

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: P583991

Luminaire Tested: **HCC8W20D010SL-HM80520830-81RWWC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W20D010SL-HM80520830-81RWWC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

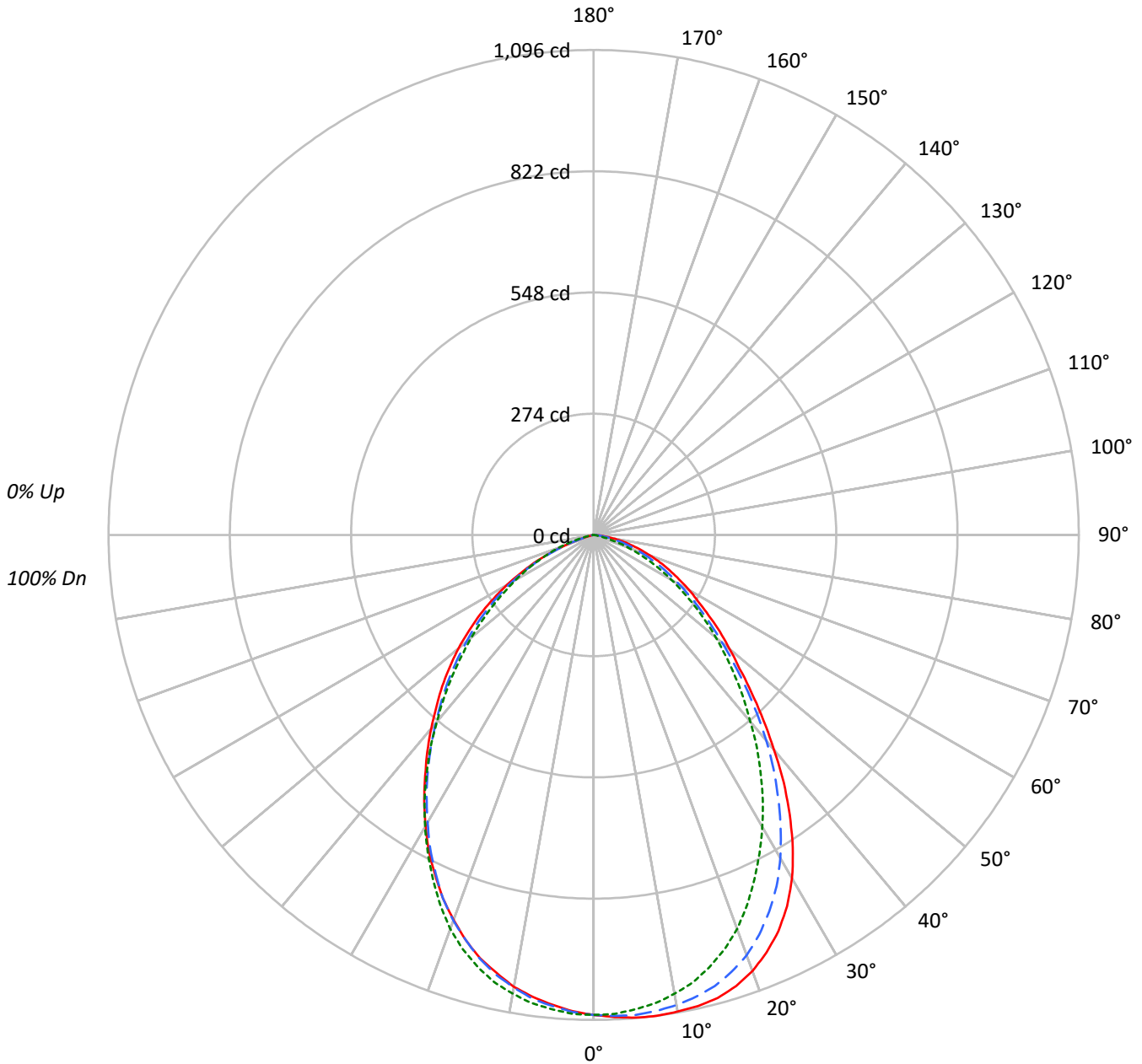
Lumens per Lamp: N/A
Luminaire Lumens: 2061.8 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
Input Voltage (V): NR
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



TEST NUMBER: P583991
CATALOG NUMBER: HCC8W20D010SL-HM80520830-81RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P583991

