

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584081

Luminaire Tested: **HCC8S20D010SL-HM80520935-81WWWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S20D010SL-HM80520935-81WWWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

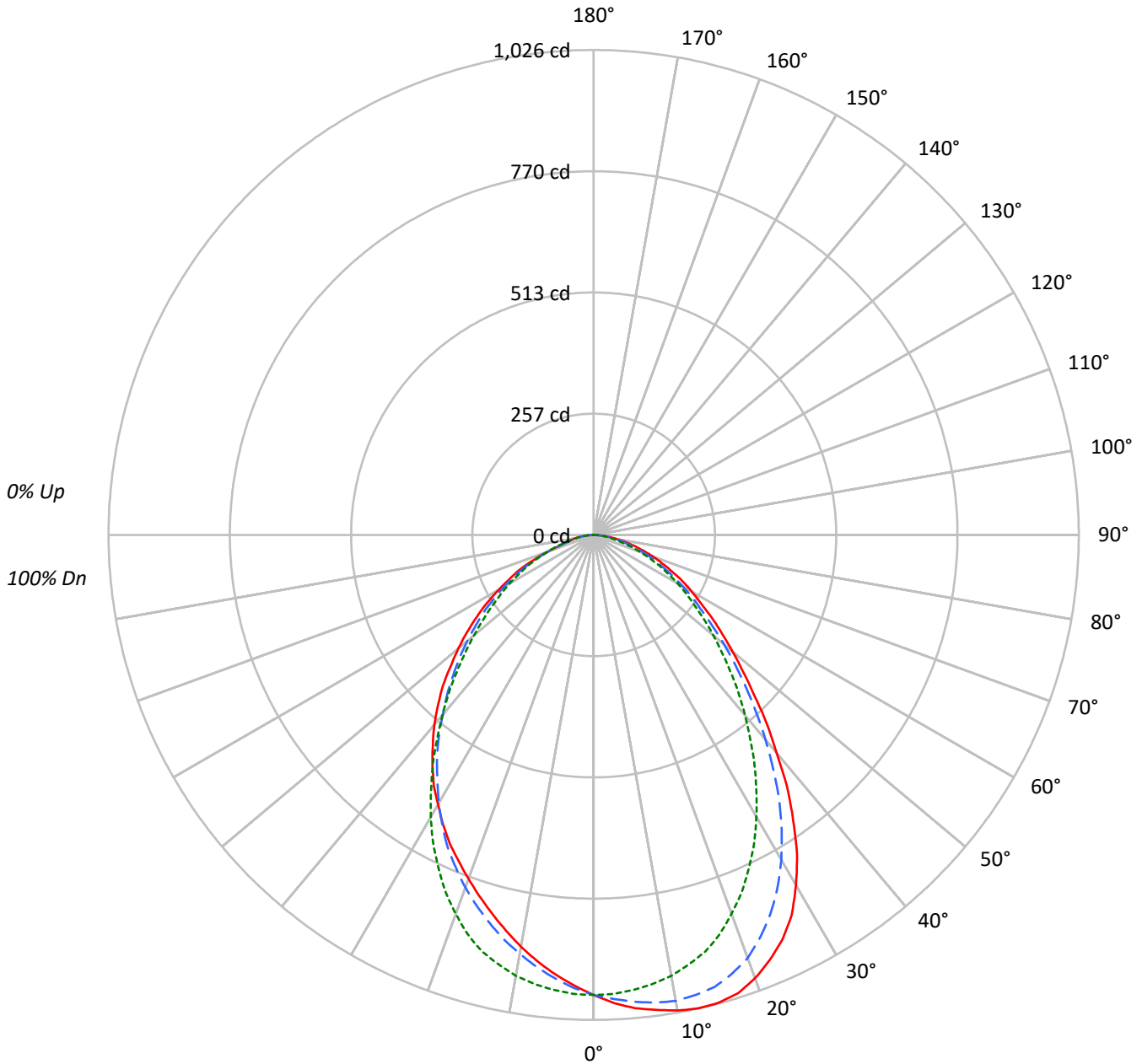
Lumens per Lamp: N/A  
Luminaire Lumens: 1957.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 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   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |    |    |    |    |   |  |   |
| 2   | 102 | 94  | 88  | 83  | 99  | 93  | 87  | 82  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |    |    |    |    |    |   |  |   |
| 3   | 94  | 84  | 77  | 71  | 91  | 83  | 76  | 71  | 80  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 67  | 65  |    |    |    |    |    |   |  |   |
| 4   | 87  | 76  | 68  | 62  | 84  | 75  | 67  | 61  | 72  | 66  | 61  | 70  | 64  | 60  | 68  | 63  | 59  | 57  |    |    |    |    |    |   |  |   |
| 5   | 80  | 69  | 60  | 54  | 78  | 67  | 60  | 54  | 65  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |    |    |    |    |    |   |  |   |
| 6   | 75  | 62  | 54  | 48  | 73  | 61  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |    |    |    |   |  |   |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 42  | 40  |    |    |    |    |    |   |  |   |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |    |    |    |    |    |   |  |   |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |    |    |   |  |   |
| 10  | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |    |    |    |    |    |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 30013 | 30013 | 30013 |
| 5°  | 31112 | 29914 | 28886 |
| 10° | 31991 | 29652 | 27705 |
| 15° | 32703 | 29131 | 26481 |
| 20° | 32756 | 27991 | 25406 |
| 25° | 32129 | 26433 | 24508 |
| 30° | 30472 | 24515 | 23429 |
| 35° | 27684 | 22327 | 22376 |
| 40° | 24209 | 20034 | 21093 |
| 45° | 20980 | 17845 | 19655 |
| 50° | 18374 | 15850 | 17908 |
| 55° | 16349 | 14048 | 16204 |
| 60° | 14746 | 12618 | 14234 |
| 65° | 13316 | 11098 | 12411 |
| 70° | 11964 | 9350  | 9232  |
| 75° | 10544 | 7411  | 6910  |
| 80° | 8843  | 6126  | 6641  |
