

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: P289643

Luminaire Tested: **4SSRK-TB-30-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TB-30-L835-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.2 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

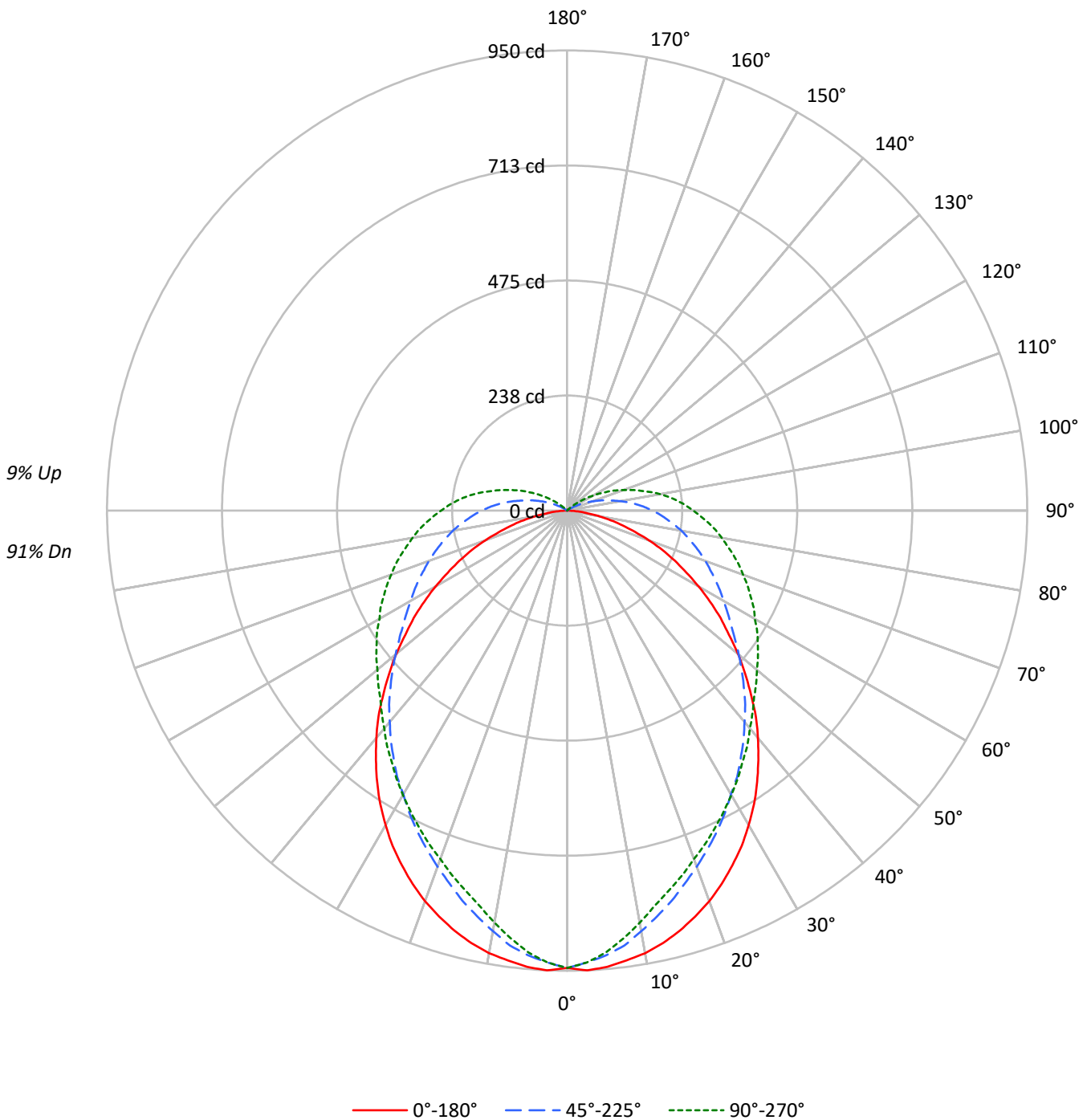
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 91 |
| 1 | 104 | 98 | 93 | 89 | 100 | 95 | 90 | 86 | 89 | 85 | 82 | 84 | 80 | 78 | 78 | 76 | 74 | 71 |
| 2 | 94 | 85 | 77 | 71 | 90 | 82 | 75 | 69 | 77 | 71 | 66 | 72 | 67 | 63 | 68 | 64 | 60 | 58 |
| 3 | 85 | 74 | 65 | 58 | 82 | 72 | 64 | 57 | 67 | 60 | 55 | 63 | 58 | 53 | 60 | 55 | 51 | 48 |
| 4 | 78 | 65 | 56 | 49 | 75 | 63 | 55 | 48 | 60 | 52 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 58 | 49 | 42 | 69 | 57 | 48 | 41 | 53 | 46 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 42 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7 | 61 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 26 | 24 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 60979 | 60979 | 60979 |
| 5° | 61080 | 47812 | 43985 |
| 10° | 60401 | 38447 | 33222 |
| 15° | 59385 | 31583 | 26199 |
| 20° | 58081 | 26347 | 21428 |
| 25° | 56438 | 22346 | 17971 |
| 30° | 54573 | 19038 | 15278 |
| 35° | 52399 | 16406 | 13108 |
| 40° | 49902 | 14130 | 11366 |
| 45° | 47067 | 12214 | 9968 |
| 50° | 44117 | 10545 | 8911 |
| 55° | 41085 | 9158 | 8057 |
| 60° | 37792 | 8102 | 7291 |
| 65° | 34411 | 7235 | 6666 |
| 70° | 30481 | 6470 | 6089 |
| 75° | 25676 | 5788 | 5568 |
| 80° | 20126 | 5174 | 5089 |
| 85° | 12699 | 4550 | 4646 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 3.0 |
| 10°-20° | 238.2 | 8.1 |
| 20°-30° | 344.7 | 11.7 |
| 30°-40° | 401.0 | 13.6 |
| 40°-50° | 408.1 | 13.9 |
| 50°-60° | 379.8 | 12.9 |
| 60°-70° | 330.7 | 11.3 |
| 70°-80° | 269.2 | 9.2 |
| 80°-90° | 203.9 | 6.9 |
| 90°-100° | 141.4 | 4.8 |
