

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: P583770

Luminaire Tested: **HCC8W10D010BZ-HM80520927-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583770  
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: HCC8W10D010BZ-HM80520927-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

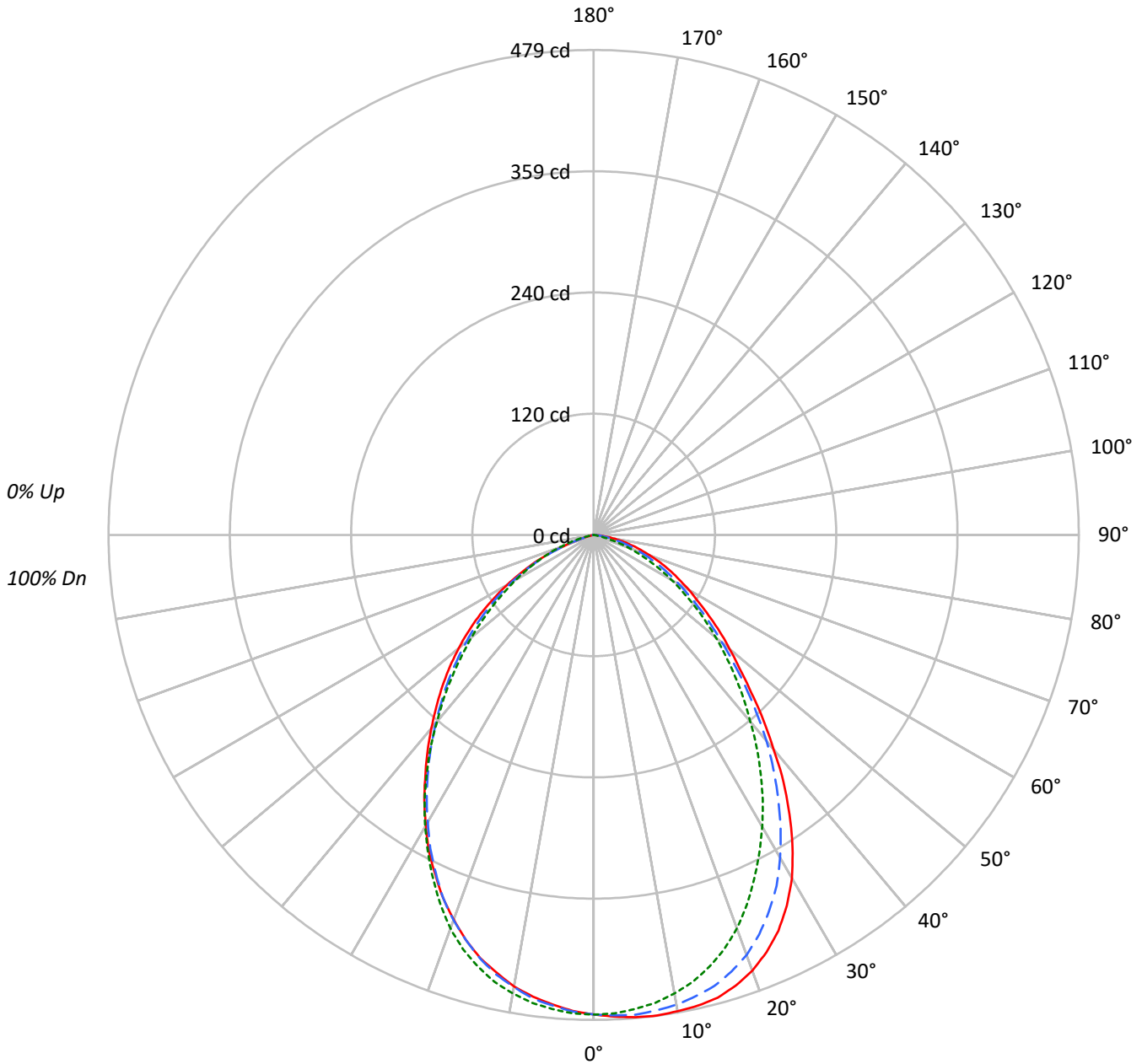
Lumens per Lamp: N/A  
Luminaire Lumens: 900.4 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81RWWC

### 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 | 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  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |    |  |  |  |  |   |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 80  | 69  | 62  | 56  | 67  | 61  | 56  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 14607 | 14607 | 14607 |
| 5°  | 14802 | 14548 | 14409 |
| 10° | 14955 | 14400 | 14181 |
| 15° | 15103 | 14094 | 13810 |
| 20° | 15029 | 13572 | 13261 |
| 25° | 14678 | 12759 | 12589 |
| 30° | 13940 | 11846 | 11800 |
| 35° | 12694 | 10811 | 10906 |
| 40° | 11130 | 9677  | 10031 |
| 45° | 9598  | 8608  | 9215  |
| 50° | 8410  | 7556  | 8342  |
| 55° | 7446  | 6494  | 7349  |
| 60° | 6710  | 5464  | 6087  |
| 65° | 6041  | 4385  | 4655  |
| 70° | 5301  | 3201  | 2570  |
| 75° | 4527  | 1656  | 667   |
| 80° | 3481  | 444   | 107   |
| 85° | 2264  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.7   | 5.0       |
| 10°-20°   | 125.7  | 14.0      |
| 20°-30°   | 178.4  | 19.8      |
| 30°-40°   | 187.7  | 20.9      |
| 40°-50°   | 159.7  | 17.7      |
| 50°-60°   | 115.4  | 12.8      |
| 60°-70°   | 65.6   | 7.3       |
| 70°-80°   | 20.7   | 2.3       |
| 80°-90°   | 2.5    | 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°    | 348.7  | 38.7      |
| 0°-40°    | 536.4  | 59.6      |
| 0°-60°    | 811.6  | 90.1      |
| 0°-90°    | 900.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 900.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 474 | 474 | 474 | 474  | 474  |      |
| 5°  | 478 | 476 | 470 | 467  | 466  | 46   |
| 15° | 473 | 461 | 442 | 433  | 433  | 133  |
| 25° | 431 | 410 | 375 | 369  | 370  | 198  |
| 35° | 337 | 318 | 287 | 285  | 290  | 210  |
| 45° | 220 | 212 | 197 | 202  | 211  | 171  |
