

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: P585253

Luminaire Tested: **HCC8W80D010BZ-HM86080840-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585253
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: HCC8W80D010BZ-HM86080840-81WWW
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

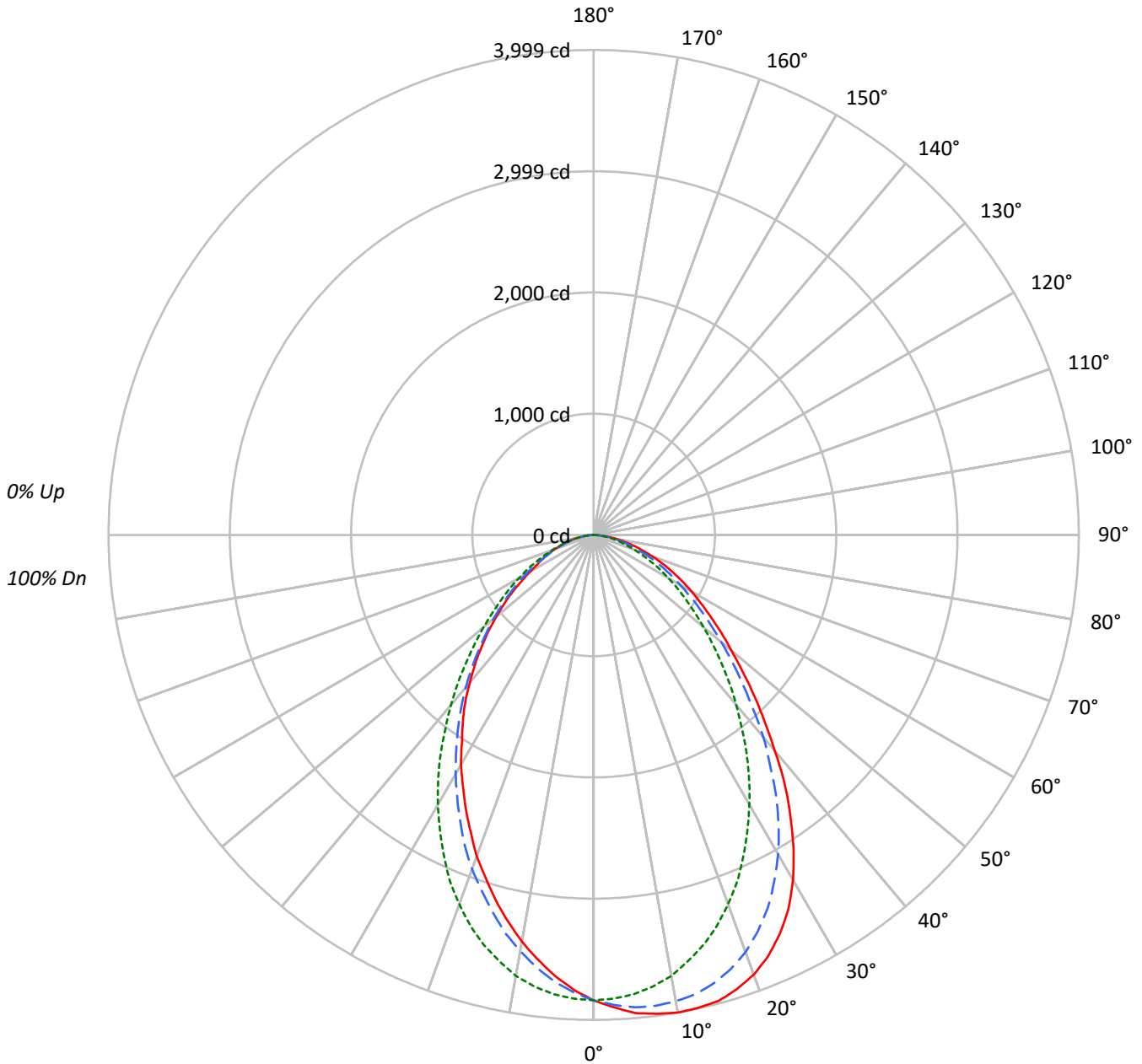
Lumens per Lamp: N/A
Luminaire Lumens: 7082.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585253
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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° | 118337 | 118337 | 118337 |
| 5° | 122495 | 117660 | 112986 |
| 10° | 125217 | 115595 | 106630 |
| 15° | 127000 | 111706 | 99571 |
| 20° | 126615 | 106279 | 92441 |
| 25° | 123484 | 99388 | 84863 |
| 30° | 116989 | 91406 | 77868 |
| 35° | 106435 | 82719 | 70760 |
| 40° | 93486 | 73568 | 63927 |
| 45° | 81519 | 64716 | 56993 |
| 50° | 70942 | 56704 | 50208 |
| 55° | 63267 | 49826 | 43670 |
| 60° | 57485 | 43677 | 37250 |
| 65° | 51674 | 37993 | 33819 |
| 70° | 46008 | 32394 | 30519 |
| 75° | 40330 | 27296 | 26056 |
| 80° | 34202 | 22197 | 23121 |
| 85° | 25793 | 16558 | 18433 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 359.4 | 5.1 |
| 10°-20° | 990.4 | 14.0 |
| 20°-30° | 1374.7 | 19.4 |
| 30°-40° | 1421.3 | 20.1 |
| 40°-50° | 1190.1 | 16.8 |
| 50°-60° | 863.9 | 12.2 |
| 60°-70° | 545.2 | 7.7 |
| 70°-80° | 270.1 | 3.8 |
| 80°-90° | 67.1 | 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° | 2724.6 | 38.5 |
| 0°-40° | 4145.9 | 58.5 |
| 0°-60° | 6200.0 | 87.5 |
| 0°-90° | 7082.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7082.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3838 | 3838 | 3838 | 3838 | 3838 | |
| 5° | 3957 | 3910 | 3801 | 3697 | 3650 | 379 |
| 15° | 3978 | 3827 | 3499 | 3218 | 3119 | 1120 |
| 25° | 3629 | 3395 | 2921 | 2604 | 2494 | 1663 |
| 35° | 2827 | 2619 | 2197 | 1948 | 1880 | 1761 |
| 45° | 1869 | 1734 | 1484 | 1338 | 1307 | 1446 |
| 55° | 1177 | 1073 | 927 | 849 | 812 | 1062 |
