

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: **8SSRK-TB-40-L950-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: 8SSRK-TB-40-L950-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.3 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

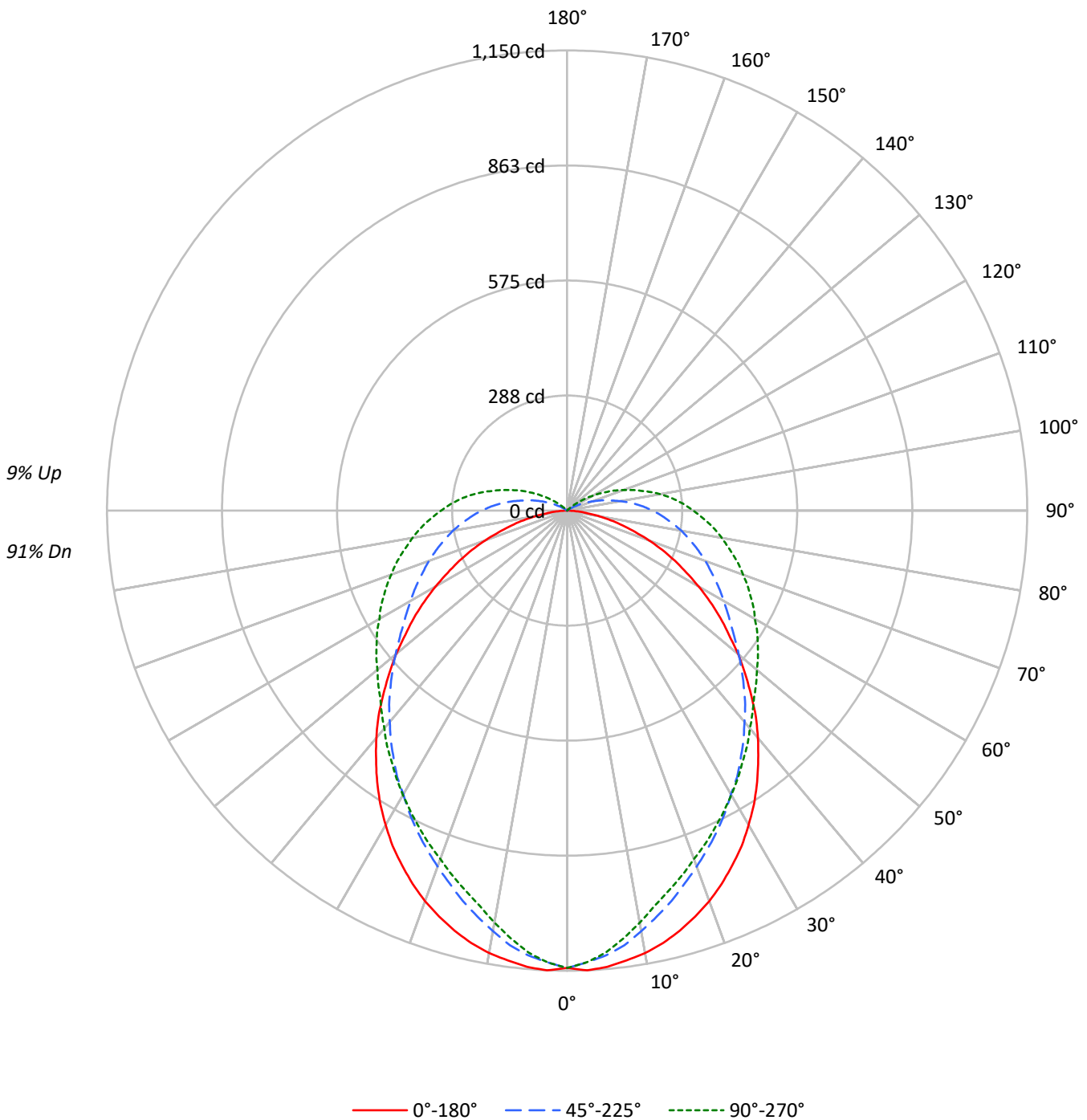
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8SSRK-TB-40-L950-CD1-U

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° | 36903 | 36903 | 36903 |
| 5° | 37035 | 28964 | 26620 |
| 10° | 36688 | 23308 | 20105 |
| 15° | 36137 | 19157 | 15855 |
| 20° | 35415 | 15986 | 12968 |
| 25° | 34482 | 13564 | 10876 |
| 30° | 33417 | 11558 | 9246 |
| 35° | 32163 | 9963 | 7933 |
| 40° | 30720 | 8582 | 6879 |
| 45° | 29064 | 7421 | 6033 |
| 50° | 27348 | 6407 | 5393 |
| 55° | 25581 | 5566 | 4875 |
| 60° | 23668 | 4924 | 4413 |
| 65° | 21715 | 4398 | 4034 |
| 70° | 19450 | 3933 | 3684 |
| 75° | 16670 | 3519 | 3369 |
| 80° | 13471 | 3146 | 3080 |
| 85° | 9157 | 2767 | 2811 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.8 | 3.0 |
| 10°-20° | 288.4 | 8.1 |
| 20°-30° | 417.2 | 11.7 |
| 30°-40° | 485.3 | 13.6 |
| 40°-50° | 494.0 | 13.9 |
| 50°-60° | 459.7 | 12.9 |
| 60°-70° | 400.2 | 11.3 |
| 70°-80° | 325.8 | 9.2 |
| 80°-90° | 246.8 | 6.9 |
| 90°-100° | 171.2 | 4.8 |
| 100°-110° | 100.6 | 2.8 |
| 110°-120° | 47.2 | 1.3 |
| 120°-130° | 13.4 | 0.4 |
| 130°-140° | 0.7 | 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° | 811.4 | 22.8 |
| 0°-40° | 1296.7 | 36.5 |
| 0°-60° | 2250.3 | 63.3 |
| 0°-90° | 3223.2 | 90.6 |
| 90°-120° | 319.0 | 9.0 |
| 90°-150° | 333.1 | 9.4 |
| 90°-180° | 333.0 | 9.4 |
| 0°-180° | 3556.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1143 | 1143 | 1143 | 1143 | 1143 | |
