

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: FAIL-SAFE

Report Number: P837862

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-30-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08  
Report Number: P837862  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-2HI-30-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

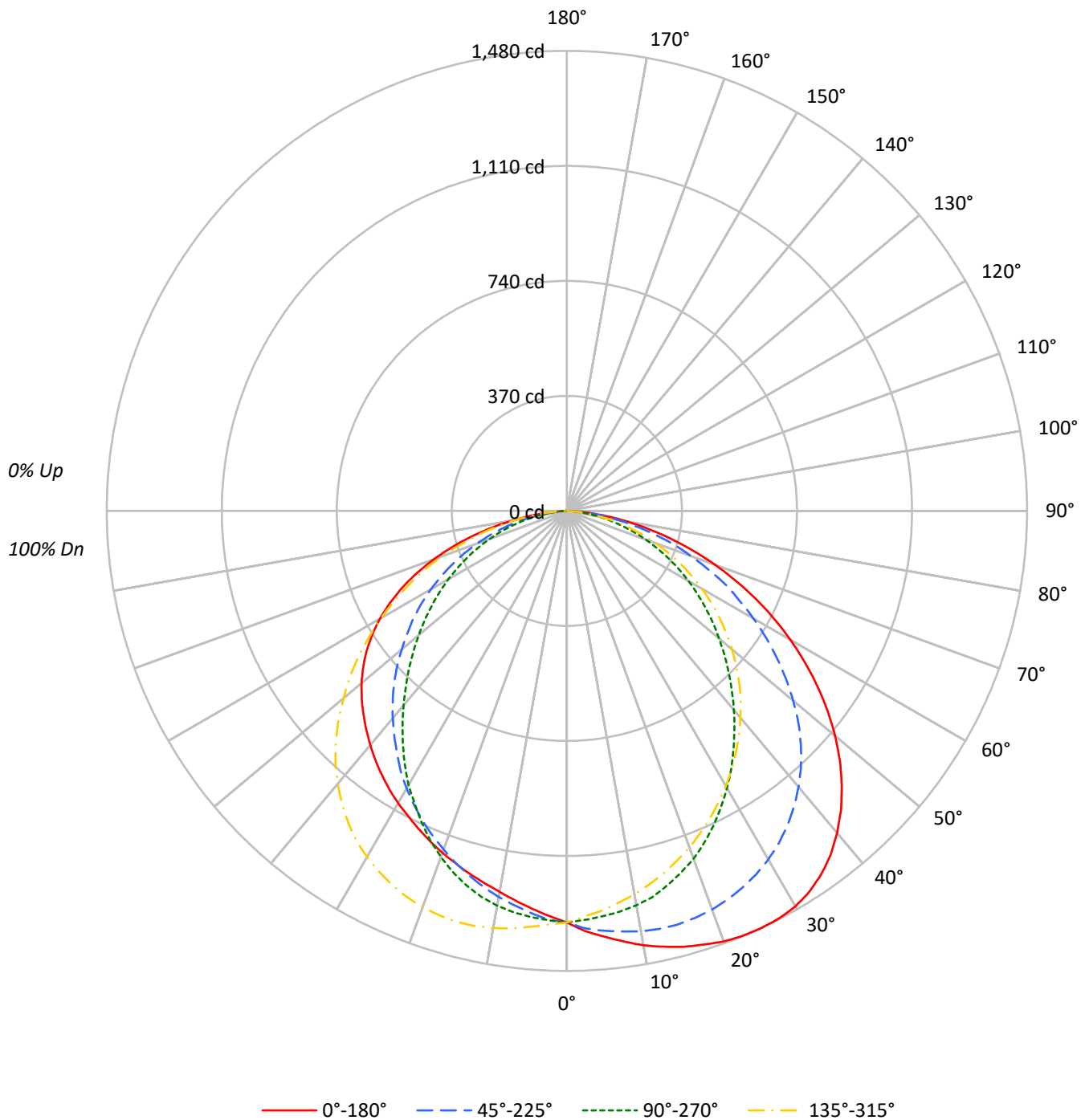
Lumens per Lamp: N/A  
Luminaire Lumens: 3884.2 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): 120  
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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 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  | 29  |    |    |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° | 270° |
|-----|------|------|------|------|
| 0°  | 3563 | 3563 | 3563 | 3563 |
| 5°  | 3713 | 3537 | 3470 | 3543 |
| 10° | 3878 | 3519 | 3400 | 3524 |
| 15° | 4045 | 3474 | 3366 | 3475 |
| 20° | 4221 | 3411 | 3352 | 3391 |
| 25° | 4396 | 3316 | 3351 | 3282 |
| 30° | 4566 | 3200 | 3374 | 3165 |
| 35° | 4687 | 3069 | 3408 | 3020 |
| 40° | 4749 | 2937 | 3455 | 2870 |
| 45° | 4759 | 2803 | 3522 | 2732 |
| 50° | 4714 | 2675 | 3608 | 2604 |
| 55° | 4616 | 2556 | 3689 | 2485 |
| 60° | 4471 | 2432 | 3738 | 2369 |
| 65° | 4271 | 2289 | 3719 | 2236 |
| 70° | 3990 | 2121 | 3586 | 2083 |
| 75° | 3590 | 1891 | 3291 | 1882 |
| 80° | 3044 | 1584 | 2766 | 1609 |
| 85° | 2118 | 1050 | 1754 | 1078 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-30-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.7  | 3.2       |
| 10°-20°   | 364.0  | 9.4       |
| 20°-30°   | 557.8  | 14.4      |
| 30°-40°   | 678.3  | 17.5      |
| 40°-50°   | 705.1  | 18.2      |
| 50°-60°   | 636.9  | 16.4      |
| 60°-70°   | 484.2  | 12.5      |
| 70°-80°   | 270.0  | 7.0       |
| 80°-90°   | 62.2   | 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°    | 1047.5 | 27.0      |
| 0°-40°    | 1725.8 | 44.4      |
| 0°-60°    | 3067.9 | 79.0      |
| 0°-90°    | 3884.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3884.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1324 | 1324 | 1324 | 1324 | 1324 |      |
| 5°  | 1375 | 1309 | 1285 | 1312 | 1375 | 133  |
