

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: P593598

Luminaire Tested: **HCC8S20D010BZ-HM80520850-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593598
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: HCC8S20D010BZ-HM80520850-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

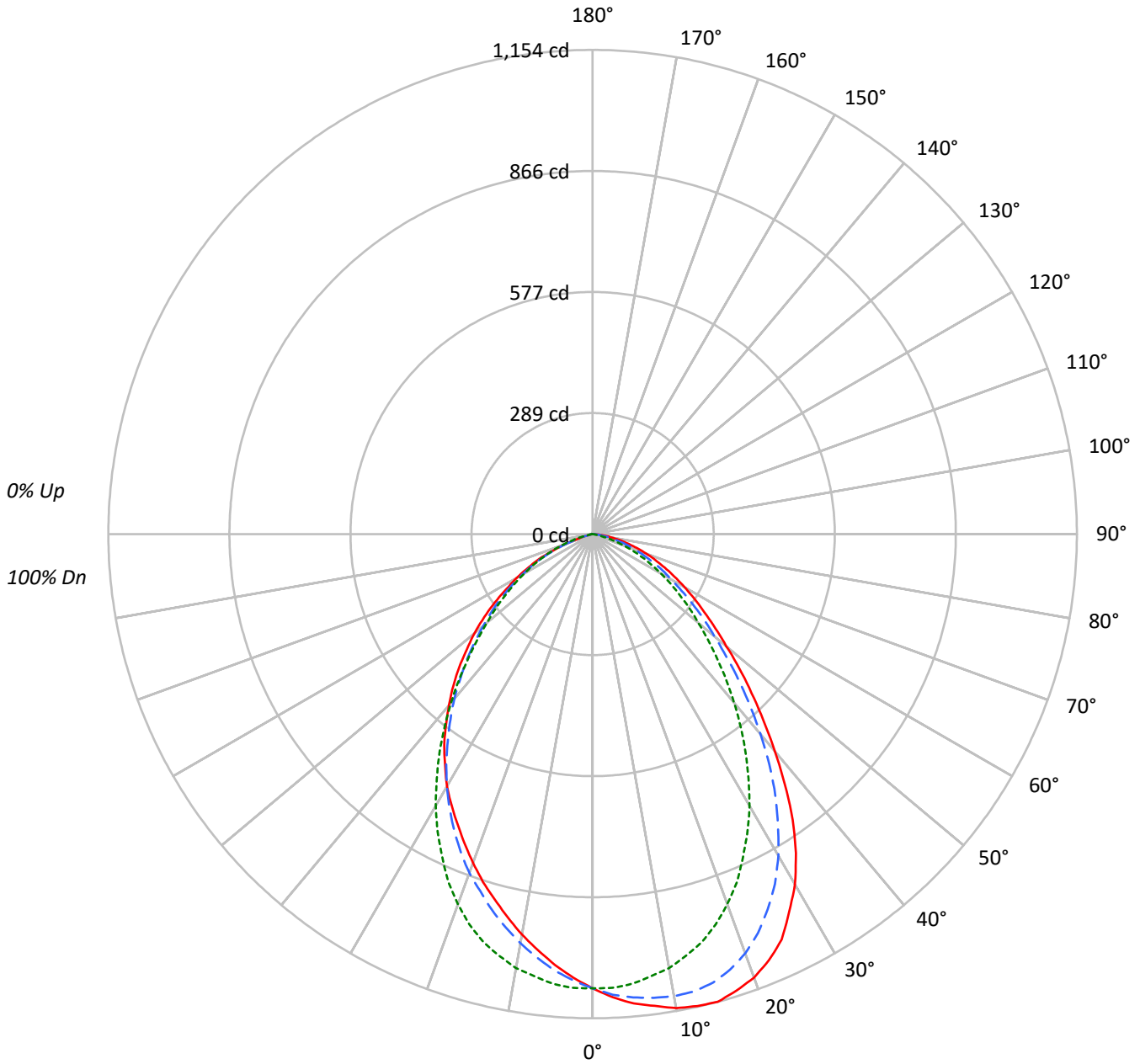
Lumens per Lamp: N/A
Luminaire Lumens: 2016.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593598
CATALOG NUMBER: HCC8S20D010BZ-HM80520850-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P593598

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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 | 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° | 33383 | 33383 | 33383 |
| 5° | 34761 | 33310 | 31907 |
| 10° | 35921 | 32884 | 30348 |
| 15° | 36834 | 32132 | 28773 |
| 20° | 36907 | 30797 | 27345 |
| 25° | 36283 | 28852 | 25933 |
| 30° | 34339 | 26620 | 24718 |
| 35° | 31312 | 23938 | 23208 |
| 40° | 27224 | 21105 | 21431 |
| 45° | 23357 | 18277 | 19620 |
| 50° | 19947 | 15759 | 17625 |
| 55° | 17489 | 13575 | 15306 |
| 60° | 15572 | 11576 | 12871 |
| 65° | 13820 | 9442 | 10273 |
| 70° | 12253 | 7005 | 5842 |
| 75° | 10222 | 3658 | 1728 |
| 80° | 8044 | 1154 | 302 |
| 85° | 5732 | 601 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.0 | 5.1 |
| 10°-20° | 285.9 | 14.2 |
| 20°-30° | 404.7 | 20.1 |
| 30°-40° | 423.4 | 21.0 |
| 40°-50° | 353.1 | 17.5 |
| 50°-60° | 250.4 | 12.4 |
| 60°-70° | 144.2 | 7.2 |
| 70°-80° | 46.4 | 2.3 |
| 80°-90° | 6.4 | 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° | 792.6 | 39.3 |
| 0°-40° | 1215.9 | 60.3 |
| 0°-60° | 1819.4 | 90.2 |
| 0°-90° | 2016.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2016.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1083 | 1083 | 1083 | 1083 | 1083 | |
| 5° | 1123 | 1108 | 1076 | 1044 | 1031 | 108 |
| 15° | 1154 | 1107 | 1006 | 927 | 901 | 324 |
| 25° | 1066 | 987 | 848 | 780 | 762 | 487 |
| 35° | 832 | 759 | 636 | 602 | 616 | 516 |
| 45° | 536 | 492 | 419 | 424 | 450 | 415 |
| 55° | 325 | 291 | 252 | 265 | 285 | 294 |
| 65° | 189 | 159 | 129 | 129 | 141 | 189 |
