

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: **8RSRK-TS-200-HE-L930**

Issue Date: 3/3/2020



**Test Information**

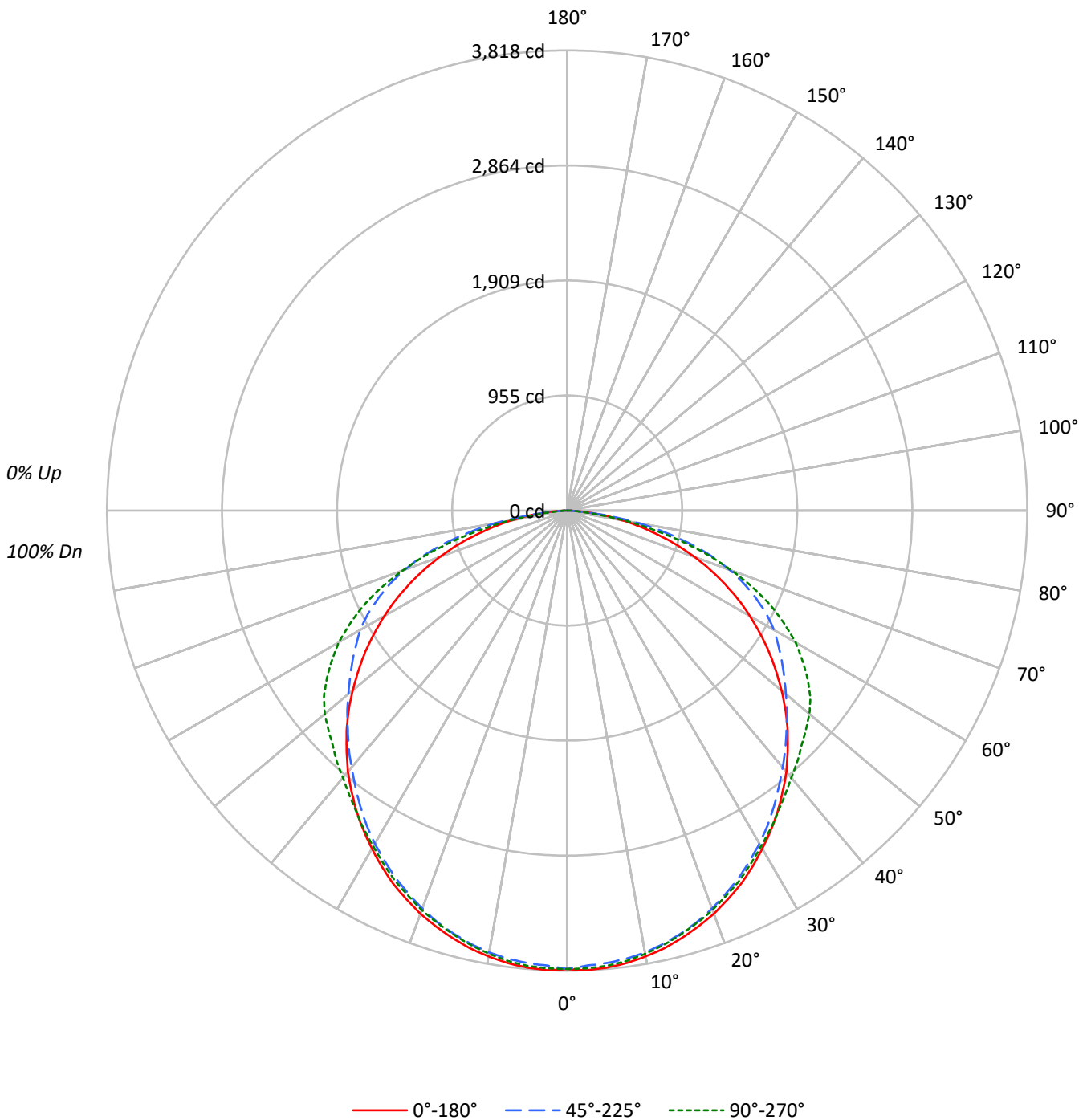
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-200-HE-L930  
Description: 8ft RSRK, 2000 LUMEN PER FOOT 90CRI 3000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11710.9 lumens  
Efficiency: N/A  
Efficacy: 191.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
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





