

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: P#

Luminaire Tested: **4SNLED-LD5-52SL-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52SL-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

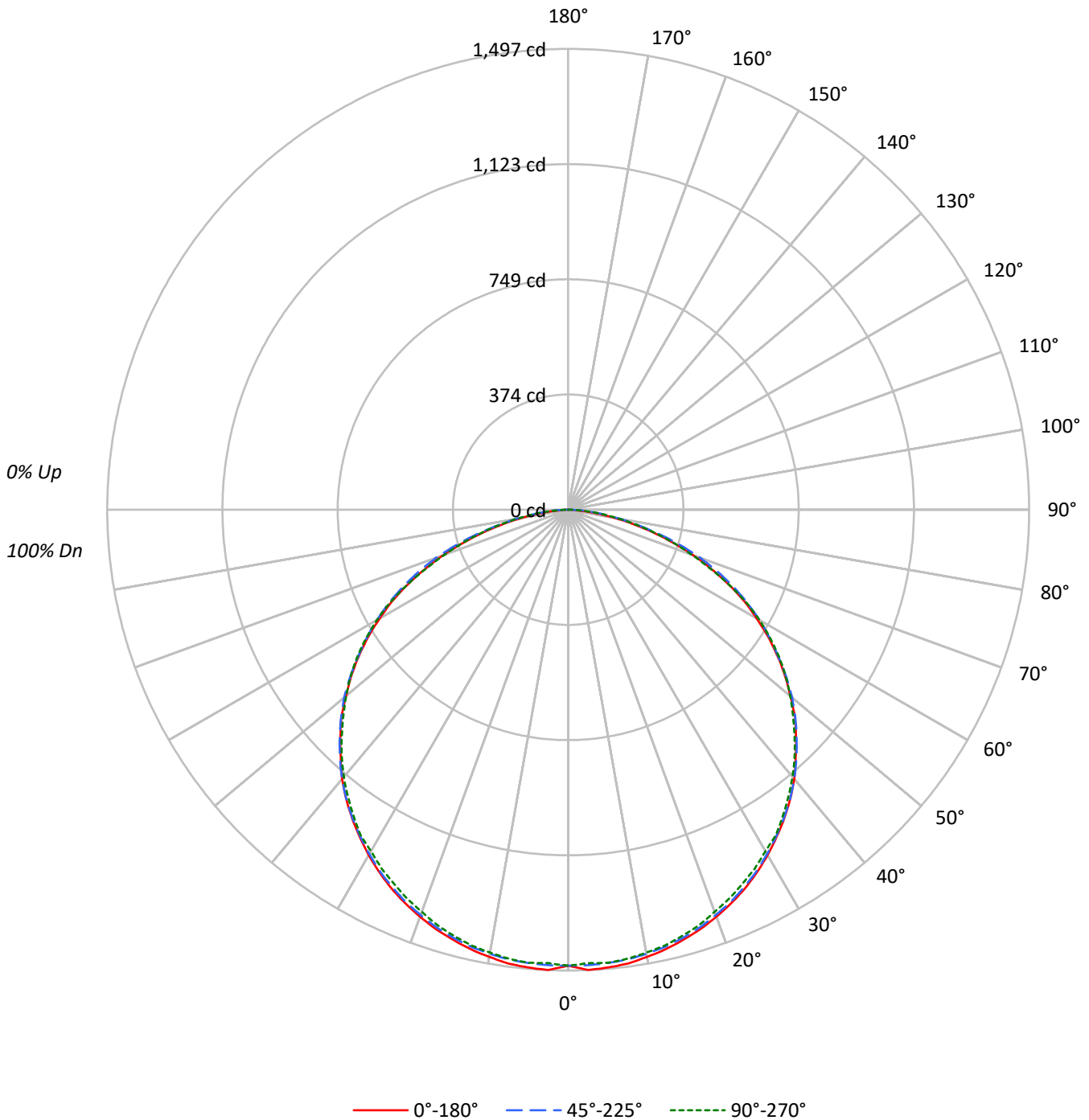
Lumens per Lamp: N/A
Luminaire Lumens: 4443.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 38
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