| 75° | 86 | 63 | 31 | 14 | 14 | 93 |
| 85° | 16 | 8 | 2 | 0 | 0 | 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° | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 2.5° | 1105.2 | 1103.6 | 1102.0 | 1103.6 | 1102.0 | 1103.6 | 1102.0 | 1102.0 | 1100.3 | 1098.8 | 1098.8 |
| 5° | 1123.0 | 1121.4 | 1121.4 | 1121.4 | 1119.8 | 1118.2 | 1118.2 | 1116.5 | 1113.3 | 1111.7 | 1108.5 |
| 7.5° | 1134.4 | 1135.9 | 1135.9 | 1135.9 | 1132.7 | 1132.7 | 1129.5 | 1126.2 | 1123.0 | 1119.8 | 1114.9 |
| 10° | 1147.2 | 1147.2 | 1145.7 | 1144.1 | 1140.7 | 1139.2 | 1137.6 | 1134.4 | 1129.5 | 1123.0 | 1118.2 |
| 12.5° | 1152.1 | 1152.1 | 1150.6 | 1147.2 | 1145.7 | 1144.1 | 1142.4 | 1137.6 | 1131.1 | 1123.0 | 1116.5 |
| 15° | 1153.8 | 1150.6 | 1148.9 | 1147.2 | 1144.1 | 1139.2 | 1139.2 | 1132.7 | 1124.7 | 1114.9 | 1106.8 |
| 17.5° | 1140.7 | 1142.4 | 1139.2 | 1135.9 | 1131.1 | 1127.9 | 1123.0 | 1118.2 | 1108.5 | 1097.1 | 1089.0 |
| 20° | 1124.7 | 1123.0 | 1121.4 | 1116.5 | 1110.0 | 1108.5 | 1103.6 | 1095.5 | 1087.4 | 1074.4 | 1063.1 |
| 22.5° | 1098.8 | 1097.1 | 1093.8 | 1090.6 | 1084.1 | 1080.9 | 1076.1 | 1066.4 | 1055.1 | 1042.1 | 1029.2 |
| 25° | 1066.4 | 1063.1 | 1058.2 | 1051.9 | 1046.9 | 1043.7 | 1037.2 | 1027.5 | 1014.6 | 1000.0 | 987.1 |
| 27.5° | 1014.6 | 1019.5 | 1016.2 | 1006.5 | 1001.6 | 995.1 | 993.6 | 980.6 | 969.2 | 954.7 | 940.2 |
| 30° | 964.4 | 964.4 | 959.5 | 954.7 | 946.7 | 941.8 | 935.3 | 925.6 | 914.3 | 896.4 | 885.1 |
| 32.5° | 901.3 | 899.7 | 893.2 | 891.6 | 885.1 | 875.4 | 873.9 | 860.9 | 849.5 | 836.6 | 822.1 |
| 35° | 831.8 | 828.5 | 822.1 | 817.1 | 813.9 | 809.1 | 804.2 | 792.9 | 781.5 | 768.7 | 759.0 |
| 37.5° | 752.5 | 752.5 | 750.8 | 742.8 | 739.5 | 736.3 | 731.4 | 720.1 | 713.6 | 700.7 | 691.0 |
| 40° | 676.3 | 674.8 | 670.0 | 668.3 | 665.1 | 660.3 | 657.0 | 650.5 | 640.8 | 631.1 | 621.4 |
| 42.5° | 602.0 | 603.5 | 597.1 | 598.7 | 592.3 | 589.0 | 587.3 | 577.6 | 572.8 | 563.1 | 555.1 |
| 45° | 535.6 | 534.0 | 530.7 | 529.2 | 525.9 | 522.7 | 519.5 | 514.5 | 506.5 | 496.8 | 491.9 |
| 47.5° | 474.1 | 469.3 | 469.3 | 467.6 | 466.1 | 459.6 | 457.9 | 453.1 | 448.2 | 438.5 | 432.0 |