CATALOG NUMBER: HCC8W20D010SL-HM80520830-81RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | | | | 100 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | 88 |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 82 | 87 | 84 | 81 | 84 | 82 | 79 | 77 | | | | 77 |
| 3 | 95 | 86 | 79 | 73 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 76 | 73 | 69 | 67 | | | | 67 |
| 4 | 88 | 77 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 59 | | | | 59 |
| 5 | 81 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 59 | 55 | 63 | 58 | 54 | 52 | | | | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | 38 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | 35 |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 33451 | 33451 | 33451 |
| 5° | 33895 | 33313 | 32997 |
| 10° | 34243 | 32968 | 32474 |
| 15° | 34587 | 32275 | 31630 |
| 20° | 34413 | 31086 | 30371 |
| 25° | 33609 | 29220 | 28829 |
| 30° | 31921 | 27125 | 27025 |
| 35° | 29061 | 24751 | 24969 |
| 40° | 25481 | 22152 | 22973 |
| 45° | 21979 | 19707 | 21098 |
| 50° | 19247 | 17299 | 19108 |
| 55° | 17053 | 14870 | 16822 |
| 60° | 15369 | 12507 | 13938 |
| 65° | 13841 | 10040 | 10675 |
| 70° | 12144 | 7312 | 5869 |
| 75° | 10353 | 3801 | 1549 |
| 80° | 7973 | 1030 | 249 |
| 85° | 5130 | 0 | 0 |