TEST NUMBER: P#

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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   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 87  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 84  | 78  | 73  |  | 80  | 76  | 72  |  | 77  | 73  | 70  | 68  |
| 3   | 89  | 78  | 69  | 62  | 86  | 76  | 68  | 62  | 73  | 66  | 61  |  | 70  | 65  | 60  |  | 68  | 63  | 59  | 56  |
| 4   | 81  | 69  | 59  | 52  | 79  | 67  | 59  | 52  | 65  | 57  | 51  |  | 62  | 56  | 51  |  | 60  | 54  | 50  | 48  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 58  | 50  | 44  |  | 56  | 49  | 44  |  | 54  | 48  | 43  | 41  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 45  | 39  | 52  | 44  | 38  |  | 50  | 43  | 38  |  | 49  | 42  | 38  | 36  |
| 7   | 63  | 50  | 41  | 34  | 62  | 49  | 40  | 34  | 47  | 39  | 34  |  | 46  | 39  | 34  |  | 44  | 38  | 33  | 31  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 36  | 30  |  | 42  | 35  | 30  |  | 41  | 34  | 30  | 28  |
| 9   | 55  | 41  | 33  | 27  | 54  | 41  | 33  | 27  | 40  | 32  | 27  |  | 39  | 32  | 27  |  | 37  | 31  | 27  | 25  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 29  | 25  |  | 36  | 29  | 24  |  | 35  | 29  | 24  | 22  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5118 | 5118 | 5118 |
| 5°  | 5140 | 5090 | 5121 |
| 10° | 5132 | 5088 | 5102 |
| 15° | 5116 | 5064 | 5073 |
| 20° | 5097 | 5032 | 5050 |
| 25° | 5071 | 4995 | 5026 |
| 30° | 5033 | 4957 | 4998 |
| 35° | 5004 | 4917 | 5011 |
| 40° | 4969 | 4887 | 5081 |
| 45° | 4923 | 4896 | 5235 |
| 50° | 4861 | 4960 | 5493 |
| 55° | 4798 | 5102 | 5713 |
| 60° | 4715 | 5333 | 5891 |
| 65° | 4599 | 5513 | 5938 |
| 70° | 4423 | 5634 | 5706 |
| 75° | 4074 | 5450 | 5098 |
| 80° | 3608 | 4689 | 3911 |
| 85° | 2597 | 2376 | 1551 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 360.2   | 3.1       |
| 10°-20°   | 1030.9  | 8.8       |
| 20°-30°   | 1560.9  | 13.3      |
| 30°-40°   | 1893.2  | 16.2      |
| 40°-50°   | 2025.3  | 17.3      |
| 50°-60°   | 1963.0  | 16.8      |
| 60°-70°   | 1644.0  | 14.0      |
| 70°-80°   | 1010.2  | 8.6       |
| 80°-90°   | 223.1   | 1.9       |
| 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°    | 2952.0  | 25.2      |
| 0°-40°    | 4845.2  | 41.4      |
| 0°-60°    | 8833.5  | 75.4      |
| 0°-90°    | 11710.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11710.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3804 | 3804  | 3804 | 3804  | 3804 |      |
