

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: P314699

Luminaire Tested: **22FPSL2SCT3-3500K-HI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-285-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FPSL2SCT3-3500K-HI
Description: 2X2 CCT AND LUMEN SELECTABLE FLAT PANEL LUMINAIRE

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3268.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

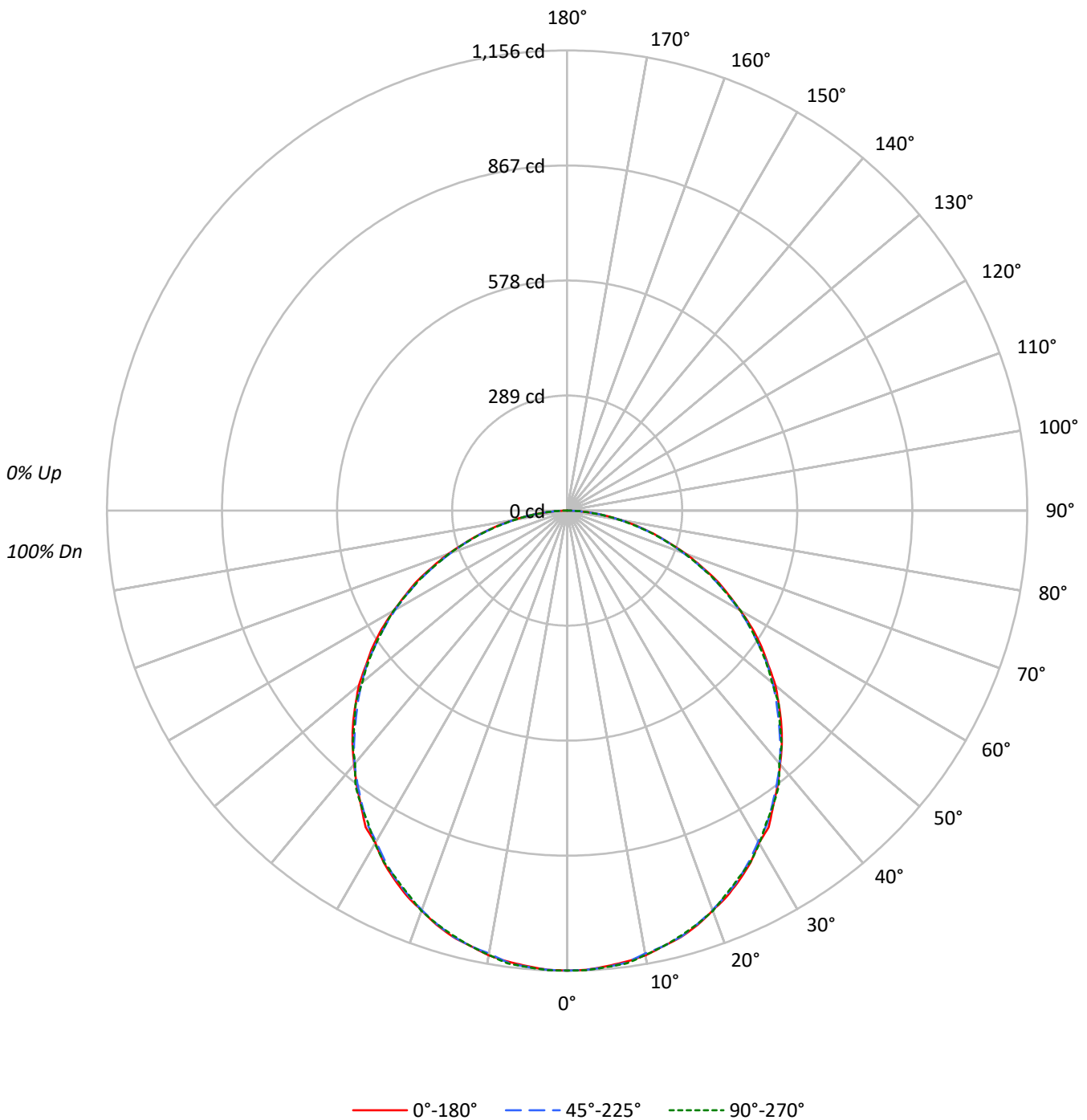
Input Watts (W): 30.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 99 | 96 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 82 | 70 | 61 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 73 | 62 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 |
| 10 | 53 | 39 | 32 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3110 | 3110 | 3110 |
| 5° | 3103 | 3109 | 3109 |
| 10° | 3100 | 3087 | 3097 |
| 15° | 3089 | 3086 | 3079 |
| 20° | 3061 | 3058 | 3064 |
| 25° | 3042 | 3031 | 3024 |
| 30° | 2994 | 2983 | 3001 |
| 35° | 2965 | 2954 | 2965 |
| 40° | 2924 | 2920 | 2912 |
| 45° | 2896 | 2861 | 2874 |
| 50° | 2858 | 2823 | 2813 |
| 55° | 2796 | 2757 | 2757 |
| 60° | 2703 | 2685 | 2709 |
| 65° | 2632 | 2579 | 2594 |
| 70° | 2496 | 2441 | 2469 |
| 75° | 2337 | 2301 | 2301 |
| 80° | 2104 | 2104 | 2069 |
| 85° | 1772 | 1806 | 1772 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.2 | 3.3 |
| 10°-20° | 311.9 | 9.5 |
| 20°-30° | 470.0 | 14.4 |
| 30°-40° | 563.6 | 17.2 |
| 40°-50° | 583.2 | 17.8 |
| 50°-60° | 527.1 | 16.1 |
| 60°-70° | 402.4 | 12.3 |
| 70°-80° | 234.2 | 7.2 |
| 80°-90° | 66.7 | 2.0 |
| 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° | 891.1 | 27.3 |
| 0°-40° | 1454.7 | 44.5 |
| 0°-60° | 2565.1 | 78.5 |
| 0°-90° | 3268.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3268.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1156 | 1156 | 1156 | 1156 | 1156 | |
| 5° | 1149 | 1147 | 1151 | 1149 | 1151 | 109 |
| 15° | 1109 | 1106 | 1108 | 1108 | 1105 | 312 |
| 25° | 1024 | 1021 | 1021 | 1019 | 1019 | 472 |
| 35° | 903 | 903 | 899 | 899 | 903 | 566 |
| 45° | 761 | 756 | 752 | 755 | 755 | 587 |
