

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: P289658

Luminaire Tested: **4SSRK-30-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-30-L840-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3380.4 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

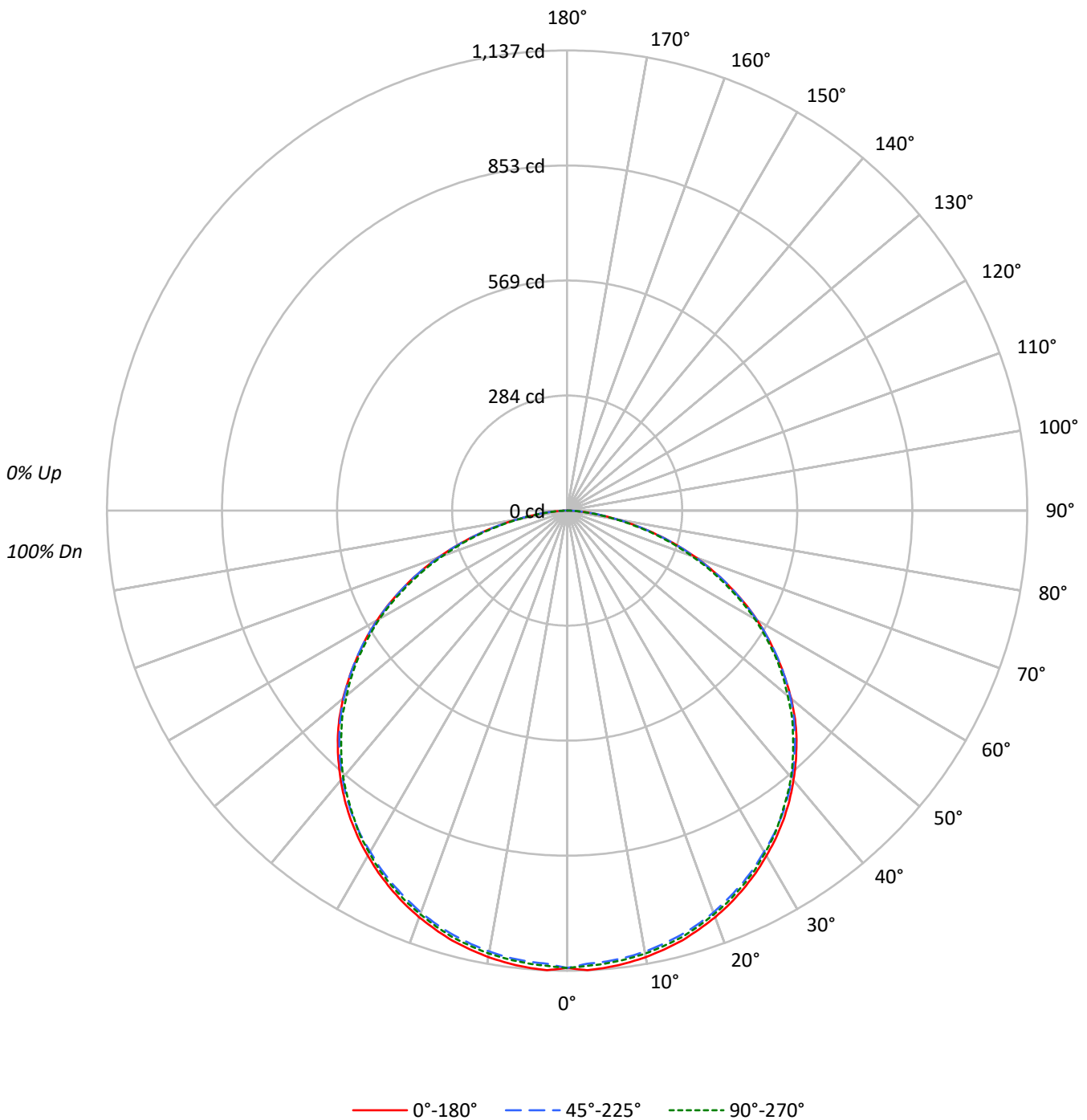
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 72985 | 72985 | 72985 |
| 5° | 73192 | 57993 | 53935 |
| 10° | 72939 | 48241 | 42744 |
| 15° | 72709 | 41118 | 35235 |
| 20° | 72386 | 35594 | 29703 |
| 25° | 72061 | 31129 | 25465 |
| 30° | 71723 | 27390 | 22018 |
| 35° | 71405 | 24253 | 19111 |
| 40° | 70878 | 21429 | 16664 |
| 45° | 70294 | 18847 | 14420 |
| 50° | 69196 | 16426 | 12389 |
| 55° | 67398 | 14068 | 10531 |
| 60° | 65344 | 11775 | 8721 |
| 65° | 62075 | 9492 | 6888 |
| 70° | 57471 | 7172 | 5144 |
| 75° | 49668 | 4903 | 3481 |
| 80° | 38115 | 2738 | 1878 |
| 85° | 22738 | 990 | 619 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.1 | 3.2 |
| 10°-20° | 308.6 | 9.1 |
| 20°-30° | 472.9 | 14.0 |
| 30°-40° | 579.7 | 17.1 |
| 40°-50° | 614.1 | 18.2 |
| 50°-60° | 566.2 | 16.8 |
| 60°-70° | 435.1 | 12.9 |
| 70°-80° | 241.2 | 7.1 |
| 80°-90° | 55.5 | 1.6 |
| 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° | 888.6 | 26.3 |
| 0°-40° | 1468.2 | 43.4 |
| 0°-60° | 2648.6 | 78.4 |
| 0°-90° | 3380.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3380.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1130 | 1130 | 1130 | 1130 | 1130 | |
| 5° | 1133 | 1128 | 1118 | 1129 | 1123 | 108 |
| 15° | 1100 | 1094 | 1086 | 1096 | 1092 | 310 |
| 25° | 1031 | 1027 | 1019 | 1029 | 1024 | 475 |
| 35° | 932 | 928 | 923 | 926 | 921 | 583 |
| 45° | 802 | 799 | 796 | 795 | 789 | 618 |
| 55° | 634 | 639 | 635 | 632 | 628 | 567 |
| 65° | 442 | 444 | 443 | 437 | 432 | 437 |
| 75° | 230 | 230 | 229 | 226 | 222 | 243 |
| 85° | 45 | 46 | 45 | 43 | 39 | 56 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P289658

