

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: P798358

Luminaire Tested: 22CBRK-SL3-UNV-HIGH-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-063-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CBRK-SL3-UNV-HIGH-3500K  
Description: CBRK-S Center Basket Retrofit Kit  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

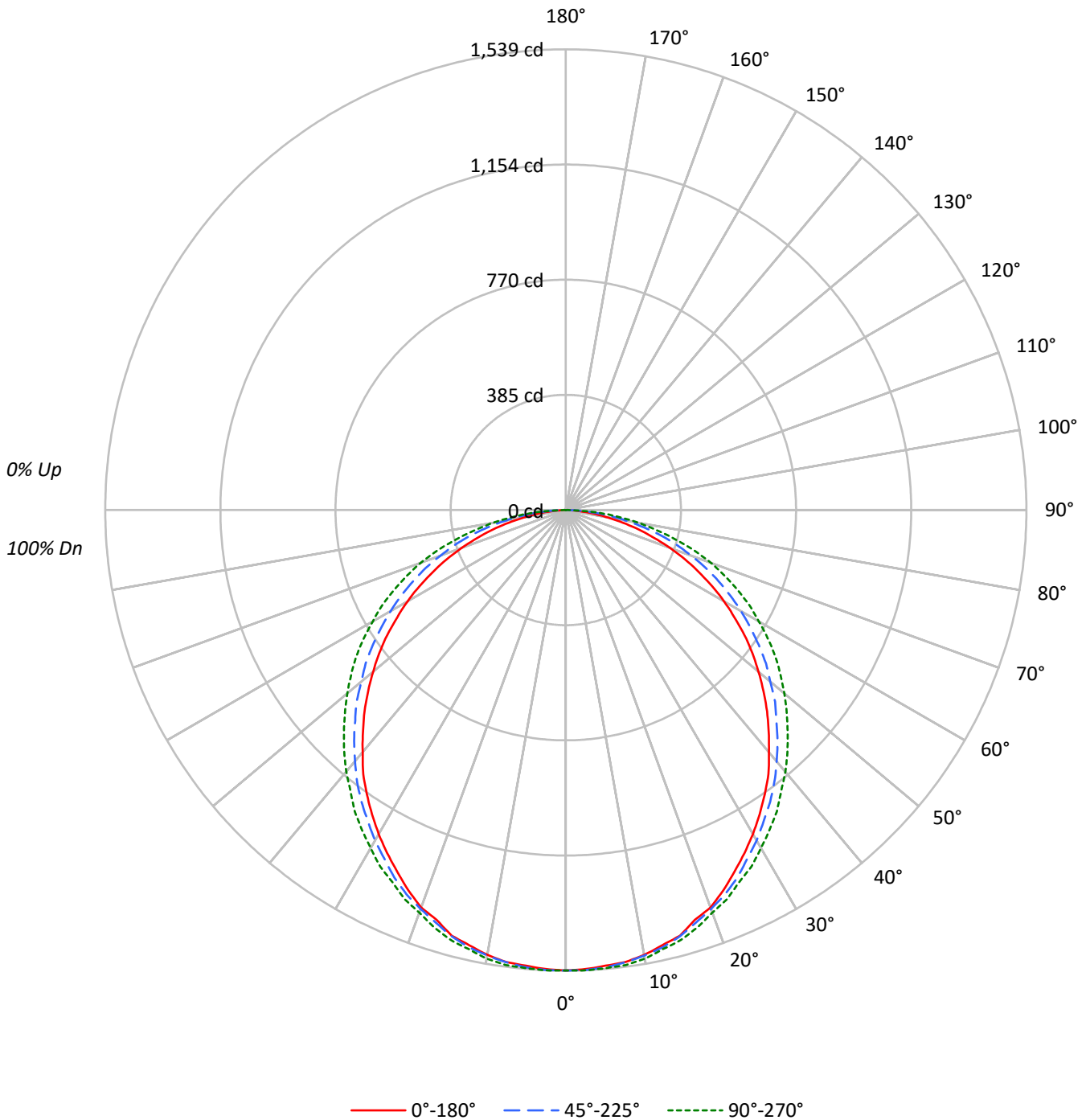
Lumens per Lamp: N/A  
Luminaire Lumens: 4401.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.4  
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  | 93  | 97  | 94  | 91  | 93  | 90  | 88  | 89  | 87  | 85  | 85  | 85  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 71  | 71  | 71  | 69  |
| 3   | 90  | 79  | 70  | 64  | 87  | 77  | 69  | 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  | 63  | 57  | 52  | 61  | 56  | 51  | 51  | 51  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 45  | 45  | 45  | 42  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 39  | 39  | 39  | 37  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 31  | 29  |
| 9   | 56  | 42  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 33  | 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  | 25  | 25  | 25  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4139 | 4139 | 4139 |
| 5°  | 4128 | 4141 | 4149 |
| 10° | 4124 | 4129 | 4159 |
| 15° | 4101 | 4107 | 4143 |
| 20° | 4047 | 4061 | 4098 |
| 25° | 3958 | 4024 | 4071 |
| 30° | 3884 | 3962 | 4052 |
| 35° | 3808 | 3910 | 4038 |
| 40° | 3710 | 3850 | 4008 |
| 45° | 3620 | 3787 | 3989 |
| 50° | 3517 | 3731 | 3990 |
| 55° | 3421 | 3693 | 4012 |
| 60° | 3289 | 3639 | 4010 |
| 65° | 3120 | 3585 | 4038 |
| 70° | 2911 | 3509 | 4060 |
| 75° | 2620 | 3421 | 3951 |
| 80° | 2201 | 3177 | 3828 |
| 85° | 1513 | 2871 | 3582 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 70°  
 Luminance: 4060 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.6  | 3.3       |
| 10°-20°   | 415.3  | 9.4       |
| 20°-30°   | 623.6  | 14.2      |
| 30°-40°   | 745.0  | 16.9      |
| 40°-50°   | 770.5  | 17.5      |
| 50°-60°   | 705.4  | 16.0      |
| 60°-70°   | 556.5  | 12.6      |
| 70°-80°   | 339.8  | 7.7       |
| 80°-90°   | 99.2   | 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°    | 1184.5 | 26.9      |
| 0°-40°    | 1929.6 | 43.8      |
| 0°-60°    | 3405.5 | 77.4      |
| 0°-90°    | 4401.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4401.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1538 | 1538  | 1538 | 1538  | 1538 |      |
