

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: P289577

Luminaire Tested: **8RSRK-RM-150-HE-L935**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289577  
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: 8RSRK-RM-150-HE-L935  
Description: 8ft RSRK, 1500 LUMEN PER FOOT 90CRI 3500K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

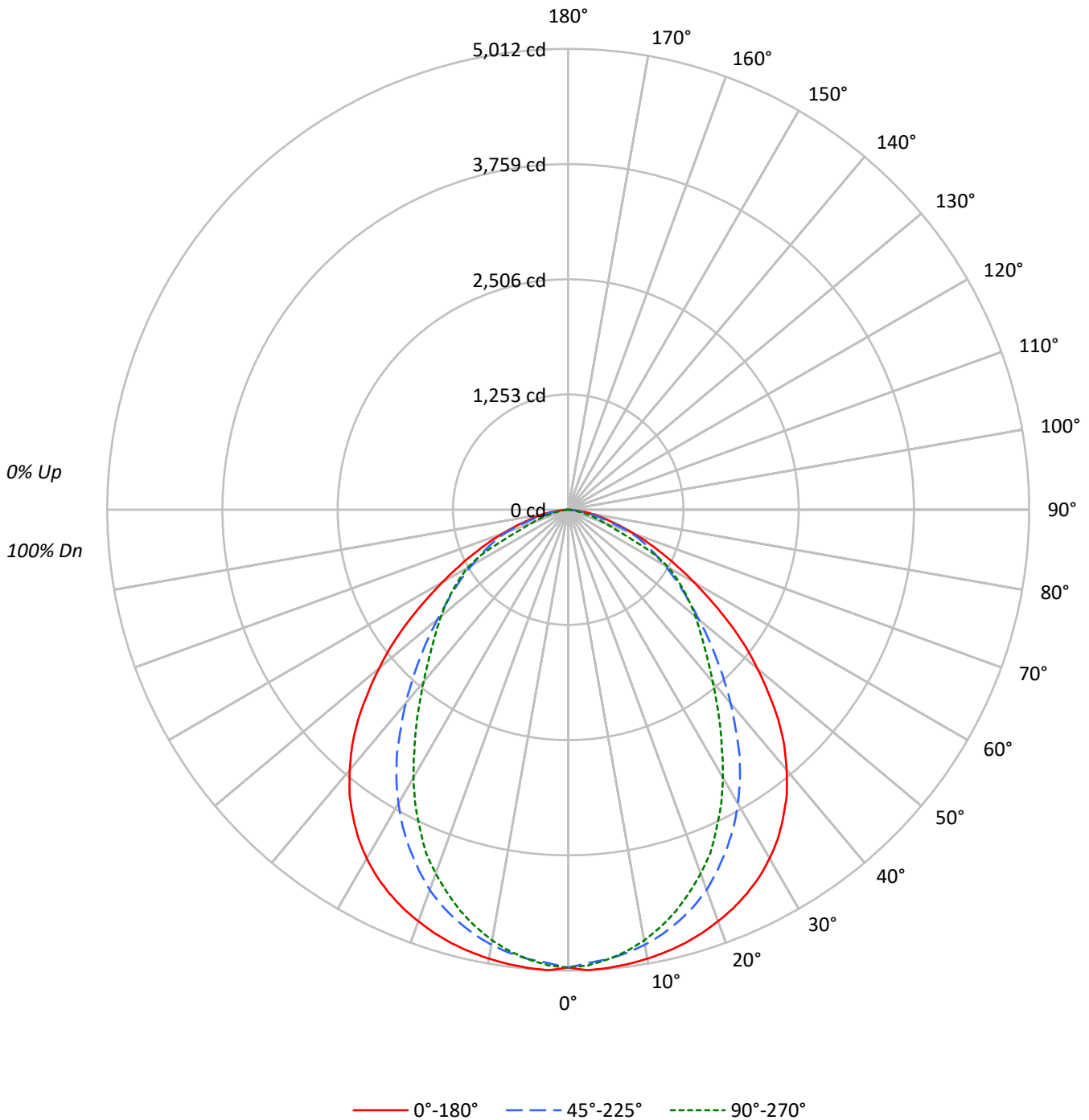
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10571.0 lumens  
Efficiency: N/A  
Efficacy: 239.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 44.2  
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°  | 6700 | 6700 | 6700 |
| 5°  | 6757 | 6629 | 6634 |
| 10° | 6774 | 6564 | 6498 |
| 15° | 6803 | 6457 | 6296 |
| 20° | 6820 | 6302 | 6030 |
| 25° | 6833 | 6048 | 5671 |
| 30° | 6805 | 5737 | 5226 |
| 35° | 6697 | 5330 | 4730 |
| 40° | 6488 | 4823 | 4292 |
| 45° | 6149 | 4326 | 3970 |
| 50° | 5620 | 3877 | 3783 |
| 55° | 4988 | 3542 | 3600 |
| 60° | 4255 | 3263 | 3397 |
| 65° | 3592 | 3056 | 2425 |
| 70° | 2970 | 2782 | 1644 |
| 75° | 2405 | 2044 | 1288 |
| 80° | 1997 | 1459 | 793  |
| 85° | 1377 | 613  | 536  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 468.5   | 4.4       |
| 10°-20°   | 1316.6  | 12.5      |
| 20°-30°   | 1906.9  | 18.0      |
| 30°-40°   | 2093.0  | 19.8      |
| 40°-50°   | 1891.0  | 17.9      |
| 50°-60°   | 1474.5  | 13.9      |
| 60°-70°   | 933.4   | 8.8       |
| 70°-80°   | 408.7   | 3.9       |
| 80°-90°   | 78.4    | 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°    | 3692.1  | 34.9      |
| 0°-40°    | 5785.1  | 54.7      |
| 0°-60°    | 9150.6  | 86.6      |
| 0°-90°    | 10571.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10571.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4980 | 4980  | 4980 | 4980  | 4980 |      |
| 5°  | 5003 | 4970  | 4908 | 4935  | 4912 | 476  |
| 15° | 4884 | 4793  | 4636 | 4580  | 4520 | 1379 |
| 25° | 4603 | 4401  | 4074 | 3920  | 3820 | 2120 |
| 35° | 4077 | 3712  | 3245 | 2985  | 2880 | 2546 |
| 45° | 3232 | 2719  | 2273 | 2138  | 2087 | 2478 |
| 55° | 2126 | 1705  | 1510 | 1532  | 1535 | 1900 |
| 65° | 1128 | 938   | 960  | 919   | 762  | 1130 |
