

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: P584062

Luminaire Tested: **HCC8S20D010MW-HM80520930-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010MW-HM80520930-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

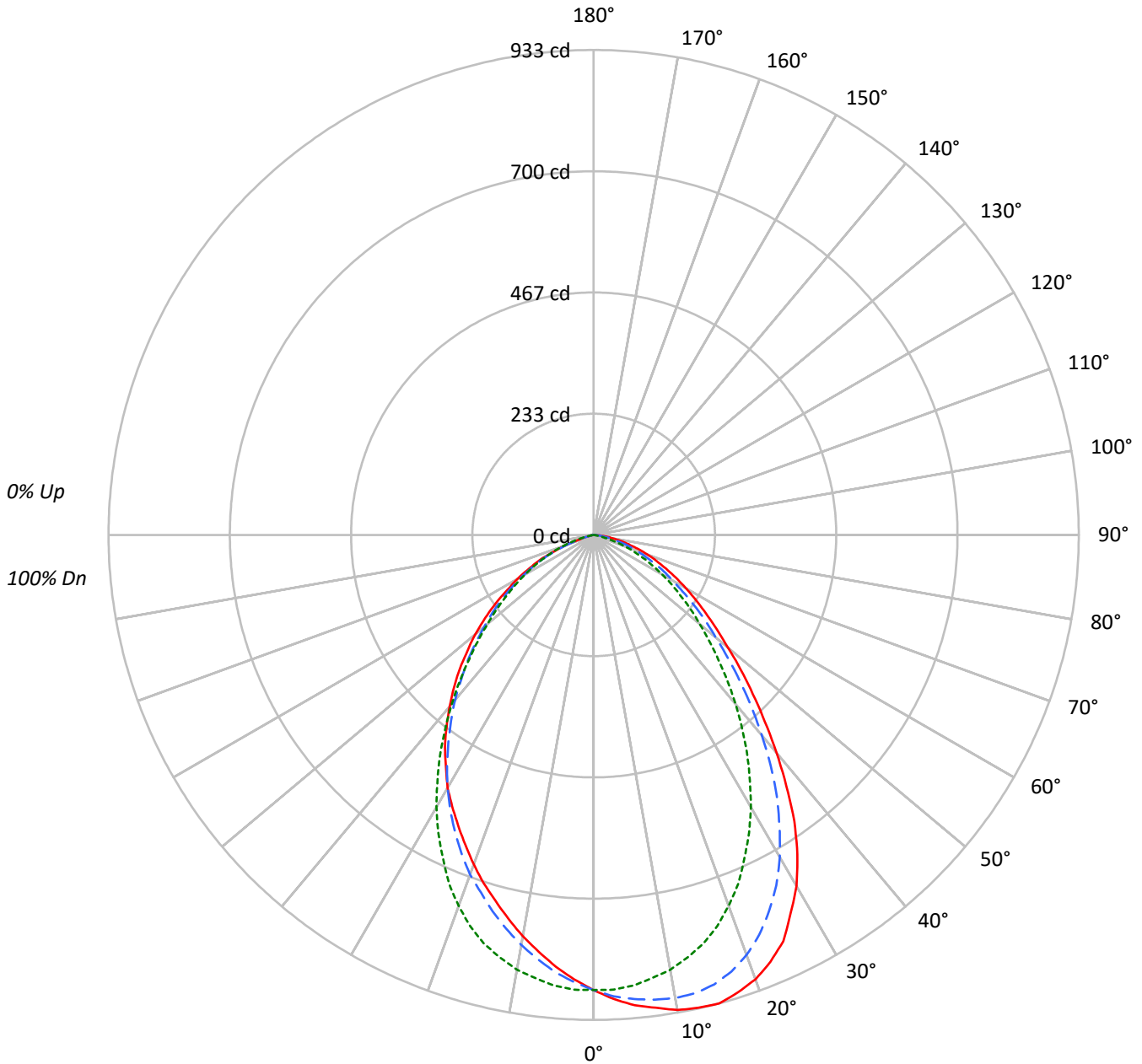
Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): 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: P584062
CATALOG NUMBER: HCC8S20D010MW-HM80520930-81WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P584062

CATALOG NUMBER: HCC8S20D010MW-HM80520930-81WWBB

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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 27000 | 27000 | 27000 |
| 5° | 28119 | 26942 | 25810 |
| 10° | 29058 | 26600 | 24549 |
| 15° | 29792 | 25993 | 23276 |
| 20° | 29852 | 24913 | 22121 |
| 25° | 29346 | 23337 | 20976 |
| 30° | 27777 | 21531 | 19997 |
| 35° | 25327 | 19364 | 18773 |
| 40° | 22023 | 17072 | 17333 |
| 45° | 18891 | 14783 | 15865 |
| 50° | 16138 | 12746 | 14258 |
| 55° | 14145 | 10973 | 12387 |
| 60° | 12587 | 9368 | 10410 |
| 65° | 11178 | 7639 | 8303 |
| 70° | 9909 | 5671 | 4724 |
| 75° | 8268 | 2955 | 1406 |
| 80° | 6499 | 923 | 231 |
| 85° | 4635 | 460 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.5 | 5.1 |
| 10°-20° | 231.3 | 14.2 |
| 20°-30° | 327.3 | 20.1 |
| 30°-40° | 342.4 | 21.0 |
| 40°-50° | 285.6 | 17.5 |
| 50°-60° | 202.5 | 12.4 |
| 60°-70° | 116.6 | 7.2 |
| 70°-80° | 37.5 | 2.3 |
| 80°-90° | 5.2 | 0.3 |
| 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° | 641.1 | 39.3 |
| 0°-40° | 983.5 | 60.3 |
| 0°-60° | 1471.7 | 90.2 |
| 0°-90° | 1631.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1631.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 876 | 876 | 876 | 876 | 876 | |
| 5° | 908 | 896 | 870 | 844 | 834 | 87 |
| 15° | 933 | 895 | 814 | 750 | 729 | 262 |
| 25° | 862 | 798 | 686 | 631 | 616 | 394 |
| 35° | 673 | 614 | 514 | 487 | 499 | 417 |
| 45° | 433 | 398 | 339 | 343 | 364 | 336 |
| 55° | 263 | 236 | 204 | 215 | 230 | 238 |
| 65° | 153 | 128 | 105 | 105 | 114 | 153 |