| 5° | 1145 | 1136 | 1116 | 1116 | 1109 | 108 |
| 15° | 1087 | 1058 | 1010 | 992 | 983 | 306 |
| 25° | 977 | 934 | 885 | 878 | 875 | 450 |
| 35° | 828 | 785 | 756 | 763 | 765 | 517 |
| 45° | 650 | 624 | 624 | 650 | 660 | 502 |
| 55° | 468 | 466 | 500 | 560 | 581 | 418 |
| 65° | 297 | 322 | 408 | 480 | 506 | 294 |
| 75° | 144 | 211 | 328 | 403 | 430 | 154 |
| 85° | 31 | 131 | 250 | 329 | 354 | 35 |
| 90° | 0 | 95 | 212 | 290 | 315 | 2 |
| 95° | 0 | 61 | 175 | 252 | 277 | 0 |
| 105° | 0 | 14 | 99 | 167 | 191 | 0 |
| 115° | 0 | 0 | 40 | 92 | 112 | 0 |
| 125° | 0 | 0 | 2 | 31 | 45 | 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: 8SSRK-TB-40-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1142.8 | 1142.8 | 1142.8 | 1142.8 | 1142.8 |
| 2.5° | 1150.0 | 1144.6 | 1130.2 | 1135.6 | 1130.2 |
| 5° | 1144.6 | 1135.6 | 1115.8 | 1115.8 | 1108.6 |
| 7.5° | 1133.8 | 1123.0 | 1096.0 | 1087.0 | 1078.0 |
| 10° | 1123.0 | 1106.8 | 1067.2 | 1056.4 | 1045.6 |
| 12.5° | 1106.8 | 1083.4 | 1038.4 | 1022.2 | 1011.4 |
| 15° | 1087.0 | 1058.2 | 1009.6 | 991.6 | 982.6 |
| 17.5° | 1063.6 | 1031.2 | 977.2 | 962.8 | 955.6 |
| 20° | 1038.4 | 1000.6 | 946.6 | 934.0 | 926.8 |
| 22.5° | 1009.6 | 966.4 | 916.0 | 907.0 | 901.6 |
| 25° | 977.2 | 934.0 | 885.4 | 878.2 | 874.6 |
| 27.5° | 944.8 | 898.0 | 853.0 | 849.4 | 847.6 |
| 30° | 907.0 | 862.0 | 818.8 | 820.6 | 820.6 |
| 32.5° | 869.2 | 824.2 | 790.0 | 793.6 | 793.6 |
| 35° | 827.8 | 784.6 | 755.9 | 763.1 | 764.9 |
| 37.5° | 784.6 | 746.9 | 723.5 | 734.3 | 739.7 |
| 40° | 741.5 | 707.3 | 689.3 | 705.5 | 710.9 |
| 42.5° | 698.3 | 665.9 | 658.7 | 678.5 | 685.7 |
| 45° | 649.7 | 624.5 | 624.5 | 649.7 | 660.5 |
| 47.5° | 602.9 | 586.7 | 592.1 | 624.5 | 640.7 |
| 50° | 557.9 | 545.3 | 559.7 | 601.1 | 619.1 |
