

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798225

Luminaire Tested: 22GRSCT3-FGW080-UNV-HIGH-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292748)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22GRSCT3-FGW080-UNV-HIGH-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

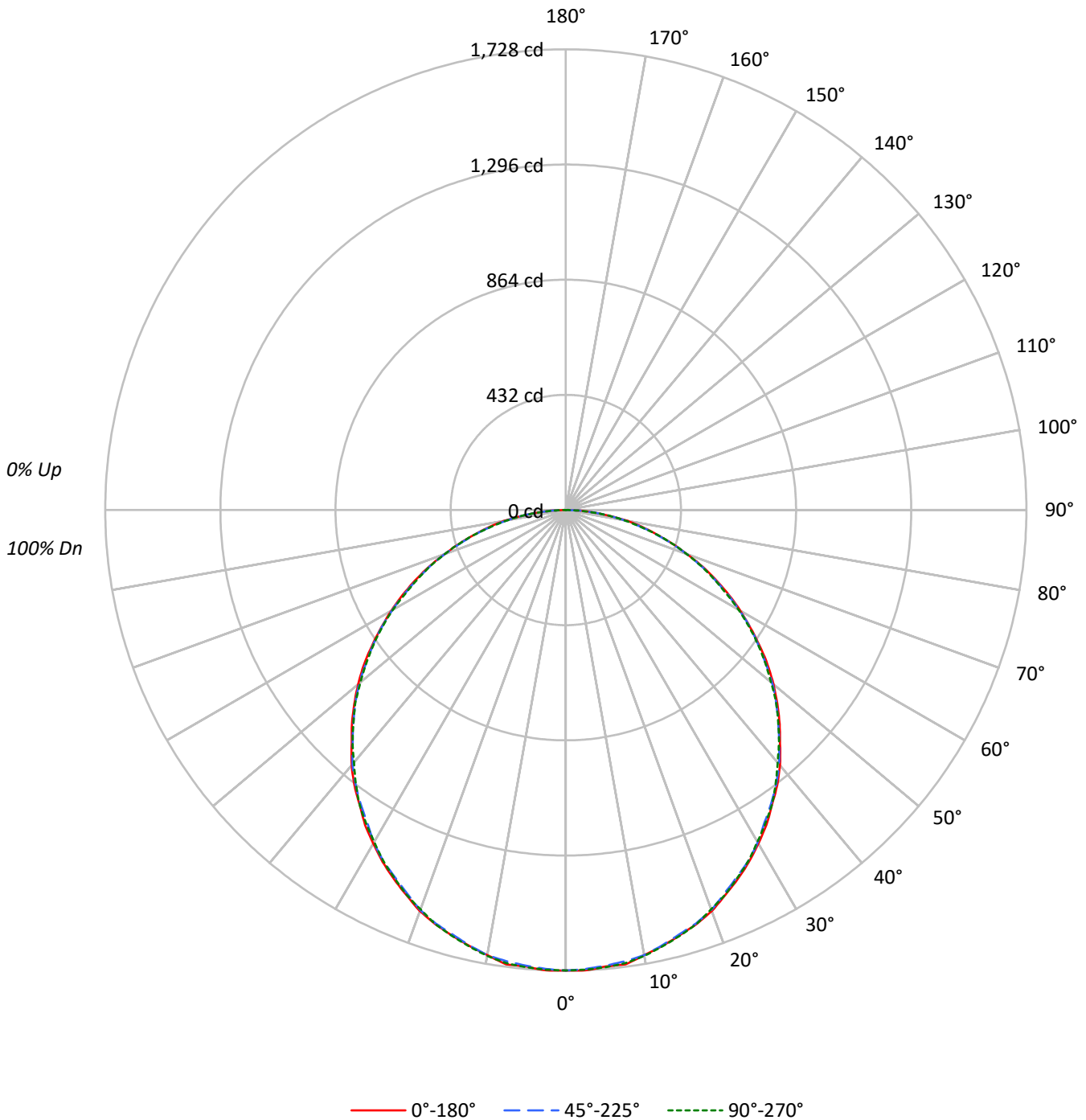
Lumens per Lamp: N/A  
Luminaire Lumens: 4934.3 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.9  
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: 24 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 90  | 88  | 89  | 87  | 85  | 85  | 85  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 71  | 71  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 60  | 60  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 51  | 51  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 45  | 45  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 39  | 39  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 26  | 26  | 26  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4648 | 4648 | 4648 |
| 5°  | 4642 | 4634 | 4650 |
| 10° | 4632 | 4632 | 4640 |
| 15° | 4601 | 4589 | 4605 |
| 20° | 4585 | 4573 | 4564 |
| 25° | 4534 | 4508 | 4521 |
| 30° | 4489 | 4474 | 4466 |
| 35° | 4432 | 4412 | 4432 |
| 40° | 4393 | 4372 | 4341 |
| 45° | 4318 | 4290 | 4290 |
| 50° | 4258 | 4234 | 4209 |
| 55° | 4167 | 4140 | 4133 |
| 60° | 4071 | 4048 | 4031 |
| 65° | 3966 | 3921 | 3903 |
| 70° | 3806 | 3797 | 3806 |
| 75° | 3674 | 3630 | 3662 |
| 80° | 3639 | 3456 | 3437 |
| 85° | 3223 | 3128 | 3174 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4318 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.4  | 3.3       |
| 10°-20°   | 466.2  | 9.4       |
| 20°-30°   | 701.9  | 14.2      |
| 30°-40°   | 842.4  | 17.1      |
| 40°-50°   | 871.7  | 17.7      |
| 50°-60°   | 789.8  | 16.0      |
| 60°-70°   | 612.3  | 12.4      |
| 70°-80°   | 371.7  | 7.5       |
| 80°-90°   | 115.0  | 2.3       |
| 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°    | 1331.5 | 27.0      |
| 0°-40°    | 2173.9 | 44.1      |
| 0°-60°    | 3835.4 | 77.7      |
| 0°-90°    | 4934.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4934.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1727 | 1727  | 1727 | 1727  | 1727 |      |
| 5°  | 1718 | 1718  | 1715 | 1720  | 1721 | 164  |
| 15° | 1652 | 1652  | 1647 | 1655  | 1653 | 467  |
