

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: P601328

Luminaire Tested: 14CGSB-55-L840

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-233-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CGSB-55-L840  
Description: 1x4 CGSB AT 5500lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

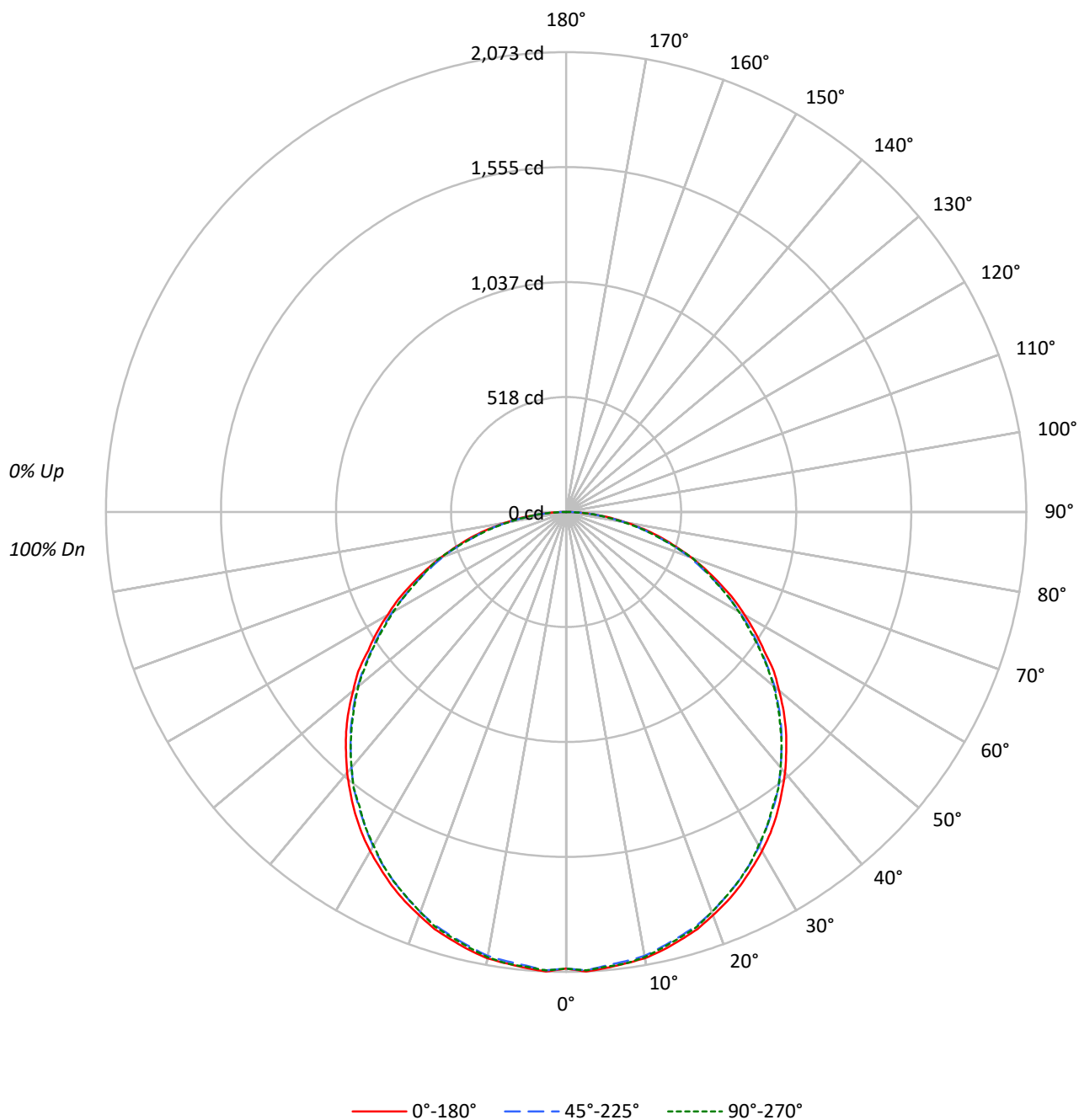
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5974.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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  |     |  |     |     | 0   |
| 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   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  |  | 97  | 94  | 91  |  | 93  | 90  | 88  |  | 89  | 87  | 85  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  |  | 84  | 79  | 74  |  | 81  | 77  | 73  |  | 78  | 74  | 71  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  |  | 74  | 68  | 62  |  | 71  | 66  | 61  |  | 69  | 64  | 60  |
| 4   | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  |  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  | 56  | 51  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  |  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  |  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 42  | 36  |  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 39  | 35  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  |  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  |  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  |  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5537 | 5537 | 5537 |
| 5°  | 5572 | 5545 | 5558 |
| 10° | 5581 | 5552 | 5567 |
| 15° | 5561 | 5518 | 5533 |
| 20° | 5540 | 5496 | 5496 |
| 25° | 5516 | 5454 | 5454 |
| 30° | 5485 | 5405 | 5389 |
| 35° | 5445 | 5344 | 5327 |
| 40° | 5390 | 5282 | 5282 |
| 45° | 5331 | 5214 | 5195 |
| 50° | 5242 | 5134 | 5113 |
| 55° | 5104 | 4983 | 4959 |
| 60° | 4999 | 4860 | 4833 |
| 65° | 4869 | 4738 | 4705 |
| 70° | 4724 | 4643 | 4764 |
| 75° | 4588 | 4375 | 4375 |
| 80° | 4294 | 4215 | 4055 |
| 85° | 3961 | 3804 | 3804 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5331 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.7  | 3.3       |
| 10°-20°   | 560.9  | 9.4       |
| 20°-30°   | 848.6  | 14.2      |
| 30°-40°   | 1022.6 | 17.1      |
| 40°-50°   | 1061.8 | 17.8      |
| 50°-60°   | 956.2  | 16.0      |
| 60°-70°   | 738.9  | 12.4      |
| 70°-80°   | 450.2  | 7.5       |
| 80°-90°   | 139.2  | 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°    | 1605.2 | 26.9      |
| 0°-40°    | 2627.7 | 44.0      |
| 0°-60°    | 4645.8 | 77.8      |
