

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



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: P583897

Luminaire Tested: **HCC8W15D010MB-HM80520840-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583897  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W15D010MB-HM80520840-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

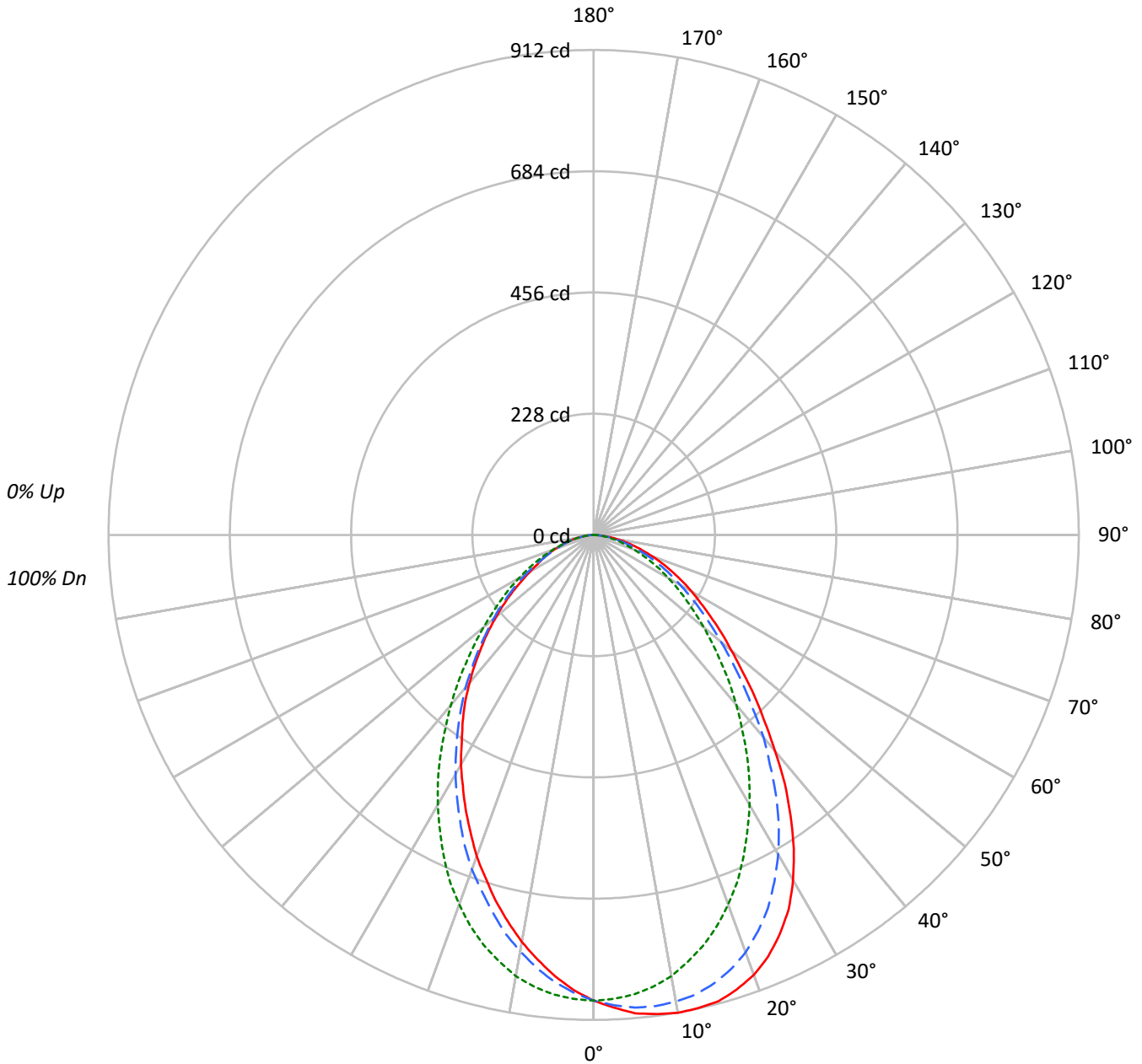
Lumens per Lamp: N/A  
Luminaire Lumens: 1616.2 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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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CATALOG NUMBER: HCC8W15D010MB-HM80520840-81WWW

### 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 |    |    |    |    | 100 |   |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |    | 87  |   |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 59  | 54  | 63  | 57  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |    | 32  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 27003 | 27003 | 27003 |
| 5°  | 27952 | 26850 | 25782 |
| 10° | 28572 | 26377 | 24333 |
| 15° | 28981 | 25488 | 22724 |
| 20° | 28894 | 24251 | 21097 |
| 25° | 28179 | 22680 | 19363 |
| 30° | 26698 | 20858 | 17771 |
| 35° | 24288 | 18875 | 16149 |
| 40° | 21335 | 16790 | 14592 |
| 45° | 18604 | 14766 | 13004 |
| 50° | 16186 | 12938 | 11456 |
| 55° | 14440 | 11371 | 9962  |
| 60° | 13118 | 9966  | 8505  |
| 65° | 11791 | 8668  | 7720  |
| 70° | 10495 | 7384  | 6960  |
| 75° | 9198  | 6231  | 5945  |
| 80° | 7813  | 5079  | 5292  |
| 85° | 5873  | 3786  | 4210  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.0   | 5.1       |
| 10°-20°   | 226.0  | 14.0      |
| 20°-30°   | 313.7  | 19.4      |
| 30°-40°   | 324.3  | 20.1      |
| 40°-50°   | 271.6  | 16.8      |
| 50°-60°   | 197.1  | 12.2      |
| 60°-70°   | 124.4  | 7.7       |
| 70°-80°   | 61.6   | 3.8       |
| 80°-90°   | 15.3   | 0.9       |
| 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°    | 621.7  | 38.5      |
| 0°-40°    | 946.1  | 58.5      |
| 0°-60°    | 1414.8 | 87.5      |
| 0°-90°    | 1616.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1616.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 876 | 876 | 876 | 876  | 876  |      |
| 5°  | 903 | 892 | 867 | 844  | 833  | 86   |
| 15° | 908 | 873 | 798 | 734  | 712  | 255  |