TEST NUMBER: P583991

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.4 | 5.0 |
| 10°-20° | 287.7 | 14.0 |
| 20°-30° | 408.4 | 19.8 |
| 30°-40° | 429.9 | 20.9 |
| 40°-50° | 365.7 | 17.7 |
| 50°-60° | 264.3 | 12.8 |
| 60°-70° | 150.3 | 7.3 |
| 70°-80° | 47.4 | 2.3 |
| 80°-90° | 5.8 | 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° | 798.5 | 38.7 |
| 0°-40° | 1228.4 | 59.6 |
| 0°-60° | 1858.4 | 90.1 |
| 0°-90° | 2061.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2061.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1085 | 1085 | 1085 | 1085 | 1085 | |
| 5° | 1095 | 1089 | 1076 | 1069 | 1066 | 104 |
| 15° | 1083 | 1056 | 1011 | 992 | 991 | 305 |
| 25° | 988 | 938 | 859 | 844 | 847 | 452 |
| 35° | 772 | 727 | 658 | 653 | 663 | 480 |
| 45° | 504 | 485 | 452 | 464 | 484 | 392 |
| 55° | 317 | 294 | 277 | 292 | 313 | 286 |
| 65° | 190 | 164 | 138 | 136 | 146 | 188 |
| 75° | 87 | 67 | 32 | 14 | 13 | 94 |
| 85° | 14 | 9 | 0 | 0 | 0 | 19 |
| 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° | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 |
| 2.5° | 1090.6 | 1092.0 | 1089.2 | 1089.2 | 1092.0 | 1089.2 | 1090.6 | 1090.6 | 1089.2 | 1089.2 | 1087.8 |
| 5° | 1095.0 | 1093.6 | 1093.6 | 1093.6 | 1095.0 | 1092.0 | 1090.6 | 1092.0 | 1089.2 | 1089.2 | 1089.2 |
| 7.5° | 1096.4 | 1096.4 | 1095.0 | 1093.6 | 1093.6 | 1093.6 | 1092.0 | 1090.6 | 1089.2 | 1086.3 | 1084.8 |
| 10° | 1093.6 | 1093.6 | 1095.0 | 1092.0 | 1092.0 | 1089.2 | 1089.2 | 1086.3 | 1086.3 | 1083.4 | 1079.0 |
| 12.5° | 1090.6 | 1089.2 | 1089.2 | 1086.3 | 1086.3 | 1083.4 | 1083.4 | 1079.0 | 1077.6 | 1073.3 | 1068.9 |
| 15° | 1083.4 | 1082.0 | 1079.0 | 1077.6 | 1076.2 | 1074.7 | 1071.8 | 1070.4 | 1066.0 | 1060.3 | 1055.9 |
| 17.5° | 1068.9 | 1067.5 | 1066.0 | 1063.1 | 1060.3 | 1058.8 | 1057.3 | 1052.9 | 1047.1 | 1042.9 | 1035.6 |
| 20° | 1048.7 | 1047.1 | 1047.1 | 1042.9 | 1041.3 | 1037.1 | 1035.6 | 1029.8 | 1025.5 | 1016.8 | 1011.0 |
| 22.5° | 1021.1 | 1022.5 | 1019.7 | 1016.8 | 1013.9 | 1009.5 | 1006.6 | 1000.8 | 993.6 | 985.0 | 977.6 |
| 25° | 987.8 | 989.2 | 986.4 | 983.4 | 979.2 | 976.2 | 973.4 | 964.6 | 957.4 | 947.3 | 938.5 |
| 27.5° | 945.8 | 945.8 | 945.8 | 942.9 | 935.7 | 934.3 | 931.3 | 922.7 | 912.5 | 903.8 | 895.1 |
