

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: P289474

Luminaire Tested: **4RSRK-RM-50-HE-L935**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289474
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-L935
Description: 4ft RSRK, 500 LUMEN PER FOOT 90CRI 3500K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

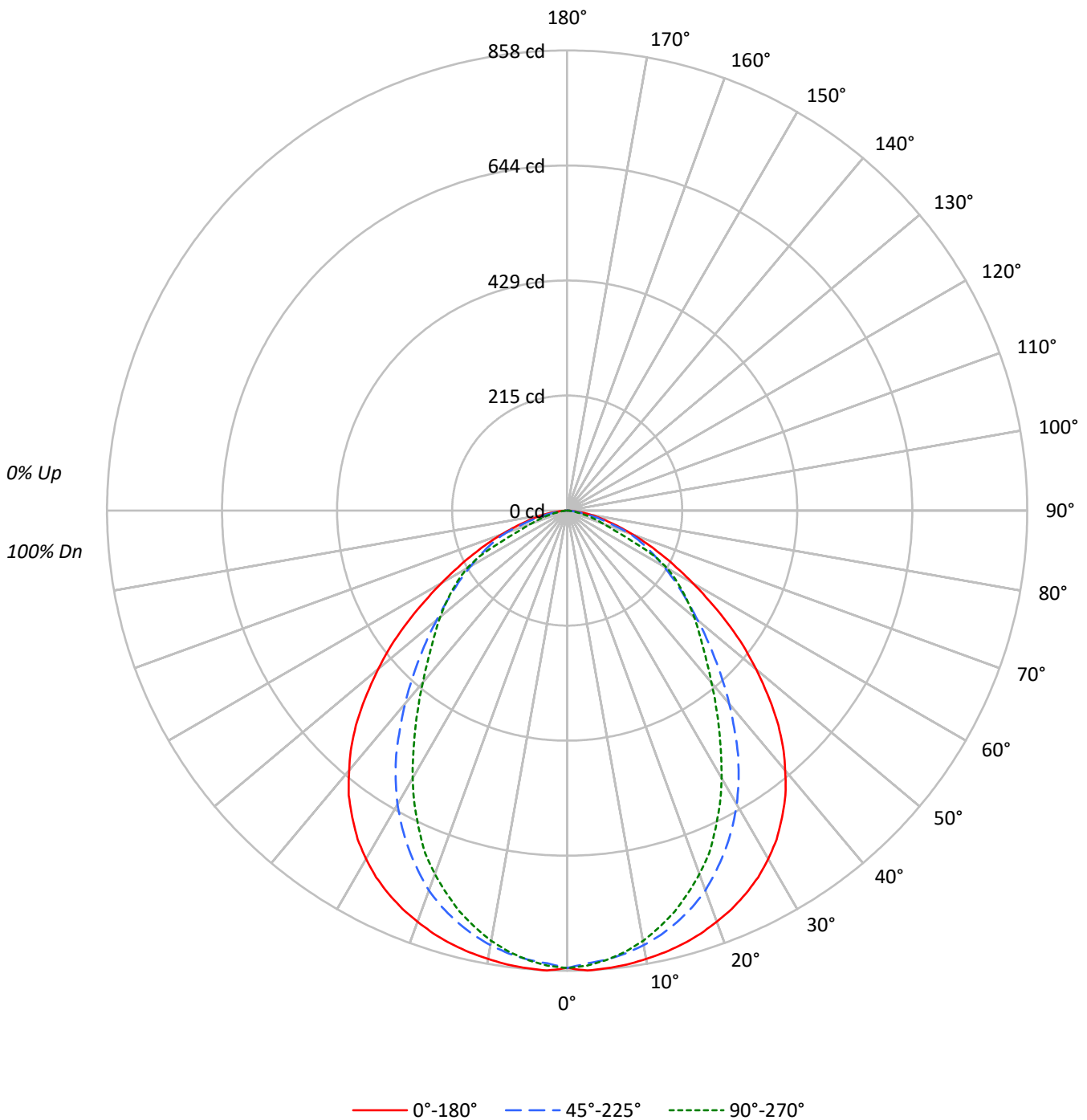
Lumens per Lamp: N/A
Luminaire Lumens: 1810.4 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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 | 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 | 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° | 2295 | 2295 | 2295 |
| 5° | 2314 | 2271 | 2272 |
| 10° | 2320 | 2248 | 2226 |
| 15° | 2330 | 2212 | 2157 |
| 20° | 2336 | 2158 | 2065 |
| 25° | 2341 | 2072 | 1942 |
| 30° | 2331 | 1965 | 1790 |
| 35° | 2294 | 1826 | 1620 |
| 40° | 2222 | 1652 | 1470 |
| 45° | 2106 | 1482 | 1360 |
| 50° | 1925 | 1328 | 1296 |
| 55° | 1708 | 1213 | 1233 |
| 60° | 1457 | 1118 | 1164 |
| 65° | 1230 | 1047 | 830 |
| 70° | 1017 | 953 | 563 |
| 75° | 823 | 700 | 441 |
| 80° | 683 | 501 | 271 |
| 85° | 472 | 210 | 182 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.2 | 4.4 |
| 10°-20° | 225.5 | 12.5 |
| 20°-30° | 326.6 | 18.0 |
| 30°-40° | 358.4 | 19.8 |
| 40°-50° | 323.8 | 17.9 |
| 50°-60° | 252.5 | 13.9 |
| 60°-70° | 159.9 | 8.8 |
| 70°-80° | 70.0 | 3.9 |
| 80°-90° | 13.4 | 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° | 632.3 | 34.9 |
| 0°-40° | 990.7 | 54.7 |
| 0°-60° | 1567.1 | 86.6 |
| 0°-90° | 1810.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1810.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 853 | 853 | 853 | 853 | 853 | |
| 5° | 857 | 851 | 841 | 845 | 841 | 82 |
| 15° | 836 | 821 | 794 | 784 | 774 | 236 |
| 25° | 788 | 754 | 698 | 671 | 654 | 363 |
| 35° | 698 | 636 | 556 | 511 | 493 | 436 |
| 45° | 553 | 466 | 389 | 366 | 357 | 424 |
| 55° | 364 | 292 | 259 | 262 | 263 | 325 |
