

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: P292090

Luminaire Tested: **22GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292090  
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-LD5-32-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: 2626.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 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

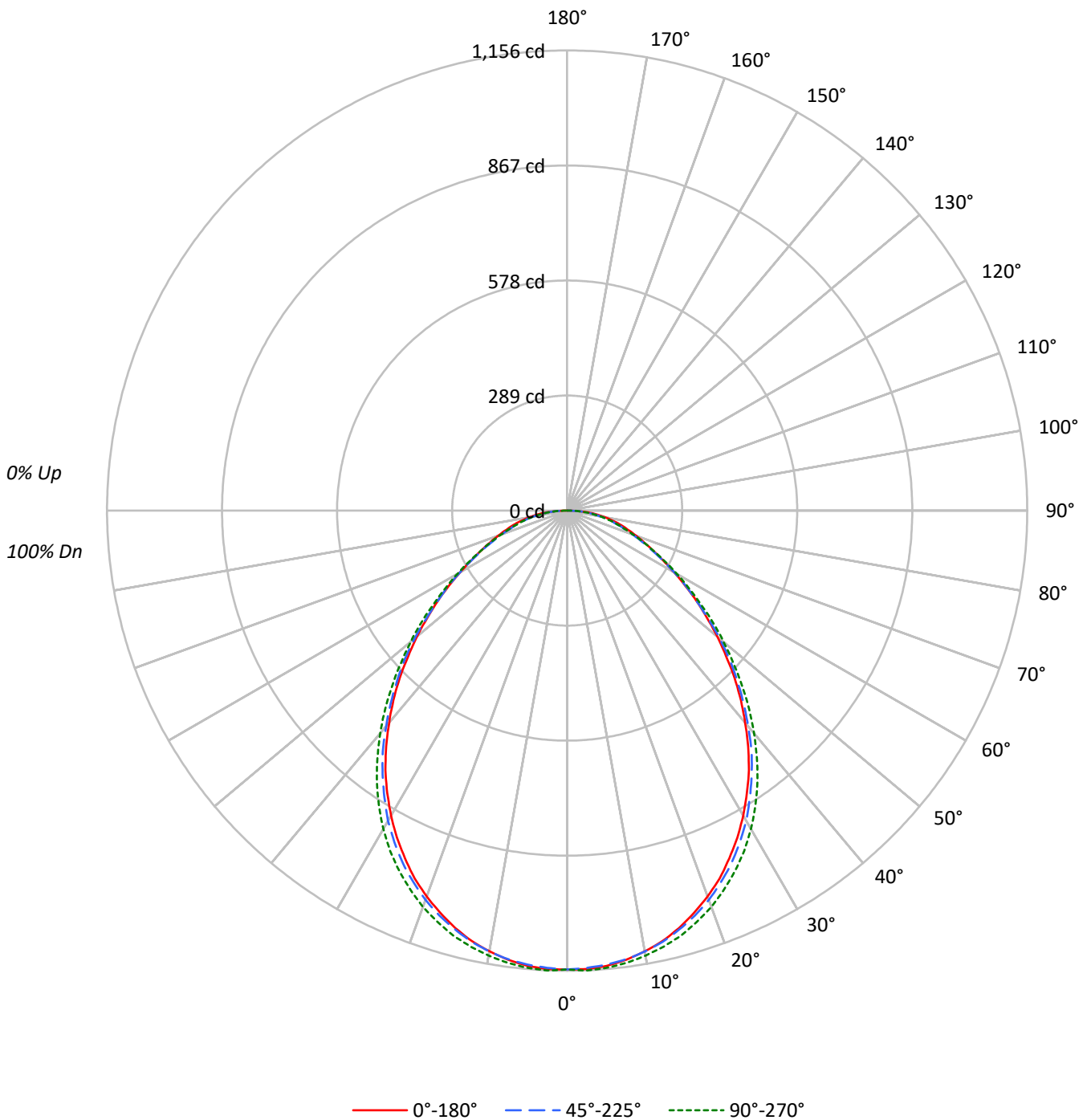
Input Watts (W): 24.366  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292090

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292090

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K

**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°  | 3102 | 3102 | 3102 |
| 5°  | 3101 | 3093 | 3114 |
| 10° | 3072 | 3074 | 3102 |
| 15° | 3025 | 3035 | 3079 |
| 20° | 2954 | 2980 | 3034 |
| 25° | 2862 | 2902 | 2965 |
| 30° | 2749 | 2797 | 2870 |
| 35° | 2614 | 2656 | 2738 |
| 40° | 2444 | 2485 | 2566 |
| 45° | 2263 | 2298 | 2365 |
| 50° | 2061 | 2094 | 2148 |
| 55° | 1861 | 1867 | 1921 |
| 60° | 1669 | 1676 | 1715 |
| 65° | 1521 | 1490 | 1525 |
| 70° | 1448 | 1367 | 1390 |
| 75° | 1457 | 1317 | 1324 |
| 80° | 1511 | 1331 | 1322 |
| 85° | 1655 | 1411 | 1337 |



