

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: P834703

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834703  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

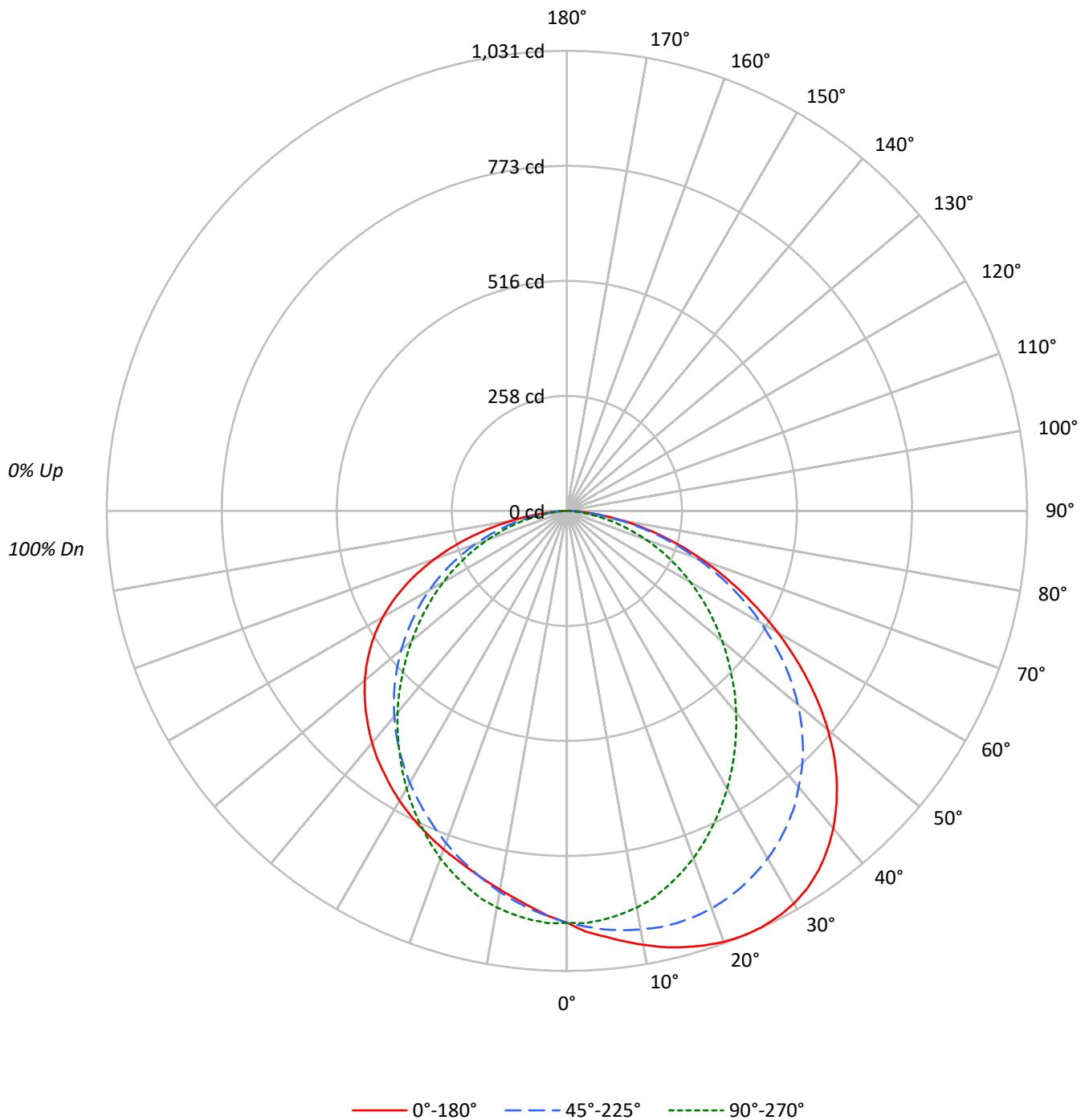
Lumens per Lamp: N/A  
Luminaire Lumens: 2714.7 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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: 28.75 FT

