

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: P584080

Luminaire Tested: **HCC8W20D010MW-HM80520935-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584080
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: HCC8W20D010MW-HM80520935-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

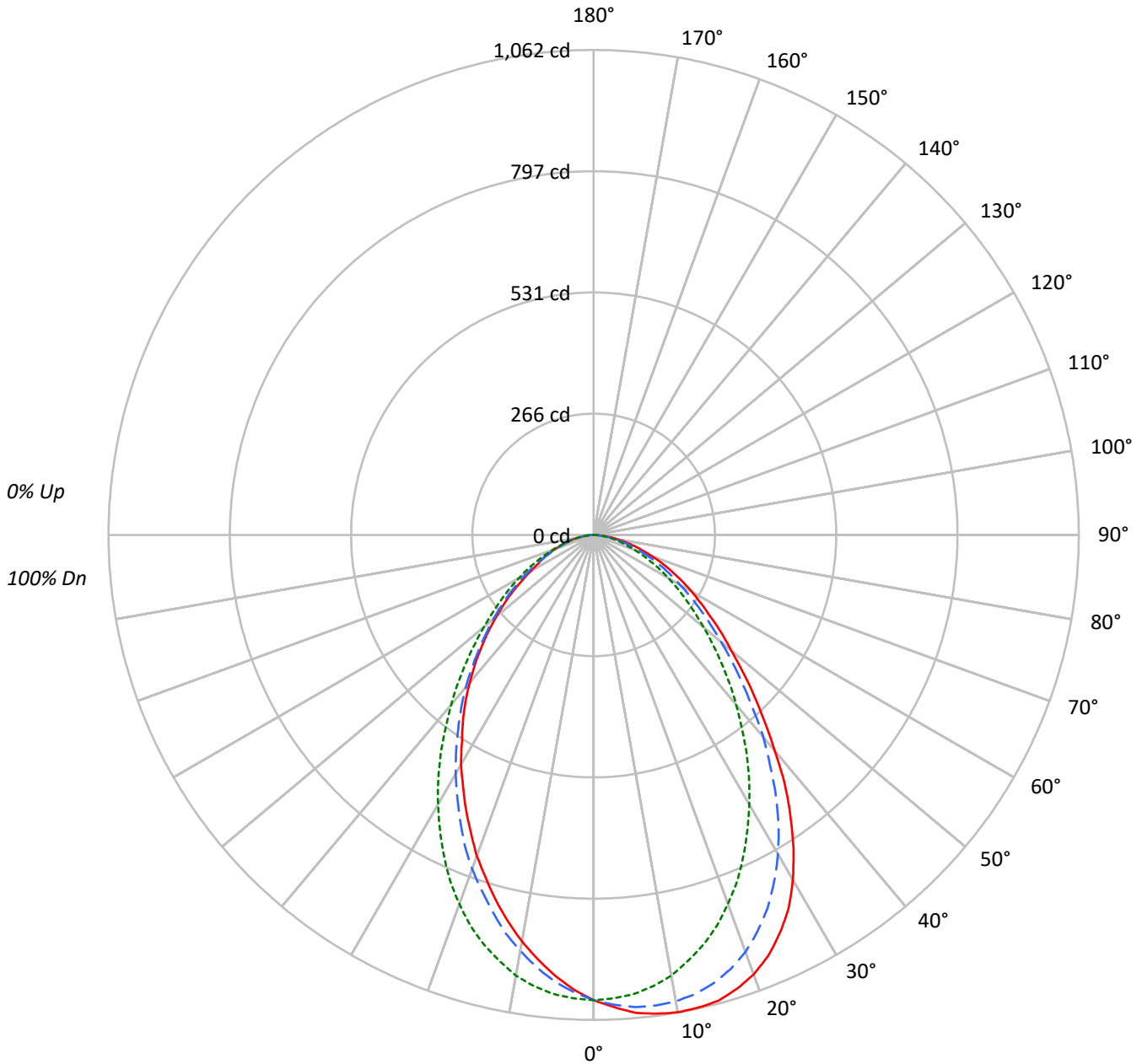
Lumens per Lamp: N/A
Luminaire Lumens: 1880.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P584080
CATALOG NUMBER: HCC8W20D010MW-HM80520935-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P584080

CATALOG NUMBER: HCC8W20D010MW-HM80520935-81WWW

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° | 31416 | 31416 | 31416 |
| 5° | 32520 | 31236 | 29995 |
| 10° | 33241 | 30686 | 28306 |
| 15° | 33712 | 29651 | 26433 |
| 20° | 33609 | 28215 | 24543 |
| 25° | 32779 | 26382 | 22531 |
| 30° | 31056 | 24262 | 20673 |
| 35° | 28256 | 21958 | 18784 |
| 40° | 24817 | 19531 | 16971 |
| 45° | 21639 | 17182 | 15128 |
| 50° | 18829 | 15054 | 13332 |
| 55° | 16795 | 13231 | 11591 |
| 60° | 15258 | 11588 | 9892 |
| 65° | 13710 | 10084 | 8975 |
| 70° | 12217 | 8601 | 8096 |
| 75° | 10699 | 7256 | 6910 |
| 80° | 9092 | 5896 | 6126 |
| 85° | 6864 | 4387 | 4883 |



TEST NUMBER: P584080
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.4 | 5.1 |
| 10°-20° | 262.9 | 14.0 |
| 20°-30° | 364.9 | 19.4 |
| 30°-40° | 377.3 | 20.1 |
| 40°-50° | 315.9 | 16.8 |
| 50°-60° | 229.3 | 12.2 |
| 60°-70° | 144.7 | 7.7 |
| 70°-80° | 71.7 | 3.8 |
| 80°-90° | 17.8 | 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° | 723.3 | 38.5 |
| 0°-40° | 1100.6 | 58.5 |
| 0°-60° | 1645.9 | 87.5 |
| 0°-90° | 1880.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1880.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1019 | 1019 | 1019 | 1019 | 1019 | |
| 5° | 1051 | 1038 | 1009 | 981 | 969 | 100 |
| 15° | 1056 | 1016 | 929 | 854 | 828 | 297 |
| 25° | 963 | 901 | 775 | 691 | 662 | 441 |
| 35° | 751 | 695 | 583 | 517 | 499 | 467 |
| 45° | 496 | 460 | 394 | 355 | 347 | 384 |
| 55° | 312 | 285 | 246 | 225 | 216 | 282 |
| 65° | 188 | 164 | 138 | 122 | 123 | 187 |
| 75° | 90 | 75 | 61 | 58 | 58 | 96 |