TEST NUMBER: P#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

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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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 109 | 104 | 99 | 96 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 | | | | | 83 | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11969 | 11969 | 11969 |
| 5° | 12077 | 11696 | 11603 |
| 10° | 12039 | 11440 | 11245 |
| 15° | 11999 | 11183 | 10893 |
| 20° | 11964 | 10908 | 10517 |
| 25° | 11931 | 10633 | 10167 |
| 30° | 11874 | 10338 | 9822 |
| 35° | 11814 | 10031 | 9491 |
| 40° | 11743 | 9703 | 9094 |
| 45° | 11595 | 9314 | 8638 |
| 50° | 11417 | 8890 | 8176 |
| 55° | 11200 | 8323 | 7677 |
| 60° | 10838 | 7746 | 7025 |
| 65° | 10310 | 6996 | 6110 |
| 70° | 9396 | 6013 | 4954 |
| 75° | 7980 | 4588 | 3808 |
| 80° | 5961 | 3021 | 2497 |
| 85° | 3081 | 1471 | 1115 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.6 | 3.2 |
| 10°-20° | 405.4 | 9.1 |
| 20°-30° | 620.6 | 14.0 |
| 30°-40° | 760.3 | 17.1 |
| 40°-50° | 804.2 | 18.1 |
| 50°-60° | 742.3 | 16.7 |
| 60°-70° | 572.9 | 12.9 |
| 70°-80° | 318.0 | 7.2 |
| 80°-90° | 78.8 | 1.8 |
| 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° | 1166.5 | 26.3 |
| 0°-40° | 1926.8 | 43.4 |
| 0°-60° | 3473.3 | 78.2 |
| 0°-90° | 4443.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4443.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1481 | 1481 | 1481 | 1481 | 1481 | |
| 5° | 1493 | 1474 | 1478 | 1474 | 1477 | 142 |
| 15° | 1446 | 1429 | 1440 | 1434 | 1433 | 409 |
| 25° | 1358 | 1341 | 1352 | 1341 | 1340 | 626 |
| 35° | 1224 | 1210 | 1222 | 1208 | 1215 | 766 |
| 45° | 1046 | 1037 | 1049 | 1038 | 1040 | 807 |
| 55° | 830 | 824 | 833 | 833 | 837 | 741 |
| 65° | 575 | 569 | 592 | 588 | 577 | 567 |
| 75° | 285 | 302 | 305 | 304 | 293 | 303 |
| 85° | 45 | 66 | 68 | 69 | 64 | 61 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52SL-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1481.1 | 1481.1 | 1481.1 | 1481.1 | 1481.1 |
| 2.5° | 1496.6 | 1477.4 | 1481.1 | 1478.9 | 1474.4 |
| 5° | 1492.9 | 1473.7 | 1478.1 | 1474.4 | 1477.4 |
| 7.5° | 1487.0 | 1466.3 | 1473.7 | 1468.5 | 1471.5 |
| 10° | 1475.2 | 1457.4 | 1464.8 | 1458.9 | 1461.1 |
| 12.5° | 1462.6 | 1444.1 | 1454.5 | 1447.1 | 1450.0 |
| 15° | 1446.3 | 1429.3 | 1439.7 | 1434.5 | 1433.0 |
| 17.5° | 1428.6 | 1412.3 | 1422.7 | 1416.8 | 1414.5 |
| 20° | 1407.1 | 1391.6 | 1401.2 | 1392.4 | 1390.1 |
| 22.5° | 1383.5 | 1368.0 | 1379.0 | 1366.5 | 1367.2 |
| 25° | 1357.6 | 1341.3 | 1352.4 | 1340.6 | 1339.9 |
| 27.5° | 1328.0 | 1312.5 | 1324.3 | 1311.8 | 1313.2 |
| 30° | 1295.5 | 1280.0 | 1291.8 | 1279.2 | 1280.7 |
| 32.5° | 1260.0 | 1247.4 | 1257.8 | 1245.9 | 1254.1 |
| 35° | 1223.8 | 1210.5 | 1221.5 | 1208.2 | 1214.9 |
| 37.5° | 1184.6 | 1172.0 | 1183.8 | 1169.0 | 1175.0 |
| 40° | 1142.4 | 1131.3 | 1141.7 | 1128.4 | 1133.6 |
| 42.5° | 1093.6 | 1087.0 | 1097.3 | 1084.0 | 1088.4 |
| 45° | 1046.3 | 1036.7 | 1049.3 | 1038.2 | 1039.6 |
| 47.5° | 999.0 | 988.6 | 1000.5 | 990.8 | 990.1 |
| 50° | 942.0 | 938.3 | 949.4 | 942.0 | 941.3 |
| 52.5° | 888.1 | 880.7 | 892.5 | 888.8 | 891.0 |
| 55° | 830.4 | 823.7 | 833.3 | 832.6 | 837.0 |
| 57.5° | 770.5 | 763.8 | 776.4 | 774.9 | 778.6 |
| 60° | 706.9 | 701.7 | 718.0 | 714.3 | 717.3 |
| 62.5° | 644.8 | 635.2 | 655.9 | 652.9 | 651.4 |
| 65° | 575.3 | 569.4 | 591.5 | 587.8 | 576.8 |
| 67.5° | 503.6 | 501.3 | 524.3 | 516.9 | 498.4 |
| 70° | 431.8 | 433.3 | 455.5 | 441.4 | 425.9 |
| 72.5° | 356.4 | 367.5 | 380.8 | 370.5 | 359.4 |
| 75° | 285.4 | 302.4 | 304.6 | 303.9 | 292.8 |
| 77.5° | 215.9 | 237.4 | 232.2 | 237.4 | 228.5 |
| 80° | 150.8 | 174.5 | 170.8 | 175.2 | 167.9 |
| 82.5° | 93.2 | 114.6 | 115.4 | 118.3 | 111.7 |
| 85° | 45.1 | 66.5 | 68.0 | 68.8 | 63.6 |
| 87.5° | 9.6 | 31.1 | 31.8 | 29.6 | 25.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)