| 65° | 708 | 620 | 521 | 458 | 464 | 706 |
| 75° | 338 | 281 | 229 | 219 | 219 | 363 |
| 85° | 73 | 57 | 47 | 52 | 52 | 89 |
| 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° | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 |
| 2.5° | 3900.0 | 3900.0 | 3905.3 | 3900.0 | 3900.0 | 3900.0 | 3894.8 | 3894.8 | 3889.6 | 3889.6 | 3879.2 |
| 5° | 3957.3 | 3946.9 | 3957.3 | 3946.9 | 3946.9 | 3946.9 | 3941.7 | 3931.3 | 3926.1 | 3915.6 | 3910.5 |
| 7.5° | 3983.4 | 3978.2 | 3978.2 | 3972.9 | 3972.9 | 3967.7 | 3962.6 | 3957.3 | 3936.5 | 3931.3 | 3915.6 |
| 10° | 3999.0 | 3993.7 | 3993.7 | 3988.6 | 3978.2 | 3978.2 | 3967.7 | 3962.6 | 3936.5 | 3926.1 | 3905.3 |
| 12.5° | 3993.7 | 3993.7 | 3993.7 | 3988.6 | 3972.9 | 3967.7 | 3957.3 | 3941.7 | 3920.8 | 3900.0 | 3879.2 |
| 15° | 3978.2 | 3978.2 | 3967.7 | 3962.6 | 3946.9 | 3936.5 | 3931.3 | 3905.3 | 3884.5 | 3858.4 | 3827.2 |
| 17.5° | 3926.1 | 3926.1 | 3920.8 | 3910.5 | 3894.8 | 3884.5 | 3874.0 | 3848.0 | 3827.2 | 3785.5 | 3754.3 |
| 20° | 3858.4 | 3853.2 | 3848.0 | 3832.4 | 3816.7 | 3811.6 | 3795.9 | 3759.5 | 3733.5 | 3702.2 | 3660.6 |
| 22.5° | 3759.5 | 3754.3 | 3749.0 | 3738.6 | 3712.7 | 3702.2 | 3691.7 | 3665.7 | 3618.8 | 3587.6 | 3535.6 |
| 25° | 3629.3 | 3629.3 | 3618.8 | 3603.3 | 3577.2 | 3566.8 | 3551.2 | 3525.1 | 3483.5 | 3436.6 | 3395.0 |
| 27.5° | 3478.3 | 3473.1 | 3457.5 | 3447.0 | 3426.2 | 3410.6 | 3384.6 | 3353.3 | 3311.6 | 3275.2 | 3223.1 |
| 30° | 3285.6 | 3285.6 | 3275.2 | 3259.6 | 3233.6 | 3223.1 | 3202.3 | 3165.8 | 3124.2 | 3077.4 | 3040.9 |
| 32.5° | 3066.9 | 3066.9 | 3051.3 | 3040.9 | 3025.3 | 2999.3 | 2994.0 | 2952.4 | 2915.9 | 2879.5 | 2837.8 |
| 35° | 2827.4 | 2832.6 | 2822.2 | 2801.4 | 2775.4 | 2775.4 | 2764.9 | 2728.5 | 2686.8 | 2650.4 | 2619.1 |
| 37.5° | 2587.9 | 2572.3 | 2567.1 | 2556.6 | 2541.0 | 2520.2 | 2509.7 | 2494.2 | 2457.7 | 2431.6 | 2384.8 |
| 40° | 2322.4 | 2327.6 | 2317.1 | 2306.7 | 2301.5 | 2285.9 | 2280.6 | 2254.6 | 2228.5 | 2197.4 | 2176.6 |