| 100°-110° | 83.1 | 2.8 |
| 110°-120° | 39.0 | 1.3 |
| 120°-130° | 11.1 | 0.4 |
| 130°-140° | 0.6 | 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° | 670.3 | 22.8 |
| 0°-40° | 1071.3 | 36.5 |
| 0°-60° | 1859.2 | 63.3 |
| 0°-90° | 2663.0 | 90.6 |
| 90°-120° | 263.5 | 9.0 |
| 90°-150° | 275.2 | 9.4 |
| 90°-180° | 275.0 | 9.4 |
| 0°-180° | 2938.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 944 | 944 | 944 | 944 | 944 | |
| 5° | 946 | 938 | 922 | 922 | 916 | 90 |
| 15° | 898 | 874 | 834 | 819 | 812 | 253 |
| 25° | 807 | 772 | 732 | 726 | 723 | 372 |
| 35° | 684 | 648 | 624 | 630 | 632 | 427 |
| 45° | 537 | 516 | 516 | 537 | 546 | 414 |
| 55° | 387 | 385 | 413 | 462 | 480 | 345 |
| 65° | 245 | 266 | 338 | 397 | 418 | 243 |
| 75° | 119 | 174 | 271 | 333 | 355 | 127 |
| 85° | 25 | 108 | 207 | 272 | 293 | 29 |
| 90° | 0 | 79 | 175 | 239 | 260 | 1 |
| 95° | 0 | 51 | 144 | 208 | 229 | 0 |
| 105° | 0 | 12 | 82 | 138 | 158 | 0 |
| 115° | 0 | 0 | 33 | 76 | 92 | 0 |
| 125° | 0 | 0 | 2 | 25 | 37 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 2 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-30-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 944.2 | 944.2 | 944.2 | 944.2 | 944.2 |
| 2.5° | 950.1 | 945.6 | 933.7 | 938.2 | 933.7 |
| 5° | 945.6 | 938.2 | 921.9 | 921.9 | 915.9 |
| 7.5° | 936.7 | 927.8 | 905.5 | 898.1 | 890.6 |
| 10° | 927.8 | 914.4 | 881.7 | 872.8 | 863.9 |
| 12.5° | 914.4 | 895.1 | 857.9 | 844.5 | 835.6 |
| 15° | 898.1 | 874.3 | 834.1 | 819.3 | 811.8 |
| 17.5° | 878.7 | 852.0 | 807.4 | 795.5 | 789.5 |
| 20° | 857.9 | 826.7 | 782.1 | 771.7 | 765.7 |
| 22.5° | 834.1 | 798.4 | 756.8 | 749.4 | 744.9 |
| 25° | 807.4 | 771.7 | 731.5 | 725.6 | 722.6 |
| 27.5° | 780.6 | 741.9 | 704.8 | 701.8 | 700.3 |
| 30° | 749.4 | 712.2 | 676.5 | 678.0 | 678.0 |
| 32.5° | 718.2 | 681.0 | 652.7 | 655.7 | 655.7 |
| 35° | 684.0 | 648.3 | 624.5 | 630.4 | 631.9 |