| 85° | 6864  | 5378  | 5838  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.8   | 4.7       |
| 10°-20°   | 258.6  | 13.2      |
| 20°-30°   | 369.6  | 18.9      |
| 30°-40°   | 392.7  | 20.1      |
| 40°-50°   | 338.1  | 17.3      |
| 50°-60°   | 252.8  | 12.9      |
| 60°-70°   | 161.2  | 8.2       |
| 70°-80°   | 73.4   | 3.7       |
| 80°-90°   | 19.2   | 1.0       |
| 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°    | 720.0  | 36.8      |
| 0°-40°    | 1112.7 | 56.8      |
| 0°-60°    | 1703.6 | 87.0      |
| 0°-90°    | 1957.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1957.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 973  | 973 | 973 | 973  | 973  |      |
| 5°  | 1005 | 991 | 966 | 942  | 933  | 96   |
| 15° | 1024 | 990 | 912 | 850  | 830  | 289  |
| 25° | 944  | 885 | 777 | 730  | 720  | 432  |
| 35° | 735  | 684 | 593 | 578  | 594  | 458  |
| 45° | 481  | 455 | 409 | 420  | 451  | 374  |
| 55° | 304  | 279 | 261 | 283  | 301  | 273  |
| 65° | 182  | 162 | 152 | 159  | 170  | 182  |
| 75° | 88   | 76  | 62  | 57   | 58   | 94   |
| 85° | 19   | 16  | 15  | 16   | 16   | 23   |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  | 973.3  |
| 2.5°  | 991.2  | 988.5  | 989.9  | 988.5  | 989.9  | 989.9  | 987.1  | 987.1  | 987.1  | 987.1  | 983.0  |
| 5°    | 1005.1 | 1003.6 | 1003.6 | 1002.3 | 1000.9 | 1002.3 | 1000.9 | 999.5  | 996.8  | 995.4  | 991.2  |
| 7.5°  | 1013.3 | 1013.3 | 1013.3 | 1013.3 | 1012.0 | 1010.6 | 1009.2 | 1006.5 | 1003.6 | 1000.9 | 998.2  |
| 10°   | 1021.7 | 1023.0 | 1021.7 | 1020.3 | 1018.9 | 1016.2 | 1014.7 | 1012.0 | 1007.9 | 1003.6 | 1000.9 |
| 12.5° | 1025.9 | 1025.9 | 1024.4 | 1024.4 | 1021.7 | 1020.3 | 1016.2 | 1012.0 | 1007.9 | 1003.6 | 996.8  |
| 15°   | 1024.4 | 1024.4 | 1023.0 | 1021.7 | 1017.5 | 1016.2 | 1013.3 | 1009.2 | 1002.3 | 996.8  | 989.9  |
| 17.5° | 1016.2 | 1014.7 | 1012.0 | 1012.0 | 1006.5 | 1005.1 | 1002.3 | 996.8  | 989.9  | 981.5  | 973.3  |
| 20°   | 998.2  | 998.2  | 996.8  | 995.4  | 989.9  | 985.7  | 983.0  | 976.1  | 970.5  | 960.8  | 952.6  |
| 22.5° | 973.3  | 976.1  | 973.3  | 970.5  | 963.6  | 962.3  | 958.1  | 949.7  | 941.5  | 930.5  | 920.8  |