| 55° | 138 | 128 | 121 | 128  | 137  | 125  |
| 65° | 83  | 72  | 60  | 60   | 64   | 82   |
| 75° | 38  | 29  | 14  | 6    | 6    | 41   |
| 85° | 6   | 4   | 0   | 0    | 0    | 8    |
| 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°    | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 |
| 2.5°  | 476.2 | 477.0 | 475.6 | 475.6 | 477.0 | 475.6 | 476.2 | 476.2 | 475.6 | 475.6 | 475.0 |
| 5°    | 478.2 | 477.6 | 477.6 | 477.6 | 478.2 | 477.0 | 476.2 | 477.0 | 475.6 | 475.6 | 475.6 |
| 7.5°  | 478.8 | 478.8 | 478.2 | 477.6 | 477.6 | 477.6 | 477.0 | 476.2 | 475.6 | 474.4 | 473.7 |
| 10°   | 477.6 | 477.6 | 478.2 | 477.0 | 477.0 | 475.6 | 475.6 | 474.4 | 474.4 | 473.1 | 471.2 |
| 12.5° | 476.2 | 475.6 | 475.6 | 474.4 | 474.4 | 473.1 | 473.1 | 471.2 | 470.6 | 468.7 | 466.7 |
| 15°   | 473.1 | 472.5 | 471.2 | 470.6 | 470.0 | 469.3 | 468.1 | 467.5 | 465.5 | 463.0 | 461.1 |
| 17.5° | 466.7 | 466.1 | 465.5 | 464.2 | 463.0 | 462.4 | 461.7 | 459.9 | 457.4 | 455.4 | 452.2 |
| 20°   | 458.0 | 457.4 | 457.4 | 455.4 | 454.7 | 452.9 | 452.2 | 449.7 | 447.9 | 444.0 | 441.5 |
| 22.5° | 445.9 | 446.5 | 445.3 | 444.0 | 442.7 | 440.9 | 439.6 | 437.0 | 433.9 | 430.1 | 427.0 |
| 25°   | 431.4 | 432.0 | 430.7 | 429.5 | 427.6 | 426.3 | 425.0 | 421.3 | 418.1 | 413.6 | 409.9 |
| 27.5° | 413.0 | 413.0 | 413.0 | 411.8 | 408.6 | 408.0 | 406.8 | 402.9 | 398.5 | 394.7 | 390.9 |
| 30°   | 391.5 | 390.9 | 390.9 | 389.0 | 387.8 | 385.2 | 383.3 | 380.2 | 376.9 | 372.5 | 368.2 |
| 32.5° | 365.6 | 366.2 | 364.3 | 363.0 | 361.2 | 361.2 | 358.7 | 356.2 | 352.3 | 347.9 | 343.4 |
| 35°   | 337.2 | 337.8 | 336.4 | 335.8 | 332.7 | 332.1 | 331.4 | 328.3 | 325.7 | 322.6 | 317.6 |
| 37.5° | 308.1 | 307.4 | 306.8 | 306.8 | 304.8 | 303.6 | 302.3 | 300.5 | 296.7 | 294.1 | 291.6 |
| 40°   | 276.5 | 276.5 | 276.5 | 275.7 | 275.1 | 273.8 | 273.2 | 272.0 | 269.5 | 267.0 | 265.0 |
| 42.5° | 248.0 | 248.0 | 247.3 | 246.7 | 245.4 | 246.0 | 244.7 | 243.5 | 241.0 | 239.1 | 237.9 |
| 45°   | 220.1 | 220.1 | 220.1 | 220.7 | 219.5 | 217.6 | 217.6 | 216.4 | 215.0 | 213.8 | 211.9 |
| 47.5° | 195.4 | 197.4 | 196.0 | 195.4 | 196.0 | 193.5 | 193.5 | 192.3 | 191.0 | 189.8 | 187.3 |