| 85° | 19 | 15 | 12 | 14 | 14 | 24 |
| 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° | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 |
| 2.5° | 1035.3 | 1035.3 | 1036.7 | 1035.3 | 1035.3 | 1035.3 | 1033.9 | 1033.9 | 1032.6 | 1032.6 | 1029.8 |
| 5° | 1050.6 | 1047.7 | 1050.6 | 1047.7 | 1047.7 | 1047.7 | 1046.4 | 1043.6 | 1042.2 | 1039.5 | 1038.0 |
| 7.5° | 1057.4 | 1056.0 | 1056.0 | 1054.7 | 1054.7 | 1053.3 | 1051.9 | 1050.6 | 1045.0 | 1043.6 | 1039.5 |
| 10° | 1061.6 | 1060.1 | 1060.1 | 1058.8 | 1056.0 | 1056.0 | 1053.3 | 1051.9 | 1045.0 | 1042.2 | 1036.7 |
| 12.5° | 1060.1 | 1060.1 | 1060.1 | 1058.8 | 1054.7 | 1053.3 | 1050.6 | 1046.4 | 1040.9 | 1035.3 | 1029.8 |
| 15° | 1056.0 | 1056.0 | 1053.3 | 1051.9 | 1047.7 | 1045.0 | 1043.6 | 1036.7 | 1031.2 | 1024.2 | 1015.9 |
| 17.5° | 1042.2 | 1042.2 | 1040.9 | 1038.0 | 1033.9 | 1031.2 | 1028.3 | 1021.5 | 1015.9 | 1004.9 | 996.7 |
| 20° | 1024.2 | 1022.9 | 1021.5 | 1017.3 | 1013.2 | 1011.8 | 1007.7 | 998.0 | 991.1 | 982.8 | 971.7 |
| 22.5° | 998.0 | 996.7 | 995.2 | 992.4 | 985.6 | 982.8 | 980.0 | 973.1 | 960.6 | 952.3 | 938.5 |
| 25° | 963.4 | 963.4 | 960.6 | 956.5 | 949.6 | 946.9 | 942.6 | 935.8 | 924.7 | 912.3 | 901.3 |
| 27.5° | 923.4 | 922.0 | 917.8 | 915.1 | 909.5 | 905.4 | 898.4 | 890.2 | 879.2 | 869.5 | 855.6 |
| 30° | 872.2 | 872.2 | 869.5 | 865.3 | 858.4 | 855.6 | 850.1 | 840.4 | 829.4 | 816.9 | 807.2 |
| 32.5° | 814.2 | 814.2 | 810.0 | 807.2 | 803.1 | 796.2 | 794.8 | 783.8 | 774.1 | 764.4 | 753.3 |
| 35° | 750.6 | 752.0 | 749.2 | 743.6 | 736.7 | 736.7 | 734.0 | 724.3 | 713.2 | 703.5 | 695.3 |
| 37.5° | 687.0 | 682.8 | 681.4 | 678.7 | 674.6 | 669.0 | 666.3 | 662.2 | 652.5 | 645.5 | 633.1 |
| 40° | 616.5 | 617.8 | 615.1 | 612.4 | 611.0 | 606.8 | 605.4 | 598.6 | 591.6 | 583.3 | 577.8 |
| 42.5° | 552.9 | 552.9 | 552.9 | 550.1 | 547.4 | 543.2 | 541.8 | 537.7 | 529.4 | 523.9 | 515.6 |
| 45° | 496.2 | 492.1 | 492.1 | 490.6 | 489.3 | 486.5 | 482.4 | 479.7 | 474.1 | 470.0 | 460.3 |
| 47.5° | 440.9 | 442.3 | 440.9 | 439.6 | 435.4 | 434.0 | 432.6 | 427.2 | 421.6 | 417.5 | 410.5 |
| 50° | 392.5 | 395.4 | 392.5 | 392.5 | 389.8 | 388.4 | 385.7 | 381.5 | 377.4 | 370.4 | 363.6 |