| 42.5° | 2082.8 | 2082.8 | 2082.8 | 2072.4 | 2062.0 | 2046.4 | 2041.2 | 2025.6 | 1994.3 | 1973.5 | 1942.2 |
| 45° | 1869.3 | 1853.7 | 1853.7 | 1848.5 | 1843.3 | 1832.8 | 1817.3 | 1806.8 | 1786.0 | 1770.4 | 1733.9 |
| 47.5° | 1661.0 | 1666.3 | 1661.0 | 1655.8 | 1640.2 | 1635.0 | 1629.8 | 1609.0 | 1588.1 | 1572.6 | 1546.5 |
| 50° | 1478.8 | 1489.2 | 1478.8 | 1478.8 | 1468.4 | 1463.2 | 1452.7 | 1437.1 | 1421.6 | 1395.5 | 1369.5 |
| 52.5° | 1327.8 | 1327.8 | 1322.5 | 1317.4 | 1301.7 | 1291.4 | 1286.1 | 1280.9 | 1254.9 | 1234.1 | 1213.3 |
| 55° | 1176.8 | 1182.0 | 1182.0 | 1166.4 | 1161.2 | 1150.7 | 1145.5 | 1129.9 | 1119.6 | 1088.3 | 1072.6 |
| 57.5° | 1046.6 | 1041.4 | 1046.6 | 1036.2 | 1025.8 | 1015.4 | 1010.2 | 999.7 | 984.1 | 963.3 | 942.5 |
| 60° | 932.1 | 921.6 | 921.6 | 916.5 | 906.0 | 900.8 | 890.4 | 874.7 | 859.2 | 838.4 | 822.7 |
| 62.5° | 817.6 | 812.3 | 807.1 | 801.9 | 791.5 | 786.3 | 781.1 | 765.5 | 749.8 | 734.2 | 718.5 |
| 65° | 708.2 | 708.2 | 702.9 | 692.5 | 687.4 | 682.1 | 676.9 | 666.6 | 645.6 | 635.3 | 619.6 |
| 67.5° | 609.2 | 604.0 | 604.0 | 593.5 | 583.2 | 578.0 | 578.0 | 567.5 | 551.9 | 536.4 | 525.9 |
| 70° | 510.3 | 515.6 | 510.3 | 505.1 | 494.6 | 494.6 | 484.3 | 479.0 | 458.2 | 453.0 | 437.4 |
| 72.5° | 421.7 | 421.7 | 416.5 | 416.5 | 406.2 | 400.9 | 400.9 | 390.5 | 380.1 | 369.7 | 359.3 |
| 75° | 338.5 | 338.5 | 338.5 | 333.3 | 328.0 | 317.6 | 317.6 | 312.5 | 302.0 | 291.5 | 281.2 |
| 77.5° | 265.5 | 260.4 | 260.4 | 255.2 | 249.9 | 244.7 | 244.7 | 239.5 | 229.1 | 223.9 | 213.5 |
| 80° | 192.6 | 187.5 | 187.5 | 187.5 | 177.0 | 182.3 | 177.0 | 171.8 | 166.6 | 161.5 | 156.2 |
| 82.5° | 125.0 | 130.2 | 130.2 | 125.0 | 119.7 | 119.7 | 119.7 | 114.5 | 114.5 | 109.4 | 104.2 |
| 85° | 72.9 | 72.9 | 72.9 | 72.9 | 67.7 | 67.7 | 67.7 | 62.5 | 62.5 | 62.5 | 57.3 |
| 87.5° | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| 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):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 |
| 2.5° | 3879.2 | 3868.8 | 3863.7 | 3858.4 | 3858.4 | 3853.2 | 3848.0 | 3837.6 | 3837.6 | 3827.2 | 3821.9 |