| 15° | 1452 | 1247 | 1208 | 1247 | 1452 | 412  |
| 25° | 1480 | 1117 | 1129 | 1105 | 1480 | 684  |
| 35° | 1427 | 934  | 1037 | 919  | 1427 | 891  |
| 45° | 1250 | 736  | 926  | 718  | 1250 | 963  |
| 55° | 984  | 545  | 786  | 530  | 984  | 878  |
| 65° | 671  | 360  | 584  | 351  | 671  | 663  |
| 75° | 345  | 182  | 316  | 181  | 345  | 367  |
| 85° | 69   | 34   | 57   | 35   | 69   | 86   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 |
| 2.5°  | 1353.3 | 1333.5 | 1333.8 | 1351.1 | 1337.8 | 1344.3 | 1325.8 | 1332.9 | 1330.7 | 1332.3 | 1317.1 |
| 5°    | 1374.6 | 1353.3 | 1352.9 | 1367.8 | 1352.9 | 1355.7 | 1332.3 | 1336.9 | 1330.1 | 1325.8 | 1309.4 |
| 7.5°  | 1397.1 | 1375.8 | 1373.6 | 1386.6 | 1367.2 | 1365.0 | 1339.1 | 1339.1 | 1326.7 | 1315.9 | 1300.4 |
| 10°   | 1419.3 | 1397.4 | 1394.6 | 1404.5 | 1380.4 | 1373.3 | 1341.8 | 1336.9 | 1320.5 | 1304.5 | 1287.8 |
| 12.5° | 1436.0 | 1413.8 | 1411.6 | 1417.8 | 1390.6 | 1377.7 | 1341.8 | 1332.3 | 1308.2 | 1285.6 | 1272.7 |
| 15°   | 1451.8 | 1428.9 | 1423.1 | 1426.1 | 1394.9 | 1377.7 | 1337.5 | 1322.7 | 1291.8 | 1262.2 | 1247.0 |
| 17.5° | 1462.9 | 1441.0 | 1435.1 | 1434.8 | 1397.1 | 1372.4 | 1328.2 | 1307.9 | 1270.8 | 1235.0 | 1219.8 |
| 20°   | 1474.0 | 1452.1 | 1444.7 | 1439.1 | 1396.5 | 1365.3 | 1314.7 | 1287.2 | 1243.9 | 1203.8 | 1191.1 |
| 22.5° | 1479.6 | 1457.0 | 1449.0 | 1440.7 | 1392.5 | 1352.3 | 1298.0 | 1263.1 | 1213.7 | 1165.8 | 1155.3 |
| 25°   | 1480.5 | 1457.3 | 1448.7 | 1436.6 | 1384.4 | 1336.9 | 1276.4 | 1234.1 | 1178.8 | 1125.7 | 1116.7 |
| 27.5° | 1478.0 | 1452.7 | 1444.1 | 1429.5 | 1372.4 | 1318.1 | 1250.7 | 1201.0 | 1141.7 | 1083.0 | 1073.5 |
| 30°   | 1469.4 | 1443.7 | 1435.4 | 1416.6 | 1355.4 | 1294.9 | 1222.6 | 1164.3 | 1100.6 | 1038.3 | 1029.9 |
| 32.5° | 1452.1 | 1427.1 | 1420.3 | 1401.4 | 1336.9 | 1268.0 | 1189.9 | 1124.7 | 1055.2 | 995.6  | 983.3  |
| 35°   | 1426.8 | 1401.7 | 1397.4 | 1377.7 | 1310.9 | 1235.9 | 1154.1 | 1081.5 | 1007.1 | 946.2  | 934.2  |
| 37.5° | 1393.7 | 1372.7 | 1366.2 | 1346.8 | 1280.4 | 1199.5 | 1113.0 | 1034.6 | 958.0  | 892.5  | 885.1  |
| 40°   | 1352.0 | 1332.3 | 1327.3 | 1310.0 | 1244.9 | 1159.0 | 1068.5 | 986.1  | 907.3  | 846.5  | 836.0  |