| 52.5° | 352.5 | 352.5 | 351.1 | 349.8 | 345.6 | 342.8 | 341.4 | 340.1 | 333.1 | 327.7 | 322.1 |
| 55° | 312.4 | 313.8 | 313.8 | 309.6 | 308.3 | 305.4 | 304.1 | 300.0 | 297.2 | 288.9 | 284.7 |
| 57.5° | 277.9 | 276.5 | 277.9 | 275.1 | 272.3 | 269.5 | 268.2 | 265.4 | 261.2 | 255.7 | 250.2 |
| 60° | 247.4 | 244.7 | 244.7 | 243.3 | 240.5 | 239.1 | 236.4 | 232.3 | 228.1 | 222.6 | 218.4 |
| 62.5° | 217.0 | 215.6 | 214.3 | 212.9 | 210.2 | 208.7 | 207.3 | 203.2 | 199.0 | 194.9 | 190.8 |
| 65° | 187.9 | 187.9 | 186.6 | 183.8 | 182.5 | 181.1 | 179.7 | 176.9 | 171.4 | 168.7 | 164.5 |
| 67.5° | 161.7 | 160.4 | 160.4 | 157.6 | 154.8 | 153.4 | 153.4 | 150.7 | 146.6 | 142.4 | 139.6 |
| 70° | 135.5 | 136.9 | 135.5 | 134.0 | 131.3 | 131.3 | 128.6 | 127.2 | 121.6 | 120.2 | 116.1 |
| 72.5° | 111.9 | 111.9 | 110.6 | 110.6 | 107.8 | 106.4 | 106.4 | 103.7 | 100.9 | 98.1 | 95.4 |
| 75° | 89.8 | 89.8 | 89.8 | 88.4 | 87.1 | 84.3 | 84.3 | 83.0 | 80.1 | 77.4 | 74.6 |
| 77.5° | 70.4 | 69.1 | 69.1 | 67.7 | 66.3 | 65.0 | 65.0 | 63.6 | 60.9 | 59.5 | 56.6 |
| 80° | 51.2 | 49.8 | 49.8 | 49.8 | 47.0 | 48.3 | 47.0 | 45.6 | 44.2 | 42.9 | 41.5 |
| 82.5° | 33.2 | 34.5 | 34.5 | 33.2 | 31.8 | 31.8 | 31.8 | 30.4 | 30.4 | 29.1 | 27.7 |
| 85° | 19.4 | 19.4 | 19.4 | 19.4 | 18.0 | 18.0 | 18.0 | 16.5 | 16.5 | 16.5 | 15.2 |
| 87.5° | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 |
| 2.5° | 1029.8 | 1027.0 | 1025.6 | 1024.2 | 1024.2 | 1022.9 | 1021.5 | 1018.8 | 1018.8 | 1015.9 | 1014.6 |
| 5° | 1035.3 | 1031.2 | 1028.3 | 1025.6 | 1024.2 | 1021.5 | 1018.8 | 1014.6 | 1013.2 | 1009.1 | 1004.9 |
| 7.5° | 1036.7 | 1029.8 | 1027.0 | 1021.5 | 1018.8 | 1015.9 | 1010.4 | 1006.2 | 1000.8 | 996.7 | 991.1 |
| 10° | 1031.2 | 1025.6 | 1018.8 | 1011.8 | 1010.4 | 1006.2 | 998.0 | 992.4 | 985.6 | 980.0 | 971.7 |
| 12.5° | 1022.9 | 1014.6 | 1007.7 | 999.4 | 995.2 | 991.1 | 982.8 | 974.4 | 964.9 | 955.2 | 946.9 |
| 15° | 1009.1 | 999.4 | 989.7 | 980.0 | 974.4 | 970.3 | 960.6 | 951.0 | 941.3 | 928.8 | 920.5 |
| 17.5° | 988.3 | 977.3 | 967.6 | 955.2 | 949.6 | 945.5 | 933.1 | 922.0 | 909.5 | 897.1 | 888.7 |
| 20° | 962.0 | 948.2 | 937.2 | 923.4 | 919.2 | 912.3 | 899.9 | 887.4 | 873.6 | 859.8 | 850.1 |