| 75° | 69 | 51 | 25 | 12 | 12 | 75 |
| 85° | 13 | 6 | 1 | 0 | 0 | 16 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P584062

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 |
| 2.5° | 893.9 | 892.6 | 891.3 | 892.6 | 891.3 | 892.6 | 891.3 | 891.3 | 890.0 | 888.7 | 888.7 |
| 5° | 908.4 | 907.1 | 907.1 | 907.1 | 905.8 | 904.5 | 904.5 | 903.2 | 900.6 | 899.3 | 896.5 |
| 7.5° | 917.6 | 918.9 | 918.9 | 918.9 | 916.2 | 916.2 | 913.6 | 911.0 | 908.4 | 905.8 | 901.9 |
| 10° | 928.0 | 928.0 | 926.7 | 925.4 | 922.8 | 921.5 | 920.2 | 917.6 | 913.6 | 908.4 | 904.5 |
| 12.5° | 931.9 | 931.9 | 930.6 | 928.0 | 926.7 | 925.4 | 924.1 | 920.2 | 914.9 | 908.4 | 903.2 |
| 15° | 933.2 | 930.6 | 929.3 | 928.0 | 925.4 | 921.5 | 921.5 | 916.2 | 909.7 | 901.9 | 895.2 |
| 17.5° | 922.8 | 924.1 | 921.5 | 918.9 | 914.9 | 912.3 | 908.4 | 904.5 | 896.5 | 887.4 | 880.8 |
| 20° | 909.7 | 908.4 | 907.1 | 903.2 | 897.8 | 896.5 | 892.6 | 886.1 | 879.5 | 869.1 | 859.9 |
| 22.5° | 888.7 | 887.4 | 884.8 | 882.2 | 876.9 | 874.3 | 870.4 | 862.5 | 853.4 | 842.9 | 832.5 |
| 25° | 862.5 | 859.9 | 856.0 | 850.8 | 846.9 | 844.2 | 839.0 | 831.2 | 820.7 | 808.8 | 798.4 |
| 27.5° | 820.7 | 824.6 | 822.0 | 814.2 | 810.3 | 804.9 | 803.6 | 793.2 | 784.0 | 772.2 | 760.5 |
| 30° | 780.1 | 780.1 | 776.2 | 772.2 | 765.7 | 761.8 | 756.5 | 748.7 | 739.6 | 725.2 | 715.9 |
| 32.5° | 729.1 | 727.8 | 722.6 | 721.3 | 715.9 | 708.1 | 706.8 | 696.3 | 687.2 | 676.7 | 664.9 |
| 35° | 672.8 | 670.2 | 664.9 | 661.0 | 658.4 | 654.5 | 650.6 | 641.4 | 632.3 | 621.7 | 613.8 |
| 37.5° | 608.6 | 608.6 | 607.3 | 600.8 | 598.2 | 595.5 | 591.6 | 582.5 | 577.2 | 566.8 | 558.8 |
| 40° | 547.1 | 545.8 | 541.8 | 540.5 | 537.9 | 534.0 | 531.4 | 526.2 | 518.3 | 510.5 | 502.6 |
| 42.5° | 486.9 | 488.2 | 483.0 | 484.3 | 479.1 | 476.5 | 475.2 | 467.2 | 463.3 | 455.5 | 448.9 |
| 45° | 433.2 | 431.9 | 429.3 | 428.0 | 425.4 | 422.8 | 420.2 | 416.2 | 409.7 | 401.9 | 397.9 |
| 47.5° | 383.6 | 379.5 | 379.5 | 378.2 | 376.9 | 371.7 | 370.4 | 366.5 | 362.5 | 354.7 | 349.5 |
| 50° | 336.4 | 336.4 | 336.4 | 335.1 | 331.2 | 329.9 | 327.2 | 323.3 | 319.4 | 314.2 | 306.3 |