| 42.5° | 1304.5 | 1285.9 | 1283.2 | 1265.2 | 1201.0 | 1114.2 | 1020.3 | 935.7  | 854.5  | 795.8  | 785.3  |
| 45°   | 1250.4 | 1232.5 | 1231.9 | 1214.9 | 1153.1 | 1064.5 | 969.7  | 884.8  | 802.9  | 742.1  | 736.5  |
| 47.5° | 1190.8 | 1174.8 | 1174.8 | 1159.0 | 1099.7 | 1009.8 | 917.5  | 831.7  | 751.1  | 697.3  | 687.4  |
| 50°   | 1126.0 | 1110.8 | 1106.2 | 1098.5 | 1040.7 | 950.2  | 862.5  | 779.8  | 699.8  | 648.5  | 639.0  |
| 52.5° | 1056.8 | 1043.8 | 1046.9 | 1032.7 | 976.8  | 888.2  | 807.0  | 721.4  | 648.2  | 601.6  | 592.0  |
| 55°   | 983.9  | 965.4  | 968.2  | 962.9  | 910.1  | 824.2  | 744.6  | 673.2  | 597.6  | 553.7  | 544.8  |
| 57.5° | 908.2  | 884.2  | 894.0  | 891.0  | 839.1  | 758.8  | 687.4  | 618.6  | 547.2  | 506.8  | 498.1  |
| 60°   | 830.7  | 807.6  | 817.8  | 815.0  | 766.2  | 693.3  | 628.5  | 564.5  | 497.2  | 460.5  | 451.8  |
| 62.5° | 751.1  | 729.7  | 739.0  | 736.8  | 692.1  | 626.3  | 569.8  | 511.1  | 446.9  | 413.8  | 405.8  |
| 65°   | 670.8  | 650.4  | 658.7  | 657.2  | 615.8  | 565.8  | 509.6  | 455.8  | 396.2  | 367.5  | 359.5  |
| 67.5° | 588.6  | 569.8  | 577.5  | 577.5  | 539.5  | 491.6  | 449.0  | 399.9  | 346.5  | 321.8  | 314.4  |
| 70°   | 507.1  | 489.5  | 496.3  | 495.7  | 463.5  | 424.6  | 387.9  | 344.0  | 296.2  | 275.8  | 269.6  |
| 72.5° | 424.9  | 409.5  | 415.7  | 415.1  | 388.2  | 363.2  | 326.7  | 288.7  | 247.1  | 230.7  | 225.1  |
| 75°   | 345.3  | 330.7  | 336.6  | 336.0  | 314.1  | 290.6  | 266.2  | 234.7  | 198.9  | 187.5  | 181.9  |
| 77.5° | 269.3  | 254.5  | 259.4  | 259.4  | 243.4  | 226.4  | 206.9  | 182.5  | 157.2  | 144.8  | 140.8  |
| 80°   | 196.4  | 189.3  | 186.8  | 187.1  | 176.3  | 165.2  | 155.3  | 131.9  | 113.3  | 105.0  | 102.2  |
| 82.5° | 129.1  | 123.2  | 120.7  | 121.4  | 115.2  | 108.4  | 102.2  | 85.9   | 73.5   | 68.6   | 67.0   |
| 85°   | 68.6   | 64.2   | 62.1   | 63.6   | 62.4   | 58.7   | 55.6   | 44.5   | 36.7   | 34.9   | 34.0   |
| 87.5° | 21.6   | 18.8   | 17.3   | 22.9   | 19.5   | 17.3   | 16.7   | 13.3   | 10.2   | 10.2   | 9.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 |