| 25° | 828 | 775 | 667 | 594  | 569  | 380  |
| 35° | 645 | 598 | 501 | 444  | 429  | 402  |
| 45° | 427 | 396 | 339 | 305  | 298  | 330  |
| 55° | 269 | 245 | 212 | 194  | 185  | 242  |
| 65° | 162 | 141 | 119 | 105  | 106  | 161  |
| 75° | 77  | 64  | 52  | 50   | 50   | 83   |
| 85° | 17  | 13  | 11  | 12   | 12   | 20   |
| 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°    | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 |
| 2.5°  | 890.0 | 890.0 | 891.2 | 890.0 | 890.0 | 890.0 | 888.8 | 888.8 | 887.6 | 887.6 | 885.2 |
| 5°    | 903.0 | 900.6 | 903.0 | 900.6 | 900.6 | 900.6 | 899.5 | 897.1 | 895.9 | 893.5 | 892.3 |
| 7.5°  | 908.9 | 907.8 | 907.8 | 906.6 | 906.6 | 905.4 | 904.2 | 903.0 | 898.3 | 897.1 | 893.5 |
| 10°   | 912.5 | 911.3 | 911.3 | 910.1 | 907.8 | 907.8 | 905.4 | 904.2 | 898.3 | 895.9 | 891.2 |
| 12.5° | 911.3 | 911.3 | 911.3 | 910.1 | 906.6 | 905.4 | 903.0 | 899.5 | 894.7 | 890.0 | 885.2 |
| 15°   | 907.8 | 907.8 | 905.4 | 904.2 | 900.6 | 898.3 | 897.1 | 891.2 | 886.4 | 880.5 | 873.4 |
| 17.5° | 895.9 | 895.9 | 894.7 | 892.3 | 888.8 | 886.4 | 884.0 | 878.1 | 873.4 | 863.9 | 856.8 |
| 20°   | 880.5 | 879.3 | 878.1 | 874.6 | 871.0 | 869.8 | 866.3 | 857.8 | 851.9 | 844.8 | 835.3 |
| 22.5° | 857.8 | 856.8 | 855.6 | 853.1 | 847.2 | 844.8 | 842.4 | 836.5 | 825.8 | 818.7 | 806.7 |
| 25°   | 828.2 | 828.2 | 825.8 | 822.3 | 816.3 | 814.0 | 810.4 | 804.5 | 794.9 | 784.2 | 774.7 |
| 27.5° | 793.7 | 792.5 | 789.0 | 786.6 | 781.8 | 778.3 | 772.4 | 765.2 | 755.7 | 747.3 | 735.5 |
| 30°   | 749.8 | 749.8 | 747.3 | 743.8 | 737.9 | 735.5 | 730.7 | 722.4 | 712.9 | 702.3 | 694.0 |
| 32.5° | 699.9 | 699.9 | 696.2 | 694.0 | 690.3 | 684.4 | 683.2 | 673.7 | 665.4 | 657.1 | 647.6 |
| 35°   | 645.2 | 646.4 | 644.1 | 639.3 | 633.3 | 633.3 | 630.9 | 622.6 | 613.1 | 604.8 | 597.7 |
| 37.5° | 590.6 | 587.0 | 585.8 | 583.5 | 579.8 | 575.1 | 572.7 | 569.1 | 560.8 | 554.9 | 544.2 |
| 40°   | 530.0 | 531.2 | 528.8 | 526.3 | 525.1 | 521.6 | 520.4 | 514.5 | 508.5 | 501.4 | 496.7 |
| 42.5° | 475.3 | 475.3 | 475.3 | 473.0 | 470.6 | 466.9 | 465.7 | 462.2 | 455.1 | 450.3 | 443.2 |
| 45°   | 426.6 | 423.0 | 423.0 | 421.9 | 420.7 | 418.3 | 414.6 | 412.4 | 407.5 | 404.0 | 395.7 |
| 47.5° | 379.1 | 380.2 | 379.1 | 377.9 | 374.3 | 373.1 | 371.9 | 367.2 | 362.5 | 358.8 | 352.9 |