| 50° | 415.8 | 415.8 | 415.8 | 414.3 | 409.4 | 407.8 | 404.6 | 399.6 | 394.8 | 388.4 | 378.6 |
| 52.5° | 368.9 | 368.9 | 368.9 | 367.4 | 360.9 | 359.2 | 357.7 | 351.2 | 344.7 | 339.8 | 333.3 |
| 55° | 325.3 | 326.8 | 325.3 | 322.0 | 317.1 | 317.1 | 312.3 | 309.1 | 302.6 | 297.7 | 291.2 |
| 57.5° | 288.1 | 288.1 | 284.7 | 283.2 | 279.9 | 278.4 | 275.1 | 271.9 | 263.7 | 258.9 | 250.8 |
| 60° | 252.5 | 250.8 | 250.8 | 247.6 | 244.3 | 241.1 | 239.5 | 234.6 | 231.4 | 223.3 | 216.8 |
| 62.5° | 220.1 | 220.1 | 216.8 | 216.8 | 210.4 | 210.4 | 208.7 | 203.9 | 199.0 | 190.9 | 187.7 |
| 65° | 189.4 | 189.4 | 187.7 | 186.0 | 181.2 | 179.7 | 178.0 | 173.2 | 168.3 | 163.5 | 158.6 |
| 67.5° | 161.8 | 161.8 | 158.6 | 157.0 | 153.8 | 152.1 | 148.8 | 145.6 | 140.8 | 135.9 | 131.1 |
| 70° | 135.9 | 134.3 | 132.7 | 131.1 | 127.9 | 126.2 | 122.9 | 119.7 | 114.9 | 111.7 | 106.9 |
| 72.5° | 110.0 | 110.0 | 108.4 | 105.2 | 103.5 | 101.9 | 100.4 | 97.0 | 92.2 | 87.3 | 84.2 |
| 75° | 85.8 | 85.8 | 85.8 | 82.5 | 79.3 | 77.7 | 77.7 | 74.5 | 71.2 | 66.3 | 63.1 |
| 77.5° | 66.3 | 64.8 | 63.1 | 63.1 | 59.9 | 58.3 | 56.6 | 55.0 | 50.1 | 48.6 | 45.3 |
| 80° | 45.3 | 46.9 | 45.3 | 43.7 | 42.1 | 40.4 | 40.4 | 37.2 | 35.6 | 32.4 | 29.1 |
| 82.5° | 30.7 | 29.1 | 29.1 | 27.5 | 27.5 | 25.9 | 25.9 | 22.7 | 21.0 | 19.4 | 17.8 |
| 85° | 16.2 | 16.2 | 14.5 | 14.5 | 14.5 | 13.0 | 13.0 | 11.3 | 11.3 | 9.7 | 8.0 |
| 87.5° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 3.2 | 3.2 | 3.2 |
| 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° | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 2.5° | 1097.1 | 1093.8 | 1092.3 | 1092.3 | 1090.6 | 1089.0 | 1087.4 | 1085.8 | 1082.6 | 1082.6 | 1079.3 |
| 5° | 1105.2 | 1102.0 | 1100.3 | 1095.5 | 1092.3 | 1092.3 | 1085.8 | 1084.1 | 1079.3 | 1076.1 | 1072.9 |
| 7.5° | 1111.7 | 1105.2 | 1100.3 | 1095.5 | 1092.3 | 1089.0 | 1082.6 | 1076.1 | 1069.6 | 1063.1 | 1059.9 |
| 10° | 1111.7 | 1105.2 | 1097.1 | 1089.0 | 1085.8 | 1082.6 | 1074.4 | 1064.7 | 1056.7 | 1050.2 | 1042.1 |
| 12.5° | 1108.5 | 1098.8 | 1089.0 | 1082.6 | 1076.1 | 1071.2 | 1061.6 | 1051.9 | 1042.1 | 1029.2 | 1022.7 |