| 5° | 3900.0 | 3884.5 | 3874.0 | 3863.7 | 3858.4 | 3848.0 | 3837.6 | 3821.9 | 3816.7 | 3801.1 | 3785.5 |
| 7.5° | 3905.3 | 3879.2 | 3868.8 | 3848.0 | 3837.6 | 3827.2 | 3806.3 | 3790.7 | 3769.8 | 3754.3 | 3733.5 |
| 10° | 3884.5 | 3863.7 | 3837.6 | 3811.6 | 3806.3 | 3790.7 | 3759.5 | 3738.6 | 3712.7 | 3691.7 | 3660.6 |
| 12.5° | 3853.2 | 3821.9 | 3795.9 | 3764.6 | 3749.0 | 3733.5 | 3702.2 | 3670.9 | 3634.5 | 3598.0 | 3566.8 |
| 15° | 3801.1 | 3764.6 | 3728.2 | 3691.7 | 3670.9 | 3655.3 | 3618.8 | 3582.5 | 3546.0 | 3499.1 | 3467.8 |
| 17.5° | 3723.0 | 3681.4 | 3644.9 | 3598.0 | 3577.2 | 3561.6 | 3514.7 | 3473.1 | 3426.2 | 3379.4 | 3348.1 |
| 20° | 3624.1 | 3572.0 | 3530.4 | 3478.3 | 3462.6 | 3436.6 | 3389.7 | 3342.9 | 3290.8 | 3238.7 | 3202.3 |
| 22.5° | 3493.9 | 3441.8 | 3395.0 | 3342.9 | 3316.8 | 3290.8 | 3243.9 | 3186.6 | 3134.6 | 3092.9 | 3056.6 |
| 25° | 3342.9 | 3296.0 | 3238.7 | 3191.9 | 3160.6 | 3129.4 | 3077.4 | 3030.5 | 2983.6 | 2921.1 | 2884.6 |
| 27.5° | 3176.3 | 3119.0 | 3077.4 | 3014.8 | 2983.6 | 2962.8 | 2905.6 | 2843.0 | 2801.4 | 2744.1 | 2702.5 |
| 30° | 2988.8 | 2936.7 | 2889.9 | 2827.4 | 2796.2 | 2775.4 | 2723.3 | 2666.0 | 2624.4 | 2567.1 | 2525.4 |
| 32.5° | 2790.9 | 2733.6 | 2676.4 | 2634.7 | 2598.3 | 2577.5 | 2520.2 | 2483.7 | 2431.6 | 2384.8 | 2337.9 |
| 35° | 2577.5 | 2520.2 | 2478.6 | 2421.3 | 2400.5 | 2379.5 | 2332.7 | 2285.9 | 2239.0 | 2197.4 | 2160.9 |
| 37.5° | 2348.4 | 2306.7 | 2259.8 | 2218.2 | 2202.6 | 2181.7 | 2124.5 | 2082.8 | 2046.4 | 2004.7 | 1973.5 |
| 40° | 2124.5 | 2088.0 | 2056.7 | 2015.1 | 1989.1 | 1973.5 | 1931.8 | 1895.4 | 1853.7 | 1827.6 | 1796.5 |
| 42.5° | 1921.4 | 1879.7 | 1848.5 | 1817.3 | 1791.2 | 1775.5 | 1739.2 | 1713.1 | 1681.8 | 1655.8 | 1619.4 |
| 45° | 1707.9 | 1687.1 | 1650.6 | 1624.5 | 1609.0 | 1588.1 | 1562.1 | 1530.8 | 1504.8 | 1484.0 | 1458.0 |
| 47.5° | 1520.5 | 1499.6 | 1473.5 | 1442.4 | 1431.9 | 1416.3 | 1390.3 | 1369.5 | 1348.6 | 1327.8 | 1301.7 |