| 50°   | 337.4 | 339.8 | 337.4 | 337.4 | 335.1 | 333.9 | 331.5 | 328.0 | 324.4 | 318.5 | 312.5 |
| 52.5° | 302.9 | 302.9 | 301.9 | 300.6 | 297.0 | 294.6 | 293.5 | 292.3 | 286.3 | 281.6 | 276.9 |
| 55°   | 268.6 | 269.7 | 269.7 | 266.2 | 265.0 | 262.6 | 261.4 | 257.9 | 255.5 | 248.4 | 244.7 |
| 57.5° | 238.8 | 237.6 | 238.8 | 236.4 | 234.1 | 231.7 | 230.5 | 228.1 | 224.6 | 219.8 | 215.1 |
| 60°   | 212.7 | 210.3 | 210.3 | 209.1 | 206.8 | 205.6 | 203.2 | 199.7 | 196.1 | 191.4 | 187.7 |
| 62.5° | 186.5 | 185.3 | 184.1 | 183.0 | 180.6 | 179.4 | 178.2 | 174.7 | 171.1 | 167.5 | 164.0 |
| 65°   | 161.6 | 161.6 | 160.4 | 158.0 | 156.9 | 155.7 | 154.5 | 152.1 | 147.4 | 145.0 | 141.3 |
| 67.5° | 139.1 | 137.9 | 137.9 | 135.4 | 133.0 | 131.9 | 131.9 | 129.5 | 125.9 | 122.4 | 120.0 |
| 70°   | 116.4 | 117.6 | 116.4 | 115.2 | 112.9 | 112.9 | 110.5 | 109.3 | 104.6 | 103.4 | 99.8  |
| 72.5° | 96.3  | 96.3  | 95.1  | 95.1  | 92.7  | 91.5  | 91.5  | 89.2  | 86.8  | 84.4  | 81.9  |
| 75°   | 77.2  | 77.2  | 77.2  | 76.0  | 74.8  | 72.5  | 72.5  | 71.3  | 68.9  | 66.5  | 64.1  |
| 77.5° | 60.6  | 59.4  | 59.4  | 58.2  | 57.0  | 55.8  | 55.8  | 54.7  | 52.3  | 51.1  | 48.7  |
| 80°   | 44.0  | 42.8  | 42.8  | 42.8  | 40.4  | 41.6  | 40.4  | 39.2  | 38.1  | 36.9  | 35.7  |
| 82.5° | 28.6  | 29.8  | 29.8  | 28.6  | 27.4  | 27.4  | 27.4  | 26.1  | 26.1  | 24.9  | 23.7  |
| 85°   | 16.6  | 16.6  | 16.6  | 16.6  | 15.4  | 15.4  | 15.4  | 14.2  | 14.2  | 14.2  | 13.0  |
| 87.5° | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 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°    | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 |
| 2.5°  | 885.2 | 882.9 | 881.7 | 880.5 | 880.5 | 879.3 | 878.1 | 875.7 | 875.7 | 873.4 | 872.2 |
| 5°    | 890.0 | 886.4 | 884.0 | 881.7 | 880.5 | 878.1 | 875.7 | 872.2 | 871.0 | 867.4 | 863.9 |
| 7.5°  | 891.2 | 885.2 | 882.9 | 878.1 | 875.7 | 873.4 | 868.6 | 865.1 | 860.2 | 856.8 | 851.9 |
| 10°   | 886.4 | 881.7 | 875.7 | 869.8 | 868.6 | 865.1 | 857.8 | 853.1 | 847.2 | 842.4 | 835.3 |
| 12.5° | 879.3 | 872.2 | 866.3 | 859.0 | 855.6 | 851.9 | 844.8 | 837.7 | 829.4 | 821.1 | 814.0 |
| 15°   | 867.4 | 859.0 | 850.7 | 842.4 | 837.7 | 834.1 | 825.8 | 817.5 | 809.2 | 798.4 | 791.3 |
| 17.5° | 849.5 | 840.1 | 831.8 | 821.1 | 816.3 | 812.8 | 802.0 | 792.5 | 781.8 | 771.2 | 764.0 |