| 15° | 1098.8 | 1085.8 | 1076.1 | 1064.7 | 1059.9 | 1051.9 | 1043.7 | 1029.2 | 1017.8 | 1006.5 | 998.4 |
| 17.5° | 1079.3 | 1063.1 | 1051.9 | 1040.5 | 1032.4 | 1027.5 | 1014.6 | 1001.6 | 988.7 | 975.7 | 966.0 |
| 20° | 1050.2 | 1035.7 | 1022.7 | 1008.1 | 1001.6 | 995.1 | 978.9 | 966.0 | 953.0 | 938.5 | 928.8 |
| 22.5° | 1014.6 | 1000.0 | 982.2 | 970.9 | 961.2 | 953.0 | 938.5 | 924.0 | 911.0 | 898.1 | 885.1 |
| 25° | 970.9 | 956.4 | 940.2 | 922.3 | 915.9 | 907.8 | 891.6 | 877.0 | 862.5 | 848.0 | 836.6 |
| 27.5° | 924.0 | 904.6 | 891.6 | 872.2 | 865.7 | 857.7 | 839.8 | 823.6 | 810.7 | 799.4 | 786.4 |
| 30° | 867.4 | 852.8 | 835.0 | 817.1 | 810.7 | 802.6 | 788.0 | 773.5 | 760.5 | 747.6 | 734.6 |
| 32.5° | 805.9 | 791.2 | 773.5 | 760.5 | 750.8 | 744.3 | 729.8 | 716.9 | 703.9 | 691.0 | 679.6 |
| 35° | 741.1 | 724.9 | 712.0 | 699.0 | 691.0 | 682.8 | 668.3 | 657.0 | 647.3 | 635.9 | 624.6 |
| 37.5° | 674.8 | 663.5 | 650.5 | 635.9 | 627.9 | 621.4 | 610.0 | 597.1 | 589.0 | 579.3 | 571.3 |
| 40° | 610.0 | 597.1 | 585.8 | 572.8 | 566.4 | 561.4 | 550.2 | 540.4 | 532.4 | 524.3 | 519.5 |
| 42.5° | 543.7 | 532.4 | 521.0 | 513.0 | 508.1 | 503.3 | 495.1 | 483.8 | 478.9 | 470.9 | 466.1 |
| 45° | 482.3 | 472.4 | 464.4 | 453.1 | 449.9 | 446.6 | 436.9 | 428.8 | 424.0 | 419.1 | 415.8 |
| 47.5° | 424.0 | 417.5 | 407.8 | 401.3 | 396.4 | 393.3 | 386.8 | 380.2 | 375.4 | 372.2 | 368.9 |
| 50° | 373.7 | 365.7 | 359.2 | 352.7 | 349.5 | 344.7 | 338.2 | 335.0 | 331.7 | 328.5 | 328.5 |
| 52.5° | 326.8 | 318.8 | 312.3 | 307.4 | 304.2 | 300.9 | 296.1 | 294.6 | 291.2 | 291.2 | 289.7 |
| 55° | 283.2 | 278.4 | 271.9 | 265.4 | 263.7 | 262.2 | 258.9 | 255.7 | 254.0 | 252.5 | 254.0 |
| 57.5° | 246.0 | 241.1 | 234.6 | 229.8 | 228.1 | 226.6 | 224.9 | 221.7 | 220.1 | 220.1 | 220.1 |
| 60° | 211.9 | 207.1 | 202.2 | 197.4 | 197.4 | 194.2 | 192.5 | 190.9 | 189.4 | 187.7 | 187.7 |
| 62.5° | 181.2 | 176.4 | 171.5 | 168.3 | 166.7 | 165.0 | 161.8 | 160.2 | 158.6 | 158.6 | 157.0 |
| 65° | 153.8 | 147.3 | 145.6 | 140.8 | 139.1 | 137.6 | 135.9 | 132.7 | 131.1 | 129.4 | 127.9 |
| 67.5° | 126.2 | 122.9 | 118.1 | 114.9 | 113.2 | 111.7 | 110.0 | 106.9 | 105.2 | 103.5 | 100.4 |