| 75° | 463  | 476   | 393  | 282   | 248  | 506  |
| 85° | 89   | 84    | 40   | 36    | 35   | 116  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4979.5 | 4979.5 | 4979.5 | 4979.5 | 4979.5 |
| 2.5°  | 5012.5 | 4984.4 | 4934.9 | 4972.9 | 4959.7 |
| 5°    | 5002.6 | 4969.6 | 4908.4 | 4934.9 | 4911.7 |
| 7.5°  | 4984.4 | 4944.8 | 4863.8 | 4872.1 | 4844.0 |
| 10°   | 4958.0 | 4905.1 | 4804.4 | 4794.4 | 4756.4 |
| 12.5° | 4925.0 | 4853.9 | 4730.0 | 4695.3 | 4645.8 |
| 15°   | 4883.7 | 4792.8 | 4635.8 | 4579.7 | 4520.2 |
| 17.5° | 4830.8 | 4715.1 | 4528.5 | 4437.6 | 4369.9 |
| 20°   | 4763.1 | 4624.3 | 4401.2 | 4282.3 | 4211.2 |
| 22.5° | 4692.0 | 4520.2 | 4242.6 | 4118.7 | 4039.4 |
| 25°   | 4602.8 | 4401.2 | 4074.1 | 3920.5 | 3819.7 |
| 27.5° | 4502.0 | 4264.1 | 3892.4 | 3702.4 | 3601.6 |
| 30°   | 4379.8 | 4103.9 | 3692.5 | 3464.5 | 3363.7 |
| 32.5° | 4244.3 | 3922.1 | 3474.4 | 3231.5 | 3114.2 |
| 35°   | 4077.4 | 3712.3 | 3244.8 | 2985.4 | 2879.6 |
| 37.5° | 3905.6 | 3486.0 | 2987.0 | 2745.8 | 2655.0 |
| 40°   | 3694.1 | 3246.4 | 2745.8 | 2524.4 | 2443.5 |
| 42.5° | 3477.7 | 2980.4 | 2504.6 | 2321.2 | 2255.1 |
| 45°   | 3231.5 | 2719.4 | 2273.3 | 2137.8 | 2086.6 |
| 47.5° | 2955.6 | 2460.0 | 2060.2 | 1975.9 | 1939.6 |
| 50°   | 2684.7 | 2200.6 | 1852.0 | 1819.0 | 1807.4 |
| 52.5° | 2415.4 | 1946.2 | 1671.9 | 1675.2 | 1668.6 |
| 55°   | 2126.3 | 1705.0 | 1510.0 | 1531.5 | 1534.8 |
| 57.5° | 1838.8 | 1475.3 | 1358.0 | 1397.7 | 1401.0 |
| 60°   | 1581.1 | 1278.7 | 1212.7 | 1260.6 | 1262.2 |
| 62.5° | 1343.2 | 1095.4 | 1080.5 | 1126.7 | 1072.2 |
| 65°   | 1128.4 | 938.4  | 959.9  | 918.6  | 761.6  |
| 67.5° | 936.8  | 807.9  | 842.6  | 642.7  | 540.2  |
| 70°   | 755.0  | 680.7  | 707.1  | 479.1  | 418.0  |
| 72.5° | 596.4  | 574.9  | 535.3  | 373.4  | 325.5  |
| 75°   | 462.6  | 475.8  | 393.2  | 282.5  | 247.8  |
| 77.5° | 353.6  | 386.6  | 285.8  | 203.2  | 170.2  |
| 80°   | 257.7  | 289.1  | 188.3  | 122.3  | 102.4  |
| 82.5° | 170.2  | 181.7  | 99.1   | 62.8   | 54.5   |
| 85°   | 89.2   | 84.3   | 39.7   | 36.3   | 34.7   |
| 87.5° | 38.0   | 21.5   | 19.8   | 16.5   | 16.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)