| 5°  | 3806 | 3798  | 3769 | 3794  | 3792 | 362  |
| 15° | 3672 | 3664  | 3636 | 3652  | 3642 | 1037 |
| 25° | 3416 | 3396  | 3365 | 3387  | 3385 | 1573 |
| 35° | 3047 | 3008  | 2993 | 3045  | 3051 | 1905 |
| 45° | 2587 | 2532  | 2573 | 2704  | 2751 | 1995 |
| 55° | 2046 | 1990  | 2175 | 2390  | 2435 | 1826 |
| 65° | 1444 | 1436  | 1732 | 1849  | 1865 | 1428 |
| 75° | 784  | 915   | 1048 | 1003  | 981  | 834  |
| 85° | 168  | 226   | 154  | 107   | 100  | 212  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3803.8 | 3803.8 | 3803.8 | 3803.8 | 3803.8 |
| 2.5°  | 3818.2 | 3807.9 | 3779.2 | 3803.8 | 3801.7 |
| 5°    | 3805.9 | 3797.6 | 3768.9 | 3793.5 | 3791.5 |
| 7.5°  | 3787.4 | 3779.2 | 3750.5 | 3775.1 | 3768.9 |
| 10°   | 3756.6 | 3750.5 | 3723.8 | 3742.3 | 3734.0 |
| 12.5° | 3719.7 | 3713.5 | 3682.8 | 3703.3 | 3693.0 |
| 15°   | 3672.5 | 3664.3 | 3635.6 | 3652.0 | 3641.7 |
| 17.5° | 3619.2 | 3608.9 | 3580.2 | 3596.6 | 3586.3 |
| 20°   | 3559.7 | 3545.3 | 3514.5 | 3537.1 | 3526.8 |
| 22.5° | 3487.8 | 3477.6 | 3440.7 | 3465.3 | 3455.0 |
| 25°   | 3416.0 | 3395.5 | 3364.7 | 3387.3 | 3385.3 |
| 27.5° | 3329.9 | 3309.3 | 3278.6 | 3305.2 | 3301.1 |
| 30°   | 3239.6 | 3217.0 | 3190.4 | 3217.0 | 3217.0 |
| 32.5° | 3145.2 | 3116.5 | 3096.0 | 3126.7 | 3137.0 |
| 35°   | 3046.7 | 3007.8 | 2993.4 | 3044.7 | 3050.8 |
| 37.5° | 2938.0 | 2899.0 | 2886.7 | 2954.4 | 2970.8 |
| 40°   | 2829.3 | 2780.0 | 2782.1 | 2868.2 | 2892.9 |
| 42.5° | 2708.2 | 2659.0 | 2681.5 | 2782.1 | 2827.2 |
| 45°   | 2587.2 | 2531.8 | 2572.8 | 2704.1 | 2751.3 |
| 47.5° | 2460.0 | 2406.6 | 2474.3 | 2628.2 | 2687.7 |
| 50°   | 2322.5 | 2269.2 | 2369.7 | 2556.4 | 2624.1 |
| 52.5° | 2183.0 | 2127.6 | 2269.2 | 2482.5 | 2544.1 |
| 55°   | 2045.5 | 1990.1 | 2174.8 | 2390.2 | 2435.3 |
| 57.5° | 1897.8 | 1850.6 | 2076.3 | 2269.2 | 2314.3 |
| 60°   | 1752.1 | 1711.1 | 1981.9 | 2146.0 | 2189.1 |
| 62.5° | 1602.4 | 1571.6 | 1867.0 | 2004.5 | 2029.1 |
| 65°   | 1444.4 | 1436.2 | 1731.6 | 1848.6 | 1865.0 |
| 67.5° | 1286.4 | 1306.9 | 1592.1 | 1668.0 | 1670.1 |
| 70°   | 1124.3 | 1179.7 | 1432.1 | 1464.9 | 1450.5 |
| 72.5° | 960.2  | 1056.6 | 1255.6 | 1239.2 | 1226.9 |
| 75°   | 783.7  | 915.0  | 1048.4 | 1003.3 | 980.7  |
| 77.5° | 623.7  | 771.4  | 826.8  | 763.2  | 728.3  |
| 80°   | 465.7  | 609.3  | 605.2  | 523.2  | 504.7  |
| 82.5° | 313.9  | 424.7  | 363.1  | 295.4  | 258.5  |
| 85°   | 168.2  | 225.7  | 153.9  | 106.7  | 100.5  |
| 87.5° | 63.6   | 53.3   | 41.0   | 36.9   | 36.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)