| 20°   | 827.0 | 815.1 | 805.7 | 793.7 | 790.1 | 784.2 | 773.5 | 762.9 | 751.0 | 739.0 | 730.7 |
| 22.5° | 797.3 | 785.4 | 774.7 | 762.9 | 756.9 | 751.0 | 740.2 | 727.2 | 715.3 | 705.8 | 697.5 |
| 25°   | 762.9 | 752.2 | 739.0 | 728.4 | 721.2 | 714.1 | 702.3 | 691.5 | 680.8 | 666.6 | 658.3 |
| 27.5° | 724.8 | 711.8 | 702.3 | 687.9 | 680.8 | 676.1 | 663.0 | 648.8 | 639.3 | 626.2 | 616.7 |
| 30°   | 682.0 | 670.1 | 659.5 | 645.2 | 638.0 | 633.3 | 621.4 | 608.4 | 598.9 | 585.8 | 576.2 |
| 32.5° | 636.8 | 623.8 | 610.7 | 601.3 | 593.0 | 588.2 | 575.1 | 566.8 | 554.9 | 544.2 | 533.5 |
| 35°   | 588.2 | 575.1 | 565.6 | 552.5 | 547.8 | 543.0 | 532.4 | 521.6 | 510.9 | 501.4 | 493.1 |
| 37.5° | 535.9 | 526.3 | 515.7 | 506.2 | 502.6 | 497.9 | 484.8 | 475.3 | 466.9 | 457.4 | 450.3 |
| 40°   | 484.8 | 476.5 | 469.3 | 459.8 | 453.9 | 450.3 | 440.8 | 432.5 | 423.0 | 417.1 | 409.9 |
| 42.5° | 438.5 | 429.0 | 421.9 | 414.6 | 408.7 | 405.2 | 396.9 | 390.9 | 383.8 | 377.9 | 369.6 |
| 45°   | 389.7 | 385.0 | 376.7 | 370.8 | 367.2 | 362.5 | 356.4 | 349.3 | 343.4 | 338.6 | 332.7 |
| 47.5° | 346.9 | 342.2 | 336.3 | 329.1 | 326.8 | 323.2 | 317.3 | 312.5 | 307.8 | 302.9 | 297.0 |
| 50°   | 307.8 | 301.9 | 297.0 | 292.3 | 289.9 | 286.3 | 280.4 | 278.0 | 274.5 | 269.7 | 266.2 |
| 52.5° | 272.1 | 267.4 | 262.6 | 256.7 | 255.5 | 253.0 | 249.6 | 244.7 | 241.2 | 238.8 | 236.4 |
| 55°   | 240.0 | 235.2 | 231.7 | 226.9 | 225.8 | 223.4 | 218.6 | 216.3 | 213.9 | 211.5 | 209.1 |
| 57.5° | 211.5 | 206.8 | 202.0 | 199.7 | 197.3 | 194.8 | 193.6 | 190.1 | 187.7 | 186.5 | 184.1 |
| 60°   | 185.3 | 180.6 | 177.0 | 173.5 | 172.3 | 171.1 | 168.7 | 166.4 | 164.0 | 161.6 | 160.4 |
| 62.5° | 160.4 | 155.7 | 153.3 | 150.9 | 148.6 | 148.6 | 146.2 | 143.8 | 141.3 | 140.3 | 137.9 |
| 65°   | 137.9 | 135.4 | 131.9 | 128.3 | 127.1 | 127.1 | 123.6 | 122.4 | 121.2 | 118.8 | 116.4 |
| 67.5° | 116.4 | 114.1 | 110.5 | 109.3 | 108.1 | 106.9 | 105.8 | 103.4 | 101.0 | 99.8  | 97.5  |
| 70°   | 97.5  | 95.1  | 92.7  | 91.5  | 90.3  | 89.2  | 86.8  | 85.6  | 83.1  | 81.9  | 80.9  |
| 72.5° | 78.4  | 77.2  | 74.8  | 73.6  | 72.5  | 71.3  | 70.1  | 68.9  | 66.5  | 65.3  | 64.1  |
| 75°   | 63.0  | 61.8  | 59.4  | 58.2  | 57.0  | 57.0  | 55.8  | 53.5  | 52.3  | 52.3  | 51.1  |
| 77.5° | 47.5  | 46.4  | 45.2  | 44.0  | 42.8  | 42.8  | 41.6  | 40.4  | 39.2  | 39.2  | 38.1  |
