

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: P213834

Luminaire Tested: **22GR-LD5-43-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A125-UNV-L935-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3688.2 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

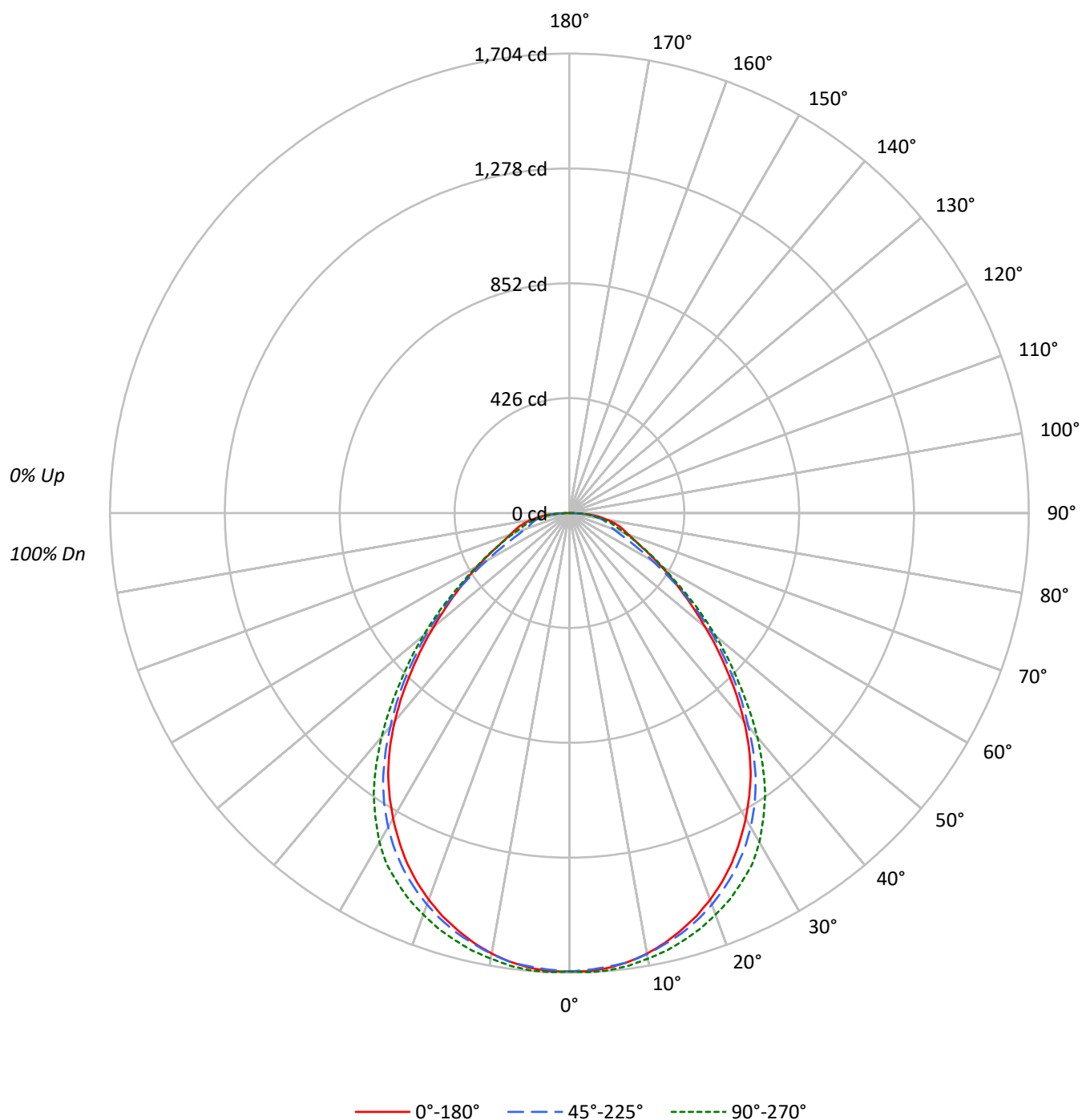
Input Watts (W): 40.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213834

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P213834

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L935-CD1-U

**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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 96  |  | 99  | 96  | 93  |  | 95  | 93  | 91  |  | 92  | 90  | 88  |
| 2   | 101 | 94  | 87  | 82  | 98  | 92  | 86  | 81  |  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 76  |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  |  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 66  |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 66  | 60  |  | 71  | 65  | 59  |  | 69  | 63  | 59  |  | 67  | 62  | 58  |
| 5   | 80  | 68  | 59  | 53  | 78  | 67  | 59  | 53  |  | 65  | 58  | 52  |  | 63  | 57  | 52  |  | 61  | 56  | 51  |
| 6   | 74  | 61  | 53  | 47  | 72  | 61  | 53  | 47  |  | 59  | 52  | 47  |  | 57  | 51  | 46  |  | 56  | 50  | 46  |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 48  | 42  |  | 54  | 47  | 42  |  | 52  | 46  | 41  |  | 51  | 46  | 41  |
| 8   | 64  | 52  | 44  | 38  | 63  | 51  | 43  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 37  |
| 9   | 60  | 48  | 40  | 35  | 59  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 45  | 39  | 34  |  | 44  | 38  | 34  |
| 10  | 57  | 44  | 37  | 32  | 55  | 44  | 36  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  | 35  | 31  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5445 | 5445 | 5445 |
| 5°  | 5441 | 5426 | 5471 |
| 10° | 5394 | 5400 | 5456 |
| 15° | 5308 | 5346 | 5437 |
| 20° | 5199 | 5266 | 5401 |
| 25° | 5047 | 5151 | 5339 |
| 30° | 4837 | 4973 | 5212 |
| 35° | 4582 | 4710 | 4949 |
| 40° | 4213 | 4318 | 4533 |
| 45° | 3743 | 3879 | 4019 |
| 50° | 3269 | 3419 | 3522 |
| 55° | 2842 | 2880 | 2987 |
| 60° | 2501 | 2292 | 2550 |
| 65° | 2222 | 1832 | 2235 |
| 70° | 2183 | 1626 | 2062 |
| 75° | 2383 | 1788 | 2107 |
| 80° | 2617 | 2126 | 2252 |
| 85° | 3131 | 2466 | 2528 |