| 52.5° | 298.5 | 298.5 | 298.5 | 297.2 | 291.8 | 290.5 | 289.2 | 284.0 | 278.8 | 274.8 | 269.6 |
| 55° | 263.1 | 264.4 | 263.1 | 260.5 | 256.5 | 256.5 | 252.6 | 250.0 | 244.8 | 240.9 | 235.6 |
| 57.5° | 233.0 | 233.0 | 230.4 | 229.1 | 226.5 | 225.2 | 222.5 | 219.9 | 213.4 | 209.5 | 202.8 |
| 60° | 204.1 | 202.8 | 202.8 | 200.2 | 197.6 | 195.0 | 193.7 | 189.8 | 187.2 | 180.6 | 175.4 |
| 62.5° | 178.0 | 178.0 | 175.4 | 175.4 | 170.2 | 170.2 | 168.8 | 164.9 | 161.0 | 154.5 | 151.9 |
| 65° | 153.2 | 153.2 | 151.9 | 150.5 | 146.6 | 145.3 | 144.0 | 140.1 | 136.2 | 132.1 | 128.2 |
| 67.5° | 130.8 | 130.8 | 128.2 | 126.9 | 124.3 | 123.0 | 120.4 | 117.8 | 113.8 | 109.9 | 106.0 |
| 70° | 109.9 | 108.6 | 107.3 | 106.0 | 103.4 | 102.1 | 99.5 | 96.8 | 92.9 | 90.3 | 86.4 |
| 72.5° | 89.0 | 89.0 | 87.7 | 85.1 | 83.8 | 82.5 | 81.2 | 78.5 | 74.6 | 70.7 | 68.1 |
| 75° | 69.4 | 69.4 | 69.4 | 66.8 | 64.2 | 62.9 | 62.9 | 60.2 | 57.6 | 53.7 | 51.1 |
| 77.5° | 53.7 | 52.4 | 51.1 | 51.1 | 48.5 | 47.2 | 45.9 | 44.4 | 40.5 | 39.2 | 36.6 |
| 80° | 36.6 | 37.9 | 36.6 | 35.3 | 34.0 | 32.7 | 32.7 | 30.1 | 28.8 | 26.1 | 23.5 |
| 82.5° | 24.8 | 23.5 | 23.5 | 22.2 | 22.2 | 20.9 | 20.9 | 18.3 | 17.0 | 15.7 | 14.4 |
| 85° | 13.1 | 13.1 | 11.8 | 11.8 | 11.8 | 10.5 | 10.5 | 9.2 | 9.2 | 7.8 | 6.5 |
| 87.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.6 | 2.6 | 2.6 |
| 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° | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 |
| 2.5° | 887.4 | 884.8 | 883.5 | 883.5 | 882.2 | 880.8 | 879.5 | 878.2 | 875.6 | 875.6 | 873.0 |
| 5° | 893.9 | 891.3 | 890.0 | 886.1 | 883.5 | 883.5 | 878.2 | 876.9 | 873.0 | 870.4 | 867.8 |
| 7.5° | 899.3 | 893.9 | 890.0 | 886.1 | 883.5 | 880.8 | 875.6 | 870.4 | 865.2 | 859.9 | 857.3 |
| 10° | 899.3 | 893.9 | 887.4 | 880.8 | 878.2 | 875.6 | 869.1 | 861.2 | 854.7 | 849.5 | 842.9 |
| 12.5° | 896.5 | 888.7 | 880.8 | 875.6 | 870.4 | 866.5 | 858.6 | 850.8 | 842.9 | 832.5 | 827.2 |
| 15° | 888.7 | 878.2 | 870.4 | 861.2 | 857.3 | 850.8 | 844.2 | 832.5 | 823.3 | 814.2 | 807.5 |