TEST NUMBER: P834703

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834703

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90

**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  | 88  | 90  | 88  | 86  | 84  |    |    |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |
| 3   | 90  | 79  | 71  | 65  | 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  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |    |    |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 37  |    |    |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |    |    |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 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° |
|-----|------|------|------|
| 0°  | 1242 | 1242 | 1242 |
| 5°  | 1293 | 1242 | 1206 |
| 10° | 1349 | 1233 | 1178 |
| 15° | 1410 | 1213 | 1161 |
| 20° | 1472 | 1187 | 1156 |
| 25° | 1529 | 1152 | 1158 |
| 30° | 1579 | 1116 | 1165 |
| 35° | 1615 | 1076 | 1175 |
| 40° | 1632 | 1036 | 1192 |
| 45° | 1627 | 993  | 1212 |
| 50° | 1598 | 951  | 1237 |
| 55° | 1544 | 907  | 1263 |
| 60° | 1468 | 860  | 1282 |
| 65° | 1379 | 808  | 1280 |
| 70° | 1283 | 745  | 1242 |
| 75° | 1165 | 655  | 1145 |
| 80° | 1000 | 538  | 966  |
| 85° | 763  | 367  | 664  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834703

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.5   | 3.2       |
| 10°-20°   | 252.8  | 9.3       |
| 20°-30°   | 387.2  | 14.3      |
| 30°-40°   | 472.6  | 17.4      |
| 40°-50°   | 494.2  | 18.2      |
| 50°-60°   | 447.3  | 16.5      |
| 60°-70°   | 338.8  | 12.5      |
| 70°-80°   | 188.8  | 7.0       |
| 80°-90°   | 45.5   | 1.7       |
| 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°    | 727.5  | 26.8      |
| 0°-40°    | 1200.1 | 44.2      |
| 0°-60°    | 2141.6 | 78.9      |
| 0°-90°    | 2714.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2714.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 923  | 923 | 923 | 923  | 923  |      |
| 5°  | 957  | 941 | 920 | 897  | 893  | 92   |
| 15° | 1012 | 956 | 871 | 830  | 833  | 287  |
| 25° | 1030 | 929 | 776 | 749  | 780  | 475  |
| 35° | 983  | 860 | 655 | 654  | 715  | 614  |
| 45° | 855  | 748 | 522 | 545  | 637  | 658  |
| 55° | 658  | 594 | 387 | 421  | 538  | 587  |
| 65° | 433  | 407 | 254 | 288  | 402  | 430  |
| 75° | 224  | 212 | 126 | 150  | 220  | 238  |
| 85° | 49   | 44  | 24  | 32   | 43   | 59   |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 922.9  | 922.9  | 922.9  | 922.9  | 922.9 | 922.9 | 922.9 | 922.9 | 922.9 | 922.9 | 922.9 |
| 2.5°  | 943.3  | 938.8  | 935.2  | 936.6  | 937.4 | 934.6 | 932.2 | 932.6 | 930.2 | 934.8 | 923.9 |
| 5°    | 957.2  | 953.2  | 948.9  | 950.5  | 948.9 | 944.7 | 941.2 | 940.2 | 933.8 | 936.4 | 925.3 |
| 7.5°  | 972.7  | 968.3  | 962.0  | 963.8  | 960.4 | 952.5 | 948.1 | 945.5 | 935.6 | 935.8 | 923.5 |
| 10°   | 987.6  | 983.8  | 975.3  | 976.6  | 970.3 | 959.8 | 952.7 | 949.1 | 935.2 | 933.2 | 920.5 |
| 12.5° | 1001.6 | 996.3  | 987.2  | 987.8  | 978.8 | 964.9 | 955.8 | 950.5 | 932.4 | 926.3 | 913.8 |
| 15°   | 1012.3 | 1007.2 | 996.3  | 996.1  | 984.4 | 966.3 | 956.0 | 948.7 | 925.7 | 916.2 | 903.1 |
| 17.5° | 1021.3 | 1016.7 | 1003.2 | 1002.8 | 988.7 | 965.7 | 953.4 | 944.3 | 916.0 | 904.3 | 889.8 |