| 65° | 193 | 161 | 164 | 157 | 130 | 194 |
| 75° | 79 | 82 | 67 | 48 | 42 | 87 |
| 85° | 15 | 14 | 7 | 6 | 6 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 852.8 | 852.8 | 852.8 | 852.8 | 852.8 |
| 2.5° | 858.4 | 853.6 | 845.1 | 851.6 | 849.4 |
| 5° | 856.7 | 851.1 | 840.6 | 845.1 | 841.2 |
| 7.5° | 853.6 | 846.8 | 833.0 | 834.4 | 829.6 |
| 10° | 849.1 | 840.0 | 822.8 | 821.1 | 814.6 |
| 12.5° | 843.4 | 831.3 | 810.1 | 804.1 | 795.6 |
| 15° | 836.4 | 820.8 | 793.9 | 784.3 | 774.1 |
| 17.5° | 827.3 | 807.5 | 775.5 | 760.0 | 748.4 |
| 20° | 815.7 | 791.9 | 753.7 | 733.4 | 721.2 |
| 22.5° | 803.5 | 774.1 | 726.6 | 705.4 | 691.8 |
| 25° | 788.3 | 753.7 | 697.7 | 671.4 | 654.2 |
| 27.5° | 771.0 | 730.3 | 666.6 | 634.1 | 616.8 |
| 30° | 750.1 | 702.8 | 632.4 | 593.3 | 576.1 |
| 32.5° | 726.9 | 671.7 | 595.0 | 553.4 | 533.3 |
| 35° | 698.3 | 635.8 | 555.7 | 511.3 | 493.2 |
| 37.5° | 668.9 | 597.0 | 511.6 | 470.2 | 454.7 |
| 40° | 632.6 | 556.0 | 470.2 | 432.3 | 418.5 |
| 42.5° | 595.6 | 510.4 | 428.9 | 397.5 | 386.2 |
| 45° | 553.4 | 465.7 | 389.3 | 366.1 | 357.4 |
| 47.5° | 506.2 | 421.3 | 352.8 | 338.4 | 332.2 |
| 50° | 459.8 | 376.9 | 317.2 | 311.5 | 309.5 |
| 52.5° | 413.7 | 333.3 | 286.3 | 286.9 | 285.8 |
| 55° | 364.1 | 292.0 | 258.6 | 262.3 | 262.8 |
| 57.5° | 314.9 | 252.7 | 232.6 | 239.4 | 239.9 |
| 60° | 270.8 | 219.0 | 207.7 | 215.9 | 216.2 |
| 62.5° | 230.0 | 187.6 | 185.0 | 193.0 | 183.6 |
| 65° | 193.2 | 160.7 | 164.4 | 157.3 | 130.4 |
| 67.5° | 160.4 | 138.4 | 144.3 | 110.1 | 92.5 |
| 70° | 129.3 | 116.6 | 121.1 | 82.1 | 71.6 |
| 72.5° | 102.1 | 98.5 | 91.7 | 63.9 | 55.7 |
| 75° | 79.2 | 81.5 | 67.3 | 48.4 | 42.4 |
| 77.5° | 60.5 | 66.2 | 48.9 | 34.8 | 29.1 |
| 80° | 44.1 | 49.5 | 32.3 | 20.9 | 17.5 |
| 82.5° | 29.1 | 31.1 | 17.0 | 10.8 | 9.3 |
| 85° | 15.3 | 14.4 | 6.8 | 6.2 | 5.9 |
| 87.5° | 6.5 | 3.7 | 3.4 | 2.8 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)