| 70° | 101.9 | 98.7 | 95.5 | 92.2 | 90.7 | 89.0 | 85.8 | 82.5 | 81.0 | 77.7 | 72.8 |
| 72.5° | 79.3 | 76.0 | 72.8 | 69.6 | 68.0 | 66.3 | 63.1 | 59.9 | 56.6 | 53.4 | 50.1 |
| 75° | 59.9 | 56.6 | 51.8 | 48.6 | 46.9 | 46.9 | 42.1 | 38.9 | 35.6 | 30.7 | 27.5 |
| 77.5° | 42.1 | 37.2 | 35.6 | 32.4 | 30.7 | 27.5 | 24.2 | 21.0 | 17.8 | 16.2 | 13.0 |
| 80° | 27.5 | 24.2 | 21.0 | 19.4 | 17.8 | 16.2 | 14.5 | 11.3 | 8.0 | 6.5 | 4.8 |
| 82.5° | 16.2 | 14.5 | 13.0 | 11.3 | 9.7 | 8.0 | 6.5 | 6.5 | 4.8 | 3.2 | 1.7 |
| 85° | 8.0 | 6.5 | 4.8 | 4.8 | 3.2 | 3.2 | 3.2 | 1.7 | 1.7 | 1.7 | 1.7 |
| 87.5° | 3.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 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° | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 2.5° | 1077.7 | 1076.1 | 1074.4 | 1072.9 | 1072.9 | 1069.6 | 1069.6 | 1067.9 | 1064.7 | 1063.1 | 1063.1 |
| 5° | 1067.9 | 1063.1 | 1059.9 | 1058.2 | 1056.7 | 1051.9 | 1050.2 | 1046.9 | 1043.7 | 1040.5 | 1038.9 |
| 7.5° | 1053.4 | 1045.4 | 1042.1 | 1040.5 | 1035.7 | 1030.8 | 1027.5 | 1022.7 | 1017.8 | 1013.0 | 1011.3 |
| 10° | 1035.7 | 1027.5 | 1019.5 | 1016.2 | 1011.3 | 1008.1 | 1001.6 | 995.1 | 990.3 | 985.4 | 980.6 |
| 12.5° | 1013.0 | 1003.3 | 995.1 | 991.9 | 987.1 | 980.6 | 970.9 | 967.7 | 959.5 | 956.4 | 949.9 |
| 15° | 987.1 | 975.7 | 967.7 | 962.9 | 958.0 | 948.2 | 941.8 | 935.3 | 927.2 | 924.0 | 917.5 |
| 17.5° | 954.7 | 941.8 | 933.7 | 928.8 | 925.6 | 917.5 | 907.8 | 899.7 | 891.6 | 888.4 | 883.5 |
| 20° | 915.9 | 907.8 | 896.4 | 891.6 | 888.4 | 878.7 | 869.0 | 865.7 | 859.2 | 852.8 | 848.0 |
| 22.5° | 872.2 | 864.0 | 852.8 | 848.0 | 846.3 | 838.2 | 830.1 | 825.3 | 820.4 | 815.6 | 810.7 |
| 25° | 826.9 | 817.1 | 807.4 | 804.2 | 801.0 | 794.5 | 788.0 | 784.8 | 780.0 | 776.7 | 773.5 |
| 27.5° | 778.3 | 768.7 | 760.5 | 755.7 | 752.5 | 747.6 | 744.3 | 741.1 | 737.9 | 734.6 | 733.1 |
| 30° | 726.6 | 716.9 | 710.4 | 707.2 | 703.9 | 702.2 | 697.4 | 695.8 | 694.2 | 691.0 | 692.5 |
| 32.5° | 674.8 | 666.6 | 660.3 | 655.3 | 655.3 | 652.1 | 650.5 | 650.5 | 648.9 | 648.9 | 648.9 |
| 35° | 618.2 | 613.3 | 608.4 | 606.8 | 605.2 | 603.5 | 602.0 | 603.5 | 602.0 | 603.5 | 605.2 |