| 20°   | 1027.8 | 1023.2 | 1008.0 | 1006.6 | 989.7 | 962.6 | 947.9 | 936.4 | 903.3 | 889.4 | 873.3 |
| 22.5° | 1030.8 | 1026.2 | 1009.0 | 1007.0 | 987.2 | 956.6 | 940.0 | 926.5 | 888.8 | 870.6 | 853.9 |
| 25°   | 1030.2 | 1025.8 | 1006.4 | 1004.4 | 982.6 | 947.5 | 928.9 | 913.4 | 870.4 | 849.1 | 832.5 |
| 27.5° | 1025.2 | 1021.7 | 1001.4 | 998.7  | 974.1 | 935.2 | 915.4 | 898.3 | 850.1 | 826.3 | 808.3 |
| 30°   | 1016.5 | 1013.9 | 992.3  | 989.9  | 963.6 | 921.7 | 899.7 | 879.9 | 828.1 | 801.3 | 783.1 |
| 32.5° | 1002.6 | 1000.2 | 978.4  | 976.1  | 949.5 | 904.3 | 881.3 | 861.0 | 804.1 | 774.4 | 756.3 |
| 35°   | 983.4  | 982.0  | 960.8  | 958.4  | 931.4 | 884.6 | 860.2 | 837.8 | 779.1 | 745.6 | 728.2 |
| 37.5° | 958.2  | 958.2  | 937.8  | 935.2  | 908.8 | 860.4 | 836.4 | 812.5 | 750.8 | 715.3 | 698.2 |
| 40°   | 928.9  | 931.6  | 910.8  | 908.2  | 882.5 | 834.3 | 808.1 | 783.1 | 720.4 | 683.4 | 666.7 |
| 42.5° | 893.8  | 896.3  | 878.9  | 876.5  | 852.5 | 804.3 | 779.9 | 752.6 | 688.5 | 651.0 | 633.6 |
| 45°   | 855.1  | 858.3  | 842.8  | 841.0  | 818.6 | 771.4 | 748.0 | 720.4 | 655.2 | 617.1 | 600.1 |
| 47.5° | 811.9  | 816.2  | 802.7  | 801.7  | 780.9 | 737.7 | 713.3 | 685.3 | 620.3 | 581.8 | 565.8 |
| 50°   | 763.5  | 769.6  | 758.5  | 758.5  | 739.9 | 697.0 | 675.8 | 647.7 | 584.0 | 545.5 | 529.7 |
| 52.5° | 711.7  | 719.4  | 711.1  | 711.3  | 696.2 | 657.6 | 635.6 | 608.2 | 546.1 | 508.1 | 493.6 |
| 55°   | 658.0  | 665.5  | 660.2  | 661.1  | 649.2 | 614.1 | 594.1 | 566.8 | 507.3 | 470.4 | 456.7 |
| 57.5° | 601.9  | 610.0  | 606.6  | 608.2  | 599.9 | 568.5 | 547.7 | 523.9 | 467.4 | 430.9 | 419.2 |
| 60°   | 545.7  | 553.3  | 551.5  | 553.7  | 548.5 | 521.3 | 502.3 | 477.7 | 427.3 | 392.2 | 381.9 |
| 62.5° | 488.8  | 495.8  | 495.4  | 497.9  | 495.0 | 472.4 | 455.5 | 434.5 | 385.7 | 353.4 | 343.9 |
| 65°   | 433.1  | 439.2  | 438.8  | 441.4  | 440.8 | 422.6 | 407.3 | 388.1 | 344.1 | 314.5 | 306.2 |
| 67.5° | 379.0  | 384.1  | 382.7  | 385.7  | 386.5 | 372.0 | 358.7 | 341.5 | 304.6 | 275.8 | 268.7 |
| 70°   | 326.2  | 329.6  | 327.8  | 329.8  | 331.6 | 320.7 | 309.4 | 294.3 | 262.4 | 237.0 | 231.2 |
| 72.5° | 274.3  | 276.8  | 273.9  | 276.0  | 277.6 | 269.7 | 260.4 | 247.3 | 220.9 | 198.9 | 194.1 |
| 75°   | 224.1  | 227.5  | 221.7  | 223.7  | 224.9 | 217.1 | 211.6 | 200.9 | 178.1 | 161.2 | 158.0 |
| 77.5° | 175.5  | 177.5  | 174.3  | 173.5  | 174.3 | 168.6 | 164.4 | 156.1 | 139.0 | 125.1 | 123.1 |
| 80°   | 129.1  | 130.3  | 127.1  | 126.3  | 126.9 | 122.9 | 119.6 | 113.6 | 101.5 | 91.0  | 90.2  |
| 82.5° | 86.5   | 87.1   | 84.3   | 83.5   | 83.9  | 82.7  | 78.9  | 74.6  | 69.0  | 60.1  | 59.9  |
| 85°   | 49.4   | 49.4   | 47.4   | 46.6   | 47.0  | 45.0  | 43.6  | 41.4  | 39.1  | 33.1  | 33.5  |
| 87.5° | 18.2   | 18.2   | 17.1   | 16.9   | 19.0  | 16.7  | 16.1  | 15.1  | 15.7  | 12.5  | 13.3  |
| 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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CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°    | 922.9 | 922.9 | 922.9 | 922.9 | 922.9  | 922.9 | 922.9 | 922.9 | 922.9 | 922.9 | 922.9  |
| 2.5°  | 926.9 | 924.9 | 923.1 | 916.8 | 919.5  | 913.0 | 912.6 | 910.2 | 908.4 | 904.9 | 909.4  |
| 5°    | 923.9 | 919.9 | 914.6 | 907.2 | 909.4  | 901.7 | 900.1 | 897.3 | 894.9 | 890.4 | 893.8  |
| 7.5°  | 919.1 | 912.4 | 904.1 | 894.7 | 897.7  | 888.2 | 885.8 | 882.7 | 880.7 | 875.5 | 878.5  |