| 22.5° | 927.5 | 913.7 | 901.3 | 887.4 | 880.5 | 873.6 | 861.1 | 846.0 | 832.1 | 821.0 | 811.3 |
| 25° | 887.4 | 874.9 | 859.8 | 847.4 | 839.0 | 830.7 | 816.9 | 804.5 | 792.1 | 775.4 | 765.8 |
| 27.5° | 843.1 | 828.0 | 816.9 | 800.3 | 792.1 | 786.5 | 771.3 | 754.7 | 743.6 | 728.5 | 717.4 |
| 30° | 793.4 | 779.6 | 767.1 | 750.6 | 742.3 | 736.7 | 722.9 | 707.7 | 696.7 | 681.4 | 670.4 |
| 32.5° | 740.9 | 725.6 | 710.5 | 699.4 | 689.7 | 684.3 | 669.0 | 659.3 | 645.5 | 633.1 | 620.7 |
| 35° | 684.3 | 669.0 | 657.9 | 642.8 | 637.2 | 631.7 | 619.2 | 606.8 | 594.4 | 583.3 | 573.6 |
| 37.5° | 623.4 | 612.4 | 599.9 | 588.9 | 584.7 | 579.2 | 563.9 | 552.9 | 543.2 | 532.1 | 523.9 |
| 40° | 563.9 | 554.2 | 546.0 | 535.0 | 528.0 | 523.9 | 512.9 | 503.2 | 492.1 | 485.2 | 476.8 |
| 42.5° | 510.0 | 499.0 | 490.6 | 482.4 | 475.5 | 471.4 | 461.7 | 454.7 | 446.4 | 439.6 | 429.9 |
| 45° | 453.4 | 447.9 | 438.2 | 431.3 | 427.2 | 421.6 | 414.6 | 406.4 | 399.5 | 394.0 | 387.0 |
| 47.5° | 403.7 | 398.1 | 391.1 | 382.8 | 380.1 | 376.0 | 369.0 | 363.6 | 358.0 | 352.5 | 345.6 |
| 50° | 358.0 | 351.1 | 345.6 | 340.1 | 337.2 | 333.1 | 326.2 | 323.4 | 319.3 | 313.8 | 309.6 |
| 52.5° | 316.5 | 311.0 | 305.4 | 298.6 | 297.2 | 294.4 | 290.3 | 284.7 | 280.6 | 277.9 | 275.1 |
| 55° | 279.2 | 273.6 | 269.5 | 264.1 | 262.6 | 259.9 | 254.4 | 251.5 | 248.8 | 246.1 | 243.3 |
| 57.5° | 246.1 | 240.5 | 235.0 | 232.3 | 229.4 | 226.7 | 225.3 | 221.2 | 218.4 | 217.0 | 214.3 |
| 60° | 215.6 | 210.2 | 205.9 | 201.8 | 200.5 | 199.0 | 196.3 | 193.5 | 190.8 | 187.9 | 186.6 |
| 62.5° | 186.6 | 181.1 | 178.4 | 175.5 | 172.8 | 172.8 | 170.0 | 167.3 | 164.5 | 163.1 | 160.4 |
| 65° | 160.4 | 157.6 | 153.4 | 149.3 | 147.9 | 147.9 | 143.7 | 142.4 | 141.0 | 138.2 | 135.5 |
| 67.5° | 135.5 | 132.7 | 128.6 | 127.2 | 125.8 | 124.3 | 123.0 | 120.2 | 117.5 | 116.1 | 113.4 |
| 70° | 113.4 | 110.6 | 107.8 | 106.4 | 105.1 | 103.7 | 100.9 | 99.5 | 96.8 | 95.4 | 94.0 |
| 72.5° | 91.3 | 89.8 | 87.1 | 85.7 | 84.3 | 83.0 | 81.6 | 80.1 | 77.4 | 76.0 | 74.6 |
| 75° | 73.3 | 71.9 | 69.1 | 67.7 | 66.3 | 66.3 | 65.0 | 62.2 | 60.9 | 60.9 | 59.5 |