| 2.5°  | 1322.1 | 1322.1 | 1310.0 | 1307.2 | 1306.0 | 1307.6 | 1295.5 | 1293.3 | 1310.6 | 1304.8 | 1291.5 |
| 5°    | 1311.6 | 1310.9 | 1294.0 | 1290.9 | 1290.9 | 1289.0 | 1275.4 | 1272.3 | 1289.6 | 1284.7 | 1270.2 |
| 7.5°  | 1298.6 | 1296.7 | 1276.7 | 1274.5 | 1271.4 | 1270.2 | 1255.1 | 1252.9 | 1267.7 | 1264.6 | 1251.0 |
| 10°   | 1282.8 | 1281.0 | 1257.2 | 1255.7 | 1252.3 | 1249.8 | 1235.6 | 1234.1 | 1249.2 | 1244.2 | 1233.4 |
| 12.5° | 1262.2 | 1258.8 | 1234.4 | 1232.8 | 1230.0 | 1229.1 | 1215.2 | 1214.6 | 1231.3 | 1226.3 | 1214.9 |
| 15°   | 1235.0 | 1232.2 | 1205.0 | 1205.6 | 1206.0 | 1206.0 | 1194.8 | 1194.2 | 1210.6 | 1208.4 | 1196.1 |
| 17.5° | 1205.0 | 1201.3 | 1175.4 | 1177.2 | 1179.4 | 1181.9 | 1173.2 | 1174.8 | 1192.1 | 1189.3 | 1178.2 |
| 20°   | 1171.1 | 1167.3 | 1142.0 | 1147.3 | 1151.9 | 1156.8 | 1151.3 | 1155.6 | 1171.7 | 1170.4 | 1162.1 |
| 22.5° | 1133.1 | 1129.4 | 1105.9 | 1113.9 | 1121.6 | 1130.9 | 1128.4 | 1133.4 | 1150.4 | 1150.1 | 1142.6 |
| 25°   | 1086.7 | 1087.7 | 1067.0 | 1076.9 | 1089.8 | 1102.8 | 1103.7 | 1111.8 | 1130.6 | 1128.7 | 1122.0 |
| 27.5° | 1043.5 | 1044.7 | 1022.8 | 1039.5 | 1056.8 | 1073.5 | 1077.5 | 1088.6 | 1107.7 | 1106.2 | 1100.3 |
| 30°   | 998.1  | 999.7  | 978.3  | 1001.2 | 1022.2 | 1042.6 | 1051.2 | 1066.4 | 1085.8 | 1085.8 | 1079.6 |
| 32.5° | 950.9  | 953.6  | 931.4  | 962.0  | 986.4  | 1010.2 | 1025.3 | 1041.0 | 1063.3 | 1062.7 | 1057.4 |
| 35°   | 902.4  | 905.5  | 885.1  | 924.0  | 948.4  | 977.4  | 996.3  | 1017.3 | 1037.0 | 1037.3 | 1033.3 |
| 37.5° | 853.0  | 856.7  | 838.1  | 880.8  | 908.6  | 942.8  | 966.9  | 987.9  | 1009.8 | 1011.1 | 1007.4 |
| 40°   | 803.9  | 807.9  | 791.8  | 832.9  | 868.1  | 906.4  | 934.2  | 958.9  | 983.0  | 983.6  | 981.1  |
| 42.5° | 754.8  | 759.1  | 747.0  | 787.2  | 827.0  | 868.1  | 900.8  | 928.9  | 953.6  | 955.2  | 952.4  |
| 45°   | 706.9  | 710.6  | 702.0  | 745.8  | 784.1  | 828.9  | 866.6  | 898.4  | 923.4  | 925.5  | 924.6  |
| 47.5° | 659.3  | 662.7  | 655.0  | 695.2  | 739.3  | 786.9  | 830.4  | 865.6  | 892.2  | 894.7  | 894.0  |
| 50°   | 612.7  | 615.5  | 607.1  | 649.1  | 693.0  | 743.6  | 789.0  | 829.8  | 859.5  | 861.9  | 861.6  |