| 37.5° | 648.3 | 617.0 | 597.7 | 606.6 | 611.1 |
| 40° | 612.6 | 584.3 | 569.5 | 582.8 | 587.3 |
| 42.5° | 576.9 | 550.1 | 544.2 | 560.5 | 566.5 |
| 45° | 536.8 | 515.9 | 515.9 | 536.8 | 545.7 |
| 47.5° | 498.1 | 484.7 | 489.2 | 515.9 | 529.3 |
| 50° | 460.9 | 450.5 | 462.4 | 496.6 | 511.5 |
| 52.5° | 420.8 | 417.8 | 437.1 | 478.8 | 496.6 |
| 55° | 386.6 | 385.1 | 413.3 | 462.4 | 480.3 |
| 57.5° | 349.4 | 353.9 | 392.5 | 446.1 | 465.4 |
| 60° | 313.7 | 322.6 | 373.2 | 429.7 | 447.5 |
| 62.5° | 278.0 | 295.9 | 355.4 | 413.3 | 434.2 |
| 65° | 245.3 | 266.1 | 337.5 | 397.0 | 417.8 |
| 67.5° | 212.6 | 239.4 | 319.7 | 382.1 | 402.9 |
| 70° | 179.9 | 215.6 | 303.3 | 365.8 | 386.6 |
| 72.5° | 147.2 | 194.8 | 287.0 | 349.4 | 371.7 |
| 75° | 118.9 | 174.0 | 270.6 | 333.1 | 355.4 |
| 77.5° | 92.2 | 157.6 | 254.3 | 319.7 | 339.0 |
| 80° | 66.9 | 139.8 | 239.4 | 303.3 | 324.1 |
| 82.5° | 43.1 | 124.9 | 223.0 | 287.0 | 309.3 |
| 85° | 25.3 | 108.5 | 206.7 | 272.1 | 292.9 |
| 87.5° | 10.4 | 92.2 | 191.8 | 255.7 | 276.6 |
| 90° | 0.0 | 78.8 | 175.4 | 239.4 | 260.2 |
| 92.5° | 0.0 | 65.4 | 160.6 | 224.5 | 245.3 |
| 95° | 0.0 | 50.6 | 144.2 | 208.2 | 229.0 |
| 97.5° | 0.0 | 38.7 | 127.9 | 191.8 | 212.6 |
| 100° | 0.0 | 29.7 | 111.5 | 172.5 | 194.8 |
| 102.5° | 0.0 | 20.8 | 95.2 | 154.6 | 176.9 |
| 105° | 0.0 | 11.9 | 81.8 | 138.3 | 157.6 |
| 107.5° | 0.0 | 5.9 | 68.4 | 121.9 | 141.3 |
| 110° | 0.0 | 1.5 | 55.0 | 105.6 | 123.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 0.0 | 43.1 | 90.7 | 108.5 |
| 115° | 0.0 | 0.0 | 32.7 | 75.8 | 92.2 |
| 117.5° | 0.0 | 0.0 | 22.3 | 62.4 | 77.3 |
| 120° | 0.0 | 0.0 | 13.4 | 49.1 | 62.4 |
| 122.5° | 0.0 | 0.0 | 5.9 | 37.2 | 49.1 |
| 125° | 0.0 | 0.0 | 1.5 | 25.3 | 37.2 |
| 127.5° | 0.0 | 0.0 | 0.0 | 14.9 | 25.3 |
| 130° | 0.0 | 0.0 | 0.0 | 7.4 | 14.9 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.5 | 5.9 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)