| 50° | 1348.6 | 1322.5 | 1301.7 | 1280.9 | 1270.6 | 1254.9 | 1228.8 | 1218.5 | 1202.8 | 1182.0 | 1166.4 |
| 52.5° | 1192.4 | 1171.5 | 1150.7 | 1124.7 | 1119.6 | 1109.1 | 1093.5 | 1072.6 | 1057.0 | 1046.6 | 1036.2 |
| 55° | 1051.8 | 1031.0 | 1015.4 | 994.5 | 989.4 | 978.9 | 958.1 | 947.6 | 937.3 | 926.8 | 916.5 |
| 57.5° | 926.8 | 906.0 | 885.2 | 874.7 | 864.4 | 853.9 | 848.7 | 833.1 | 822.7 | 817.6 | 807.1 |
| 60° | 812.3 | 791.5 | 775.8 | 760.2 | 755.0 | 749.8 | 739.4 | 729.0 | 718.5 | 708.2 | 702.9 |
| 62.5° | 702.9 | 682.1 | 671.7 | 661.3 | 650.9 | 650.9 | 640.5 | 630.1 | 619.6 | 614.5 | 604.0 |
| 65° | 604.0 | 593.5 | 578.0 | 562.4 | 557.2 | 557.2 | 541.5 | 536.4 | 531.1 | 520.7 | 510.3 |
| 67.5° | 510.3 | 499.9 | 484.3 | 479.0 | 473.8 | 468.6 | 463.5 | 453.0 | 442.5 | 437.4 | 427.0 |
| 70° | 427.0 | 416.5 | 406.2 | 400.9 | 395.7 | 390.5 | 380.1 | 374.9 | 364.5 | 359.3 | 354.1 |
| 72.5° | 343.6 | 338.5 | 328.0 | 322.8 | 317.6 | 312.5 | 307.2 | 302.0 | 291.5 | 286.4 | 281.2 |
| 75° | 276.0 | 270.7 | 260.4 | 255.2 | 249.9 | 249.9 | 244.7 | 234.4 | 229.1 | 229.1 | 223.9 |
| 77.5° | 208.3 | 203.1 | 197.8 | 192.6 | 187.5 | 187.5 | 182.3 | 177.0 | 171.8 | 171.8 | 166.6 |
| 80° | 151.0 | 145.8 | 140.5 | 140.5 | 140.5 | 135.4 | 130.2 | 130.2 | 125.0 | 125.0 | 119.7 |
| 82.5° | 98.9 | 98.9 | 93.7 | 93.7 | 93.7 | 88.5 | 88.5 | 83.3 | 83.3 | 83.3 | 83.3 |
| 85° | 57.3 | 57.3 | 57.3 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 46.8 | 52.1 |
| 87.5° | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 20.8 | 20.8 | 20.8 |
| 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° | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 |
| 2.5° | 3816.7 | 3811.6 | 3801.1 | 3801.1 | 3790.7 | 3790.7 | 3785.5 | 3780.3 | 3775.1 | 3769.8 | 3764.6 |
| 5° | 3780.3 | 3759.5 | 3749.0 | 3743.8 | 3733.5 | 3728.2 | 3712.7 | 3702.2 | 3697.0 | 3686.6 | 3676.2 |
| 7.5° | 3712.7 | 3691.7 | 3670.9 | 3665.7 | 3660.6 | 3639.6 | 3624.1 | 3608.5 | 3598.0 | 3587.6 | 3577.2 |