| 52.5° | 566.4  | 569.2  | 562.1  | 606.2  | 646.1  | 699.5  | 748.9  | 793.1  | 822.4  | 826.1  | 826.7  |
| 55°   | 521.6  | 522.8  | 517.3  | 559.6  | 598.2  | 654.1  | 710.9  | 753.8  | 783.2  | 786.3  | 788.1  |
| 57.5° | 476.8  | 477.1  | 472.5  | 513.0  | 550.0  | 607.1  | 666.7  | 711.8  | 739.6  | 742.7  | 745.5  |
| 60°   | 432.4  | 432.0  | 426.8  | 466.0  | 501.5  | 558.0  | 620.1  | 664.9  | 691.8  | 694.5  | 698.2  |
| 62.5° | 388.2  | 387.3  | 382.6  | 418.8  | 452.1  | 508.0  | 570.4  | 613.6  | 639.3  | 641.1  | 646.1  |
| 65°   | 344.3  | 343.4  | 339.1  | 372.4  | 402.7  | 456.1  | 517.3  | 558.4  | 581.5  | 584.0  | 583.1  |
| 67.5° | 301.1  | 299.2  | 295.9  | 325.8  | 353.3  | 402.7  | 461.4  | 500.6  | 519.7  | 521.9  | 527.8  |
| 70°   | 257.9  | 255.7  | 248.0  | 279.8  | 303.9  | 348.0  | 402.7  | 437.6  | 453.7  | 455.8  | 454.9  |
| 72.5° | 215.2  | 213.1  | 204.7  | 234.1  | 254.5  | 293.1  | 341.9  | 370.9  | 384.8  | 386.6  | 386.6  |
| 75°   | 173.9  | 172.6  | 167.4  | 189.6  | 206.6  | 238.1  | 279.5  | 303.6  | 314.4  | 316.5  | 315.9  |
| 77.5° | 134.0  | 133.1  | 127.9  | 147.0  | 160.3  | 183.7  | 217.1  | 235.9  | 244.0  | 246.4  | 251.7  |
| 80°   | 96.0   | 95.7   | 87.4   | 106.2  | 112.1  | 131.9  | 156.3  | 170.8  | 175.1  | 178.5  | 182.2  |
| 82.5° | 61.5   | 61.8   | 53.4   | 69.5   | 72.0   | 84.6   | 99.7   | 108.7  | 111.8  | 114.6  | 117.4  |
| 85°   | 30.0   | 31.2   | 26.6   | 36.7   | 37.1   | 43.5   | 50.0   | 53.4   | 54.7   | 56.8   | 59.3   |
| 87.5° | 7.7    | 9.0    | 4.9    | 10.5   | 9.3    | 12.0   | 13.9   | 14.8   | 14.5   | 16.1   | 17.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837862

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-30-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 |
| 2.5°  | 1295.8 | 1305.7 | 1300.8 | 1316.8 | 1323.0 | 1313.1 | 1330.4 | 1330.7 | 1318.4 | 1332.9 | 1340.9 |
| 5°    | 1275.7 | 1285.9 | 1282.8 | 1299.5 | 1307.2 | 1298.6 | 1319.6 | 1323.6 | 1311.6 | 1327.9 | 1340.9 |
| 7.5°  | 1255.4 | 1267.4 | 1263.4 | 1280.4 | 1289.6 | 1282.8 | 1305.4 | 1311.9 | 1302.6 | 1320.5 | 1337.8 |
| 10°   | 1237.8 | 1248.0 | 1243.6 | 1261.5 | 1269.6 | 1264.0 | 1286.2 | 1298.3 | 1289.6 | 1311.6 | 1332.3 |
