

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: P798138

Luminaire Tested: 14GRSCT3-A19 156-UNV-LOW-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291376)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14GRSCT3-A19 156-UNV-LOW-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

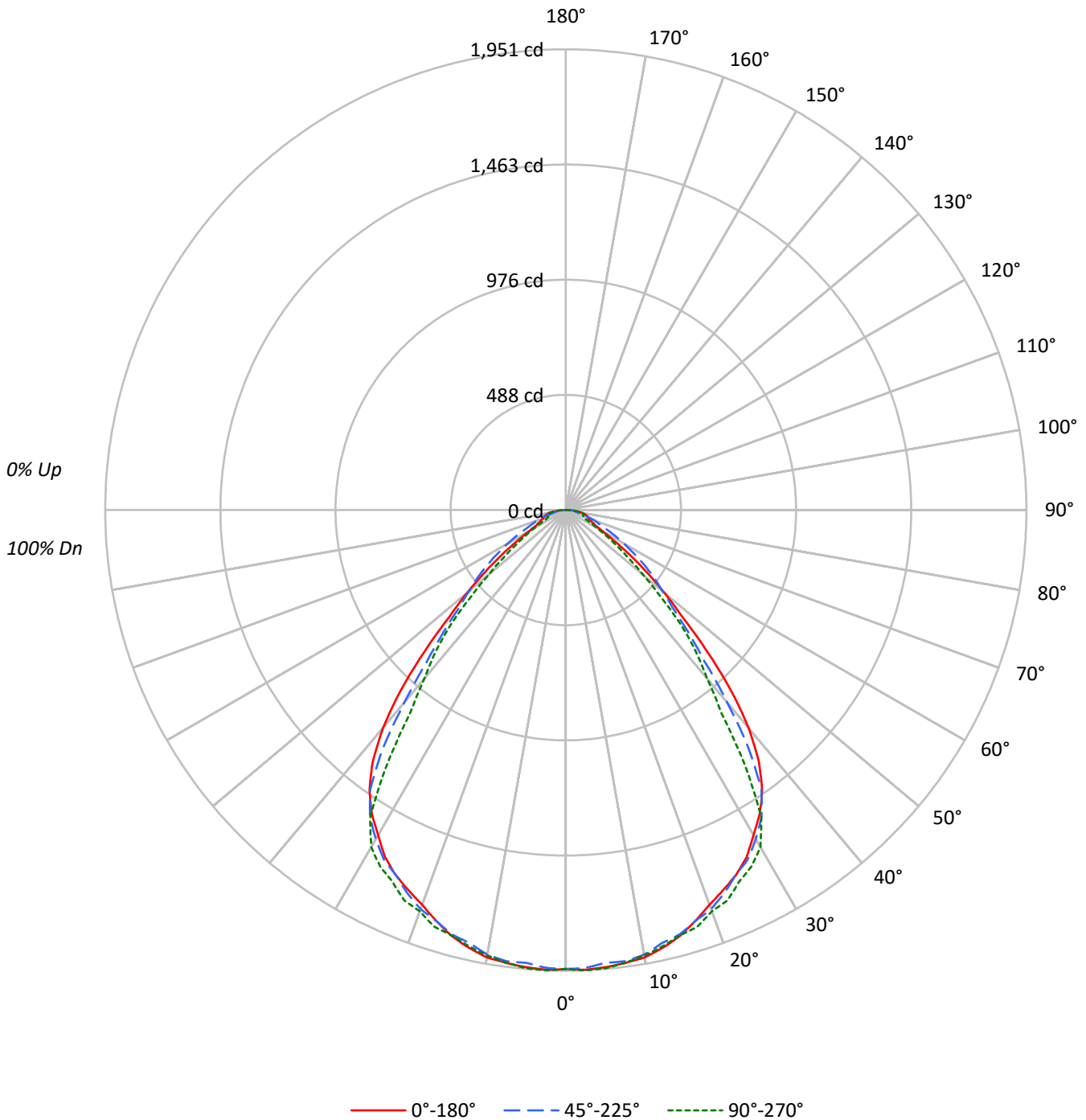
Lumens per Lamp: N/A  
Luminaire Lumens: 3655.7 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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   | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 90  | 90  | 90  | 88  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 79  | 79  | 79  | 77  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 73  | 80  | 75  | 71  | 77  | 73  | 70  | 70  | 70  | 70  | 68  |
| 4   | 89  | 79  | 71  | 65  | 87  | 77  | 70  | 65  | 75  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 63  | 63  | 63  | 63  | 61  |
| 5   | 83  | 71  | 64  | 58  | 81  | 70  | 63  | 58  | 68  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 56  | 56  | 56  | 54  |
| 6   | 77  | 65  | 58  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 51  | 51  | 51  | 49  |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 51  | 46  | 55  | 50  | 46  | 46  | 46  | 46  | 44  |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 42  | 42  | 42  | 40  |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 38  | 38  | 38  | 37  |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 35  | 35  | 35  | 34  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5231 | 5231 | 5231 |
| 5°  | 5249 | 5199 | 5260 |
| 10° | 5257 | 5225 | 5234 |
| 15° | 5203 | 5185 | 5196 |
| 20° | 5095 | 5150 | 5178 |
| 25° | 5063 | 5061 | 5158 |
| 30° | 4940 | 5000 | 5122 |
| 35° | 4764 | 4745 | 4360 |
| 40° | 4230 | 3733 | 3269 |
| 45° | 3210 | 2793 | 2643 |
| 50° | 2277 | 2235 | 1793 |
| 55° | 1559 | 1908 | 1233 |
| 60° | 964  | 1523 | 824  |
| 65° | 793  | 1172 | 596  |
| 70° | 790  | 1021 | 613  |
| 75° | 948  | 732  | 818  |
| 80° | 1091 | 674  | 1026 |
| 85° | 1031 | 1192 | 1161 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3350 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 184.4  | 5.0       |
| 10°-20°   | 526.4  | 14.4      |
| 20°-30°   | 791.7  | 21.7      |
| 30°-40°   | 863.0  | 23.6      |
| 40°-50°   | 604.3  | 16.5      |
| 50°-60°   | 342.1  | 9.4       |
| 60°-70°   | 187.2  | 5.1       |
| 70°-80°   | 113.5  | 3.1       |
| 80°-90°   | 43.0   | 1.2       |
| 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°    | 1502.5 | 41.1      |
| 0°-40°    | 2365.6 | 64.7      |
| 0°-60°    | 3312.0 | 90.6      |