| 50°   | 175.3 | 175.3 | 175.3 | 173.9 | 173.3 | 173.3 | 171.4 | 170.2 | 169.5 | 168.3 | 165.8 |
| 52.5° | 156.9 | 155.5 | 155.5 | 154.9 | 154.3 | 153.0 | 153.0 | 151.8 | 149.3 | 148.0 | 146.2 |
| 55°   | 138.5 | 138.5 | 137.9 | 137.3 | 136.7 | 135.9 | 135.3 | 133.4 | 132.2 | 130.3 | 128.4 |
| 57.5° | 122.1 | 123.3 | 122.7 | 121.4 | 120.2 | 120.2 | 118.9 | 117.7 | 115.8 | 113.8 | 111.9 |
| 60°   | 108.8 | 108.2 | 108.2 | 107.6 | 106.3 | 105.7 | 105.1 | 103.1 | 101.2 | 99.3  | 97.4  |
| 62.5° | 94.8  | 94.8  | 94.8  | 93.6  | 92.3  | 91.7  | 91.1  | 89.8  | 87.3  | 85.3  | 84.1  |
| 65°   | 82.8  | 82.2  | 81.6  | 81.0  | 80.3  | 79.1  | 78.5  | 77.2  | 75.2  | 73.3  | 71.5  |
| 67.5° | 70.8  | 70.2  | 70.2  | 69.6  | 67.7  | 67.1  | 67.1  | 65.1  | 63.2  | 61.3  | 59.5  |
| 70°   | 58.8  | 58.8  | 58.8  | 57.6  | 57.0  | 56.3  | 55.7  | 54.5  | 52.5  | 50.6  | 48.7  |
| 72.5° | 48.7  | 48.1  | 48.1  | 47.5  | 45.6  | 45.0  | 44.2  | 43.0  | 41.1  | 39.9  | 38.6  |
| 75°   | 38.0  | 38.0  | 37.3  | 36.7  | 36.1  | 35.5  | 34.7  | 33.5  | 31.6  | 29.7  | 29.1  |
| 77.5° | 29.1  | 28.5  | 28.5  | 27.9  | 26.6  | 26.0  | 26.0  | 24.6  | 22.7  | 21.5  | 20.2  |
| 80°   | 19.6  | 20.2  | 19.6  | 19.0  | 18.4  | 17.7  | 17.1  | 16.5  | 15.1  | 13.9  | 12.6  |
| 82.5° | 12.0  | 12.6  | 12.0  | 12.0  | 11.4  | 10.7  | 10.7  | 9.5   | 8.9   | 8.2   | 7.6   |
| 85°   | 6.4   | 6.4   | 6.4   | 6.4   | 5.6   | 5.6   | 5.6   | 5.0   | 4.4   | 3.8   | 3.8   |
| 87.5° | 1.9   | 2.5   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.3   | 1.3   | 1.3   |
| 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°    | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 |
| 2.5°  | 475.6 | 475.0 | 474.4 | 474.4 | 474.4 | 474.4 | 474.4 | 473.7 | 473.1 | 473.1 | 473.1 |
| 5°    | 474.4 | 474.4 | 474.4 | 473.7 | 473.1 | 473.1 | 471.9 | 471.2 | 470.6 | 470.0 | 469.3 |
| 7.5°  | 473.1 | 471.9 | 471.2 | 470.6 | 470.0 | 470.0 | 468.7 | 467.5 | 467.5 | 466.1 | 464.9 |
| 10°   | 469.3 | 468.7 | 467.5 | 466.1 | 465.5 | 464.9 | 463.6 | 461.7 | 461.1 | 459.9 | 458.6 |
| 12.5° | 464.9 | 463.6 | 462.4 | 459.9 | 459.2 | 458.6 | 456.0 | 454.1 | 452.9 | 452.2 | 449.1 |
| 15°   | 459.2 | 456.6 | 454.7 | 451.6 | 451.0 | 449.7 | 447.9 | 445.9 | 443.4 | 441.5 | 440.2 |