CATALOG NUMBER: 4SSRK-30-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1130.1 | 1130.1 | 1130.1 | 1130.1 | 1130.1 |
| 2.5° | 1136.8 | 1131.2 | 1120.8 | 1131.2 | 1126.0 |
| 5° | 1133.1 | 1128.3 | 1118.2 | 1129.0 | 1123.1 |
| 7.5° | 1127.9 | 1123.8 | 1113.8 | 1124.2 | 1118.2 |
| 10° | 1120.4 | 1116.0 | 1106.3 | 1117.5 | 1111.5 |
| 12.5° | 1110.4 | 1106.3 | 1097.0 | 1107.4 | 1102.2 |
| 15° | 1099.6 | 1094.4 | 1085.9 | 1095.6 | 1091.8 |
| 17.5° | 1084.8 | 1080.7 | 1072.2 | 1081.4 | 1077.4 |
| 20° | 1069.2 | 1065.1 | 1056.6 | 1065.8 | 1061.4 |
| 22.5° | 1051.4 | 1047.3 | 1038.3 | 1048.4 | 1043.9 |
| 25° | 1030.9 | 1027.2 | 1019.0 | 1029.4 | 1023.9 |
| 27.5° | 1009.4 | 1006.4 | 997.5 | 1006.0 | 1002.7 |
| 30° | 984.9 | 983.0 | 973.3 | 980.0 | 977.1 |
| 32.5° | 960.0 | 956.6 | 949.9 | 955.1 | 952.2 |
| 35° | 932.1 | 927.6 | 923.2 | 926.5 | 921.3 |
| 37.5° | 902.4 | 899.4 | 894.6 | 897.5 | 891.6 |
| 40° | 870.1 | 867.5 | 863.7 | 864.5 | 861.1 |
| 42.5° | 836.6 | 833.7 | 830.7 | 829.2 | 825.5 |
| 45° | 801.7 | 799.1 | 796.1 | 795.0 | 789.4 |
| 47.5° | 763.8 | 762.0 | 760.1 | 757.5 | 753.4 |
| 50° | 722.9 | 723.7 | 720.3 | 718.1 | 711.1 |
| 52.5° | 679.1 | 683.6 | 678.7 | 675.4 | 671.3 |
| 55° | 634.2 | 639.0 | 634.9 | 632.3 | 627.8 |
| 57.5° | 589.6 | 591.8 | 589.2 | 587.3 | 581.4 |
| 60° | 542.4 | 544.3 | 542.4 | 538.3 | 535.3 |
| 62.5° | 493.7 | 496.0 | 492.2 | 489.3 | 485.2 |
| 65° | 442.5 | 443.6 | 442.8 | 436.9 | 431.7 |
| 67.5° | 390.8 | 392.7 | 390.4 | 386.4 | 381.2 |
| 70° | 339.2 | 338.1 | 336.2 | 333.2 | 326.6 |
| 72.5° | 284.6 | 284.6 | 284.2 | 278.6 | 275.3 |
| 75° | 230.0 | 230.3 | 229.2 | 225.5 | 222.2 |
| 77.5° | 175.3 | 179.4 | 176.5 | 172.7 | 169.0 |
| 80° | 126.7 | 129.3 | 126.7 | 121.9 | 119.6 |
| 82.5° | 81.0 | 84.7 | 82.5 | 77.6 | 76.9 |
| 85° | 45.3 | 46.1 | 45.0 | 42.7 | 39.0 |
| 87.5° | 17.1 | 17.8 | 18.2 | 14.9 | 13.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)