| 17.5° | 873.0 | 859.9 | 850.8 | 841.6 | 835.1 | 831.2 | 820.7 | 810.3 | 799.7 | 789.2 | 781.4 |
| 20° | 849.5 | 837.7 | 827.2 | 815.5 | 810.3 | 804.9 | 791.8 | 781.4 | 770.9 | 759.2 | 751.3 |
| 22.5° | 820.7 | 808.8 | 794.5 | 785.3 | 777.5 | 770.9 | 759.2 | 747.4 | 736.9 | 726.5 | 715.9 |
| 25° | 785.3 | 773.5 | 760.5 | 746.1 | 740.9 | 734.3 | 721.3 | 709.4 | 697.6 | 685.9 | 676.7 |
| 27.5° | 747.4 | 731.7 | 721.3 | 705.5 | 700.2 | 693.7 | 679.3 | 666.2 | 655.8 | 646.6 | 636.2 |
| 30° | 701.5 | 689.8 | 675.4 | 661.0 | 655.8 | 649.2 | 637.5 | 625.6 | 615.2 | 604.7 | 594.2 |
| 32.5° | 651.9 | 640.1 | 625.6 | 615.2 | 607.3 | 602.1 | 590.3 | 579.9 | 569.4 | 558.8 | 549.7 |
| 35° | 599.5 | 586.4 | 575.9 | 565.5 | 558.8 | 552.3 | 540.5 | 531.4 | 523.5 | 514.4 | 505.2 |
| 37.5° | 545.8 | 536.6 | 526.2 | 514.4 | 507.9 | 502.6 | 493.5 | 483.0 | 476.5 | 468.5 | 462.0 |
| 40° | 493.5 | 483.0 | 473.9 | 463.3 | 458.1 | 454.2 | 445.0 | 437.2 | 430.6 | 424.1 | 420.2 |
| 42.5° | 439.8 | 430.6 | 421.5 | 414.9 | 411.0 | 407.1 | 400.5 | 391.4 | 387.5 | 380.8 | 376.9 |
| 45° | 390.1 | 382.1 | 375.6 | 366.5 | 363.8 | 361.2 | 353.4 | 346.8 | 342.9 | 339.0 | 336.4 |
| 47.5° | 342.9 | 337.7 | 329.9 | 324.6 | 320.7 | 318.1 | 312.9 | 307.6 | 303.7 | 301.1 | 298.5 |
| 50° | 302.4 | 295.9 | 290.5 | 285.3 | 282.7 | 278.8 | 273.5 | 270.9 | 268.3 | 265.7 | 265.7 |
| 52.5° | 264.4 | 257.8 | 252.6 | 248.7 | 246.1 | 243.5 | 239.5 | 238.2 | 235.6 | 235.6 | 234.3 |
| 55° | 229.1 | 225.2 | 219.9 | 214.7 | 213.4 | 212.1 | 209.5 | 206.8 | 205.5 | 204.1 | 205.5 |
| 57.5° | 198.9 | 195.0 | 189.8 | 185.8 | 184.5 | 183.2 | 181.9 | 179.3 | 178.0 | 178.0 | 178.0 |
| 60° | 171.5 | 167.5 | 163.6 | 159.7 | 159.7 | 157.1 | 155.8 | 154.5 | 153.2 | 151.9 | 151.9 |
| 62.5° | 146.6 | 142.7 | 138.8 | 136.2 | 134.9 | 133.4 | 130.8 | 129.5 | 128.2 | 128.2 | 126.9 |
| 65° | 124.3 | 119.1 | 117.8 | 113.8 | 112.5 | 111.2 | 109.9 | 107.3 | 106.0 | 104.7 | 103.4 |
| 67.5° | 102.1 | 99.5 | 95.5 | 92.9 | 91.6 | 90.3 | 89.0 | 86.4 | 85.1 | 83.8 | 81.2 |
| 70° | 82.5 | 79.8 | 77.2 | 74.6 | 73.3 | 72.0 | 69.4 | 66.8 | 65.5 | 62.9 | 58.9 |