| 17.5° | 449.1 | 446.5 | 443.4 | 440.2 | 439.0 | 439.0 | 435.8 | 433.3 | 430.1 | 428.9 | 426.3 |
| 20°   | 437.0 | 433.9 | 431.4 | 427.6 | 425.6 | 423.8 | 421.9 | 418.1 | 415.5 | 413.6 | 410.5 |
| 22.5° | 423.1 | 418.8 | 415.5 | 411.8 | 408.6 | 406.8 | 403.5 | 400.4 | 397.3 | 395.3 | 392.8 |
| 25°   | 405.4 | 401.6 | 396.5 | 392.8 | 390.9 | 388.4 | 384.5 | 381.4 | 378.3 | 375.0 | 373.8 |
| 27.5° | 385.8 | 380.8 | 376.3 | 371.9 | 370.0 | 368.2 | 363.7 | 359.9 | 357.4 | 354.2 | 352.9 |
| 30°   | 364.3 | 359.3 | 354.2 | 350.4 | 348.5 | 345.3 | 342.8 | 338.4 | 335.2 | 332.7 | 329.6 |
| 32.5° | 339.7 | 335.8 | 331.4 | 325.7 | 324.4 | 321.9 | 318.2 | 316.2 | 312.4 | 310.6 | 308.1 |
| 35°   | 313.1 | 310.6 | 306.1 | 301.7 | 299.8 | 298.6 | 295.3 | 291.6 | 289.1 | 287.2 | 285.8 |
| 37.5° | 287.8 | 284.6 | 280.2 | 277.1 | 275.7 | 273.8 | 270.1 | 268.2 | 265.6 | 264.4 | 261.9 |
| 40°   | 260.6 | 257.5 | 254.2 | 252.4 | 250.5 | 249.2 | 246.7 | 244.7 | 242.2 | 240.4 | 239.7 |
| 42.5° | 234.0 | 232.1 | 229.6 | 227.1 | 226.5 | 224.5 | 223.3 | 221.4 | 219.5 | 218.9 | 217.0 |
| 45°   | 210.0 | 208.1 | 205.5 | 203.0 | 202.4 | 201.1 | 200.5 | 198.6 | 197.4 | 197.4 | 197.4 |
| 47.5° | 185.9 | 184.0 | 181.5 | 180.3 | 180.9 | 178.4 | 178.4 | 177.8 | 176.5 | 176.5 | 177.1 |
| 50°   | 164.4 | 161.9 | 161.3 | 160.0 | 158.8 | 157.5 | 158.2 | 156.3 | 156.3 | 157.5 | 156.9 |
| 52.5° | 144.2 | 141.7 | 141.0 | 139.8 | 139.2 | 139.2 | 138.5 | 138.5 | 137.9 | 138.5 | 138.5 |
| 55°   | 125.8 | 123.9 | 122.7 | 121.4 | 120.8 | 120.8 | 120.8 | 120.2 | 119.6 | 120.8 | 121.4 |
| 57.5° | 109.4 | 108.8 | 107.6 | 105.7 | 105.1 | 104.3 | 103.7 | 103.7 | 103.7 | 103.7 | 104.3 |
| 60°   | 94.8  | 93.6  | 92.3  | 90.4  | 90.4  | 89.8  | 89.2  | 88.6  | 88.6  | 88.6  | 88.6  |
| 62.5° | 82.2  | 80.3  | 78.5  | 77.2  | 76.6  | 75.8  | 75.2  | 74.0  | 74.0  | 74.0  | 74.0  |
| 65°   | 69.6  | 67.7  | 66.5  | 65.1  | 63.8  | 63.8  | 62.6  | 62.0  | 60.7  | 60.1  | 58.8  |
| 67.5° | 57.6  | 56.3  | 55.1  | 53.1  | 52.5  | 51.8  | 50.6  | 50.0  | 48.1  | 47.5  | 46.8  |
| 70°   | 46.8  | 45.0  | 43.6  | 42.4  | 41.7  | 40.5  | 39.2  | 38.0  | 36.7  | 35.5  | 34.1  |