| 0°-90°    | 3655.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3655.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1944 | 1944  | 1944 | 1944  | 1944 |      |
| 5°  | 1943 | 1940  | 1925 | 1947  | 1947 | 185  |
| 15° | 1868 | 1863  | 1861 | 1888  | 1865 | 525  |
| 25° | 1705 | 1709  | 1704 | 1744  | 1737 | 783  |
| 35° | 1450 | 1444  | 1444 | 1371  | 1327 | 894  |
| 45° | 843  | 880   | 734  | 725   | 694  | 655  |
| 55° | 332  | 398   | 407  | 403   | 263  | 304  |
| 65° | 125  | 205   | 184  | 233   | 94   | 128  |
| 75° | 91   | 131   | 70   | 138   | 79   | 95   |
| 85° | 33   | 54    | 39   | 47    | 38   | 37   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1943.9 | 1943.9 | 1943.9 | 1943.9 | 1943.9 |
| 2.5°  | 1948.8 | 1946.5 | 1940.5 | 1952.2 | 1951.4 |
| 5°    | 1943.1 | 1939.7 | 1924.6 | 1947.3 | 1947.3 |
| 7.5°  | 1934.7 | 1926.4 | 1927.2 | 1939.7 | 1933.9 |
| 10°   | 1923.8 | 1909.5 | 1912.1 | 1915.5 | 1915.5 |
| 12.5° | 1898.8 | 1885.2 | 1878.7 | 1889.4 | 1892.8 |
| 15°   | 1867.7 | 1862.8 | 1861.0 | 1887.8 | 1865.2 |
| 17.5° | 1824.2 | 1835.1 | 1825.0 | 1846.9 | 1850.3 |
| 20°   | 1779.1 | 1800.0 | 1798.4 | 1813.3 | 1808.3 |
| 22.5° | 1742.3 | 1755.6 | 1755.6 | 1774.1 | 1789.0 |
| 25°   | 1705.3 | 1708.7 | 1704.5 | 1743.9 | 1737.1 |
| 27.5° | 1657.6 | 1655.2 | 1668.6 | 1688.6 | 1702.0 |
| 30°   | 1589.8 | 1590.8 | 1609.1 | 1636.0 | 1648.5 |
| 32.5° | 1528.0 | 1520.5 | 1543.1 | 1554.9 | 1541.3 |
| 35°   | 1450.1 | 1443.5 | 1444.3 | 1370.6 | 1327.3 |
| 37.5° | 1344.0 | 1349.7 | 1272.8 | 1138.0 | 1081.2 |
| 40°   | 1204.2 | 1215.9 | 1062.7 | 962.3  | 930.5  |
| 42.5° | 1035.1 | 1038.4 | 871.1  | 838.5  | 817.6  |
| 45°   | 843.4  | 880.4  | 733.9  | 724.8  | 694.5  |
| 47.5° | 668.7  | 737.3  | 615.0  | 621.0  | 549.0  |
| 50°   | 543.9  | 612.4  | 533.9  | 536.3  | 428.4  |
| 52.5° | 430.2  | 497.2  | 471.1  | 463.6  | 336.3  |
| 55°   | 332.2  | 397.6  | 406.7  | 403.3  | 262.8  |
| 57.5° | 244.3  | 314.7  | 341.5  | 354.0  | 202.6  |
| 60°   | 179.1  | 256.8  | 282.9  | 307.9  | 153.1  |
| 62.5° | 142.3  | 222.6  | 231.8  | 268.6  | 118.9  |
| 65°   | 124.6  | 204.9  | 184.1  | 232.6  | 93.6   |
| 67.5° | 111.3  | 195.0  | 149.9  | 205.9  | 82.1   |
| 70°   | 100.4  | 175.7  | 129.8  | 184.1  | 77.9   |
| 72.5° | 100.4  | 154.1  | 102.2  | 163.2  | 78.7   |
| 75°   | 91.2   | 131.4  | 70.4   | 138.2  | 78.7   |
| 77.5° | 81.1   | 112.1  | 52.7   | 112.1  | 73.5   |
| 80°   | 70.4   | 87.9   | 43.5   | 86.3   | 66.2   |
| 82.5° | 51.9   | 66.2   | 37.6   | 64.4   | 53.5   |
| 85°   | 33.4   | 54.5   | 38.6   | 46.9   | 37.6   |
| 87.5° | 15.9   | 27.6   | 24.3   | 23.5   | 19.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)