| 72.5° | 64.2 | 61.5 | 58.9 | 56.3 | 55.0 | 53.7 | 51.1 | 48.5 | 45.9 | 43.1 | 40.5 |
| 75° | 48.5 | 45.9 | 41.8 | 39.2 | 37.9 | 37.9 | 34.0 | 31.4 | 28.8 | 24.8 | 22.2 |
| 77.5° | 34.0 | 30.1 | 28.8 | 26.1 | 24.8 | 22.2 | 19.6 | 17.0 | 14.4 | 13.1 | 10.5 |
| 80° | 22.2 | 19.6 | 17.0 | 15.7 | 14.4 | 13.1 | 11.8 | 9.2 | 6.5 | 5.2 | 3.9 |
| 82.5° | 13.1 | 11.8 | 10.5 | 9.2 | 7.8 | 6.5 | 5.2 | 5.2 | 3.9 | 2.6 | 1.3 |
| 85° | 6.5 | 5.2 | 3.9 | 3.9 | 2.6 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 |
| 87.5° | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 |
| 2.5° | 871.7 | 870.4 | 869.1 | 867.8 | 867.8 | 865.2 | 865.2 | 863.9 | 861.2 | 859.9 | 859.9 |
| 5° | 863.9 | 859.9 | 857.3 | 856.0 | 854.7 | 850.8 | 849.5 | 846.9 | 844.2 | 841.6 | 840.3 |
| 7.5° | 852.1 | 845.5 | 842.9 | 841.6 | 837.7 | 833.8 | 831.2 | 827.2 | 823.3 | 819.4 | 818.1 |
| 10° | 837.7 | 831.2 | 824.6 | 822.0 | 818.1 | 815.5 | 810.3 | 804.9 | 801.0 | 797.1 | 793.2 |
| 12.5° | 819.4 | 811.6 | 804.9 | 802.3 | 798.4 | 793.2 | 785.3 | 782.7 | 776.2 | 773.5 | 768.3 |
| 15° | 798.4 | 789.2 | 782.7 | 778.8 | 774.9 | 767.0 | 761.8 | 756.5 | 750.0 | 747.4 | 742.2 |
| 17.5° | 772.2 | 761.8 | 755.2 | 751.3 | 748.7 | 742.2 | 734.3 | 727.8 | 721.3 | 718.5 | 714.6 |
| 20° | 740.9 | 734.3 | 725.2 | 721.3 | 718.5 | 710.7 | 702.8 | 700.2 | 695.0 | 689.8 | 685.9 |
| 22.5° | 705.5 | 698.9 | 689.8 | 685.9 | 684.5 | 678.0 | 671.5 | 667.5 | 663.6 | 659.7 | 655.8 |
| 25° | 668.9 | 661.0 | 653.2 | 650.6 | 647.9 | 642.7 | 637.5 | 634.9 | 630.8 | 628.2 | 625.6 |
| 27.5° | 629.5 | 621.7 | 615.2 | 611.2 | 608.6 | 604.7 | 602.1 | 599.5 | 596.9 | 594.2 | 592.9 |
| 30° | 587.7 | 579.9 | 574.6 | 572.0 | 569.4 | 568.1 | 564.2 | 562.9 | 561.6 | 558.8 | 560.1 |
| 32.5° | 545.8 | 539.2 | 534.0 | 530.1 | 530.1 | 527.5 | 526.2 | 526.2 | 524.8 | 524.8 | 524.8 |
| 35° | 500.0 | 496.1 | 492.2 | 490.9 | 489.5 | 488.2 | 486.9 | 488.2 | 486.9 | 488.2 | 489.5 |
| 37.5° | 458.1 | 454.2 | 451.5 | 450.2 | 448.9 | 450.2 | 448.9 | 448.9 | 450.2 | 452.8 | 454.2 |