| 30° | 896.5 | 895.1 | 895.1 | 890.8 | 887.9 | 882.1 | 877.8 | 870.5 | 863.2 | 853.0 | 843.0 |
| 32.5° | 837.2 | 838.6 | 834.3 | 831.4 | 827.0 | 827.0 | 821.3 | 815.5 | 806.7 | 796.7 | 786.5 |
| 35° | 772.0 | 773.5 | 770.5 | 769.1 | 761.8 | 760.4 | 759.0 | 751.8 | 746.0 | 738.6 | 727.0 |
| 37.5° | 705.4 | 703.9 | 702.5 | 702.5 | 698.1 | 695.3 | 692.3 | 688.0 | 679.3 | 673.5 | 667.7 |
| 40° | 633.0 | 633.0 | 633.0 | 631.5 | 630.0 | 627.2 | 625.8 | 622.8 | 617.0 | 611.2 | 606.8 |
| 42.5° | 567.7 | 567.7 | 566.3 | 564.9 | 561.9 | 563.5 | 560.5 | 557.7 | 551.9 | 547.5 | 544.5 |
| 45° | 504.0 | 504.0 | 504.0 | 505.5 | 502.6 | 498.2 | 498.2 | 495.4 | 492.4 | 489.6 | 485.2 |
| 47.5° | 447.5 | 451.9 | 449.0 | 447.5 | 449.0 | 443.2 | 443.2 | 440.3 | 437.5 | 434.5 | 428.7 |
| 50° | 401.2 | 401.2 | 401.2 | 398.3 | 396.9 | 396.9 | 392.5 | 389.6 | 388.2 | 385.3 | 379.4 |
| 52.5° | 359.2 | 356.3 | 356.3 | 354.8 | 353.4 | 350.5 | 350.5 | 347.6 | 341.8 | 338.9 | 334.6 |
| 55° | 317.2 | 317.2 | 315.7 | 314.3 | 312.9 | 311.5 | 309.9 | 305.7 | 302.7 | 298.3 | 294.1 |
| 57.5° | 279.5 | 282.4 | 281.0 | 278.1 | 275.2 | 275.2 | 272.3 | 269.4 | 265.0 | 260.7 | 256.4 |
| 60° | 249.2 | 247.6 | 247.6 | 246.2 | 243.4 | 241.8 | 240.4 | 236.0 | 231.8 | 227.4 | 223.0 |
| 62.5° | 217.3 | 217.3 | 217.3 | 214.4 | 211.5 | 210.0 | 208.6 | 205.7 | 199.9 | 195.5 | 192.7 |
| 65° | 189.7 | 188.3 | 186.9 | 185.3 | 183.9 | 181.1 | 179.5 | 176.7 | 172.3 | 168.0 | 163.7 |
| 67.5° | 162.2 | 160.8 | 160.8 | 159.3 | 155.0 | 153.5 | 153.5 | 149.2 | 144.8 | 140.5 | 136.2 |
| 70° | 134.7 | 134.7 | 134.7 | 131.8 | 130.4 | 129.0 | 127.4 | 124.6 | 120.2 | 115.8 | 111.6 |
| 72.5° | 111.6 | 110.0 | 110.0 | 108.6 | 104.3 | 102.8 | 101.4 | 98.5 | 94.1 | 91.3 | 88.3 |
| 75° | 86.9 | 86.9 | 85.5 | 84.0 | 82.5 | 81.1 | 79.7 | 76.7 | 72.5 | 68.1 | 66.7 |
| 77.5° | 66.7 | 65.1 | 65.1 | 63.7 | 60.9 | 59.3 | 59.3 | 56.5 | 52.1 | 49.3 | 46.3 |
| 80° | 44.9 | 46.3 | 44.9 | 43.5 | 42.0 | 40.5 | 39.1 | 37.7 | 34.8 | 31.9 | 29.0 |
| 82.5° | 27.5 | 29.0 | 27.5 | 27.5 | 26.1 | 24.6 | 24.6 | 21.7 | 20.3 | 18.8 | 17.4 |
| 85° | 14.5 | 14.5 | 14.5 | 14.5 | 13.0 | 13.0 | 13.0 | 11.6 | 10.2 | 8.7 | 8.7 |
| 87.5° | 4.4 | 5.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 3.0 | 3.0 | 3.0 |
| 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: P583991

