

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: P289478

Luminaire Tested: **4RSRK-RM-50-HE-L835**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4RSRK-RM-50-HE-L835  
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

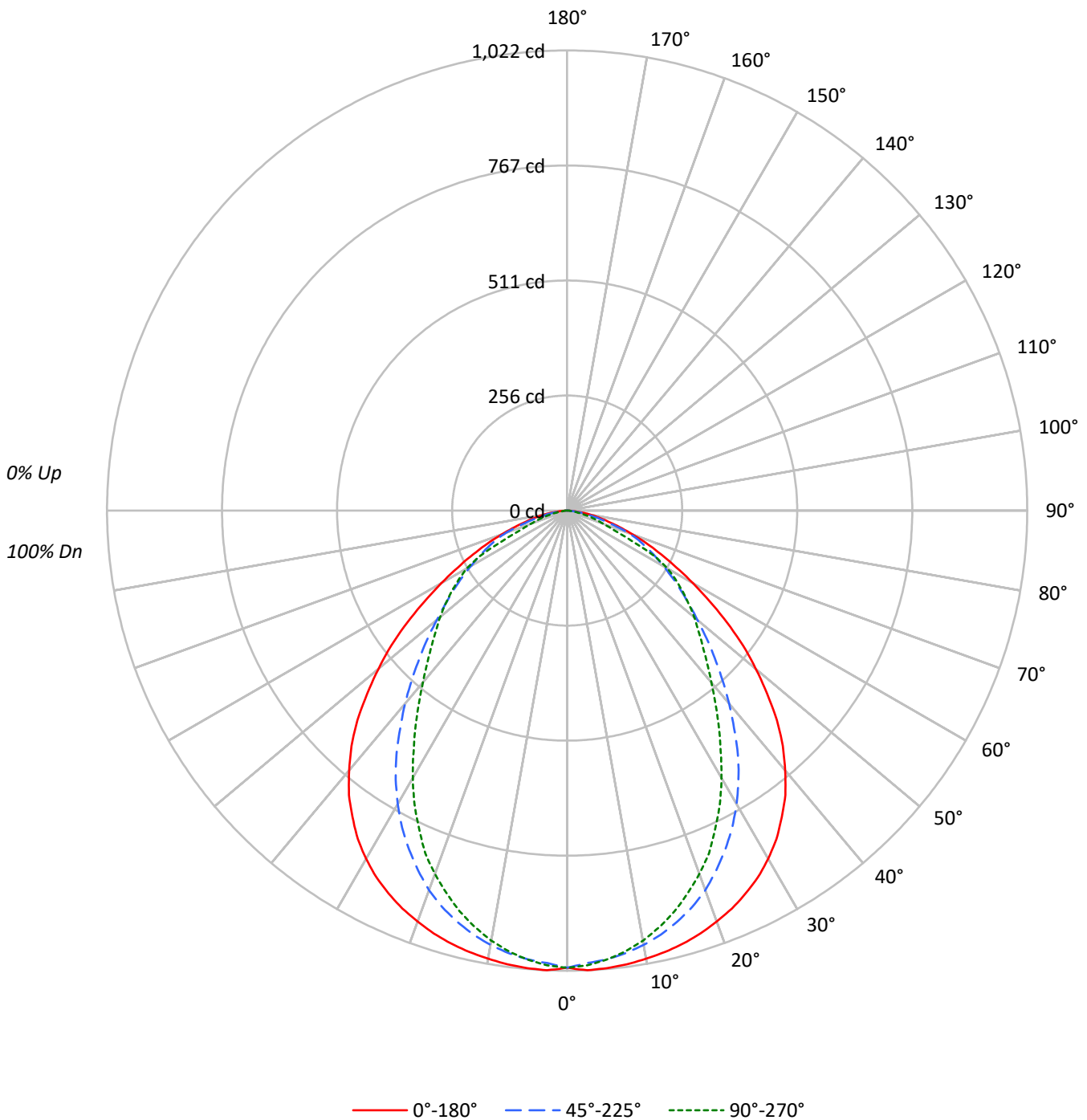
Lumens per Lamp: N/A  
Luminaire Lumens: 2155.2 lumens  
Efficiency: N/A  
Efficacy: 150.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  |
| 3   | 93  | 84  | 76  | 71  | 91  | 82  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 74  | 70  | 66  | 64  |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 66  | 61  | 71  | 65  | 60  | 69  | 64  | 59  | 67  | 62  | 58  | 56  |
| 5   | 80  | 68  | 59  | 53  | 78  | 67  | 59  | 53  | 65  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |
| 6   | 74  | 61  | 53  | 47  | 72  | 61  | 53  | 47  | 59  | 52  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 44  |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |
| 8   | 64  | 52  | 44  | 38  | 63  | 51  | 43  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 47  | 42  | 37  | 35  |
| 9   | 60  | 48  | 40  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 10  | 57  | 44  | 37  | 32  | 55  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2732 | 2732 | 2732 |
| 5°  | 2755 | 2703 | 2705 |
| 10° | 2762 | 2676 | 2650 |
| 15° | 2774 | 2633 | 2567 |
| 20° | 2781 | 2570 | 2459 |
| 25° | 2786 | 2466 | 2312 |
| 30° | 2774 | 2339 | 2131 |
| 35° | 2731 | 2173 | 1929 |
| 40° | 2646 | 1966 | 1750 |
| 45° | 2507 | 1764 | 1619 |
| 50° | 2292 | 1581 | 1543 |
| 55° | 2034 | 1445 | 1468 |
| 60° | 1735 | 1330 | 1385 |
| 65° | 1465 | 1246 | 989  |
| 70° | 1211 | 1135 | 670  |
| 75° | 980  | 834  | 525  |
| 80° | 814  | 595  | 324  |
| 85° | 562  | 250  | 219  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.5   | 4.4       |
| 10°-20°   | 268.4  | 12.5      |
| 20°-30°   | 388.8  | 18.0      |
| 30°-40°   | 426.7  | 19.8      |
| 40°-50°   | 385.5  | 17.9      |
| 50°-60°   | 300.6  | 13.9      |
| 60°-70°   | 190.3  | 8.8       |
| 70°-80°   | 83.3   | 3.9       |
| 80°-90°   | 16.0   | 0.7       |
| 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°    | 752.7  | 34.9      |
| 0°-40°    | 1179.5 | 54.7      |
| 0°-60°    | 1865.6 | 86.6      |
| 0°-90°    | 2155.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2155.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1015 | 1015  | 1015 | 1015  | 1015 |      |
| 5°  | 1020 | 1013  | 1001 | 1006  | 1001 | 97   |
