 709.1 | 713.0 |
| 17.5° | 683.5 | 684.7 | 688.3 | 694.5 | 698.9 |
| 20°   | 665.5 | 666.6 | 671.3 | 678.4 | 683.5 |
| 22.5° | 645.4 | 647.0 | 651.7 | 660.3 | 664.7 |
| 25°   | 621.8 | 625.0 | 630.5 | 639.1 | 644.2 |
| 27.5° | 597.5 | 601.0 | 606.1 | 616.7 | 621.4 |
| 30°   | 570.7 | 573.1 | 580.6 | 590.4 | 595.9 |
| 32.5° | 542.4 | 544.8 | 551.1 | 562.9 | 567.6 |
| 35°   | 513.3 | 515.7 | 521.6 | 532.2 | 537.7 |
| 37.5° | 481.9 | 483.9 | 490.9 | 499.2 | 505.1 |
| 40°   | 448.9 | 451.6 | 456.3 | 466.2 | 471.3 |
| 42.5° | 416.6 | 417.8 | 422.9 | 432.8 | 436.7 |
| 45°   | 383.6 | 384.0 | 389.5 | 397.4 | 400.9 |
| 47.5° | 349.4 | 350.2 | 356.9 | 361.6 | 365.2 |
| 50°   | 317.6 | 318.0 | 322.7 | 327.0 | 331.0 |
| 52.5° | 285.8 | 285.8 | 288.1 | 292.8 | 297.9 |
| 55°   | 255.9 | 255.5 | 256.7 | 261.0 | 264.1 |
| 57.5° | 227.6 | 227.2 | 228.8 | 231.5 | 233.9 |
| 60°   | 200.1 | 199.3 | 200.9 | 202.4 | 205.6 |
| 62.5° | 175.7 | 176.5 | 174.5 | 176.9 | 179.2 |
| 65°   | 154.1 | 153.3 | 150.9 | 152.1 | 154.5 |
| 67.5° | 135.6 | 134.4 | 130.5 | 131.3 | 134.0 |
| 70°   | 118.7 | 116.3 | 112.0 | 112.0 | 114.0 |
| 72.5° | 103.4 | 101.0 | 95.5  | 95.9  | 96.7  |
| 75°   | 90.4  | 86.5  | 81.8  | 80.2  | 82.1  |
| 77.5° | 76.3  | 73.1  | 68.8  | 67.6  | 68.4  |
| 80°   | 62.9  | 60.5  | 55.4  | 53.8  | 55.0  |
| 82.5° | 49.9  | 48.0  | 42.1  | 40.9  | 41.3  |
| 85°   | 34.6  | 34.2  | 29.5  | 27.1  | 27.9  |
| 87.5° | 18.5  | 18.9  | 15.3  | 13.8  | 14.5  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)