CATALOG NUMBER: HCC8W20D010SL-HM80520830-81RWWC

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 |
| 2.5° | 1089.2 | 1087.8 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1086.3 | 1084.8 | 1083.4 | 1083.4 | 1083.4 |
| 5° | 1086.3 | 1086.3 | 1086.3 | 1084.8 | 1083.4 | 1083.4 | 1080.5 | 1079.0 | 1077.6 | 1076.2 | 1074.7 |
| 7.5° | 1083.4 | 1080.5 | 1079.0 | 1077.6 | 1076.2 | 1076.2 | 1073.3 | 1070.4 | 1070.4 | 1067.5 | 1064.6 |
| 10° | 1074.7 | 1073.3 | 1070.4 | 1067.5 | 1066.0 | 1064.6 | 1061.7 | 1057.3 | 1055.9 | 1052.9 | 1050.1 |
| 12.5° | 1064.6 | 1061.7 | 1058.8 | 1052.9 | 1051.5 | 1050.1 | 1044.3 | 1039.9 | 1037.1 | 1035.6 | 1028.3 |
| 15° | 1051.5 | 1045.7 | 1041.3 | 1034.1 | 1032.7 | 1029.8 | 1025.5 | 1021.1 | 1015.3 | 1011.0 | 1008.1 |
| 17.5° | 1028.3 | 1022.5 | 1015.3 | 1008.1 | 1005.2 | 1005.2 | 998.0 | 992.2 | 985.0 | 982.0 | 976.2 |
| 20° | 1000.8 | 993.6 | 987.8 | 979.2 | 974.8 | 970.4 | 966.0 | 957.4 | 951.6 | 947.3 | 940.0 |
| 22.5° | 969.0 | 958.8 | 951.6 | 942.9 | 935.7 | 931.3 | 924.1 | 916.9 | 909.5 | 905.3 | 899.5 |
| 25° | 928.5 | 919.7 | 908.1 | 899.5 | 895.1 | 889.3 | 880.6 | 873.4 | 866.2 | 858.8 | 856.0 |
| 27.5° | 883.5 | 872.0 | 861.8 | 851.6 | 847.3 | 843.0 | 832.8 | 824.1 | 818.3 | 811.1 | 808.3 |
| 30° | 834.3 | 822.7 | 811.1 | 802.5 | 798.1 | 790.9 | 785.1 | 774.9 | 767.7 | 761.8 | 754.6 |
| 32.5° | 777.8 | 769.1 | 759.0 | 746.0 | 743.0 | 737.2 | 728.6 | 724.2 | 715.5 | 711.2 | 705.4 |
| 35° | 717.0 | 711.2 | 701.0 | 690.9 | 686.5 | 683.7 | 676.5 | 667.7 | 661.9 | 657.5 | 654.7 |
| 37.5° | 659.0 | 651.8 | 641.6 | 634.4 | 631.5 | 627.2 | 618.4 | 614.2 | 608.4 | 605.4 | 599.6 |
| 40° | 596.8 | 589.5 | 582.3 | 577.9 | 573.5 | 570.7 | 564.9 | 560.5 | 554.7 | 550.3 | 548.9 |
| 42.5° | 535.9 | 531.5 | 525.8 | 520.0 | 518.5 | 514.2 | 511.3 | 507.0 | 502.6 | 501.2 | 496.8 |
| 45° | 480.8 | 476.5 | 470.7 | 464.9 | 463.5 | 460.6 | 459.1 | 454.8 | 451.9 | 451.9 | 451.9 |
| 47.5° | 425.9 | 421.5 | 415.7 | 412.8 | 414.3 | 408.5 | 408.5 | 407.0 | 404.1 | 404.1 | 405.5 |
| 50° | 376.6 | 370.8 | 369.4 | 366.4 | 363.6 | 360.6 | 362.0 | 357.8 | 357.8 | 360.6 | 359.2 |
| 52.5° | 330.3 | 324.5 | 323.0 | 320.1 | 318.7 | 318.7 | 317.2 | 317.2 | 315.7 | 317.2 | 317.2 |
| 55° | 288.3 | 283.9 | 281.0 | 278.1 | 276.6 | 276.6 | 276.6 | 275.2 | 273.8 | 276.6 | 278.1 |
| 57.5° | 250.6 | 249.2 | 246.2 | 241.8 | 240.4 | 239.0 | 237.6 | 237.6 | 237.6 | 237.6 | 239.0 |
| 60° | 217.3 | 214.4 | 211.5 | 207.1 | 207.1 | 205.7 | 204.2 | 202.8 | 202.8 | 202.8 | 202.8 |
| 62.5° | 188.3 | 183.9 | 179.5 | 176.7 | 175.3 | 173.8 | 172.3 | 169.5 | 169.5 | 169.5 | 169.5 |
| 65° | 159.3 | 155.0 | 152.1 | 149.2 | 146.3 | 146.3 | 143.4 | 142.0 | 139.0 | 137.6 | 134.7 |
| 67.5° | 131.8 | 129.0 | 126.0 | 121.6 | 120.2 | 118.8 | 115.8 | 114.4 | 110.0 | 108.6 | 107.2 |
| 70° | 107.2 | 102.8 | 100.0 | 97.0 | 95.6 | 92.7 | 89.8 | 86.9 | 84.0 | 81.1 | 78.2 |
| 72.5° | 84.0 | 79.7 | 76.7 | 73.9 | 70.9 | 70.9 | 66.7 | 63.7 | 59.3 | 56.5 | 52.1 |
| 75° | 62.3 | 57.9 | 55.1 | 50.7 | 49.3 | 47.8 | 43.5 | 40.5 | 36.2 | 31.9 | 29.0 |
| 77.5° | 42.0 | 39.1 | 36.2 | 31.9 | 29.0 | 29.0 | 24.6 | 21.7 | 18.8 | 14.5 | 13.0 |
| 80° | 26.1 | 23.2 | 20.3 | 17.4 | 17.4 | 14.5 | 13.0 | 10.2 | 7.2 | 5.8 | 4.4 |
| 82.5° | 14.5 | 13.0 | 11.6 | 8.7 | 8.7 | 7.2 | 5.8 | 4.4 | 3.0 | 1.4 | 1.4 |