| 37.5° | 566.4 | 561.4 | 558.3 | 556.6 | 555.1 | 556.6 | 555.1 | 555.1 | 556.6 | 559.9 | 561.4 |
| 40° | 513.0 | 509.7 | 506.5 | 508.1 | 506.5 | 506.5 | 506.5 | 511.3 | 513.0 | 514.5 | 516.2 |
| 42.5° | 462.8 | 459.6 | 457.9 | 457.9 | 459.6 | 457.9 | 461.2 | 462.8 | 466.1 | 470.9 | 474.1 |
| 45° | 414.3 | 412.6 | 412.6 | 414.3 | 412.6 | 415.8 | 415.8 | 419.1 | 424.0 | 427.2 | 430.5 |
| 47.5° | 368.9 | 368.9 | 368.9 | 370.6 | 370.6 | 372.2 | 375.4 | 377.1 | 380.2 | 383.6 | 386.8 |
| 50° | 326.8 | 328.5 | 330.1 | 330.1 | 330.1 | 333.3 | 336.6 | 338.2 | 339.8 | 341.5 | 346.3 |
| 52.5° | 289.7 | 291.2 | 291.2 | 292.9 | 294.6 | 296.1 | 297.7 | 300.9 | 302.6 | 305.8 | 307.4 |
| 55° | 254.0 | 254.0 | 257.3 | 258.9 | 258.9 | 258.9 | 262.2 | 262.2 | 265.4 | 267.0 | 270.2 |
| 57.5° | 220.1 | 221.7 | 221.7 | 223.3 | 223.3 | 224.9 | 226.6 | 228.1 | 229.8 | 231.4 | 233.0 |
| 60° | 187.7 | 187.7 | 187.7 | 189.4 | 190.9 | 192.5 | 190.9 | 194.2 | 194.2 | 197.4 | 199.0 |
| 62.5° | 157.0 | 158.6 | 158.6 | 158.6 | 158.6 | 158.6 | 158.6 | 160.2 | 161.8 | 163.5 | 165.0 |
| 65° | 127.9 | 127.9 | 127.9 | 126.2 | 127.9 | 126.2 | 127.9 | 129.4 | 129.4 | 131.1 | 132.7 |
| 67.5° | 98.7 | 98.7 | 95.5 | 95.5 | 97.0 | 97.0 | 97.0 | 97.0 | 95.5 | 98.7 | 98.7 |
| 70° | 71.2 | 69.6 | 68.0 | 66.3 | 66.3 | 64.8 | 64.8 | 63.1 | 63.1 | 63.1 | 63.1 |
| 72.5° | 46.9 | 43.7 | 40.4 | 38.9 | 37.2 | 37.2 | 33.9 | 32.4 | 33.9 | 33.9 | 33.9 |
| 75° | 24.2 | 21.0 | 19.4 | 17.8 | 16.2 | 16.2 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| 77.5° | 9.7 | 8.0 | 6.5 | 6.5 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 80° | 3.2 | 3.2 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 1.7 | 0.0 | 0.0 | 1.7 | 0.0 | 1.7 | 1.7 | 1.7 | 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: P593598

CATALOG NUMBER: HCC8S20D010BZ-HM80520850-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 2.5° | 1061.6 | 1061.6 | 1059.9 | 1061.6 | 1058.2 | 1059.9 | 1058.2 | 1058.2 |
| 5° | 1037.2 | 1034.0 | 1034.0 | 1034.0 | 1032.4 | 1032.4 | 1030.8 | 1030.8 |
| 7.5° | 1008.1 | 1006.5 | 1004.9 | 1003.3 | 1001.6 | 1000.0 | 1000.0 | 1000.0 |