| 40° | 414.9 | 412.3 | 409.7 | 411.0 | 409.7 | 409.7 | 409.7 | 413.6 | 414.9 | 416.2 | 417.5 |
| 42.5° | 374.3 | 371.7 | 370.4 | 370.4 | 371.7 | 370.4 | 373.0 | 374.3 | 376.9 | 380.8 | 383.6 |
| 45° | 335.1 | 333.8 | 333.8 | 335.1 | 333.8 | 336.4 | 336.4 | 339.0 | 342.9 | 345.5 | 348.2 |
| 47.5° | 298.5 | 298.5 | 298.5 | 299.8 | 299.8 | 301.1 | 303.7 | 305.0 | 307.6 | 310.2 | 312.9 |
| 50° | 264.4 | 265.7 | 267.0 | 267.0 | 267.0 | 269.6 | 272.2 | 273.5 | 274.8 | 276.2 | 280.1 |
| 52.5° | 234.3 | 235.6 | 235.6 | 236.9 | 238.2 | 239.5 | 240.9 | 243.5 | 244.8 | 247.4 | 248.7 |
| 55° | 205.5 | 205.5 | 208.2 | 209.5 | 209.5 | 209.5 | 212.1 | 212.1 | 214.7 | 216.0 | 218.6 |
| 57.5° | 178.0 | 179.3 | 179.3 | 180.6 | 180.6 | 181.9 | 183.2 | 184.5 | 185.8 | 187.2 | 188.5 |
| 60° | 151.9 | 151.9 | 151.9 | 153.2 | 154.5 | 155.8 | 154.5 | 157.1 | 157.1 | 159.7 | 161.0 |
| 62.5° | 126.9 | 128.2 | 128.2 | 128.2 | 128.2 | 128.2 | 128.2 | 129.5 | 130.8 | 132.1 | 133.4 |
| 65° | 103.4 | 103.4 | 103.4 | 102.1 | 103.4 | 102.1 | 103.4 | 104.7 | 104.7 | 106.0 | 107.3 |
| 67.5° | 79.8 | 79.8 | 77.2 | 77.2 | 78.5 | 78.5 | 78.5 | 78.5 | 77.2 | 79.8 | 79.8 |
| 70° | 57.6 | 56.3 | 55.0 | 53.7 | 53.7 | 52.4 | 52.4 | 51.1 | 51.1 | 51.1 | 51.1 |
| 72.5° | 37.9 | 35.3 | 32.7 | 31.4 | 30.1 | 30.1 | 27.5 | 26.1 | 27.5 | 27.5 | 27.5 |
| 75° | 19.6 | 17.0 | 15.7 | 14.4 | 13.1 | 13.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 77.5° | 7.8 | 6.5 | 5.2 | 5.2 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 85° | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P584062

CATALOG NUMBER: HCC8S20D010MW-HM80520930-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 | 875.6 |
| 2.5° | 858.6 | 858.6 | 857.3 | 858.6 | 856.0 | 857.3 | 856.0 | 856.0 |
| 5° | 839.0 | 836.4 | 836.4 | 836.4 | 835.1 | 835.1 | 833.8 | 833.8 |
| 7.5° | 815.5 | 814.2 | 812.9 | 811.6 | 810.3 | 808.8 | 808.8 | 808.8 |
| 10° | 791.8 | 789.2 | 789.2 | 787.9 | 785.3 | 784.0 | 784.0 | 784.0 |
| 12.5° | 764.4 | 763.1 | 761.8 | 761.8 | 756.5 | 757.9 | 756.5 | 756.5 |
| 15° | 738.2 | 736.9 | 736.9 | 733.0 | 730.4 | 730.4 | 730.4 | 729.1 |