| 77.5° | 55.3 | 53.9 | 52.5 | 51.2 | 49.8 | 49.8 | 48.3 | 47.0 | 45.6 | 45.6 | 44.2 |
| 80° | 40.1 | 38.7 | 37.4 | 37.4 | 37.4 | 35.9 | 34.5 | 34.5 | 33.2 | 33.2 | 31.8 |
| 82.5° | 26.2 | 26.2 | 24.8 | 24.8 | 24.8 | 23.5 | 23.5 | 22.1 | 22.1 | 22.1 | 22.1 |
| 85° | 15.2 | 15.2 | 15.2 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 12.4 | 13.8 |
| 87.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 5.6 | 5.6 | 5.6 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 |
| 2.5° | 1013.2 | 1011.8 | 1009.1 | 1009.1 | 1006.2 | 1006.2 | 1004.9 | 1003.5 | 1002.1 | 1000.8 | 999.4 |
| 5° | 1003.5 | 998.0 | 995.2 | 993.8 | 991.1 | 989.7 | 985.6 | 982.8 | 981.4 | 978.6 | 975.9 |
| 7.5° | 985.6 | 980.0 | 974.4 | 973.1 | 971.7 | 966.2 | 962.0 | 957.9 | 955.2 | 952.3 | 949.6 |
| 10° | 964.9 | 959.3 | 952.3 | 949.6 | 946.9 | 939.9 | 934.4 | 930.2 | 924.7 | 919.2 | 917.8 |
| 12.5° | 939.9 | 931.7 | 923.4 | 920.5 | 916.4 | 909.5 | 904.0 | 897.1 | 892.9 | 886.0 | 884.6 |
| 15° | 910.8 | 901.3 | 894.3 | 887.4 | 884.6 | 877.8 | 868.1 | 862.5 | 854.2 | 851.5 | 844.5 |
| 17.5° | 876.3 | 866.6 | 857.0 | 854.2 | 850.1 | 840.4 | 830.7 | 823.9 | 815.6 | 811.3 | 807.2 |
| 20° | 840.4 | 828.0 | 818.3 | 815.6 | 810.0 | 801.8 | 792.1 | 785.1 | 778.2 | 770.0 | 765.8 |
| 22.5° | 798.9 | 785.1 | 776.8 | 770.0 | 768.5 | 758.8 | 747.9 | 742.3 | 736.7 | 729.9 | 724.3 |
| 25° | 753.3 | 740.9 | 731.2 | 725.6 | 722.9 | 714.6 | 706.4 | 699.4 | 691.1 | 687.0 | 680.1 |
| 27.5° | 706.4 | 698.1 | 685.6 | 680.1 | 675.9 | 669.0 | 659.3 | 655.2 | 646.9 | 641.4 | 637.2 |
| 30° | 660.7 | 648.3 | 641.4 | 634.5 | 630.4 | 623.4 | 615.1 | 611.0 | 604.0 | 598.6 | 594.4 |
| 32.5° | 611.0 | 602.7 | 593.0 | 590.2 | 584.7 | 577.8 | 572.2 | 565.4 | 559.8 | 554.2 | 552.9 |
| 35° | 565.4 | 554.2 | 544.7 | 541.8 | 537.7 | 530.8 | 528.0 | 523.9 | 517.0 | 515.6 | 510.0 |
| 37.5° | 515.6 | 510.0 | 499.0 | 494.9 | 493.5 | 487.9 | 482.4 | 479.7 | 475.5 | 471.4 | 470.0 |
| 40° | 468.5 | 461.7 | 456.1 | 452.0 | 449.3 | 445.1 | 439.6 | 438.2 | 435.4 | 429.9 | 428.5 |
| 42.5° | 424.3 | 417.5 | 411.9 | 410.5 | 406.4 | 402.2 | 399.5 | 395.4 | 394.0 | 392.5 | 389.8 |