| 5°  | 1528 | 1532  | 1533 | 1534  | 1536 | 145  |
| 15° | 1472 | 1464  | 1474 | 1476  | 1487 | 414  |
| 25° | 1333 | 1340  | 1355 | 1370  | 1371 | 615  |
| 35° | 1159 | 1166  | 1190 | 1218  | 1229 | 725  |
| 45° | 951  | 963   | 995  | 1032  | 1048 | 733  |
| 55° | 729  | 742   | 787  | 834   | 855  | 650  |
| 65° | 490  | 511   | 563  | 612   | 634  | 486  |
| 75° | 252  | 278   | 329  | 365   | 380  | 267  |
| 85° | 49   | 68    | 93   | 112   | 116  | 63   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1538.1 | 1538.1 | 1538.1 | 1538.1 | 1538.1 |
| 2.5°  | 1535.1 | 1536.1 | 1538.1 | 1537.1 | 1539.1 |
| 5°    | 1528.1 | 1532.1 | 1533.1 | 1534.1 | 1536.1 |
| 7.5°  | 1523.1 | 1516.1 | 1524.1 | 1527.1 | 1533.1 |
| 10°   | 1509.1 | 1501.1 | 1511.1 | 1518.1 | 1522.1 |
| 12.5° | 1489.1 | 1483.1 | 1496.1 | 1496.1 | 1502.1 |
| 15°   | 1472.1 | 1464.1 | 1474.1 | 1476.1 | 1487.1 |
| 17.5° | 1435.1 | 1438.1 | 1445.1 | 1455.1 | 1462.1 |
| 20°   | 1413.1 | 1410.1 | 1418.1 | 1428.1 | 1431.1 |
| 22.5° | 1375.1 | 1374.1 | 1390.1 | 1398.1 | 1407.1 |
| 25°   | 1333.1 | 1340.1 | 1355.1 | 1370.1 | 1371.1 |
| 27.5° | 1292.1 | 1300.1 | 1313.1 | 1332.1 | 1343.1 |
| 30°   | 1250.1 | 1258.1 | 1275.1 | 1294.1 | 1304.1 |
| 32.5° | 1205.1 | 1210.1 | 1231.1 | 1258.1 | 1267.1 |
| 35°   | 1159.1 | 1166.1 | 1190.1 | 1218.1 | 1229.1 |
| 37.5° | 1112.1 | 1117.1 | 1145.1 | 1174.1 | 1182.1 |
| 40°   | 1056.1 | 1065.1 | 1096.1 | 1124.1 | 1141.1 |
| 42.5° | 1003.1 | 1019.1 | 1047.1 | 1078.1 | 1096.1 |
| 45°   | 951.1  | 963.1  | 995.1  | 1032.1 | 1048.1 |
| 47.5° | 896.1  | 911.1  | 948.1  | 986.1  | 1001.1 |
| 50°   | 840.1  | 859.1  | 891.1  | 938.1  | 953.1  |
| 52.5° | 786.1  | 801.1  | 843.1  | 886.1  | 904.1  |
| 55°   | 729.1  | 742.1  | 787.1  | 834.1  | 855.1  |
| 57.5° | 668.1  | 688.1  | 731.1  | 781.1  | 801.1  |
| 60°   | 611.1  | 629.1  | 676.1  | 728.1  | 745.1  |
| 62.5° | 551.0  | 570.0  | 620.1  | 669.1  | 693.1  |
| 65°   | 490.0  | 511.0  | 563.0  | 612.1  | 634.1  |
| 67.5° | 432.0  | 455.0  | 507.0  | 553.0  | 575.0  |
| 70°   | 370.0  | 396.0  | 446.0  | 496.0  | 516.0  |
| 72.5° | 310.0  | 337.0  | 389.0  | 432.0  | 449.0  |
| 75°   | 252.0  | 278.0  | 329.0  | 365.0  | 380.0  |
| 77.5° | 196.0  | 222.0  | 266.0  | 297.0  | 310.0  |
| 80°   | 142.0  | 166.0  | 205.0  | 233.0  | 247.0  |
| 82.5° | 93.0   | 117.0  | 148.0  | 175.0  | 181.0  |
| 85°   | 49.0   | 68.0   | 93.0   | 112.0  | 116.0  |
| 87.5° | 17.0   | 24.0   | 36.0   | 39.0   | 40.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)