| 25°   | 944.3  | 942.9  | 941.5  | 938.7  | 933.2  | 930.5  | 924.9  | 916.6  | 908.2  | 895.8  | 884.8  |
| 27.5° | 906.9  | 901.4  | 901.4  | 895.8  | 891.7  | 887.6  | 884.8  | 876.5  | 865.5  | 855.8  | 841.9  |
| 30°   | 855.8  | 857.2  | 850.2  | 848.9  | 841.9  | 839.2  | 833.7  | 825.4  | 815.7  | 804.6  | 793.6  |
| 32.5° | 800.5  | 796.3  | 796.3  | 790.8  | 785.2  | 781.1  | 779.8  | 770.1  | 761.8  | 750.7  | 739.7  |
| 35°   | 735.4  | 735.4  | 731.3  | 730.0  | 724.4  | 721.6  | 717.5  | 712.0  | 702.3  | 692.7  | 684.4  |
| 37.5° | 671.8  | 669.1  | 667.7  | 665.0  | 660.9  | 656.7  | 656.7  | 647.0  | 645.6  | 634.6  | 623.5  |
| 40°   | 601.4  | 604.1  | 601.4  | 597.3  | 595.8  | 593.1  | 591.7  | 586.2  | 582.0  | 572.3  | 565.5  |
| 42.5° | 541.9  | 539.2  | 539.2  | 537.8  | 532.3  | 532.3  | 529.5  | 526.7  | 519.8  | 517.0  | 508.7  |
| 45°   | 481.1  | 483.9  | 479.8  | 481.1  | 475.6  | 475.6  | 475.6  | 470.1  | 464.5  | 460.4  | 454.8  |
| 47.5° | 428.6  | 430.0  | 430.0  | 425.8  | 424.5  | 424.5  | 421.6  | 418.9  | 414.8  | 409.2  | 405.1  |
| 50°   | 383.0  | 384.4  | 381.5  | 380.1  | 377.4  | 376.0  | 376.0  | 370.6  | 367.7  | 362.2  | 359.4  |
| 52.5° | 341.5  | 341.5  | 340.1  | 340.1  | 335.9  | 335.9  | 333.2  | 329.1  | 326.2  | 323.5  | 316.5  |
| 55°   | 304.1  | 304.1  | 302.7  | 301.4  | 301.4  | 297.3  | 295.9  | 291.7  | 289.0  | 283.4  | 279.3  |
| 57.5° | 268.2  | 269.6  | 268.2  | 266.8  | 265.5  | 264.1  | 261.3  | 257.2  | 254.4  | 250.2  | 247.5  |
| 60°   | 239.1  | 239.1  | 237.8  | 236.4  | 233.7  | 232.3  | 230.8  | 228.1  | 224.0  | 221.2  | 217.0  |
| 62.5° | 211.6  | 210.2  | 208.7  | 207.3  | 204.6  | 204.6  | 201.9  | 199.0  | 194.9  | 192.2  | 189.4  |
| 65°   | 182.5  | 182.5  | 181.1  | 181.1  | 179.8  | 176.9  | 175.5  | 174.2  | 168.7  | 167.3  | 161.7  |
| 67.5° | 156.3  | 157.6  | 154.8  | 154.8  | 152.1  | 152.1  | 150.7  | 146.6  | 145.1  | 142.4  | 139.6  |
| 70°   | 132.7  | 132.7  | 132.7  | 131.3  | 128.6  | 127.2  | 125.8  | 123.0  | 121.6  | 118.9  | 116.1  |
| 72.5° | 109.2  | 109.2  | 107.8  | 107.8  | 106.5  | 105.1  | 103.7  | 100.9  | 100.9  | 98.1   | 95.4   |