| 10° | 3634.5 | 3613.6 | 3587.6 | 3577.2 | 3566.8 | 3540.7 | 3519.9 | 3504.3 | 3483.5 | 3462.6 | 3457.5 |
| 12.5° | 3540.7 | 3509.6 | 3478.3 | 3467.8 | 3452.3 | 3426.2 | 3405.4 | 3379.4 | 3363.7 | 3337.6 | 3332.5 |
| 15° | 3431.5 | 3395.0 | 3368.9 | 3342.9 | 3332.5 | 3306.5 | 3270.0 | 3249.2 | 3217.9 | 3207.6 | 3181.5 |
| 17.5° | 3301.3 | 3264.8 | 3228.4 | 3217.9 | 3202.3 | 3165.8 | 3129.4 | 3103.4 | 3072.1 | 3056.6 | 3040.9 |
| 20° | 3165.8 | 3119.0 | 3082.6 | 3072.1 | 3051.3 | 3020.1 | 2983.6 | 2957.6 | 2931.6 | 2900.3 | 2884.6 |
| 22.5° | 3009.6 | 2957.6 | 2926.4 | 2900.3 | 2895.1 | 2858.6 | 2817.0 | 2796.2 | 2775.4 | 2749.3 | 2728.5 |
| 25° | 2837.8 | 2790.9 | 2754.6 | 2733.6 | 2723.3 | 2692.0 | 2660.7 | 2634.7 | 2603.6 | 2587.9 | 2561.8 |
| 27.5° | 2660.7 | 2629.6 | 2582.6 | 2561.8 | 2546.2 | 2520.2 | 2483.7 | 2468.1 | 2436.9 | 2416.0 | 2400.5 |
| 30° | 2488.9 | 2442.1 | 2416.0 | 2390.0 | 2374.4 | 2348.4 | 2317.1 | 2301.5 | 2275.5 | 2254.6 | 2239.0 |
| 32.5° | 2301.5 | 2270.3 | 2233.8 | 2223.4 | 2202.6 | 2176.6 | 2155.7 | 2129.6 | 2108.8 | 2088.0 | 2082.8 |
| 35° | 2129.6 | 2088.0 | 2051.6 | 2041.2 | 2025.6 | 1999.5 | 1989.1 | 1973.5 | 1947.5 | 1942.2 | 1921.4 |
| 37.5° | 1942.2 | 1921.4 | 1879.7 | 1864.1 | 1858.9 | 1838.1 | 1817.3 | 1806.8 | 1791.2 | 1775.5 | 1770.4 |
| 40° | 1765.2 | 1739.2 | 1718.3 | 1702.6 | 1692.3 | 1676.6 | 1655.8 | 1650.6 | 1640.2 | 1619.4 | 1614.2 |
| 42.5° | 1598.5 | 1572.6 | 1551.6 | 1546.5 | 1530.8 | 1515.3 | 1504.8 | 1489.2 | 1484.0 | 1478.8 | 1468.4 |
| 45° | 1437.1 | 1421.6 | 1400.6 | 1395.5 | 1390.3 | 1369.5 | 1359.0 | 1348.6 | 1338.2 | 1333.0 | 1322.5 |
| 47.5° | 1291.4 | 1275.7 | 1260.1 | 1254.9 | 1244.5 | 1239.3 | 1223.6 | 1218.5 | 1202.8 | 1197.6 | 1192.4 |
| 50° | 1150.7 | 1140.4 | 1129.9 | 1124.7 | 1114.3 | 1109.1 | 1098.6 | 1088.3 | 1077.8 | 1072.6 | 1067.5 |
| 52.5° | 1025.8 | 1015.4 | 1004.9 | 999.7 | 994.5 | 984.1 | 973.7 | 963.3 | 958.1 | 952.9 | 947.6 |
| 55° | 906.0 | 895.6 | 890.4 | 885.2 | 880.0 | 874.7 | 859.2 | 853.9 | 848.7 | 843.5 | 833.1 |