| 85° | 7.2 | 5.8 | 4.4 | 4.4 | 3.0 | 3.0 | 3.0 | 1.4 | 1.4 | 0.0 | 0.0 |
| 87.5° | 3.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 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 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 |
| 2.5° | 1082.0 | 1082.0 | 1080.5 | 1080.5 | 1080.5 | 1079.0 | 1080.5 | 1079.0 | 1079.0 | 1079.0 | 1080.5 |
| 5° | 1076.2 | 1073.3 | 1073.3 | 1071.8 | 1071.8 | 1070.4 | 1071.8 | 1070.4 | 1068.9 | 1067.5 | 1068.9 |
| 7.5° | 1064.6 | 1061.7 | 1060.3 | 1058.8 | 1058.8 | 1058.8 | 1057.3 | 1055.9 | 1057.3 | 1052.9 | 1055.9 |
| 10° | 1048.7 | 1047.1 | 1044.3 | 1042.9 | 1041.3 | 1042.9 | 1041.3 | 1038.5 | 1038.5 | 1038.5 | 1037.1 |
| 12.5° | 1028.3 | 1025.5 | 1024.0 | 1022.5 | 1019.7 | 1019.7 | 1021.1 | 1018.2 | 1018.2 | 1015.3 | 1015.3 |
| 15° | 1003.8 | 1000.8 | 998.0 | 998.0 | 995.0 | 995.0 | 993.6 | 993.6 | 992.2 | 990.8 | 990.8 |
| 17.5° | 973.4 | 969.0 | 966.0 | 967.6 | 966.0 | 964.6 | 964.6 | 961.8 | 960.3 | 961.8 | 961.8 |
| 20° | 937.1 | 934.3 | 931.3 | 932.7 | 929.9 | 928.5 | 929.9 | 925.5 | 926.9 | 926.9 | 926.9 |
| 22.5° | 896.5 | 895.1 | 890.8 | 890.8 | 887.9 | 886.4 | 887.9 | 887.9 | 889.3 | 887.9 | 887.9 |
| 25° | 851.6 | 848.8 | 845.8 | 845.8 | 844.4 | 843.0 | 844.4 | 845.8 | 844.4 | 845.8 | 845.8 |
| 27.5° | 803.9 | 799.5 | 799.5 | 796.7 | 796.7 | 798.1 | 796.7 | 798.1 | 799.5 | 799.5 | 802.5 |
| 30° | 751.8 | 750.2 | 748.8 | 747.4 | 747.4 | 748.8 | 748.8 | 748.8 | 750.2 | 753.2 | 753.2 |
| 32.5° | 702.5 | 699.6 | 696.7 | 696.7 | 699.6 | 698.1 | 699.6 | 699.6 | 702.5 | 702.5 | 705.4 |
| 35° | 648.9 | 648.9 | 646.0 | 647.4 | 647.4 | 647.4 | 647.4 | 650.3 | 653.2 | 654.7 | 657.5 |
| 37.5° | 599.6 | 595.3 | 596.8 | 596.8 | 598.2 | 596.8 | 601.0 | 601.0 | 604.0 | 604.0 | 606.8 |
| 40° | 546.1 | 546.1 | 547.5 | 546.1 | 547.5 | 547.5 | 550.3 | 553.3 | 554.7 | 557.7 | 559.1 |
| 42.5° | 495.4 | 498.2 | 495.4 | 496.8 | 498.2 | 499.7 | 501.2 | 502.6 | 508.4 | 511.3 | 515.6 |
| 45° | 449.0 | 450.5 | 451.9 | 453.3 | 451.9 | 454.8 | 456.3 | 459.1 | 463.5 | 464.9 | 466.4 |
| 47.5° | 404.1 | 405.5 | 407.0 | 408.5 | 408.5 | 411.3 | 412.8 | 415.7 | 418.5 | 420.1 | 421.5 |
| 50° | 360.6 | 363.6 | 365.0 | 365.0 | 366.4 | 369.4 | 372.2 | 372.2 | 375.2 | 379.4 | 381.0 |
| 52.5° | 321.5 | 321.5 | 324.5 | 325.9 | 327.3 | 327.3 | 331.7 | 333.1 | 334.6 | 337.5 | 340.4 |
| 55° | 278.1 | 282.4 | 283.9 | 283.9 | 286.8 | 289.7 | 291.1 | 292.5 | 292.5 | 298.3 | 298.3 |
| 57.5° | 240.4 | 241.8 | 244.8 | 244.8 | 244.8 | 249.2 | 249.2 | 252.0 | 253.4 | 255.0 | 257.8 |
| 60° | 202.8 | 205.7 | 205.7 | 207.1 | 205.7 | 208.6 | 210.0 | 212.9 | 214.4 | 215.8 | 217.3 |
| 62.5° | 168.0 | 168.0 | 169.5 | 169.5 | 169.5 | 169.5 | 172.3 | 172.3 | 175.3 | 176.7 | 178.1 |
| 65° | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 136.2 | 136.2 | 139.0 |
| 67.5° | 104.3 | 102.8 | 100.0 | 101.4 | 100.0 | 100.0 | 98.5 | 98.5 | 100.0 | 100.0 | 102.8 |
| 70° | 75.3 | 73.9 | 70.9 | 70.9 | 69.5 | 68.1 | 66.7 | 65.1 | 63.7 | 63.7 | 63.7 |
| 72.5° | 49.3 | 46.3 | 42.0 | 40.5 | 40.5 | 37.7 | 34.8 | 33.3 | 33.3 | 33.3 | 33.3 |
| 75° | 24.6 | 21.7 | 18.8 | 17.4 | 17.4 | 14.5 | 16.0 | 14.5 | 14.5 | 14.5 | 14.5 |
| 77.5° | 10.2 | 7.2 | 5.8 | 5.8 | 5.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 80° | 3.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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 |

