

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: P#

Luminaire Tested: **6RSRK-TB-50-HE-L840**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 6RSRK-TB-50-HE-L840  
Description: 6ft RSRK, 500 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE RIBBED LENS  
Light Source: -  
Ballast/Driver: -

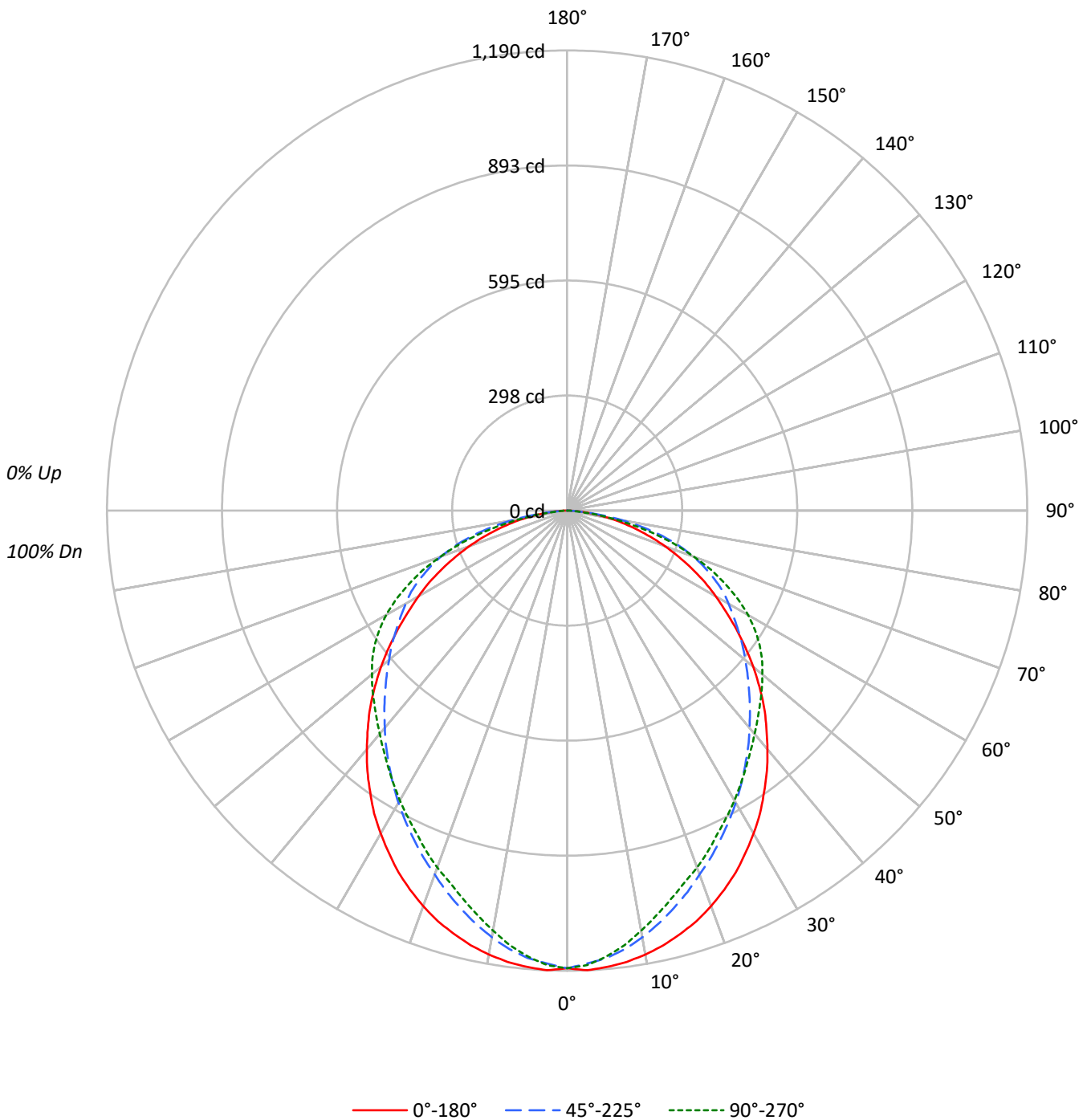
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3096.0 lumens  
Efficiency: N/A  
Efficacy: 216.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.3  
Input Voltage (V): NR  
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