| 45° | 381.5 | 377.4 | 371.9 | 370.4 | 369.0 | 363.6 | 360.7 | 358.0 | 355.2 | 353.9 | 351.1 |
| 47.5° | 342.8 | 338.6 | 334.5 | 333.1 | 330.4 | 329.0 | 324.8 | 323.4 | 319.3 | 318.0 | 316.5 |
| 50° | 305.4 | 302.7 | 300.0 | 298.6 | 295.9 | 294.4 | 291.6 | 288.9 | 286.2 | 284.7 | 283.3 |
| 52.5° | 272.3 | 269.5 | 266.8 | 265.4 | 264.1 | 261.2 | 258.5 | 255.7 | 254.4 | 252.9 | 251.5 |
| 55° | 240.5 | 237.7 | 236.4 | 235.0 | 233.6 | 232.3 | 228.1 | 226.7 | 225.3 | 223.9 | 221.2 |
| 57.5° | 211.5 | 208.7 | 205.9 | 205.9 | 204.6 | 203.2 | 200.5 | 197.6 | 197.6 | 194.9 | 192.1 |
| 60° | 185.2 | 182.5 | 179.7 | 178.4 | 176.9 | 174.1 | 172.8 | 171.4 | 170.0 | 168.7 | 165.8 |
| 62.5° | 157.6 | 156.1 | 153.4 | 153.4 | 150.7 | 149.3 | 147.9 | 146.6 | 145.1 | 142.4 | 141.0 |
| 65° | 134.0 | 132.7 | 129.9 | 128.6 | 128.6 | 127.2 | 124.3 | 123.0 | 121.6 | 121.6 | 120.2 |
| 67.5° | 111.9 | 110.6 | 107.8 | 106.4 | 106.4 | 105.1 | 103.7 | 103.7 | 102.2 | 100.9 | 102.2 |
| 70° | 92.7 | 89.8 | 89.8 | 88.4 | 88.4 | 87.1 | 85.7 | 85.7 | 85.7 | 87.1 | 87.1 |
| 72.5° | 73.3 | 71.9 | 70.4 | 70.4 | 70.4 | 70.4 | 69.1 | 69.1 | 70.4 | 71.9 | 71.9 |
| 75° | 58.0 | 56.6 | 56.6 | 56.6 | 55.3 | 55.3 | 56.6 | 56.6 | 58.0 | 58.0 | 58.0 |
| 77.5° | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 44.2 | 44.2 | 45.6 | 45.6 | 45.6 |
| 80° | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 34.5 |
| 82.5° | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 23.5 | 23.5 | 23.5 | 23.5 |
| 85° | 12.4 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 |
| 87.5° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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: P584080

CATALOG NUMBER: HCC8W20D010MW-HM80520935-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 | 1018.8 |
| 2.5° | 998.0 | 998.0 | 998.0 | 999.4 | 996.7 | 996.7 | 996.7 | 996.7 |
| 5° | 974.4 | 973.1 | 971.7 | 973.1 | 970.3 | 970.3 | 969.0 | 969.0 |
| 7.5° | 945.5 | 944.1 | 942.6 | 942.6 | 939.9 | 939.9 | 938.5 | 937.2 |
| 10° | 913.7 | 910.8 | 912.3 | 909.5 | 908.1 | 906.7 | 905.4 | 904.0 |
| 12.5° | 879.2 | 876.3 | 874.9 | 872.2 | 869.5 | 868.1 | 869.5 | 866.6 |