| 75°   | 88.5   | 88.5   | 87.1   | 85.7   | 84.3   | 84.3   | 83.0   | 81.6   | 78.8   | 77.4   | 76.0   |
| 77.5° | 67.7   | 67.7   | 67.7   | 66.3   | 65.0   | 65.0   | 65.0   | 62.2   | 59.5   | 59.5   | 58.0   |
| 80°   | 49.8   | 49.8   | 48.3   | 48.3   | 47.0   | 47.0   | 47.0   | 45.6   | 44.2   | 42.9   | 41.5   |
| 82.5° | 33.2   | 33.2   | 33.2   | 33.2   | 31.8   | 31.8   | 31.8   | 30.4   | 29.1   | 29.1   | 29.1   |
| 85°   | 19.4   | 19.4   | 19.4   | 19.4   | 18.0   | 18.0   | 18.0   | 18.0   | 18.0   | 16.5   | 16.5   |
| 87.5° | 8.3    | 6.9    | 8.3    | 6.9    | 8.3    | 6.9    | 8.3    | 6.9    | 6.9    | 6.9    | 6.9    |
| 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):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 |
| 2.5°  | 984.4 | 983.0 | 981.5 | 980.2 | 980.2 | 978.8 | 976.1 | 974.7 | 973.3 | 971.8 | 971.8 |
| 5°    | 989.9 | 988.5 | 985.7 | 983.0 | 981.5 | 978.8 | 976.1 | 973.3 | 970.5 | 966.4 | 965.0 |
| 7.5°  | 994.1 | 989.9 | 987.1 | 981.5 | 980.2 | 977.4 | 973.3 | 969.1 | 963.6 | 958.1 | 953.9 |
| 10°   | 994.1 | 988.5 | 984.4 | 977.4 | 974.7 | 971.8 | 966.4 | 959.4 | 952.6 | 947.0 | 940.0 |
| 12.5° | 991.2 | 984.4 | 977.4 | 970.5 | 966.4 | 962.3 | 953.9 | 947.0 | 938.7 | 930.5 | 924.9 |
| 15°   | 981.5 | 973.3 | 965.0 | 956.7 | 952.6 | 947.0 | 938.7 | 929.1 | 920.8 | 912.5 | 902.8 |
| 17.5° | 963.6 | 955.3 | 945.6 | 935.9 | 930.5 | 926.3 | 913.8 | 906.9 | 894.4 | 886.1 | 877.9 |
| 20°   | 940.0 | 930.5 | 917.9 | 908.2 | 901.4 | 897.3 | 887.6 | 875.2 | 865.5 | 853.0 | 844.7 |
| 22.5° | 909.7 | 897.3 | 884.8 | 875.2 | 868.2 | 862.6 | 850.2 | 837.8 | 829.5 | 818.4 | 808.7 |
| 25°   | 873.7 | 861.3 | 848.9 | 835.1 | 828.1 | 822.6 | 811.6 | 800.5 | 789.5 | 776.9 | 768.7 |
| 27.5° | 830.8 | 817.0 | 806.0 | 793.6 | 786.6 | 778.3 | 765.9 | 754.8 | 743.8 | 735.4 | 724.4 |
| 30°   | 783.9 | 768.7 | 757.7 | 745.1 | 738.3 | 731.3 | 718.9 | 707.8 | 698.2 | 688.5 | 683.0 |
| 32.5° | 727.2 | 716.2 | 705.1 | 692.7 | 687.1 | 683.0 | 670.5 | 659.4 | 648.4 | 640.1 | 635.9 |
| 35°   | 673.3 | 660.9 | 651.2 | 640.1 | 633.2 | 629.1 | 617.9 | 608.3 | 602.8 | 593.1 | 587.6 |
| 37.5° | 616.6 | 607.0 | 595.8 | 584.9 | 580.6 | 576.5 | 568.2 | 558.5 | 550.2 | 543.4 | 540.5 |