| 10° | 978.9 | 975.7 | 975.7 | 974.1 | 970.9 | 969.2 | 969.2 | 969.2 |
| 12.5° | 945.0 | 943.4 | 941.8 | 941.8 | 935.3 | 937.0 | 935.3 | 935.3 |
| 15° | 912.6 | 911.0 | 911.0 | 906.1 | 902.9 | 902.9 | 902.9 | 901.3 |
| 17.5° | 878.7 | 877.0 | 875.4 | 872.2 | 869.0 | 869.0 | 867.4 | 869.0 |
| 20° | 843.1 | 841.5 | 838.2 | 838.2 | 836.6 | 835.0 | 831.8 | 833.3 |
| 22.5° | 807.4 | 804.2 | 802.6 | 802.6 | 801.0 | 801.0 | 797.7 | 797.7 |
| 25° | 770.2 | 768.7 | 767.0 | 768.7 | 765.3 | 765.3 | 762.2 | 762.2 |
| 27.5° | 731.4 | 729.8 | 729.8 | 729.8 | 728.2 | 729.8 | 728.2 | 728.2 |
| 30° | 692.5 | 692.5 | 691.0 | 691.0 | 692.5 | 691.0 | 692.5 | 694.2 |
| 32.5° | 650.5 | 650.5 | 652.1 | 652.1 | 653.8 | 653.8 | 653.8 | 653.8 |
| 35° | 606.8 | 610.0 | 610.0 | 611.7 | 613.3 | 614.9 | 614.9 | 616.5 |
| 37.5° | 566.4 | 568.0 | 569.6 | 571.3 | 574.5 | 574.5 | 574.5 | 574.5 |
| 40° | 522.7 | 524.3 | 527.5 | 525.9 | 532.4 | 534.0 | 532.4 | 532.4 |
| 42.5° | 477.4 | 480.6 | 482.3 | 485.4 | 487.1 | 490.3 | 491.9 | 491.9 |
| 45° | 435.3 | 436.9 | 440.2 | 443.4 | 445.0 | 449.9 | 449.9 | 449.9 |
| 47.5° | 391.6 | 394.8 | 396.4 | 399.6 | 401.3 | 406.1 | 407.8 | 406.1 |
| 50° | 349.5 | 352.7 | 356.0 | 356.0 | 360.9 | 362.5 | 365.7 | 367.4 |
| 52.5° | 309.1 | 310.6 | 313.9 | 315.6 | 318.8 | 322.0 | 323.6 | 325.3 |
| 55° | 270.2 | 271.9 | 275.1 | 275.1 | 279.9 | 281.6 | 284.7 | 284.7 |
| 57.5° | 234.6 | 236.3 | 239.5 | 237.8 | 241.1 | 244.3 | 244.3 | 242.8 |
| 60° | 200.7 | 200.7 | 200.7 | 203.9 | 205.5 | 207.1 | 208.7 | 208.7 |
| 62.5° | 165.0 | 168.3 | 169.9 | 169.9 | 171.5 | 173.2 | 173.2 | 171.5 |
| 65° | 132.7 | 135.9 | 137.6 | 137.6 | 139.1 | 139.1 | 139.1 | 140.8 |
| 67.5° | 100.4 | 100.4 | 100.4 | 101.9 | 100.4 | 100.4 | 100.4 | 100.4 |
| 70° | 63.1 | 63.1 | 63.1 | 63.1 | 61.5 | 63.1 | 63.1 | 64.8 |
| 72.5° | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 |
| 75° | 14.5 | 14.5 | 14.5 | 16.2 | 14.5 | 14.5 | 14.5 | 14.5 |
| 77.5° | 6.5 | 4.8 | 6.5 | 6.5 | 4.8 | 4.8 | 4.8 | 4.8 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 0.0 | 1.7 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)