| 52.5° | 509.3 | 505.7 | 529.1 | 579.5 | 601.1 |
| 55° | 467.9 | 466.1 | 500.3 | 559.7 | 581.3 |
| 57.5° | 422.9 | 428.3 | 475.1 | 539.9 | 563.3 |
| 60° | 379.7 | 390.5 | 451.7 | 520.1 | 541.7 |
| 62.5° | 336.5 | 358.1 | 430.1 | 500.3 | 525.5 |
| 65° | 296.9 | 322.1 | 408.5 | 480.5 | 505.7 |
| 67.5° | 257.4 | 289.7 | 386.9 | 462.5 | 487.7 |
| 70° | 217.8 | 260.9 | 367.1 | 442.7 | 467.9 |
| 72.5° | 178.2 | 235.8 | 347.3 | 422.9 | 449.9 |
| 75° | 144.0 | 210.6 | 327.5 | 403.1 | 430.1 |
| 77.5° | 111.6 | 190.8 | 307.7 | 386.9 | 410.3 |
| 80° | 81.0 | 169.2 | 289.7 | 367.1 | 392.3 |
| 82.5° | 52.2 | 151.2 | 269.9 | 347.3 | 374.3 |
| 85° | 30.6 | 131.4 | 250.2 | 329.3 | 354.5 |
| 87.5° | 12.6 | 111.6 | 232.2 | 309.5 | 334.7 |
| 90° | 0.0 | 95.4 | 212.4 | 289.7 | 314.9 |
| 92.5° | 0.0 | 79.2 | 194.4 | 271.7 | 296.9 |
| 95° | 0.0 | 61.2 | 174.6 | 252.0 | 277.1 |
| 97.5° | 0.0 | 46.8 | 154.8 | 232.2 | 257.4 |
| 100° | 0.0 | 36.0 | 135.0 | 208.8 | 235.8 |
| 102.5° | 0.0 | 25.2 | 115.2 | 187.2 | 214.2 |
| 105° | 0.0 | 14.4 | 99.0 | 167.4 | 190.8 |
| 107.5° | 0.0 | 7.2 | 82.8 | 147.6 | 171.0 |
| 110° | 0.0 | 1.8 | 66.6 | 127.8 | 149.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 0.0 | 52.2 | 109.8 | 131.4 |
| 115° | 0.0 | 0.0 | 39.6 | 91.8 | 111.6 |
| 117.5° | 0.0 | 0.0 | 27.0 | 75.6 | 93.6 |
| 120° | 0.0 | 0.0 | 16.2 | 59.4 | 75.6 |
| 122.5° | 0.0 | 0.0 | 7.2 | 45.0 | 59.4 |
| 125° | 0.0 | 0.0 | 1.8 | 30.6 | 45.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 18.0 | 30.6 |
| 130° | 0.0 | 0.0 | 0.0 | 9.0 | 18.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.8 | 7.2 |
| 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° | 1.8 | 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)