| 72.5° | 36.7  | 34.7  | 33.5  | 32.2  | 31.0  | 31.0  | 29.1  | 27.9  | 26.0  | 24.6  | 22.7  |
| 75°   | 27.2  | 25.2  | 24.0  | 22.1  | 21.5  | 20.9  | 19.0  | 17.7  | 15.9  | 13.9  | 12.6  |
| 77.5° | 18.4  | 17.1  | 15.9  | 13.9  | 12.6  | 12.6  | 10.7  | 9.5   | 8.2   | 6.4   | 5.6   |
| 80°   | 11.4  | 10.1  | 8.9   | 7.6   | 7.6   | 6.4   | 5.6   | 4.4   | 3.1   | 2.5   | 1.9   |
| 82.5° | 6.4   | 5.6   | 5.0   | 3.8   | 3.8   | 3.1   | 2.5   | 1.9   | 1.3   | 0.6   | 0.6   |
| 85°   | 3.1   | 2.5   | 1.9   | 1.9   | 1.3   | 1.3   | 1.3   | 0.6   | 0.6   | 0.0   | 0.0   |
| 87.5° | 1.3   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 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°    | 473.7 | 473.7 | 473.7 | 473.7  | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 |
| 2.5°  | 472.5 | 472.5 | 471.9 | 471.9  | 471.9 | 471.2 | 471.9 | 471.2 | 471.2 | 471.2 | 471.9 |
| 5°    | 470.0 | 468.7 | 468.7 | 468.1  | 468.1 | 467.5 | 468.1 | 467.5 | 466.7 | 466.1 | 466.7 |
| 7.5°  | 464.9 | 463.6 | 463.0 | 462.4  | 462.4 | 462.4 | 461.7 | 461.1 | 461.7 | 459.9 | 461.1 |
| 10°   | 458.0 | 457.4 | 456.0 | 455.4  | 454.7 | 455.4 | 454.7 | 453.5 | 453.5 | 453.5 | 452.9 |
| 12.5° | 449.1 | 447.9 | 447.1 | 446.5  | 445.3 | 445.3 | 445.9 | 444.6 | 444.6 | 443.4 | 443.4 |
| 15°   | 438.4 | 437.0 | 435.8 | 435.8  | 434.5 | 434.5 | 433.9 | 433.9 | 433.3 | 432.6 | 432.6 |
| 17.5° | 425.0 | 423.1 | 421.9 | 422.5  | 421.9 | 421.3 | 421.3 | 420.0 | 419.4 | 420.0 | 420.0 |
| 20°   | 409.3 | 408.0 | 406.8 | 407.4  | 406.0 | 405.4 | 406.0 | 404.1 | 404.8 | 404.8 | 404.8 |
| 22.5° | 391.5 | 390.9 | 389.0 | 389.0  | 387.8 | 387.0 | 387.8 | 387.8 | 388.4 | 387.8 | 387.8 |
| 25°   | 371.9 | 370.7 | 369.4 | 369.4  | 368.8 | 368.2 | 368.8 | 369.4 | 368.8 | 369.4 | 369.4 |
| 27.5° | 351.0 | 349.2 | 349.2 | 347.9  | 347.9 | 348.5 | 347.9 | 348.5 | 349.2 | 349.2 | 350.4 |
| 30°   | 328.3 | 327.7 | 327.1 | 326.3  | 326.3 | 327.1 | 327.1 | 327.1 | 327.7 | 328.9 | 328.9 |
| 32.5° | 306.8 | 305.5 | 304.2 | 304.2  | 305.5 | 304.8 | 305.5 | 305.5 | 306.8 | 306.8 | 308.1 |
| 35°   | 283.3 | 283.3 | 282.1 | 282.7  | 282.7 | 282.7 | 282.7 | 284.0 | 285.2 | 285.8 | 287.2 |
| 37.5° | 261.9 | 260.0 | 260.6 | 260.6  | 261.2 | 260.6 | 262.5 | 262.5 | 263.7 | 263.7 | 265.0 |