TEST NUMBER: P213834

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L935-CD1-U

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.7  | 4.4       |
| 10°-20°   | 455.6  | 12.4      |
| 20°-30°   | 672.7  | 18.2      |
| 30°-40°   | 752.7  | 20.4      |
| 40°-50°   | 661.0  | 17.9      |
| 50°-60°   | 467.7  | 12.7      |
| 60°-70°   | 272.2  | 7.4       |
| 70°-80°   | 169.7  | 4.6       |
| 80°-90°   | 75.9   | 2.1       |
| 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°    | 1289.0 | 34.9      |
| 0°-40°    | 2041.7 | 55.4      |
| 0°-60°    | 3170.3 | 86.0      |
| 0°-90°    | 3688.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3688.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1700 | 1700  | 1700 | 1700  | 1700 |      |
| 5°  | 1692 | 1688  | 1688 | 1697  | 1702 | 160  |
| 15° | 1601 | 1605  | 1612 | 1630  | 1640 | 451  |
| 25° | 1428 | 1434  | 1458 | 1492  | 1511 | 656  |
| 35° | 1172 | 1177  | 1205 | 1241  | 1266 | 729  |
| 45° | 826  | 836   | 856  | 877   | 887  | 639  |
| 55° | 509  | 519   | 516  | 525   | 535  | 460  |
| 65° | 293  | 270   | 242  | 263   | 295  | 297  |
| 75° | 193  | 166   | 144  | 148   | 170  | 201  |
| 85° | 85   | 89    | 67   | 65    | 69   | 87   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P213834

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1700.1 | 1700.1 | 1700.1 | 1700.1 | 1700.1 |
| 2.5°  | 1700.1 | 1696.6 | 1694.9 | 1700.9 | 1704.3 |
| 5°    | 1692.4 | 1688.0 | 1688.0 | 1696.6 | 1701.8 |
| 7.5°  | 1678.6 | 1674.2 | 1679.4 | 1687.2 | 1692.4 |
| 10°   | 1658.8 | 1657.1 | 1660.5 | 1670.8 | 1677.7 |
| 12.5° | 1633.0 | 1633.9 | 1637.3 | 1653.6 | 1662.3 |
| 15°   | 1601.1 | 1604.6 | 1612.4 | 1629.5 | 1639.8 |
| 17.5° | 1566.8 | 1569.4 | 1581.4 | 1601.1 | 1615.8 |
| 20°   | 1525.5 | 1530.7 | 1545.3 | 1570.2 | 1584.8 |
| 22.5° | 1479.9 | 1486.0 | 1504.0 | 1534.1 | 1552.2 |
| 25°   | 1428.3 | 1434.4 | 1457.6 | 1491.9 | 1510.9 |
| 27.5° | 1369.9 | 1379.3 | 1405.1 | 1443.0 | 1468.7 |
| 30°   | 1307.9 | 1315.6 | 1344.9 | 1387.9 | 1409.4 |
| 32.5° | 1241.7 | 1251.2 | 1278.7 | 1320.0 | 1338.9 |
| 35°   | 1172.1 | 1177.2 | 1204.7 | 1240.8 | 1265.8 |
| 37.5° | 1092.9 | 1095.6 | 1121.3 | 1154.9 | 1177.2 |
| 40°   | 1007.8 | 1009.5 | 1032.8 | 1064.5 | 1084.3 |
| 42.5° | 919.3  | 920.1  | 945.0  | 969.1  | 986.3  |
| 45°   | 826.4  | 835.8  | 856.5  | 877.1  | 887.4  |
| 47.5° | 743.0  | 749.9  | 768.7  | 786.8  | 796.3  |
| 50°   | 656.1  | 673.3  | 686.2  | 695.6  | 706.9  |
| 52.5° | 581.3  | 595.9  | 599.3  | 610.6  | 620.0  |
| 55°   | 509.1  | 519.4  | 515.9  | 525.4  | 534.9  |
| 57.5° | 448.0  | 442.8  | 431.7  | 448.0  | 460.0  |
| 60°   | 390.4  | 376.6  | 357.8  | 380.1  | 398.1  |
| 62.5° | 338.8  | 316.5  | 293.2  | 315.6  | 345.7  |
| 65°   | 293.2  | 270.0  | 241.7  | 263.2  | 295.0  |
| 67.5° | 258.8  | 234.8  | 201.2  | 222.7  | 254.6  |
| 70°   | 233.1  | 208.1  | 173.7  | 191.8  | 220.2  |
| 72.5° | 212.4  | 185.7  | 155.6  | 167.7  | 191.8  |
| 75°   | 192.6  | 166.0  | 144.5  | 147.9  | 170.3  |
| 77.5° | 169.4  | 149.6  | 132.4  | 130.7  | 147.9  |
| 80°   | 141.9  | 135.8  | 115.3  | 112.6  | 122.1  |
| 82.5° | 117.0  | 114.4  | 94.6   | 92.0   | 95.5   |
| 85°   | 85.2   | 88.6   | 67.1   | 65.4   | 68.8   |
| 87.5° | 44.7   | 49.0   | 35.3   | 37.0   | 37.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)