

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: P289762

Luminaire Tested: **4SSRK-TS-60-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TS-60-L840-CD1-U
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5737.1 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

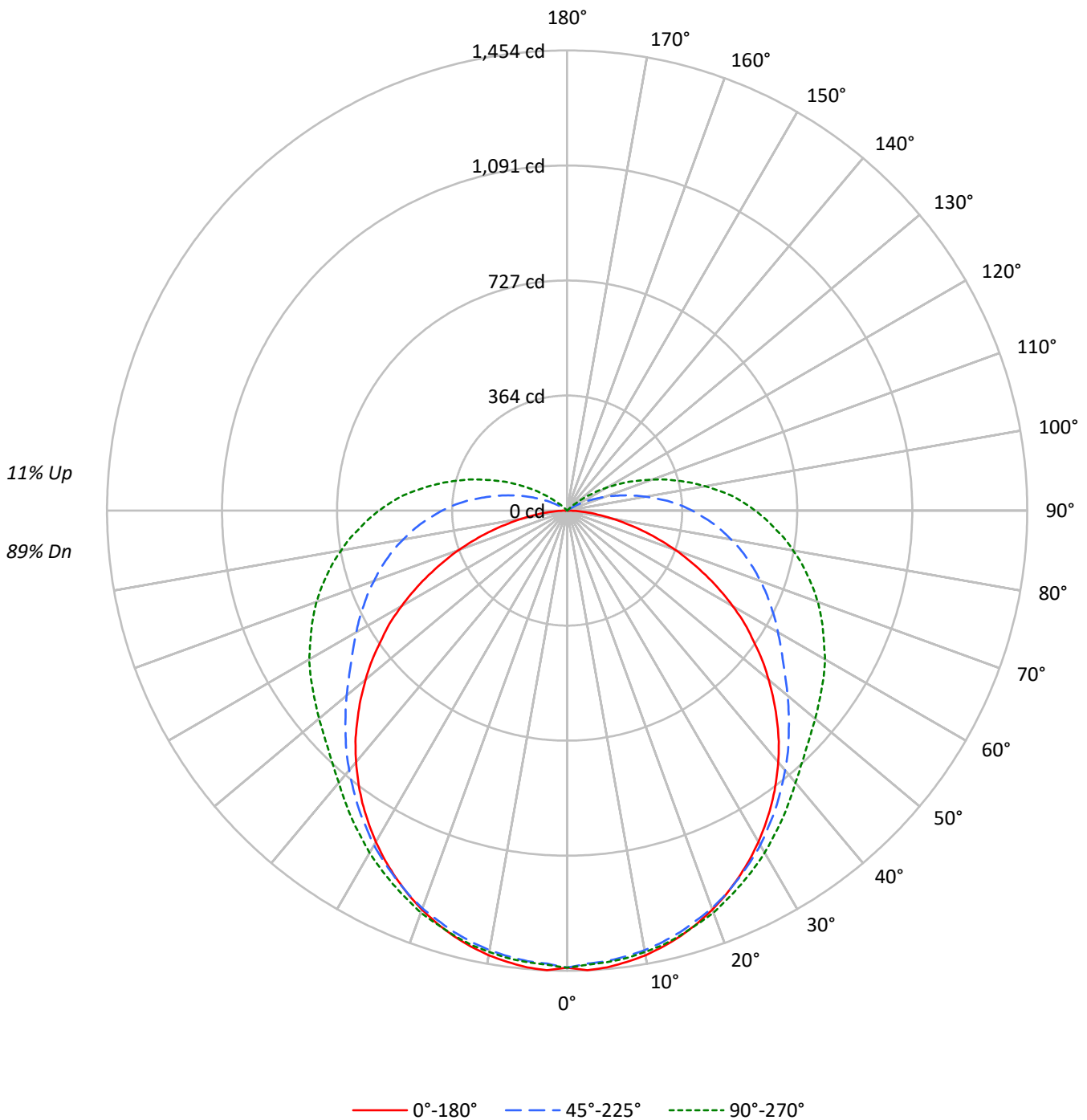
Input Watts (W): 44.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 4SSRK-TS-60-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289762