| 40°   | 238.5 | 238.5 | 239.1 | 238.5  | 239.1 | 239.1 | 240.4 | 241.6 | 242.2 | 243.5 | 244.1 |
| 42.5° | 216.4 | 217.6 | 216.4 | 217.0  | 217.6 | 218.2 | 218.9 | 219.5 | 222.0 | 223.3 | 225.1 |
| 45°   | 196.0 | 196.8 | 197.4 | 198.0  | 197.4 | 198.6 | 199.3 | 200.5 | 202.4 | 203.0 | 203.6 |
| 47.5° | 176.5 | 177.1 | 177.8 | 178.4  | 178.4 | 179.6 | 180.3 | 181.5 | 182.8 | 183.4 | 184.0 |
| 50°   | 157.5 | 158.8 | 159.4 | 159.4  | 160.0 | 161.3 | 162.5 | 162.5 | 163.8 | 165.8 | 166.4 |
| 52.5° | 140.4 | 140.4 | 141.7 | 142.3  | 142.9 | 142.9 | 144.8 | 145.4 | 146.2 | 147.4 | 148.7 |
| 55°   | 121.4 | 123.3 | 123.9 | 123.9  | 125.2 | 126.5 | 127.2 | 127.8 | 127.8 | 130.3 | 130.3 |
| 57.5° | 105.1 | 105.7 | 106.9 | 106.9  | 106.9 | 108.8 | 108.8 | 110.1 | 110.7 | 111.3 | 112.6 |
| 60°   | 88.6  | 89.8  | 89.8  | 90.4   | 89.8  | 91.1  | 91.7  | 93.0  | 93.6  | 94.2  | 94.8  |
| 62.5° | 73.3  | 73.3  | 74.0  | 74.0   | 74.0  | 74.0  | 75.2  | 75.2  | 76.6  | 77.2  | 77.8  |
| 65°   | 58.8  | 58.8  | 58.8  | 58.8   | 58.8  | 58.8  | 58.8  | 58.8  | 59.5  | 59.5  | 60.7  |
| 67.5° | 45.6  | 45.0  | 43.6  | 44.2   | 43.6  | 43.6  | 43.0  | 43.0  | 43.6  | 43.6  | 45.0  |
| 70°   | 32.9  | 32.2  | 31.0  | 31.0   | 30.4  | 29.7  | 29.1  | 28.5  | 27.9  | 27.9  | 27.9  |
| 72.5° | 21.5  | 20.2  | 18.4  | 17.7   | 17.7  | 16.5  | 15.1  | 14.5  | 14.5  | 14.5  | 14.5  |
| 75°   | 10.7  | 9.5   | 8.2   | 7.6    | 7.6   | 6.4   | 7.0   | 6.4   | 6.4   | 6.4   | 6.4   |
| 77.5° | 4.4   | 3.1   | 2.5   | 2.5    | 2.5   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 1.3   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 82.5° | 0.6   | 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: P583770

CATALOG NUMBER: HCC8W10D010BZ-HM80520927-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 473.7 | 473.7 | 473.7  | 473.7 | 473.7 | 473.7 | 473.7 | 473.7 |
| 2.5°  | 471.2 | 471.2 | 470.0  | 470.6 | 470.6 | 470.6 | 470.6 | 470.6 |
| 5°    | 465.5 | 466.1 | 465.5  | 466.1 | 466.1 | 465.5 | 465.5 | 465.5 |
| 7.5°  | 459.9 | 460.5 | 459.9  | 460.5 | 460.5 | 460.5 | 459.9 | 459.9 |
| 10°   | 452.9 | 452.9 | 452.9  | 452.9 | 452.9 | 452.2 | 452.9 | 452.9 |