| 55° | 596 | 591 | 588 | 588 | 588 | 532 |
| 65° | 413 | 409 | 405 | 405 | 407 | 406 |
| 75° | 225 | 222 | 221 | 219 | 221 | 237 |
| 85° | 57 | 58 | 58 | 56 | 57 | 68 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1155.6 | 1155.6 | 1155.6 | 1155.6 | 1155.6 |
| 2.5° | 1154.4 | 1155.6 | 1154.4 | 1153.2 | 1155.6 |
| 5° | 1148.6 | 1147.4 | 1150.9 | 1148.6 | 1150.9 |
| 7.5° | 1142.7 | 1138.0 | 1145.0 | 1147.4 | 1147.4 |
| 10° | 1134.5 | 1132.2 | 1129.8 | 1132.2 | 1133.3 |
| 12.5° | 1120.5 | 1121.6 | 1120.5 | 1122.8 | 1120.5 |
| 15° | 1108.7 | 1106.4 | 1107.6 | 1107.6 | 1105.2 |
| 17.5° | 1091.2 | 1084.2 | 1088.8 | 1085.3 | 1088.8 |
| 20° | 1068.9 | 1066.6 | 1067.8 | 1064.3 | 1070.1 |
| 22.5° | 1049.0 | 1044.4 | 1045.5 | 1043.2 | 1043.2 |
| 25° | 1024.4 | 1020.9 | 1020.9 | 1018.6 | 1018.6 |
| 27.5° | 997.5 | 996.3 | 991.7 | 989.3 | 996.3 |
| 30° | 963.6 | 964.7 | 960.1 | 960.1 | 965.9 |
| 32.5° | 942.5 | 934.3 | 934.3 | 930.8 | 930.8 |
| 35° | 902.7 | 902.7 | 899.2 | 899.2 | 902.7 |
| 37.5° | 868.7 | 866.4 | 865.2 | 866.4 | 873.4 |
| 40° | 832.4 | 833.6 | 831.3 | 828.9 | 828.9 |
| 42.5° | 798.5 | 796.1 | 792.6 | 791.5 | 797.3 |
| 45° | 761.0 | 756.3 | 751.7 | 755.2 | 755.2 |
| 47.5° | 721.2 | 718.9 | 713.0 | 714.2 | 721.2 |
| 50° | 682.6 | 682.6 | 674.4 | 674.4 | 672.0 |
| 52.5° | 636.9 | 633.4 | 633.4 | 631.1 | 631.1 |
| 55° | 595.9 | 591.3 | 587.7 | 587.7 | 587.7 |
| 57.5° | 551.4 | 549.1 | 543.2 | 543.2 | 544.4 |
| 60° | 502.3 | 499.9 | 498.8 | 497.6 | 503.4 |
| 62.5° | 456.6 | 454.3 | 451.9 | 453.1 | 451.9 |
| 65° | 413.3 | 408.6 | 405.1 | 405.1 | 407.4 |
| 67.5° | 362.9 | 362.9 | 358.3 | 357.1 | 357.1 |
| 70° | 317.3 | 314.9 | 310.3 | 310.3 | 313.8 |
| 72.5° | 266.9 | 268.1 | 265.8 | 265.8 | 264.6 |
| 75° | 224.8 | 222.5 | 221.3 | 218.9 | 221.3 |
| 77.5° | 180.3 | 178.0 | 176.8 | 174.4 | 174.4 |
| 80° | 135.8 | 135.8 | 135.8 | 133.5 | 133.5 |
| 82.5° | 98.3 | 96.0 | 96.0 | 94.8 | 93.7 |
| 85° | 57.4 | 58.5 | 58.5 | 56.2 | 57.4 |
| 87.5° | 24.6 | 24.6 | 23.4 | 24.6 | 24.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)