| 12.5° | 1220.5 | 1228.8 | 1223.9 | 1238.7 | 1246.4 | 1239.3 | 1266.5 | 1277.6 | 1271.4 | 1294.3 | 1320.8 |
| 15°   | 1198.2 | 1207.5 | 1200.7 | 1214.0 | 1219.8 | 1213.7 | 1235.9 | 1255.1 | 1247.3 | 1272.3 | 1301.7 |
| 17.5° | 1181.2 | 1186.5 | 1177.2 | 1187.7 | 1191.1 | 1182.8 | 1205.3 | 1224.2 | 1218.6 | 1245.8 | 1279.8 |
| 20°   | 1162.4 | 1166.7 | 1153.8 | 1159.6 | 1159.3 | 1148.8 | 1169.5 | 1188.0 | 1184.3 | 1214.3 | 1252.9 |
| 22.5° | 1141.4 | 1143.6 | 1128.4 | 1129.7 | 1129.1 | 1111.8 | 1130.3 | 1149.1 | 1147.6 | 1177.8 | 1221.1 |
| 25°   | 1119.2 | 1119.5 | 1100.0 | 1099.4 | 1092.6 | 1072.2 | 1088.6 | 1109.9 | 1105.3 | 1138.0 | 1183.4 |
| 27.5° | 1097.2 | 1094.2 | 1070.7 | 1065.1 | 1054.3 | 1029.9 | 1044.4 | 1063.6 | 1060.8 | 1092.9 | 1143.3 |
| 30°   | 1073.8 | 1069.8 | 1041.0 | 1030.8 | 1015.1 | 987.0  | 999.0  | 1017.0 | 1018.5 | 1046.6 | 1099.4 |
| 32.5° | 1051.5 | 1041.3 | 1009.5 | 994.7  | 975.0  | 942.2  | 948.7  | 966.9  | 969.4  | 997.8  | 1052.2 |
| 35°   | 1022.8 | 1016.0 | 976.8  | 951.5  | 932.0  | 896.2  | 903.0  | 915.7  | 919.4  | 947.2  | 1002.4 |
| 37.5° | 995.6  | 984.8  | 943.1  | 912.3  | 887.2  | 849.6  | 851.4  | 864.4  | 868.1  | 896.2  | 950.9  |
| 40°   | 967.5  | 952.1  | 907.3  | 871.2  | 842.5  | 802.9  | 800.8  | 814.4  | 817.1  | 844.6  | 894.0  |
| 42.5° | 937.6  | 919.1  | 868.7  | 829.2  | 796.1  | 756.0  | 751.7  | 763.4  | 766.5  | 793.4  | 841.8  |
| 45°   | 907.3  | 885.1  | 829.2  | 786.0  | 749.8  | 708.7  | 704.4  | 713.4  | 718.0  | 743.3  | 790.0  |
| 47.5° | 875.2  | 849.3  | 788.4  | 740.2  | 702.9  | 661.8  | 656.6  | 665.5  | 669.2  | 694.2  | 738.4  |
| 50°   | 841.5  | 810.0  | 746.4  | 693.3  | 656.2  | 615.8  | 608.1  | 618.6  | 622.0  | 645.4  | 688.7  |
| 52.5° | 804.5  | 769.6  | 701.6  | 646.1  | 609.0  | 570.4  | 561.1  | 571.3  | 575.3  | 598.2  | 638.0  |
| 55°   | 765.3  | 727.6  | 656.6  | 602.5  | 562.4  | 524.7  | 517.0  | 521.0  | 529.6  | 551.2  | 588.3  |
| 57.5° | 721.1  | 683.7  | 609.0  | 554.0  | 515.4  | 479.3  | 472.8  | 476.5  | 484.5  | 505.5  | 538.9  |