| 80°   | 34.5  | 33.3  | 32.1  | 32.1  | 32.1  | 30.8  | 29.8  | 29.8  | 28.6  | 28.6  | 27.4  |
| 82.5° | 22.5  | 22.5  | 21.3  | 21.3  | 21.3  | 20.2  | 20.2  | 19.0  | 19.0  | 19.0  | 19.0  |
| 85°   | 13.0  | 13.0  | 13.0  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 10.7  | 11.9  |
| 87.5° | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 4.7   | 4.7   | 4.7   |
| 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°    | 875.7 | 875.7 | 875.7 | 875.7  | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 |
| 2.5°  | 871.0 | 869.8 | 867.4 | 867.4  | 865.1 | 865.1 | 863.9 | 862.7 | 861.5 | 860.2 | 859.0 |
| 5°    | 862.7 | 857.8 | 855.6 | 854.3  | 851.9 | 850.7 | 847.2 | 844.8 | 843.6 | 841.2 | 838.9 |
| 7.5°  | 847.2 | 842.4 | 837.7 | 836.5  | 835.3 | 830.6 | 827.0 | 823.5 | 821.1 | 818.7 | 816.3 |
| 10°   | 829.4 | 824.6 | 818.7 | 816.3  | 814.0 | 808.0 | 803.3 | 799.6 | 794.9 | 790.1 | 789.0 |
| 12.5° | 808.0 | 800.8 | 793.7 | 791.3  | 787.8 | 781.8 | 777.1 | 771.2 | 767.6 | 761.7 | 760.5 |
| 15°   | 783.0 | 774.7 | 768.8 | 762.9  | 760.5 | 754.6 | 746.3 | 741.4 | 734.3 | 731.9 | 726.0 |
| 17.5° | 753.4 | 745.1 | 736.7 | 734.3  | 730.7 | 722.4 | 714.1 | 708.2 | 701.1 | 697.5 | 694.0 |
| 20°   | 722.4 | 711.8 | 703.5 | 701.1  | 696.2 | 689.1 | 680.8 | 674.9 | 669.0 | 661.8 | 658.3 |
| 22.5° | 686.8 | 674.9 | 667.8 | 661.8  | 660.7 | 652.4 | 642.9 | 638.0 | 633.3 | 627.3 | 622.6 |
| 25°   | 647.6 | 636.8 | 628.5 | 623.8  | 621.4 | 614.3 | 607.2 | 601.3 | 594.1 | 590.6 | 584.7 |
| 27.5° | 607.2 | 600.1 | 589.4 | 584.7  | 581.1 | 575.1 | 566.8 | 563.2 | 556.1 | 551.3 | 547.8 |
| 30°   | 567.9 | 557.3 | 551.3 | 545.4  | 541.9 | 535.9 | 528.8 | 525.1 | 519.2 | 514.5 | 510.9 |
| 32.5° | 525.1 | 518.0 | 509.7 | 507.4  | 502.6 | 496.7 | 491.9 | 486.0 | 481.3 | 476.5 | 475.3 |
| 35°   | 486.0 | 476.5 | 468.1 | 465.7  | 462.2 | 456.3 | 453.9 | 450.3 | 444.4 | 443.2 | 438.5 |
| 37.5° | 443.2 | 438.5 | 429.0 | 425.4  | 424.2 | 419.5 | 414.6 | 412.4 | 408.7 | 405.2 | 404.0 |
| 40°   | 402.8 | 396.9 | 392.1 | 388.5  | 386.2 | 382.6 | 377.9 | 376.7 | 374.3 | 369.6 | 368.4 |
| 42.5° | 364.8 | 358.8 | 354.1 | 352.9  | 349.3 | 345.7 | 343.4 | 339.8 | 338.6 | 337.4 | 335.1 |
| 45°   | 328.0 | 324.4 | 319.7 | 318.5  | 317.3 | 312.5 | 310.2 | 307.8 | 305.3 | 304.1 | 301.9 |