| 25° | 1527 | 1524  | 1518 | 1524  | 1523 | 704  |
| 35° | 1349 | 1349  | 1343 | 1345  | 1349 | 846  |
| 45° | 1135 | 1133  | 1127 | 1127  | 1127 | 875  |
| 55° | 888  | 887   | 882  | 881   | 881  | 794  |
| 65° | 623  | 623   | 616  | 619   | 613  | 616  |
| 75° | 353  | 352   | 349  | 349   | 352  | 376  |
| 85° | 104  | 103   | 101  | 101   | 103  | 119  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1727.2 | 1727.2 | 1727.2 | 1727.2 | 1727.2 |
| 2.5°  | 1728.4 | 1721.3 | 1722.8 | 1725.6 | 1725.6 |
| 5°    | 1718.5 | 1718.5 | 1715.4 | 1719.7 | 1721.3 |
| 7.5°  | 1718.5 | 1711.1 | 1706.7 | 1711.1 | 1714.2 |
| 10°   | 1695.3 | 1692.2 | 1695.3 | 1693.7 | 1698.0 |
| 12.5° | 1674.8 | 1672.0 | 1672.0 | 1676.4 | 1676.4 |
| 15°   | 1651.6 | 1651.6 | 1647.3 | 1654.7 | 1653.1 |
| 17.5° | 1628.7 | 1628.7 | 1625.6 | 1625.6 | 1628.7 |
| 20°   | 1601.1 | 1593.7 | 1596.8 | 1595.2 | 1593.7 |
| 22.5° | 1563.3 | 1559.0 | 1556.2 | 1560.5 | 1561.8 |
| 25°   | 1527.1 | 1524.3 | 1518.4 | 1524.3 | 1522.7 |
| 27.5° | 1488.0 | 1484.9 | 1483.7 | 1480.6 | 1483.7 |
| 30°   | 1444.7 | 1441.6 | 1440.0 | 1437.2 | 1437.2 |
| 32.5° | 1401.0 | 1395.1 | 1388.0 | 1395.1 | 1393.9 |
| 35°   | 1349.0 | 1349.0 | 1343.1 | 1344.6 | 1349.0 |
| 37.5° | 1302.5 | 1299.7 | 1296.6 | 1292.3 | 1293.8 |
| 40°   | 1250.5 | 1246.1 | 1244.6 | 1241.8 | 1235.9 |
| 42.5° | 1189.4 | 1189.4 | 1183.9 | 1185.1 | 1183.9 |
| 45°   | 1134.6 | 1133.1 | 1127.2 | 1127.2 | 1127.2 |
| 47.5° | 1076.4 | 1075.1 | 1070.8 | 1067.7 | 1070.8 |
| 50°   | 1017.2 | 1011.3 | 1011.3 | 1007.0 | 1005.4 |
| 52.5° | 955.0  | 950.3  | 944.7  | 946.0  | 943.2  |
| 55°   | 888.1  | 886.8  | 882.5  | 880.9  | 880.9  |
| 57.5° | 821.5  | 823.0  | 819.9  | 814.3  | 815.6  |
| 60°   | 756.4  | 754.9  | 752.1  | 749.0  | 749.0  |
| 62.5° | 689.8  | 689.8  | 683.9  | 683.9  | 678.0  |
| 65°   | 622.9  | 622.9  | 615.8  | 618.6  | 613.0  |
| 67.5° | 556.3  | 555.1  | 550.4  | 549.2  | 550.4  |
| 70°   | 483.8  | 485.4  | 482.6  | 482.6  | 483.8  |
| 72.5° | 418.8  | 417.2  | 415.7  | 415.7  | 418.8  |
| 75°   | 353.4  | 352.2  | 349.1  | 349.1  | 352.2  |
| 77.5° | 294.3  | 286.8  | 285.3  | 288.4  | 284.0  |
| 80°   | 234.8  | 224.6  | 223.0  | 221.8  | 221.8  |
| 82.5° | 165.1  | 160.8  | 162.3  | 160.8  | 163.9  |
| 85°   | 104.4  | 102.8  | 101.3  | 101.3  | 102.8  |
| 87.5° | 49.3   | 46.5   | 46.5   | 44.9   | 44.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)