| 12.5° | 443.4 | 443.4 | 443.4  | 444.0 | 444.0 | 443.4 | 443.4 | 442.7 |
| 15°   | 433.3 | 432.0 | 432.6  | 433.3 | 432.6 | 432.6 | 432.6 | 432.6 |
| 17.5° | 419.4 | 420.0 | 419.4  | 419.4 | 419.4 | 419.4 | 420.0 | 419.4 |
| 20°   | 404.8 | 404.8 | 405.4  | 404.8 | 404.8 | 404.8 | 404.8 | 404.1 |
| 22.5° | 388.4 | 387.8 | 387.8  | 388.4 | 388.4 | 387.8 | 388.4 | 388.4 |
| 25°   | 370.0 | 370.7 | 370.0  | 370.0 | 370.7 | 370.7 | 370.7 | 370.0 |
| 27.5° | 350.4 | 351.0 | 351.7  | 351.0 | 351.0 | 351.0 | 351.7 | 352.3 |
| 30°   | 330.2 | 331.4 | 330.2  | 330.2 | 331.4 | 330.8 | 331.4 | 331.4 |
| 32.5° | 308.7 | 310.6 | 309.3  | 310.6 | 310.6 | 311.2 | 310.6 | 311.2 |
| 35°   | 287.2 | 289.1 | 289.1  | 289.1 | 289.7 | 290.3 | 290.3 | 289.7 |
| 37.5° | 267.0 | 267.6 | 267.6  | 268.8 | 269.5 | 270.1 | 270.1 | 269.5 |
| 40°   | 246.0 | 247.3 | 248.0  | 248.0 | 248.0 | 249.2 | 250.5 | 249.2 |
| 42.5° | 225.9 | 226.5 | 227.1  | 227.1 | 228.4 | 229.0 | 229.6 | 229.6 |
| 45°   | 206.1 | 207.5 | 208.1  | 208.7 | 209.4 | 210.6 | 210.0 | 211.3 |
| 47.5° | 185.9 | 187.9 | 188.5  | 189.1 | 190.4 | 191.0 | 191.6 | 192.3 |
| 50°   | 167.6 | 168.9 | 168.9  | 170.2 | 172.0 | 172.0 | 173.3 | 173.9 |
| 52.5° | 149.3 | 149.9 | 150.5  | 151.2 | 152.4 | 153.7 | 153.7 | 154.9 |
| 55°   | 131.6 | 132.2 | 132.2  | 132.8 | 133.4 | 135.9 | 136.7 | 136.7 |
| 57.5° | 113.2 | 113.2 | 114.4  | 115.2 | 115.8 | 117.0 | 117.0 | 117.0 |
| 60°   | 95.6  | 96.2  | 96.2   | 96.8  | 97.4  | 98.7  | 99.3  | 98.7  |
| 62.5° | 77.8  | 78.5  | 78.5   | 79.1  | 80.3  | 81.0  | 80.3  | 80.3  |
| 65°   | 61.3  | 62.0  | 62.0   | 62.6  | 63.8  | 63.8  | 63.2  | 63.8  |
| 67.5° | 45.0  | 45.0  | 45.0   | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  |
| 70°   | 28.5  | 27.9  | 27.2   | 27.9  | 27.9  | 27.9  | 27.2  | 28.5  |
| 72.5° | 13.9  | 14.5  | 14.5   | 14.5  | 14.5  | 14.5  | 14.5  | 13.9  |
| 75°   | 6.4   | 6.4   | 5.6    | 5.6   | 5.6   | 6.4   | 6.4   | 5.6   |
| 77.5° | 1.9   | 1.9   | 1.9    | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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   |

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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)