| 47.5° | 294.6 | 291.1 | 287.5 | 286.3  | 284.0 | 282.8 | 279.2 | 278.0 | 274.5 | 273.3 | 272.1 |
| 50°   | 262.6 | 260.3 | 257.9 | 256.7  | 254.3 | 253.0 | 250.8 | 248.4 | 245.9 | 244.7 | 243.5 |
| 52.5° | 234.1 | 231.7 | 229.3 | 228.1  | 226.9 | 224.6 | 222.2 | 219.8 | 218.6 | 217.5 | 216.3 |
| 55°   | 206.8 | 204.4 | 203.2 | 202.0  | 200.8 | 199.7 | 196.1 | 194.8 | 193.6 | 192.4 | 190.1 |
| 57.5° | 181.8 | 179.4 | 177.0 | 177.0  | 175.8 | 174.7 | 172.3 | 169.9 | 169.9 | 167.5 | 165.2 |
| 60°   | 159.2 | 156.9 | 154.5 | 153.3  | 152.1 | 149.7 | 148.6 | 147.4 | 146.2 | 145.0 | 142.6 |
| 62.5° | 135.4 | 134.2 | 131.9 | 131.9  | 129.5 | 128.3 | 127.1 | 125.9 | 124.7 | 122.4 | 121.2 |
| 65°   | 115.2 | 114.1 | 111.7 | 110.5  | 110.5 | 109.3 | 106.9 | 105.8 | 104.6 | 104.6 | 103.4 |
| 67.5° | 96.3  | 95.1  | 92.7  | 91.5   | 91.5  | 90.3  | 89.2  | 89.2  | 88.0  | 86.8  | 88.0  |
| 70°   | 79.7  | 77.2  | 77.2  | 76.0   | 76.0  | 74.8  | 73.6  | 73.6  | 73.6  | 74.8  | 74.8  |
| 72.5° | 63.0  | 61.8  | 60.6  | 60.6   | 60.6  | 60.6  | 59.4  | 59.4  | 60.6  | 61.8  | 61.8  |
| 75°   | 49.9  | 48.7  | 48.7  | 48.7   | 47.5  | 47.5  | 48.7  | 48.7  | 49.9  | 49.9  | 49.9  |
| 77.5° | 36.9  | 36.9  | 36.9  | 36.9   | 36.9  | 36.9  | 38.1  | 38.1  | 39.2  | 39.2  | 39.2  |
| 80°   | 27.4  | 27.4  | 27.4  | 27.4   | 27.4  | 28.6  | 28.6  | 28.6  | 28.6  | 28.6  | 29.8  |
| 82.5° | 19.0  | 19.0  | 19.0  | 19.0   | 19.0  | 19.0  | 19.0  | 20.2  | 20.2  | 20.2  | 20.2  |
| 85°   | 10.7  | 11.9  | 11.9  | 11.9   | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  |
| 87.5° | 4.7   | 4.7   | 4.7   | 4.7    | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P583897

CATALOG NUMBER: HCC8W15D010MB-HM80520840-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 875.7 | 875.7 | 875.7  | 875.7 | 875.7 | 875.7 | 875.7 | 875.7 |
| 2.5°  | 857.8 | 857.8 | 857.8  | 859.0 | 856.8 | 856.8 | 856.8 | 856.8 |
| 5°    | 837.7 | 836.5 | 835.3  | 836.5 | 834.1 | 834.1 | 832.9 | 832.9 |
| 7.5°  | 812.8 | 811.6 | 810.4  | 810.4 | 808.0 | 808.0 | 806.7 | 805.7 |
| 10°   | 785.4 | 783.0 | 784.2  | 781.8 | 780.7 | 779.5 | 778.3 | 777.1 |
| 12.5° | 755.7 | 753.4 | 752.2  | 749.8 | 747.3 | 746.3 | 747.3 | 745.1 |
| 15°   | 723.6 | 720.1 | 718.9  | 716.5 | 714.1 | 712.9 | 712.9 | 711.8 |