| 10°   | 912.0 | 902.5 | 892.8 | 881.3 | 883.6  | 873.3 | 870.2 | 867.0 | 865.2 | 860.6 | 863.6  |
| 12.5° | 901.1 | 889.6 | 876.5 | 864.0 | 866.4  | 856.7 | 852.7 | 849.3 | 848.7 | 844.8 | 848.5  |
| 15°   | 887.0 | 871.0 | 857.5 | 844.2 | 847.0  | 835.7 | 833.9 | 830.5 | 831.5 | 828.9 | 833.3  |
| 17.5° | 869.0 | 850.7 | 835.9 | 821.6 | 824.5  | 815.0 | 813.6 | 811.9 | 813.0 | 812.5 | 817.4  |
| 20°   | 848.9 | 828.7 | 811.7 | 797.6 | 799.2  | 791.8 | 792.4 | 792.0 | 794.0 | 796.2 | 802.9  |
| 22.5° | 826.1 | 803.3 | 785.5 | 771.0 | 773.4  | 767.0 | 769.8 | 770.6 | 774.0 | 779.1 | 787.5  |
| 25°   | 800.4 | 776.0 | 757.5 | 743.8 | 746.0  | 741.7 | 746.6 | 748.6 | 754.0 | 762.5 | 771.2  |
| 27.5° | 773.6 | 747.8 | 728.0 | 714.9 | 719.2  | 714.9 | 722.2 | 726.2 | 734.5 | 743.8 | 754.5  |
| 30°   | 745.2 | 718.3 | 698.0 | 686.3 | 690.3  | 686.5 | 698.2 | 703.6 | 711.9 | 724.6 | 737.3  |
| 32.5° | 715.3 | 687.1 | 667.1 | 658.0 | 660.9  | 660.2 | 673.4 | 679.4 | 690.5 | 705.0 | 718.5  |
| 35°   | 684.7 | 655.2 | 635.0 | 627.4 | 630.8  | 631.6 | 647.3 | 654.4 | 666.5 | 684.1 | 698.6  |
| 37.5° | 653.0 | 622.9 | 603.2 | 596.9 | 599.9  | 603.0 | 621.3 | 628.4 | 642.1 | 661.3 | 677.2  |
| 40°   | 620.1 | 590.0 | 570.7 | 565.6 | 568.7  | 571.9 | 591.9 | 601.5 | 616.5 | 637.2 | 654.6  |
| 42.5° | 586.8 | 556.8 | 538.0 | 534.4 | 537.4  | 543.6 | 564.8 | 573.9 | 589.6 | 612.6 | 631.8  |
| 45°   | 552.9 | 521.7 | 505.3 | 502.5 | 505.7  | 513.0 | 533.8 | 544.7 | 561.4 | 586.6 | 607.2  |
| 47.5° | 518.6 | 488.2 | 472.6 | 470.8 | 474.1  | 482.1 | 505.1 | 515.0 | 532.8 | 559.6 | 581.8  |
| 50°   | 483.9 | 454.3 | 439.4 | 438.8 | 441.8  | 450.5 | 472.4 | 484.1 | 502.5 | 532.6 | 555.3  |
| 52.5° | 448.8 | 420.4 | 406.9 | 406.9 | 409.7  | 418.6 | 440.8 | 452.9 | 471.8 | 503.5 | 528.7  |
| 55°   | 413.7 | 386.7 | 373.8 | 374.8 | 378.8  | 386.5 | 408.1 | 420.8 | 440.0 | 472.8 | 499.5  |
| 57.5° | 378.6 | 353.0 | 341.3 | 342.7 | 346.6  | 354.2 | 375.4 | 389.7 | 407.1 | 441.2 | 468.4  |
| 60°   | 343.9 | 319.7 | 309.4 | 311.1 | 314.5  | 322.2 | 344.1 | 356.4 | 373.8 | 408.5 | 435.7  |
| 62.5° | 308.8 | 286.9 | 277.2 | 279.2 | 282.2  | 289.9 | 310.7 | 322.6 | 339.7 | 373.8 | 401.2  |
| 65°   | 274.1 | 253.8 | 245.5 | 247.5 | 250.3  | 257.4 | 277.0 | 288.5 | 304.8 | 338.1 | 364.3  |
| 67.5° | 239.9 | 221.3 | 214.4 | 216.5 | 218.7  | 225.3 | 241.5 | 254.0 | 269.3 | 301.0 | 325.8  |
| 70°   | 206.0 | 189.4 | 183.4 | 185.4 | 187.4  | 193.5 | 207.6 | 219.1 | 233.2 | 262.2 | 285.2  |
| 72.5° | 172.5 | 156.3 | 153.3 | 155.1 | 156.7  | 162.0 | 175.5 | 184.6 | 196.9 | 222.7 | 242.5  |
| 75°   | 139.8 | 125.9 | 123.9 | 125.7 | 127.1  | 131.1 | 142.4 | 150.3 | 160.6 | 183.0 | 199.1  |
| 77.5° | 108.3 | 96.6  | 95.8  | 97.2  | 98.6   | 101.5 | 110.3 | 118.6 | 126.7 | 143.2 | 157.5  |
| 80°   | 78.9  | 69.4  | 69.4  | 70.8  | 70.4   | 73.8  | 80.1  | 86.7  | 92.6  | 104.5 | 115.0  |
| 82.5° | 52.0  | 44.6  | 45.6  | 46.6  | 47.2   | 48.6  | 52.4  | 57.5  | 61.1  | 68.4  | 75.2   |
| 85°   | 28.8  | 23.8  | 24.8  | 25.6  | 25.2   | 26.8  | 28.8  | 31.9  | 33.7  | 37.1  | 40.7   |
| 87.5° | 10.7  | 8.9   | 9.1   | 9.7   | 10.1   | 10.9  | 10.9  | 12.7  | 12.9  | 13.3  | 14.1   |
| 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: P834703