| 17.5° | 710.7 | 709.4 | 708.1 | 705.5 | 702.8 | 702.8 | 701.5 | 702.8 |
| 20° | 681.9 | 680.6 | 678.0 | 678.0 | 676.7 | 675.4 | 672.8 | 674.1 |
| 22.5° | 653.2 | 650.6 | 649.2 | 649.2 | 647.9 | 647.9 | 645.3 | 645.3 |
| 25° | 623.0 | 621.7 | 620.4 | 621.7 | 619.1 | 619.1 | 616.5 | 616.5 |
| 27.5° | 591.6 | 590.3 | 590.3 | 590.3 | 589.0 | 590.3 | 589.0 | 589.0 |
| 30° | 560.1 | 560.1 | 558.8 | 558.8 | 560.1 | 558.8 | 560.1 | 561.6 |
| 32.5° | 526.2 | 526.2 | 527.5 | 527.5 | 528.8 | 528.8 | 528.8 | 528.8 |
| 35° | 490.9 | 493.5 | 493.5 | 494.8 | 496.1 | 497.4 | 497.4 | 498.7 |
| 37.5° | 458.1 | 459.4 | 460.7 | 462.0 | 464.6 | 464.6 | 464.6 | 464.6 |
| 40° | 422.8 | 424.1 | 426.7 | 425.4 | 430.6 | 431.9 | 430.6 | 430.6 |
| 42.5° | 386.2 | 388.8 | 390.1 | 392.7 | 394.0 | 396.6 | 397.9 | 397.9 |
| 45° | 352.1 | 353.4 | 356.0 | 358.6 | 359.9 | 363.8 | 363.8 | 363.8 |
| 47.5° | 316.8 | 319.4 | 320.7 | 323.3 | 324.6 | 328.5 | 329.9 | 328.5 |
| 50° | 282.7 | 285.3 | 287.9 | 287.9 | 291.8 | 293.1 | 295.9 | 297.2 |
| 52.5° | 250.0 | 251.3 | 253.9 | 255.2 | 257.8 | 260.5 | 261.8 | 263.1 |
| 55° | 218.6 | 219.9 | 222.5 | 222.5 | 226.5 | 227.8 | 230.4 | 230.4 |
| 57.5° | 189.8 | 191.1 | 193.7 | 192.4 | 195.0 | 197.6 | 197.6 | 196.3 |
| 60° | 162.3 | 162.3 | 162.3 | 164.9 | 166.2 | 167.5 | 168.8 | 168.8 |
| 62.5° | 133.4 | 136.2 | 137.5 | 137.5 | 138.8 | 140.1 | 140.1 | 138.8 |
| 65° | 107.3 | 109.9 | 111.2 | 111.2 | 112.5 | 112.5 | 112.5 | 113.8 |
| 67.5° | 81.2 | 81.2 | 81.2 | 82.5 | 81.2 | 81.2 | 81.2 | 81.2 |
| 70° | 51.1 | 51.1 | 51.1 | 51.1 | 49.8 | 51.1 | 51.1 | 52.4 |
| 72.5° | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| 75° | 11.8 | 11.8 | 11.8 | 13.1 | 11.8 | 11.8 | 11.8 | 11.8 |
| 77.5° | 5.2 | 3.9 | 5.2 | 5.2 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 85° | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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Scaled Data Report



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

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(END OF REPORT)