| 17.5° | 687.9 | 685.6 | 684.4  | 682.0 | 680.8 | 678.5 | 677.3 | 676.1 |
| 20°   | 654.7 | 648.8 | 650.0  | 647.6 | 646.4 | 641.7 | 641.7 | 642.9 |
| 22.5° | 617.9 | 614.3 | 611.9  | 609.6 | 608.4 | 606.0 | 606.0 | 604.8 |
| 25°   | 581.1 | 577.4 | 576.2  | 573.9 | 572.7 | 570.3 | 569.1 | 569.1 |
| 27.5° | 545.4 | 540.7 | 540.7  | 538.3 | 535.9 | 534.7 | 533.5 | 532.4 |
| 30°   | 507.4 | 503.8 | 502.6  | 502.6 | 501.4 | 501.4 | 497.9 | 499.1 |
| 32.5° | 471.8 | 469.3 | 468.1  | 465.7 | 465.7 | 464.6 | 464.6 | 461.0 |
| 35°   | 436.1 | 432.5 | 433.7  | 431.3 | 430.2 | 429.0 | 430.2 | 429.0 |
| 37.5° | 401.6 | 399.2 | 399.2  | 396.9 | 396.9 | 395.7 | 394.5 | 396.9 |
| 40°   | 367.2 | 366.0 | 364.8  | 363.5 | 364.8 | 363.5 | 361.3 | 362.5 |
| 42.5° | 332.7 | 332.7 | 331.5  | 331.5 | 330.3 | 330.3 | 330.3 | 330.3 |
| 45°   | 301.9 | 300.6 | 300.6  | 299.4 | 299.4 | 299.4 | 299.4 | 298.2 |
| 47.5° | 270.9 | 269.7 | 269.7  | 269.7 | 268.6 | 268.6 | 267.4 | 268.6 |
| 50°   | 241.2 | 241.2 | 240.0  | 240.0 | 241.2 | 240.0 | 238.8 | 238.8 |
| 52.5° | 213.9 | 213.9 | 212.7  | 212.7 | 211.5 | 210.3 | 211.5 | 211.5 |
| 55°   | 188.9 | 187.7 | 186.5  | 186.5 | 185.3 | 184.1 | 184.1 | 185.3 |
| 57.5° | 165.2 | 164.0 | 162.8  | 162.8 | 160.4 | 159.2 | 159.2 | 159.2 |
| 60°   | 142.6 | 140.3 | 140.3  | 139.1 | 139.1 | 137.9 | 137.9 | 137.9 |
| 62.5° | 121.2 | 120.0 | 120.0  | 120.0 | 120.0 | 118.8 | 118.8 | 118.8 |
| 65°   | 103.4 | 103.4 | 103.4  | 104.6 | 104.6 | 105.8 | 105.8 | 105.8 |
| 67.5° | 89.2  | 90.3  | 90.3   | 90.3  | 91.5  | 91.5  | 91.5  | 90.3  |
| 70°   | 76.0  | 76.0  | 76.0   | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  |
| 72.5° | 63.0  | 63.0  | 63.0   | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  |
| 75°   | 49.9  | 51.1  | 51.1   | 51.1  | 49.9  | 51.1  | 51.1  | 49.9  |
| 77.5° | 39.2  | 39.2  | 39.2   | 39.2  | 39.2  | 39.2  | 39.2  | 39.2  |
| 80°   | 29.8  | 29.8  | 29.8   | 29.8  | 29.8  | 29.8  | 29.8  | 29.8  |
| 82.5° | 20.2  | 20.2  | 20.2   | 20.2  | 20.2  | 20.2  | 20.2  | 20.2  |
| 85°   | 11.9  | 11.9  | 11.9   | 11.9  | 11.9  | 11.9  | 11.9  | 11.9  |
| 87.5° | 4.7   | 4.7   | 4.7    | 4.7   | 4.7   | 4.7   | 4.7   | 4.7   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

Classified  
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)