| 40°   | 557.2 | 548.8 | 539.2 | 532.3 | 528.1 | 524.0 | 517.0 | 510.2 | 504.6 | 497.7 | 494.9 |
| 42.5° | 500.5 | 494.9 | 486.6 | 478.4 | 474.2 | 472.8 | 464.5 | 459.0 | 456.3 | 453.4 | 450.7 |
| 45°   | 449.3 | 441.0 | 435.4 | 430.0 | 425.8 | 423.0 | 418.9 | 414.8 | 411.9 | 409.2 | 406.5 |
| 47.5° | 399.5 | 392.7 | 387.1 | 383.0 | 378.8 | 377.4 | 374.7 | 370.6 | 367.7 | 367.7 | 367.7 |
| 50°   | 353.9 | 348.3 | 342.9 | 340.1 | 338.8 | 335.9 | 333.2 | 331.8 | 330.4 | 330.4 | 330.4 |
| 52.5° | 313.8 | 308.3 | 304.1 | 301.4 | 301.4 | 298.6 | 295.9 | 294.4 | 294.4 | 294.4 | 294.4 |
| 55°   | 276.5 | 272.3 | 269.6 | 266.8 | 264.1 | 262.6 | 262.6 | 262.6 | 261.3 | 261.3 | 262.6 |
| 57.5° | 243.4 | 240.5 | 236.4 | 233.7 | 232.3 | 232.3 | 230.8 | 229.5 | 230.8 | 232.3 | 233.7 |
| 60°   | 212.9 | 210.2 | 208.7 | 204.6 | 204.6 | 204.6 | 203.2 | 203.2 | 203.2 | 204.6 | 206.0 |
| 62.5° | 185.2 | 183.9 | 181.1 | 179.8 | 178.4 | 178.4 | 176.9 | 176.9 | 176.9 | 176.9 | 178.4 |
| 65°   | 160.4 | 157.6 | 154.8 | 154.8 | 154.8 | 153.4 | 153.4 | 150.7 | 152.1 | 152.1 | 150.7 |
| 67.5° | 136.9 | 134.2 | 132.7 | 131.3 | 129.9 | 129.9 | 128.6 | 127.2 | 125.8 | 125.8 | 125.8 |
| 70°   | 114.8 | 111.9 | 111.9 | 109.2 | 109.2 | 107.8 | 106.5 | 106.5 | 105.1 | 103.7 | 102.4 |
| 72.5° | 92.7  | 91.3  | 89.8  | 88.5  | 88.5  | 88.5  | 87.1  | 85.7  | 84.3  | 83.0  | 80.1  |
| 75°   | 73.3  | 73.3  | 70.6  | 69.1  | 69.1  | 67.7  | 66.3  | 65.0  | 63.6  | 62.2  | 60.9  |
| 77.5° | 56.7  | 55.3  | 52.5  | 51.2  | 51.2  | 51.2  | 49.8  | 48.3  | 47.0  | 45.6  | 44.2  |
| 80°   | 41.5  | 40.1  | 38.7  | 37.4  | 37.4  | 37.4  | 35.9  | 35.9  | 34.5  | 34.5  | 34.5  |
| 82.5° | 27.7  | 27.7  | 26.2  | 26.2  | 26.2  | 26.2  | 24.9  | 24.9  | 24.9  | 24.9  | 24.9  |
| 85°   | 16.5  | 16.5  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  |
| 87.5° | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   |
| 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):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 973.3 | 973.3 | 973.3 | 973.3  | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 |