TEST NUMBER: P292090

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.9  | 4.1       |
| 10°-20°   | 307.7  | 11.7      |
| 20°-30°   | 450.3  | 17.1      |
| 30°-40°   | 506.3  | 19.3      |
| 40°-50°   | 466.9  | 17.8      |
| 50°-60°   | 359.9  | 13.7      |
| 60°-70°   | 237.5  | 9.0       |
| 70°-80°   | 138.2  | 5.3       |
| 80°-90°   | 50.3   | 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°    | 866.9  | 33.0      |
| 0°-40°    | 1373.2 | 52.3      |
| 0°-60°    | 2200.0 | 83.8      |
| 0°-90°    | 2626.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2626.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1153 | 1153  | 1153 | 1153  | 1153 |      |
| 5°  | 1148 | 1146  | 1145 | 1150  | 1153 | 109  |
| 15° | 1086 | 1086  | 1090 | 1099  | 1105 | 306  |
| 25° | 964  | 969   | 977  | 991   | 999  | 443  |
| 35° | 796  | 799   | 809  | 825   | 834  | 496  |
| 45° | 595  | 595   | 604  | 616   | 622  | 458  |
| 55° | 397  | 396   | 398  | 405   | 410  | 356  |
| 65° | 239  | 238   | 234  | 236   | 240  | 240  |
| 75° | 140  | 134   | 127  | 124   | 127  | 148  |
| 85° | 54   | 53    | 46   | 42    | 43   | 57   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P292090

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1152.8 | 1152.8 | 1152.8 | 1152.8 | 1152.8 |
| 2.5°  | 1152.8 | 1150.4 | 1149.8 | 1154.0 | 1156.5 |
| 5°    | 1148.0 | 1145.5 | 1144.9 | 1150.4 | 1152.8 |
| 7.5°  | 1138.2 | 1136.4 | 1137.0 | 1143.1 | 1146.1 |
| 10°   | 1124.2 | 1123.6 | 1124.8 | 1131.5 | 1135.2 |
| 12.5° | 1107.7 | 1107.1 | 1109.6 | 1116.9 | 1121.7 |
| 15°   | 1085.8 | 1085.8 | 1089.5 | 1099.2 | 1105.3 |
| 17.5° | 1059.6 | 1061.4 | 1066.9 | 1076.7 | 1083.4 |
| 20°   | 1031.6 | 1033.4 | 1040.7 | 1051.7 | 1059.6 |
| 22.5° | 1000.5 | 1002.9 | 1010.2 | 1023.7 | 1030.4 |
| 25°   | 963.9  | 968.8  | 977.3  | 990.7  | 998.7  |
| 27.5° | 926.2  | 931.6  | 939.6  | 956.0  | 963.3  |
| 30°   | 884.7  | 888.4  | 900.0  | 915.2  | 923.7  |
| 32.5° | 840.9  | 844.5  | 854.3  | 872.5  | 879.9  |
| 35°   | 795.8  | 799.4  | 808.6  | 825.0  | 833.5  |
| 37.5° | 747.0  | 750.1  | 761.0  | 773.8  | 783.0  |
| 40°   | 695.8  | 700.1  | 707.4  | 722.6  | 730.6  |
| 42.5° | 645.9  | 647.7  | 655.6  | 670.9  | 676.9  |
| 45°   | 594.7  | 595.3  | 603.8  | 616.0  | 621.5  |
| 47.5° | 541.7  | 542.9  | 553.3  | 560.6  | 566.1  |
| 50°   | 492.3  | 492.9  | 500.2  | 507.0  | 513.0  |
| 52.5° | 443.0  | 443.0  | 446.6  | 453.9  | 461.9  |
| 55°   | 396.7  | 396.1  | 397.9  | 404.6  | 409.5  |
| 57.5° | 352.8  | 352.2  | 354.6  | 358.9  | 362.5  |
| 60°   | 310.1  | 308.9  | 311.4  | 313.8  | 318.7  |
| 62.5° | 272.4  | 273.6  | 270.5  | 274.2  | 277.8  |
| 65°   | 238.9  | 237.6  | 234.0  | 235.8  | 239.5  |
| 67.5° | 210.2  | 208.4  | 202.3  | 203.5  | 207.8  |
| 70°   | 184.0  | 180.4  | 173.7  | 173.7  | 176.7  |
| 72.5° | 160.2  | 156.6  | 148.1  | 148.7  | 149.9  |
| 75°   | 140.1  | 134.0  | 126.7  | 124.3  | 127.3  |
| 77.5° | 118.2  | 113.3  | 106.6  | 104.8  | 106.0  |
| 80°   | 97.5   | 93.8   | 85.9   | 83.5   | 85.3   |
| 82.5° | 77.4   | 74.3   | 65.2   | 63.4   | 64.0   |
| 85°   | 53.6   | 53.0   | 45.7   | 42.0   | 43.3   |
| 87.5° | 28.6   | 29.2   | 23.8   | 21.3   | 22.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)