| 60°   | 674.2  | 634.6  | 560.5  | 505.5  | 468.2  | 433.9  | 428.0  | 431.4  | 440.1  | 459.2  | 490.1  |
| 62.5° | 627.8  | 583.4  | 510.5  | 455.8  | 421.9  | 390.0  | 388.5  | 387.3  | 395.3  | 413.8  | 441.0  |
| 65°   | 571.6  | 529.0  | 458.3  | 406.4  | 375.5  | 346.8  | 340.6  | 343.4  | 351.1  | 368.1  | 396.5  |
| 67.5° | 511.4  | 472.8  | 404.9  | 357.0  | 329.5  | 303.9  | 298.6  | 299.9  | 307.9  | 322.7  | 347.4  |
| 70°   | 447.5  | 413.5  | 350.2  | 307.3  | 284.1  | 260.0  | 256.6  | 256.9  | 264.7  | 277.6  | 299.2  |
| 72.5° | 380.5  | 349.9  | 294.9  | 258.2  | 239.0  | 221.7  | 218.6  | 214.9  | 222.0  | 233.2  | 251.7  |
| 75°   | 312.2  | 285.4  | 240.0  | 210.0  | 194.9  | 180.4  | 177.6  | 173.9  | 181.0  | 190.5  | 205.1  |
| 77.5° | 243.4  | 221.7  | 186.5  | 163.4  | 151.6  | 140.8  | 138.4  | 134.3  | 141.4  | 148.5  | 160.0  |
| 80°   | 176.0  | 160.3  | 139.3  | 114.9  | 110.9  | 103.8  | 101.3  | 97.0   | 103.8  | 108.4  | 117.0  |
| 82.5° | 113.6  | 103.1  | 91.1   | 74.1   | 73.5   | 68.2   | 67.0   | 62.1   | 68.2   | 71.0   | 77.5   |
| 85°   | 57.4   | 52.5   | 49.4   | 37.7   | 38.9   | 35.5   | 35.2   | 30.0   | 34.9   | 36.1   | 39.8   |
| 87.5° | 16.4   | 17.3   | 15.4   | 9.3    | 11.7   | 11.1   | 11.1   | 8.0    | 11.1   | 11.1   | 12.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837862

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-30-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 | 1323.9 |
| 2.5°  | 1325.2 | 1330.4 | 1331.6 | 1331.3 | 1334.7 | 1353.3 | 1347.1 | 1353.3 |
| 5°    | 1328.2 | 1340.0 | 1343.1 | 1347.4 | 1352.9 | 1373.9 | 1367.2 | 1374.6 |
| 7.5°  | 1330.1 | 1347.7 | 1354.5 | 1362.8 | 1371.8 | 1395.3 | 1389.7 | 1397.1 |
| 10°   | 1330.1 | 1352.9 | 1362.8 | 1376.7 | 1388.8 | 1415.9 | 1410.7 | 1419.3 |
| 12.5° | 1324.5 | 1353.9 | 1367.8 | 1387.2 | 1402.7 | 1432.0 | 1429.8 | 1436.0 |
| 15°   | 1313.1 | 1349.2 | 1368.4 | 1393.4 | 1412.6 | 1445.3 | 1444.4 | 1451.8 |
| 17.5° | 1297.7 | 1341.2 | 1364.4 | 1395.9 | 1420.0 | 1456.7 | 1458.9 | 1462.9 |
| 20°   | 1278.2 | 1326.1 | 1356.3 | 1394.9 | 1425.2 | 1465.7 | 1468.4 | 1474.0 |
| 22.5° | 1252.6 | 1307.9 | 1344.3 | 1390.9 | 1425.8 | 1469.4 | 1474.3 | 1479.6 |