| 0°-90°    | 5974.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5974.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2058 | 2058  | 2058 | 2058  | 2058 |      |
| 5°  | 2063 | 2058  | 2053 | 2053  | 2058 | 196  |
| 15° | 1996 | 1991  | 1981 | 1981  | 1986 | 564  |
| 25° | 1858 | 1852  | 1837 | 1832  | 1837 | 856  |
| 35° | 1657 | 1647  | 1627 | 1622  | 1622 | 1036 |
| 45° | 1401 | 1391  | 1370 | 1365  | 1365 | 1079 |
| 55° | 1088 | 1078  | 1062 | 1057  | 1057 | 977  |
| 65° | 765  | 749   | 744  | 734   | 739  | 758  |
| 75° | 441  | 426   | 421  | 416   | 421  | 464  |
| 85° | 128  | 128   | 123  | 118   | 123  | 145  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2057.7 | 2057.7 | 2057.7 | 2057.7 | 2057.7 |
| 2.5°  | 2073.1 | 2073.1 | 2068.0 | 2068.0 | 2068.0 |
| 5°    | 2062.8 | 2057.7 | 2052.6 | 2052.6 | 2057.7 |
| 7.5°  | 2052.6 | 2052.6 | 2042.3 | 2042.3 | 2052.6 |
| 10°   | 2042.3 | 2037.2 | 2032.0 | 2032.0 | 2037.2 |
| 12.5° | 2021.8 | 2016.6 | 2006.4 | 2006.4 | 2011.5 |
| 15°   | 1996.1 | 1991.0 | 1980.7 | 1980.7 | 1985.9 |
| 17.5° | 1970.5 | 1965.3 | 1955.1 | 1955.1 | 1960.2 |
| 20°   | 1934.5 | 1929.4 | 1919.2 | 1914.0 | 1919.2 |
| 22.5° | 1898.6 | 1893.5 | 1878.1 | 1873.0 | 1878.1 |
| 25°   | 1857.6 | 1852.4 | 1837.0 | 1831.9 | 1837.0 |
| 27.5° | 1811.4 | 1806.3 | 1790.9 | 1785.7 | 1790.9 |
| 30°   | 1765.2 | 1754.9 | 1739.6 | 1729.3 | 1734.4 |
| 32.5° | 1713.9 | 1703.6 | 1683.1 | 1678.0 | 1683.1 |
| 35°   | 1657.4 | 1647.2 | 1626.7 | 1621.5 | 1621.5 |
| 37.5° | 1595.9 | 1590.7 | 1570.2 | 1565.1 | 1570.2 |
| 40°   | 1534.3 | 1524.0 | 1503.5 | 1498.4 | 1503.5 |
| 42.5° | 1467.6 | 1457.3 | 1436.8 | 1436.8 | 1436.8 |
| 45°   | 1400.9 | 1390.6 | 1370.1 | 1365.0 | 1365.0 |
| 47.5° | 1329.0 | 1318.8 | 1298.3 | 1293.1 | 1293.1 |
| 50°   | 1252.1 | 1241.8 | 1226.4 | 1221.3 | 1221.3 |
| 52.5° | 1180.2 | 1164.8 | 1144.3 | 1139.2 | 1139.2 |
| 55°   | 1087.9 | 1077.6 | 1062.2 | 1057.1 | 1057.1 |
| 57.5° | 1010.9 | 995.5  | 985.2  | 975.0  | 975.0  |
| 60°   | 928.8  | 913.4  | 903.1  | 898.0  | 898.0  |
| 62.5° | 851.8  | 831.3  | 821.0  | 815.9  | 821.0  |
| 65°   | 764.6  | 749.2  | 744.1  | 733.8  | 738.9  |
| 67.5° | 682.5  | 667.1  | 662.0  | 662.0  | 672.2  |
| 70°   | 600.4  | 585.0  | 590.1  | 574.7  | 605.5  |
| 72.5° | 518.3  | 508.0  | 508.0  | 492.6  | 508.0  |
| 75°   | 441.3  | 425.9  | 420.8  | 415.6  | 420.8  |
| 77.5° | 359.2  | 354.1  | 348.9  | 338.7  | 343.8  |
| 80°   | 277.1  | 287.4  | 272.0  | 256.6  | 261.7  |
| 82.5° | 205.3  | 200.1  | 189.9  | 184.7  | 189.9  |
| 85°   | 128.3  | 128.3  | 123.2  | 118.0  | 123.2  |
| 87.5° | 61.6   | 61.6   | 56.4   | 56.4   | 61.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)