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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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | | |
| 1 | 103 | 97 | 91 | 87 | 99 | 94 | 89 | 84 | 87 | 83 | 79 | 81 | 78 | 75 | 76 | 73 | 71 | 68 | | | | |
| 2 | 93 | 83 | 75 | 68 | 89 | 80 | 73 | 67 | 75 | 68 | 63 | 70 | 65 | 60 | 65 | 61 | 57 | 54 | | | | |
| 3 | 84 | 72 | 63 | 56 | 80 | 69 | 61 | 54 | 65 | 58 | 52 | 61 | 55 | 50 | 57 | 52 | 47 | 45 | | | | |
| 4 | 76 | 63 | 54 | 46 | 73 | 61 | 52 | 45 | 57 | 50 | 44 | 53 | 47 | 42 | 50 | 45 | 40 | 37 | | | | |
| 5 | 70 | 56 | 47 | 39 | 67 | 54 | 45 | 39 | 51 | 43 | 37 | 48 | 41 | 36 | 45 | 39 | 34 | 32 | | | | |
| 6 | 65 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 46 | 38 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 28 | | | | |
| 7 | 60 | 46 | 36 | 30 | 57 | 44 | 36 | 29 | 42 | 34 | 28 | 39 | 33 | 28 | 37 | 31 | 27 | 24 | | | | |
| 8 | 56 | 41 | 33 | 27 | 53 | 40 | 32 | 26 | 38 | 31 | 25 | 36 | 29 | 25 | 34 | 28 | 24 | 22 | | | | |
| 9 | 52 | 38 | 29 | 24 | 50 | 37 | 29 | 23 | 35 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 21 | 19 | | | | |
| 10 | 49 | 35 | 27 | 21 | 47 | 34 | 26 | 21 | 32 | 25 | 21 | 31 | 24 | 20 | 29 | 23 | 19 | 17 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 93264 | 93264 | 93264 |
| 5° | 93571 | 74117 | 68808 |
| 10° | 92886 | 61501 | 54465 |
| 15° | 91970 | 52212 | 44813 |
| 20° | 90814 | 45063 | 37833 |
| 25° | 89474 | 39173 | 32394 |
| 30° | 88035 | 34358 | 28136 |
| 35° | 86412 | 30185 | 24626 |
| 40° | 84506 | 26575 | 21727 |
| 45° | 82218 | 23443 | 19496 |
| 50° | 79582 | 20736 | 17825 |
| 55° | 76410 | 18456 | 16470 |
| 60° | 72813 | 16698 | 15326 |
| 65° | 67770 | 15205 | 14233 |
| 70° | 61809 | 13853 | 13270 |
| 75° | 53534 | 12609 | 12309 |
| 80° | 43049 | 11379 | 11384 |
| 85° | 29314 | 10171 | 10466 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.6 | 2.4 |
| 10°-20° | 391.4 | 6.8 |
| 20°-30° | 594.4 | 10.4 |
| 30°-40° | 722.5 | 12.6 |
| 40°-50° | 771.1 | 13.4 |
| 50°-60° | 756.2 | 13.2 |
| 60°-70° | 690.9 | 12.0 |
| 70°-80° | 586.4 | 10.2 |
| 80°-90° | 456.3 | 8.0 |
| 90°-100° | 321.7 | 5.6 |
| 100°-110° | 191.3 | 3.3 |
| 110°-120° | 90.5 | 1.6 |
| 120°-130° | 26.2 | 0.5 |
| 130°-140° | 1.5 | 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° | 1122.4 | 19.6 |
| 0°-40° | 1845.0 | 32.2 |
| 0°-60° | 3372.3 | 58.8 |
| 0°-90° | 5105.9 | 89.0 |
| 90°-120° | 603.5 | 10.5 |
| 90°-150° | 631.2 | 11.0 |
| 90°-180° | 631.0 | 11.0 |
| 0°-180° | 5737.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1444 | 1444 | 1444 | 1444 | 1444 | |
| 5° | 1449 | 1443 | 1429 | 1437 | 1433 | 138 |
| 15° | 1391 | 1388 | 1379 | 1391 | 1389 | 392 |
| 25° | 1280 | 1281 | 1282 | 1302 | 1302 | 590 |
| 35° | 1128 | 1134 | 1149 | 1177 | 1187 | 705 |
| 45° | 938 | 954 | 990 | 1043 | 1067 | 723 |
| 55° | 719 | 750 | 833 | 942 | 982 | 644 |
| 65° | 483 | 545 | 709 | 845 | 892 | 479 |
| 75° | 248 | 376 | 590 | 736 | 786 | 263 |
| 85° | 58 | 240 | 462 | 609 | 660 | 65 |
| 90° | 4 | 178 | 395 | 543 | 594 | 6 |
| 95° | 4 | 119 | 326 | 470 | 525 | 4 |
| 105° | 4 | 32 | 186 | 315 | 363 | 4 |
| 115° | 3 | 3 | 76 | 173 | 214 | 3 |
| 125° | 2 | 2 | 4 | 58 | 85 | 2 |
| 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° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P289762