| 25°   | 1222.3 | 1285.9 | 1328.6 | 1383.2 | 1422.7 | 1469.1 | 1475.9 | 1480.5 |
| 27.5° | 1187.7 | 1257.5 | 1308.5 | 1370.9 | 1414.1 | 1464.1 | 1472.5 | 1478.0 |
| 30°   | 1147.6 | 1227.3 | 1285.6 | 1354.8 | 1402.4 | 1454.9 | 1463.8 | 1469.4 |
| 32.5° | 1106.2 | 1193.9 | 1258.5 | 1334.1 | 1385.4 | 1440.0 | 1447.8 | 1452.1 |
| 35°   | 1061.1 | 1153.5 | 1225.7 | 1307.6 | 1363.4 | 1416.3 | 1422.1 | 1426.8 |
| 37.5° | 1012.0 | 1109.6 | 1188.3 | 1277.6 | 1332.6 | 1383.2 | 1388.5 | 1393.7 |
| 40°   | 961.4  | 1063.6 | 1146.3 | 1240.8 | 1295.8 | 1342.8 | 1348.3 | 1352.0 |
| 42.5° | 910.4  | 1012.6 | 1101.6 | 1197.6 | 1252.3 | 1297.4 | 1300.8 | 1304.5 |
| 45°   | 858.8  | 959.8  | 1051.2 | 1149.7 | 1203.8 | 1246.1 | 1247.3 | 1250.4 |
| 47.5° | 806.3  | 905.2  | 996.0  | 1095.1 | 1148.5 | 1187.1 | 1188.3 | 1190.8 |
| 50°   | 753.5  | 850.5  | 937.0  | 1036.1 | 1088.3 | 1129.1 | 1123.5 | 1126.0 |
| 52.5° | 701.6  | 793.1  | 881.4  | 972.5  | 1024.1 | 1060.2 | 1061.7 | 1056.8 |
| 55°   | 650.7  | 736.8  | 818.1  | 905.8  | 954.9  | 983.0  | 982.1  | 983.9  |
| 57.5° | 599.1  | 680.0  | 754.5  | 834.7  | 882.6  | 909.2  | 914.7  | 908.2  |
| 60°   | 546.6  | 622.6  | 689.3  | 761.9  | 808.2  | 830.4  | 836.9  | 830.7  |
| 62.5° | 494.4  | 564.2  | 624.7  | 688.1  | 731.0  | 758.5  | 757.8  | 751.1  |
| 65°   | 442.2  | 505.5  | 559.6  | 613.3  | 650.7  | 678.2  | 676.9  | 670.8  |
| 67.5° | 394.1  | 446.2  | 494.7  | 538.3  | 570.7  | 589.5  | 596.0  | 588.6  |
| 70°   | 340.9  | 386.0  | 428.6  | 463.5  | 490.4  | 507.4  | 513.6  | 507.1  |
| 72.5° | 287.8  | 326.1  | 356.1  | 389.7  | 410.4  | 424.6  | 431.1  | 424.9  |
| 75°   | 235.3  | 266.8  | 291.2  | 317.5  | 332.0  | 344.0  | 351.4  | 345.3  |
| 77.5° | 184.4  | 208.8  | 228.2  | 247.4  | 264.0  | 266.8  | 273.3  | 269.3  |
| 80°   | 135.9  | 153.5  | 167.7  | 180.4  | 192.4  | 193.6  | 198.9  | 196.4  |
| 82.5° | 90.5   | 102.2  | 105.9  | 119.2  | 126.9  | 125.7  | 130.9  | 129.1  |
| 85°   | 47.9   | 55.0   | 61.5   | 65.5   | 69.8   | 65.8   | 70.4   | 68.6   |
| 87.5° | 16.1   | 17.0   | 14.8   | 21.0   | 23.2   | 19.8   | 22.5   | 21.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)