| 2.5°  | 969.1 | 969.1 | 966.4 | 965.0  | 963.6 | 965.0 | 962.3 | 960.8 | 959.4 | 959.4 | 958.1 |
| 5°    | 960.8 | 959.4 | 953.9 | 952.6  | 951.2 | 949.7 | 947.0 | 944.3 | 941.5 | 940.0 | 938.7 |
| 7.5°  | 949.7 | 945.6 | 940.0 | 938.7  | 937.3 | 933.2 | 929.1 | 926.3 | 922.1 | 920.8 | 917.9 |
| 10°   | 934.6 | 929.1 | 924.9 | 920.8  | 917.9 | 913.8 | 909.7 | 905.5 | 900.0 | 898.7 | 894.4 |
| 12.5° | 916.6 | 909.7 | 901.4 | 900.0  | 895.8 | 890.3 | 884.8 | 880.7 | 876.5 | 873.7 | 869.6 |
| 15°   | 894.4 | 887.6 | 879.3 | 875.2  | 871.0 | 866.9 | 859.9 | 854.3 | 850.2 | 846.1 | 841.9 |
| 17.5° | 868.2 | 859.9 | 853.0 | 848.9  | 846.1 | 839.2 | 833.7 | 826.7 | 822.6 | 818.4 | 814.3 |
| 20°   | 836.4 | 829.5 | 819.8 | 815.7  | 814.3 | 808.7 | 801.9 | 799.0 | 793.6 | 789.5 | 786.6 |
| 22.5° | 800.5 | 793.6 | 785.2 | 782.5  | 776.9 | 774.2 | 767.2 | 764.5 | 761.8 | 757.7 | 756.2 |
| 25°   | 760.4 | 753.4 | 746.6 | 745.1  | 741.0 | 738.3 | 734.1 | 730.0 | 730.0 | 725.9 | 725.9 |
| 27.5° | 718.9 | 712.0 | 706.5 | 703.6  | 702.3 | 699.5 | 695.4 | 694.1 | 692.7 | 691.2 | 691.2 |
| 30°   | 674.7 | 666.4 | 663.6 | 662.3  | 660.9 | 658.0 | 656.7 | 653.9 | 655.3 | 656.7 | 655.3 |
| 32.5° | 627.6 | 624.9 | 619.4 | 616.6  | 617.9 | 616.6 | 613.8 | 616.6 | 615.2 | 617.9 | 619.4 |
| 35°   | 582.0 | 579.3 | 576.5 | 576.5  | 573.7 | 573.7 | 573.7 | 575.2 | 577.9 | 579.3 | 582.0 |
| 37.5° | 537.8 | 533.7 | 532.3 | 530.8  | 532.3 | 532.3 | 532.3 | 535.0 | 537.8 | 540.5 | 544.7 |
| 40°   | 490.8 | 488.0 | 488.0 | 488.0  | 488.0 | 492.2 | 490.8 | 493.6 | 496.3 | 500.5 | 504.6 |
| 42.5° | 446.6 | 446.6 | 448.0 | 448.0  | 448.0 | 448.0 | 450.7 | 454.8 | 459.0 | 463.1 | 467.2 |
| 45°   | 405.1 | 405.1 | 405.1 | 407.8  | 407.8 | 409.2 | 414.8 | 417.5 | 420.3 | 424.5 | 428.6 |
| 47.5° | 366.4 | 366.4 | 367.7 | 369.1  | 370.6 | 373.3 | 376.0 | 380.1 | 384.4 | 387.1 | 391.2 |
| 50°   | 330.4 | 331.8 | 334.5 | 337.3  | 337.3 | 338.8 | 342.9 | 345.6 | 348.3 | 352.6 | 353.9 |
| 52.5° | 295.9 | 298.6 | 301.4 | 302.7  | 304.1 | 307.0 | 308.3 | 312.4 | 313.8 | 318.0 | 319.4 |
| 55°   | 264.1 | 265.5 | 269.6 | 270.9  | 270.9 | 273.8 | 276.5 | 279.3 | 283.4 | 283.4 | 286.2 |