CATALOG NUMBER: 4SSRK-TS-60-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1444.1 | 1444.1 | 1444.1 | 1444.1 | 1444.1 |
| 2.5° | 1453.8 | 1448.6 | 1432.8 | 1441.1 | 1436.6 |
| 5° | 1448.6 | 1443.3 | 1429.1 | 1437.3 | 1432.8 |
| 7.5° | 1438.8 | 1435.1 | 1420.8 | 1429.8 | 1426.8 |
| 10° | 1426.8 | 1423.1 | 1410.4 | 1420.8 | 1416.3 |
| 12.5° | 1410.4 | 1406.6 | 1396.1 | 1406.6 | 1405.1 |
| 15° | 1390.9 | 1387.9 | 1378.9 | 1390.9 | 1388.6 |
| 17.5° | 1367.7 | 1365.4 | 1357.9 | 1372.9 | 1369.9 |
| 20° | 1341.4 | 1340.0 | 1337.7 | 1351.2 | 1351.9 |
| 22.5° | 1313.0 | 1313.0 | 1311.5 | 1326.5 | 1327.2 |
| 25° | 1280.0 | 1280.8 | 1282.3 | 1302.5 | 1302.5 |
| 27.5° | 1246.3 | 1248.6 | 1252.3 | 1271.8 | 1276.3 |
| 30° | 1208.9 | 1212.6 | 1220.9 | 1241.8 | 1248.6 |
| 32.5° | 1169.2 | 1175.2 | 1184.2 | 1210.4 | 1217.1 |
| 35° | 1128.0 | 1134.0 | 1149.0 | 1177.4 | 1187.2 |
| 37.5° | 1083.8 | 1090.5 | 1110.0 | 1142.2 | 1154.9 |
| 40° | 1037.4 | 1044.8 | 1071.1 | 1111.5 | 1122.7 |
| 42.5° | 990.2 | 1000.7 | 1032.9 | 1076.3 | 1093.5 |
| 45° | 937.7 | 953.5 | 990.2 | 1042.6 | 1067.3 |
| 47.5° | 885.3 | 904.0 | 949.7 | 1014.1 | 1044.1 |
| 50° | 831.4 | 852.4 | 909.3 | 988.7 | 1023.1 |
| 52.5° | 777.5 | 800.7 | 869.6 | 964.7 | 1002.2 |
| 55° | 719.0 | 749.7 | 832.9 | 941.5 | 981.9 |
| 57.5° | 665.1 | 698.1 | 799.9 | 918.3 | 962.5 |
| 60° | 604.4 | 646.4 | 769.2 | 894.3 | 940.7 |
| 62.5° | 544.5 | 594.7 | 740.0 | 869.6 | 915.3 |
| 65° | 483.1 | 545.3 | 709.3 | 844.9 | 892.1 |
| 67.5° | 422.4 | 495.1 | 680.8 | 819.4 | 868.1 |
| 70° | 364.8 | 451.6 | 649.4 | 793.2 | 842.6 |
| 72.5° | 304.1 | 413.4 | 620.2 | 765.5 | 814.9 |
| 75° | 247.9 | 376.0 | 589.5 | 735.5 | 785.7 |
| 77.5° | 191.0 | 340.8 | 559.5 | 705.6 | 757.2 |
| 80° | 143.1 | 307.8 | 526.5 | 674.1 | 725.0 |
| 82.5° | 97.4 | 274.9 | 494.3 | 641.9 | 695.1 |
| 85° | 58.4 | 239.7 | 462.1 | 608.9 | 659.9 |
| 87.5° | 26.2 | 209.0 | 426.9 | 575.2 | 628.4 |
| 90° | 4.5 | 177.5 | 394.7 | 543.0 | 594.0 |
| 92.5° | 5.2 | 149.0 | 361.8 | 508.6 | 559.5 |
| 95° | 4.5 | 119.1 | 325.8 | 470.4 | 525.0 |
| 97.5° | 4.5 | 93.6 | 287.6 | 432.9 | 483.1 |
| 100° | 3.7 | 69.7 | 250.9 | 393.2 | 442.7 |
| 102.5° | 3.7 | 49.4 | 218.0 | 354.3 | 403.7 |
| 105° | 3.7 | 32.2 | 185.8 | 315.3 | 363.3 |
| 107.5° | 3.7 | 18.0 | 154.3 | 277.9 | 326.6 |
| 110° | 3.7 | 6.7 | 125.8 | 244.2 | 284.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 3.0 | 3.0 | 98.1 | 206.7 | 248.7 |
| 115° | 3.0 | 3.0 | 75.6 | 173.0 | 214.2 |
| 117.5° | 3.0 | 2.2 | 51.7 | 141.6 | 179.0 |
| 120° | 3.0 | 2.2 | 32.2 | 113.1 | 145.3 |
| 122.5° | 2.2 | 1.5 | 15.7 | 83.9 | 116.1 |
| 125° | 2.2 | 1.5 | 3.7 | 57.7 | 84.6 |
| 127.5° | 2.2 | 0.7 | 0.0 | 34.5 | 58.4 |
| 130° | 1.5 | 0.7 | 0.0 | 16.5 | 34.5 |
| 132.5° | 1.5 | 0.7 | 0.0 | 3.0 | 15.0 |
| 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° | 0.0 | 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)