| 15° | 996  | 977   | 945  | 934   | 922  | 281  |
| 25° | 938  | 897   | 831  | 799   | 779  | 432  |
| 35° | 831  | 757   | 662  | 609   | 587  | 519  |
| 45° | 659  | 554   | 464  | 436   | 425  | 505  |
| 55° | 434  | 348   | 308  | 312   | 313  | 387  |
| 65° | 230  | 191   | 196  | 187   | 155  | 230  |
| 75° | 94   | 97    | 80   | 58    | 50   | 103  |
| 85° | 18   | 17    | 8    | 7     | 7    | 24   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1015.2 | 1015.2 | 1015.2 | 1015.2 | 1015.2 |
| 2.5°  | 1021.9 | 1016.2 | 1006.1 | 1013.9 | 1011.2 |
| 5°    | 1019.9 | 1013.2 | 1000.7 | 1006.1 | 1001.4 |
| 7.5°  | 1016.2 | 1008.1 | 991.6  | 993.3  | 987.6  |
| 10°   | 1010.8 | 1000.1 | 979.5  | 977.5  | 969.7  |
| 12.5° | 1004.1 | 989.6  | 964.3  | 957.3  | 947.2  |
| 15°   | 995.7  | 977.1  | 945.1  | 933.7  | 921.6  |
| 17.5° | 984.9  | 961.3  | 923.3  | 904.7  | 890.9  |
| 20°   | 971.1  | 942.8  | 897.3  | 873.1  | 858.6  |
| 22.5° | 956.6  | 921.6  | 865.0  | 839.7  | 823.6  |
| 25°   | 938.4  | 897.3  | 830.6  | 799.3  | 778.8  |
| 27.5° | 917.9  | 869.4  | 793.6  | 754.8  | 734.3  |
| 30°   | 892.9  | 836.7  | 752.8  | 706.3  | 685.8  |
| 32.5° | 865.3  | 799.6  | 708.4  | 658.8  | 634.9  |
| 35°   | 831.3  | 756.9  | 661.5  | 608.7  | 587.1  |
| 37.5° | 796.3  | 710.7  | 609.0  | 559.8  | 541.3  |
| 40°   | 753.2  | 661.9  | 559.8  | 514.7  | 498.2  |
| 42.5° | 709.0  | 607.6  | 510.6  | 473.2  | 459.8  |
| 45°   | 658.8  | 554.4  | 463.5  | 435.9  | 425.4  |
| 47.5° | 602.6  | 501.5  | 420.0  | 402.8  | 395.4  |
| 50°   | 547.4  | 448.7  | 377.6  | 370.9  | 368.5  |
| 52.5° | 492.4  | 396.8  | 340.9  | 341.5  | 340.2  |
| 55°   | 433.5  | 347.6  | 307.9  | 312.2  | 312.9  |
| 57.5° | 374.9  | 300.8  | 276.9  | 285.0  | 285.6  |
| 60°   | 322.3  | 260.7  | 247.2  | 257.0  | 257.3  |
| 62.5° | 273.8  | 223.3  | 220.3  | 229.7  | 218.6  |
| 65°   | 230.1  | 191.3  | 195.7  | 187.3  | 155.3  |
| 67.5° | 191.0  | 164.7  | 171.8  | 131.0  | 110.1  |
| 70°   | 153.9  | 138.8  | 144.2  | 97.7   | 85.2   |
| 72.5° | 121.6  | 117.2  | 109.1  | 76.1   | 66.4   |
| 75°   | 94.3   | 97.0   | 80.2   | 57.6   | 50.5   |
| 77.5° | 72.1   | 78.8   | 58.3   | 41.4   | 34.7   |
| 80°   | 52.5   | 58.9   | 38.4   | 24.9   | 20.9   |
| 82.5° | 34.7   | 37.1   | 20.2   | 12.8   | 11.1   |
| 85°   | 18.2   | 17.2   | 8.1    | 7.4    | 7.1    |
| 87.5° | 7.7    | 4.4    | 4.0    | 3.4    | 3.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)