| 57.5° | 796.6 | 786.3 | 775.8 | 775.8 | 770.6 | 765.5 | 755.0 | 744.6 | 744.6 | 734.2 | 723.7 |
| 60° | 697.7 | 687.4 | 676.9 | 671.7 | 666.6 | 656.1 | 650.9 | 645.6 | 640.5 | 635.3 | 624.8 |
| 62.5° | 593.5 | 588.4 | 578.0 | 578.0 | 567.5 | 562.4 | 557.2 | 551.9 | 546.7 | 536.4 | 531.1 |
| 65° | 505.1 | 499.9 | 489.5 | 484.3 | 484.3 | 479.0 | 468.6 | 463.5 | 458.2 | 458.2 | 453.0 |
| 67.5° | 421.7 | 416.5 | 406.2 | 400.9 | 400.9 | 395.7 | 390.5 | 390.5 | 385.4 | 380.1 | 385.4 |
| 70° | 348.9 | 338.5 | 338.5 | 333.3 | 333.3 | 328.0 | 322.8 | 322.8 | 322.8 | 328.0 | 328.0 |
| 72.5° | 276.0 | 270.7 | 265.5 | 265.5 | 265.5 | 265.5 | 260.4 | 260.4 | 265.5 | 270.7 | 270.7 |
| 75° | 218.7 | 213.5 | 213.5 | 213.5 | 208.3 | 208.3 | 213.5 | 213.5 | 218.7 | 218.7 | 218.7 |
| 77.5° | 161.5 | 161.5 | 161.5 | 161.5 | 161.5 | 161.5 | 166.6 | 166.6 | 171.8 | 171.8 | 171.8 |
| 80° | 119.7 | 119.7 | 119.7 | 119.7 | 119.7 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 130.2 |
| 82.5° | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 88.5 | 88.5 | 88.5 | 88.5 |
| 85° | 46.8 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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: P585253

CATALOG NUMBER: HCC8W80D010BZ-HM86080840-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 | 3837.6 |
| 2.5° | 3759.5 | 3759.5 | 3759.5 | 3764.6 | 3754.3 | 3754.3 | 3754.3 | 3754.3 |
| 5° | 3670.9 | 3665.7 | 3660.6 | 3665.7 | 3655.3 | 3655.3 | 3650.1 | 3650.1 |
| 7.5° | 3561.6 | 3556.4 | 3551.2 | 3551.2 | 3540.7 | 3540.7 | 3535.6 | 3530.4 |
| 10° | 3441.8 | 3431.5 | 3436.6 | 3426.2 | 3421.0 | 3415.8 | 3410.6 | 3405.4 |
| 12.5° | 3311.6 | 3301.3 | 3296.0 | 3285.6 | 3275.2 | 3270.0 | 3275.2 | 3264.8 |
| 15° | 3171.1 | 3155.5 | 3150.3 | 3139.8 | 3129.4 | 3124.2 | 3124.2 | 3119.0 |
| 17.5° | 3014.8 | 3004.5 | 2999.3 | 2988.8 | 2983.6 | 2973.2 | 2968.0 | 2962.8 |
| 20° | 2869.1 | 2843.0 | 2848.2 | 2837.8 | 2832.6 | 2811.7 | 2811.7 | 2817.0 |
| 22.5° | 2707.6 | 2692.0 | 2681.6 | 2671.2 | 2666.0 | 2655.6 | 2655.6 | 2650.4 |