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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 | 100 |    |    |    | 100 |
| 1   | 109 | 104 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 87  | 85  | 83  |    |    |    | 83  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 85  | 79  | 75  | 81  | 77  | 73  | 78  | 75  | 71  | 69  |    |    |    | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 49  |    |    |    | 49  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |    |    |    | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |    |    |    | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |    | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 30  |    |    |    | 30  |
| 9   | 56  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 27  |    |    |    | 27  |
| 10  | 53  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 26  | 24  |    |    |    | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2123 | 2123 | 2123 |
| 5°  | 2133 | 2092 | 2085 |
| 10° | 2123 | 2041 | 2009 |
| 15° | 2104 | 1977 | 1931 |
| 20° | 2078 | 1912 | 1876 |
| 25° | 2043 | 1858 | 1824 |
| 30° | 1998 | 1807 | 1793 |
| 35° | 1945 | 1758 | 1768 |
| 40° | 1886 | 1718 | 1766 |
| 45° | 1828 | 1689 | 1790 |
| 50° | 1753 | 1677 | 1839 |
| 55° | 1670 | 1688 | 1901 |
| 60° | 1591 | 1731 | 1939 |
| 65° | 1514 | 1785 | 1922 |
| 70° | 1415 | 1823 | 1827 |
| 75° | 1270 | 1770 | 1637 |
| 80° | 1112 | 1502 | 1216 |
| 85° | 834  | 795  | 513  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.3  | 3.6       |
| 10°-20°   | 303.5  | 9.8       |
| 20°-30°   | 441.5  | 14.3      |
| 30°-40°   | 516.4  | 16.7      |
| 40°-50°   | 530.8  | 17.1      |
| 50°-60°   | 493.8  | 16.0      |
| 60°-70°   | 401.7  | 13.0      |
| 70°-80°   | 243.3  | 7.9       |
| 80°-90°   | 54.5   | 1.8       |
| 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°    | 855.4  | 27.6      |
| 0°-40°    | 1371.8 | 44.3      |
| 0°-60°    | 2396.5 | 77.4      |
| 0°-90°    | 3096.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3096.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1184 | 1184  | 1184 | 1184  | 1184 |      |
| 5°  | 1185 | 1178  | 1162 | 1164  | 1158 | 112  |
| 15° | 1133 | 1109  | 1065 | 1049  | 1040 | 319  |
| 25° | 1032 | 989   | 938  | 929   | 921  | 475  |
| 35° | 888  | 841   | 803  | 808   | 808  | 556  |
| 45° | 721  | 674   | 666  | 695   | 705  | 555  |
| 55° | 534  | 505   | 540  | 595   | 608  | 478  |
| 65° | 357  | 350   | 420  | 454   | 453  | 353  |
| 75° | 183  | 218   | 255  | 244   | 236  | 196  |
| 85° | 40   | 56    | 39   | 28    | 25   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1183.5 | 1183.5 | 1183.5 | 1183.5 | 1183.5 |
| 2.5°  | 1189.8 | 1184.3 | 1172.6 | 1179.2 | 1176.5 |
| 5°    | 1184.7 | 1177.7 | 1161.7 | 1164.0 | 1157.8 |
| 7.5°  | 1177.3 | 1167.2 | 1144.2 | 1139.5 | 1134.0 |
| 10°   | 1165.6 | 1150.8 | 1120.4 | 1113.0 | 1102.9 |
| 12.5° | 1151.2 | 1132.1 | 1093.9 | 1080.6 | 1071.3 |
| 15°   | 1132.9 | 1108.7 | 1064.7 | 1048.7 | 1039.7 |
| 17.5° | 1113.0 | 1083.0 | 1034.3 | 1017.9 | 1008.5 |
| 20°   | 1088.4 | 1054.1 | 1001.5 | 987.9  | 982.4  |
| 22.5° | 1061.2 | 1021.8 | 971.1  | 959.1  | 952.8  |
| 25°   | 1032.3 | 988.7  | 938.4  | 929.0  | 921.3  |
| 27.5° | 998.4  | 954.0  | 905.3  | 898.6  | 893.2  |
| 30°   | 964.5  | 918.9  | 872.5  | 867.9  | 865.5  |
| 32.5° | 928.7  | 879.2  | 838.2  | 837.5  | 836.3  |
| 35°   | 888.1  | 841.0  | 802.8  | 807.8  | 807.5  |
| 37.5° | 848.8  | 800.4  | 769.3  | 778.2  | 780.2  |
| 40°   | 805.5  | 758.4  | 733.4  | 748.6  | 754.1  |
| 42.5° | 763.0  | 717.8  | 699.9  | 720.6  | 729.5  |
| 45°   | 720.6  | 674.2  | 665.6  | 694.8  | 705.4  |
| 47.5° | 674.2  | 632.5  | 633.3  | 670.7  | 683.1  |
| 50°   | 628.2  | 589.2  | 600.9  | 644.6  | 659.0  |
| 52.5° | 580.7  | 547.1  | 571.7  | 619.2  | 635.6  |
| 55°   | 533.9  | 504.7  | 539.7  | 594.7  | 607.9  |
| 57.5° | 487.1  | 463.7  | 510.5  | 563.1  | 576.4  |
| 60°   | 443.5  | 423.2  | 482.4  | 530.4  | 540.5  |
| 62.5° | 401.8  | 385.4  | 454.8  | 494.5  | 499.6  |
| 65°   | 356.6  | 350.0  | 420.5  | 454.0  | 452.8  |
| 67.5° | 312.2  | 313.7  | 385.4  | 407.2  | 405.3  |
| 70°   | 269.7  | 282.1  | 347.6  | 356.6  | 348.4  |
| 72.5° | 226.0  | 249.4  | 303.6  | 302.8  | 294.6  |
| 75°   | 183.2  | 217.8  | 255.3  | 244.0  | 236.2  |
| 77.5° | 146.1  | 183.9  | 202.6  | 187.1  | 174.6  |
| 80°   | 107.6  | 147.3  | 145.4  | 127.8  | 117.7  |
| 82.5° | 70.5   | 102.5  | 90.0   | 72.5   | 67.8   |
| 85°   | 40.5   | 55.7   | 38.6   | 28.1   | 24.9   |
| 87.5° | 17.1   | 14.8   | 9.7    | 9.0    | 8.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)