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-1LO-50-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 160°  | 170°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 922.9 | 922.9 | 922.9 |
| 2.5°  | 900.9 | 905.7 | 909.4 |
| 5°    | 885.4 | 889.4 | 892.6 |
| 7.5°  | 870.2 | 873.9 | 876.7 |
| 10°   | 855.9 | 860.0 | 862.0 |
| 12.5° | 841.2 | 845.8 | 847.4 |
| 15°   | 826.7 | 831.3 | 833.3 |
| 17.5° | 811.7 | 817.8 | 820.0 |
| 20°   | 797.8 | 805.5 | 807.3 |
| 22.5° | 783.7 | 791.6 | 793.8 |
| 25°   | 768.4 | 777.7 | 779.9 |
| 27.5° | 752.0 | 763.1 | 765.3 |
| 30°   | 735.7 | 747.8 | 750.0 |
| 32.5° | 718.1 | 731.3 | 733.3 |
| 35°   | 699.8 | 712.9 | 715.3 |
| 37.5° | 679.4 | 693.7 | 698.6 |
| 40°   | 658.2 | 673.8 | 678.8 |
| 42.5° | 636.0 | 653.0 | 658.2 |
| 45°   | 612.2 | 630.8 | 636.8 |
| 47.5° | 588.2 | 609.2 | 614.5 |
| 50°   | 562.2 | 584.6 | 590.9 |
| 52.5° | 535.0 | 559.4 | 565.6 |
| 55°   | 506.7 | 531.3 | 538.2 |
| 57.5° | 476.1 | 501.5 | 508.8 |
| 60°   | 444.0 | 469.4 | 476.3 |
| 62.5° | 411.1 | 434.1 | 440.8 |
| 65°   | 374.4 | 396.0 | 402.0 |
| 67.5° | 335.5 | 355.2 | 360.3 |
| 70°   | 294.1 | 311.3 | 315.7 |
| 72.5° | 250.9 | 262.8 | 268.7 |
| 75°   | 206.4 | 215.8 | 220.3 |
| 77.5° | 161.6 | 168.2 | 171.9 |
| 80°   | 117.8 | 121.6 | 124.7 |
| 82.5° | 77.1  | 78.7  | 80.9  |
| 85°   | 41.6  | 41.6  | 43.0  |
| 87.5° | 14.1  | 13.5  | 14.1  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)