| 15° | 841.8 | 837.7 | 836.3 | 833.5 | 830.7 | 829.4 | 829.4 | 828.0 |
| 17.5° | 800.3 | 797.6 | 796.2 | 793.4 | 792.1 | 789.2 | 787.9 | 786.5 |
| 20° | 761.6 | 754.7 | 756.1 | 753.3 | 752.0 | 746.4 | 746.4 | 747.9 |
| 22.5° | 718.8 | 714.6 | 711.9 | 709.1 | 707.7 | 704.9 | 704.9 | 703.5 |
| 25° | 675.9 | 671.7 | 670.4 | 667.6 | 666.3 | 663.5 | 662.2 | 662.2 |
| 27.5° | 634.5 | 628.9 | 628.9 | 626.1 | 623.4 | 622.0 | 620.7 | 619.2 |
| 30° | 590.2 | 586.0 | 584.7 | 584.7 | 583.3 | 583.3 | 579.2 | 580.6 |
| 32.5° | 548.8 | 546.0 | 544.7 | 541.8 | 541.8 | 540.4 | 540.4 | 536.3 |
| 35° | 507.3 | 503.2 | 504.5 | 501.8 | 500.3 | 499.0 | 500.3 | 499.0 |
| 37.5° | 467.2 | 464.4 | 464.4 | 461.7 | 461.7 | 460.3 | 458.9 | 461.7 |
| 40° | 427.2 | 425.8 | 424.3 | 422.9 | 424.3 | 422.9 | 420.2 | 421.6 |
| 42.5° | 387.0 | 387.0 | 385.7 | 385.7 | 384.3 | 384.3 | 384.3 | 384.3 |
| 45° | 351.1 | 349.8 | 349.8 | 348.3 | 348.3 | 348.3 | 348.3 | 346.9 |
| 47.5° | 315.1 | 313.8 | 313.8 | 313.8 | 312.4 | 312.4 | 311.0 | 312.4 |
| 50° | 280.6 | 280.6 | 279.2 | 279.2 | 280.6 | 279.2 | 277.9 | 277.9 |
| 52.5° | 248.8 | 248.8 | 247.4 | 247.4 | 246.1 | 244.7 | 246.1 | 246.1 |
| 55° | 219.7 | 218.4 | 217.0 | 217.0 | 215.6 | 214.3 | 214.3 | 215.6 |
| 57.5° | 192.1 | 190.8 | 189.4 | 189.4 | 186.6 | 185.2 | 185.2 | 185.2 |
| 60° | 165.8 | 163.1 | 163.1 | 161.7 | 161.7 | 160.4 | 160.4 | 160.4 |
| 62.5° | 141.0 | 139.6 | 139.6 | 139.6 | 139.6 | 138.2 | 138.2 | 138.2 |
| 65° | 120.2 | 120.2 | 120.2 | 121.6 | 121.6 | 123.0 | 123.0 | 123.0 |
| 67.5° | 103.7 | 105.1 | 105.1 | 105.1 | 106.4 | 106.4 | 106.4 | 105.1 |
| 70° | 88.4 | 88.4 | 88.4 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 |
| 72.5° | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 |
| 75° | 58.0 | 59.5 | 59.5 | 59.5 | 58.0 | 59.5 | 59.5 | 58.0 |
| 77.5° | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| 80° | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 |
| 82.5° | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| 85° | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 |
| 87.5° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 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)