| 57.5° | 235.0 | 236.4 | 239.1 | 240.5  | 239.1 | 243.4 | 244.7 | 247.5 | 248.8 | 251.6 | 252.9 |
| 60°   | 206.0 | 208.7 | 210.2 | 210.2  | 211.6 | 212.9 | 215.7 | 215.7 | 218.4 | 221.2 | 221.2 |
| 62.5° | 178.4 | 179.8 | 181.1 | 182.5  | 183.9 | 182.5 | 186.6 | 186.6 | 189.4 | 190.8 | 193.5 |
| 65°   | 152.1 | 153.4 | 153.4 | 154.8  | 154.8 | 156.3 | 156.3 | 157.6 | 159.0 | 161.7 | 163.1 |
| 67.5° | 125.8 | 125.8 | 125.8 | 127.2  | 125.8 | 127.2 | 127.2 | 128.6 | 128.6 | 131.3 | 132.7 |
| 70°   | 102.4 | 100.9 | 99.5  | 99.5   | 99.5  | 99.5  | 98.1  | 99.5  | 99.5  | 100.9 | 100.9 |
| 72.5° | 78.8  | 77.4  | 76.0  | 74.7   | 74.7  | 73.3  | 71.9  | 73.3  | 73.3  | 74.7  | 74.7  |
| 75°   | 59.5  | 56.7  | 56.7  | 56.7   | 55.3  | 55.3  | 55.3  | 56.7  | 56.7  | 56.7  | 58.0  |
| 77.5° | 44.2  | 44.2  | 42.9  | 42.9   | 42.9  | 44.2  | 44.2  | 45.6  | 45.6  | 45.6  | 45.6  |
| 80°   | 33.2  | 34.5  | 34.5  | 34.5   | 34.5  | 35.9  | 35.9  | 35.9  | 35.9  | 37.4  | 37.4  |
| 82.5° | 24.9  | 24.9  | 24.9  | 24.9   | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  | 26.2  |
| 85°   | 15.2  | 16.5  | 16.5  | 15.2   | 16.5  | 16.5  | 16.5  | 16.5  | 16.5  | 16.5  | 16.5  |
| 87.5° | 6.9   | 6.9   | 6.9   | 6.9    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   |
| 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: P584081

CATALOG NUMBER: HCC8S20D010SL-HM80520935-81WWWB

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 973.3 | 973.3 | 973.3  | 973.3 | 973.3 | 973.3 | 973.3 | 973.3 |
| 2.5°  | 956.7 | 956.7 | 956.7  | 956.7 | 955.3 | 955.3 | 955.3 | 953.9 |
| 5°    | 935.9 | 935.9 | 935.9  | 933.2 | 934.6 | 934.6 | 931.8 | 933.2 |
| 7.5°  | 915.2 | 913.8 | 912.5  | 912.5 | 911.1 | 909.7 | 908.2 | 909.7 |
| 10°   | 891.7 | 887.6 | 887.6  | 886.1 | 886.1 | 883.4 | 883.4 | 884.8 |
| 12.5° | 865.5 | 862.6 | 862.6  | 861.3 | 859.9 | 858.5 | 857.2 | 857.2 |
| 15°   | 839.2 | 836.4 | 835.1  | 833.7 | 832.2 | 829.5 | 830.8 | 829.5 |
| 17.5° | 812.9 | 808.7 | 808.7  | 807.4 | 806.0 | 803.3 | 803.3 | 801.9 |
| 20°   | 782.5 | 781.1 | 778.3  | 779.8 | 778.3 | 775.6 | 774.2 | 774.2 |
| 22.5° | 752.1 | 752.1 | 750.7  | 750.7 | 749.3 | 748.0 | 746.6 | 746.6 |