| 25° | 2546.2 | 2530.5 | 2525.4 | 2515.0 | 2509.7 | 2499.4 | 2494.2 | 2494.2 |
| 27.5° | 2390.0 | 2369.2 | 2369.2 | 2358.7 | 2348.4 | 2343.2 | 2337.9 | 2332.7 |
| 30° | 2223.4 | 2207.7 | 2202.6 | 2202.6 | 2197.4 | 2197.4 | 2181.7 | 2186.9 |
| 32.5° | 2067.2 | 2056.7 | 2051.6 | 2041.2 | 2041.2 | 2035.9 | 2035.9 | 2020.3 |
| 35° | 1911.0 | 1895.4 | 1900.5 | 1890.2 | 1884.9 | 1879.7 | 1884.9 | 1879.7 |
| 37.5° | 1760.0 | 1749.5 | 1749.5 | 1739.2 | 1739.2 | 1733.9 | 1728.7 | 1739.2 |
| 40° | 1609.0 | 1603.7 | 1598.5 | 1593.4 | 1598.5 | 1593.4 | 1582.9 | 1588.1 |
| 42.5° | 1458.0 | 1458.0 | 1452.7 | 1452.7 | 1447.5 | 1447.5 | 1447.5 | 1447.5 |
| 45° | 1322.5 | 1317.4 | 1317.4 | 1312.2 | 1312.2 | 1312.2 | 1312.2 | 1306.9 |
| 47.5° | 1187.2 | 1182.0 | 1182.0 | 1182.0 | 1176.8 | 1176.8 | 1171.5 | 1176.8 |
| 50° | 1057.0 | 1057.0 | 1051.8 | 1051.8 | 1057.0 | 1051.8 | 1046.6 | 1046.6 |
| 52.5° | 937.3 | 937.3 | 932.1 | 932.1 | 926.8 | 921.6 | 926.8 | 926.8 |
| 55° | 827.9 | 822.7 | 817.6 | 817.6 | 812.3 | 807.1 | 807.1 | 812.3 |
| 57.5° | 723.7 | 718.5 | 713.4 | 713.4 | 702.9 | 697.7 | 697.7 | 697.7 |
| 60° | 624.8 | 614.5 | 614.5 | 609.2 | 609.2 | 604.0 | 604.0 | 604.0 |
| 62.5° | 531.1 | 525.9 | 525.9 | 525.9 | 525.9 | 520.7 | 520.7 | 520.7 |
| 65° | 453.0 | 453.0 | 453.0 | 458.2 | 458.2 | 463.5 | 463.5 | 463.5 |
| 67.5° | 390.5 | 395.7 | 395.7 | 395.7 | 400.9 | 400.9 | 400.9 | 395.7 |
| 70° | 333.3 | 333.3 | 333.3 | 338.5 | 338.5 | 338.5 | 338.5 | 338.5 |
| 72.5° | 276.0 | 276.0 | 276.0 | 276.0 | 276.0 | 276.0 | 276.0 | 276.0 |
| 75° | 218.7 | 223.9 | 223.9 | 223.9 | 218.7 | 223.9 | 223.9 | 218.7 |
| 77.5° | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 |
| 80° | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 |
| 82.5° | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 |
| 85° | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 |
| 87.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 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)