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



TEST NUMBER: P583991

CATALOG NUMBER: HCC8W20D010SL-HM80520830-81RWWC

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 | 1084.8 |
| 2.5° | 1079.0 | 1079.0 | 1076.2 | 1077.6 | 1077.6 | 1077.6 | 1077.6 | 1077.6 |
| 5° | 1066.0 | 1067.5 | 1066.0 | 1067.5 | 1067.5 | 1066.0 | 1066.0 | 1066.0 |
| 7.5° | 1052.9 | 1054.5 | 1052.9 | 1054.5 | 1054.5 | 1054.5 | 1052.9 | 1052.9 |
| 10° | 1037.1 | 1037.1 | 1037.1 | 1037.1 | 1037.1 | 1035.6 | 1037.1 | 1037.1 |
| 12.5° | 1015.3 | 1015.3 | 1015.3 | 1016.8 | 1016.8 | 1015.3 | 1015.3 | 1013.9 |
| 15° | 992.2 | 989.2 | 990.8 | 992.2 | 990.8 | 990.8 | 990.8 | 990.8 |
| 17.5° | 960.3 | 961.8 | 960.3 | 960.3 | 960.3 | 960.3 | 961.8 | 960.3 |
| 20° | 926.9 | 926.9 | 928.5 | 926.9 | 926.9 | 926.9 | 926.9 | 925.5 |
| 22.5° | 889.3 | 887.9 | 887.9 | 889.3 | 889.3 | 887.9 | 889.3 | 889.3 |
| 25° | 847.3 | 848.8 | 847.3 | 847.3 | 848.8 | 848.8 | 848.8 | 847.3 |
| 27.5° | 802.5 | 803.9 | 805.3 | 803.9 | 803.9 | 803.9 | 805.3 | 806.7 |
| 30° | 756.0 | 759.0 | 756.0 | 756.0 | 759.0 | 757.5 | 759.0 | 759.0 |
| 32.5° | 706.8 | 711.2 | 708.3 | 711.2 | 711.2 | 712.6 | 711.2 | 712.6 |
| 35° | 657.5 | 661.9 | 661.9 | 661.9 | 663.3 | 664.8 | 664.8 | 663.3 |
| 37.5° | 611.2 | 612.6 | 612.6 | 615.6 | 617.0 | 618.4 | 618.4 | 617.0 |
| 40° | 563.5 | 566.3 | 567.7 | 567.7 | 567.7 | 570.7 | 573.5 | 570.7 |
| 42.5° | 517.1 | 518.5 | 520.0 | 520.0 | 522.9 | 524.3 | 525.8 | 525.8 |
| 45° | 472.2 | 475.0 | 476.5 | 478.0 | 479.4 | 482.4 | 480.8 | 483.8 |
| 47.5° | 425.9 | 430.1 | 431.7 | 433.1 | 435.9 | 437.5 | 438.9 | 440.3 |
| 50° | 383.8 | 386.8 | 386.8 | 389.6 | 394.0 | 394.0 | 396.9 | 398.3 |
| 52.5° | 341.8 | 343.3 | 344.7 | 346.2 | 349.0 | 352.0 | 352.0 | 354.8 |
| 55° | 301.3 | 302.7 | 302.7 | 304.1 | 305.7 | 311.5 | 312.9 | 312.9 |
| 57.5° | 259.2 | 259.2 | 262.2 | 263.6 | 265.0 | 268.0 | 268.0 | 268.0 |
| 60° | 218.7 | 220.2 | 220.2 | 221.6 | 223.0 | 226.0 | 227.4 | 226.0 |
| 62.5° | 178.1 | 179.5 | 179.5 | 181.1 | 183.9 | 185.3 | 183.9 | 183.9 |
| 65° | 140.5 | 142.0 | 142.0 | 143.4 | 146.3 | 146.3 | 144.8 | 146.3 |
| 67.5° | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 |
| 70° | 65.1 | 63.7 | 62.3 | 63.7 | 63.7 | 63.7 | 62.3 | 65.1 |
| 72.5° | 31.9 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 31.9 |
| 75° | 14.5 | 14.5 | 13.0 | 13.0 | 13.0 | 14.5 | 14.5 | 13.0 |
| 77.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 80° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 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)