| 25°   | 723.0 | 721.6 | 723.0  | 723.0 | 718.9 | 718.9 | 718.9 | 720.3 |
| 27.5° | 689.8 | 691.2 | 689.8  | 689.8 | 689.8 | 689.8 | 691.2 | 689.8 |
| 30°   | 656.7 | 656.7 | 656.7  | 658.0 | 660.9 | 659.4 | 659.4 | 658.0 |
| 32.5° | 620.8 | 622.1 | 622.1  | 623.5 | 624.9 | 627.6 | 627.6 | 629.1 |
| 35°   | 584.9 | 587.6 | 589.0  | 587.6 | 591.7 | 591.7 | 594.4 | 594.4 |
| 37.5° | 547.5 | 548.8 | 551.6  | 553.1 | 555.8 | 557.2 | 558.5 | 558.5 |
| 40°   | 507.4 | 512.9 | 514.3  | 515.7 | 519.8 | 519.8 | 521.1 | 524.0 |
| 42.5° | 470.1 | 475.6 | 476.9  | 478.4 | 481.1 | 485.2 | 483.9 | 486.6 |
| 45°   | 434.1 | 438.3 | 439.6  | 441.0 | 445.1 | 446.6 | 446.6 | 450.7 |
| 47.5° | 395.4 | 398.2 | 399.5  | 402.4 | 405.1 | 407.8 | 410.6 | 409.2 |
| 50°   | 356.7 | 360.9 | 363.6  | 365.0 | 369.1 | 370.6 | 371.9 | 373.3 |
| 52.5° | 322.1 | 324.9 | 326.2  | 327.7 | 331.8 | 333.2 | 334.5 | 337.3 |
| 55°   | 289.0 | 290.3 | 293.1  | 291.7 | 295.9 | 297.3 | 298.6 | 301.4 |
| 57.5° | 255.8 | 257.2 | 258.5  | 258.5 | 261.3 | 264.1 | 265.5 | 266.8 |
| 60°   | 224.0 | 226.7 | 228.1  | 228.1 | 228.1 | 230.8 | 230.8 | 230.8 |
| 62.5° | 194.9 | 194.9 | 196.3  | 196.3 | 199.0 | 199.0 | 199.0 | 199.0 |
| 65°   | 164.5 | 166.0 | 167.3  | 167.3 | 170.1 | 168.7 | 171.4 | 170.1 |
| 67.5° | 132.7 | 132.7 | 135.5  | 135.5 | 134.2 | 135.5 | 135.5 | 135.5 |
| 70°   | 100.9 | 100.9 | 102.4  | 102.4 | 102.4 | 102.4 | 102.4 | 102.4 |
| 72.5° | 74.7  | 74.7  | 74.7   | 76.0  | 74.7  | 74.7  | 76.0  | 74.7  |
| 75°   | 58.0  | 58.0  | 58.0   | 58.0  | 58.0  | 58.0  | 58.0  | 58.0  |
| 77.5° | 45.6  | 45.6  | 47.0   | 47.0  | 47.0  | 47.0  | 47.0  | 47.0  |
| 80°   | 37.4  | 37.4  | 37.4   | 37.4  | 38.7  | 37.4  | 37.4  | 37.4  |
| 82.5° | 27.7  | 26.2  | 27.7   | 26.2  | 27.7  | 27.7  | 27.7  | 27.7  |
| 85°   | 16.5  | 16.5  | 16.5   | 16.5  | 16.5  | 16.5  | 16.5  | 16.5  |
| 87.5° | 6.9   | 6.9   | 6.9    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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

Scaled Data Report



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Peachtree City, GA 30269

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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)