

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: P583829

Luminaire Tested: **HCC8S10D010MB-HM80520940-81WWW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583829  
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: HCC8S10D010MB-HM80520940-81WWW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

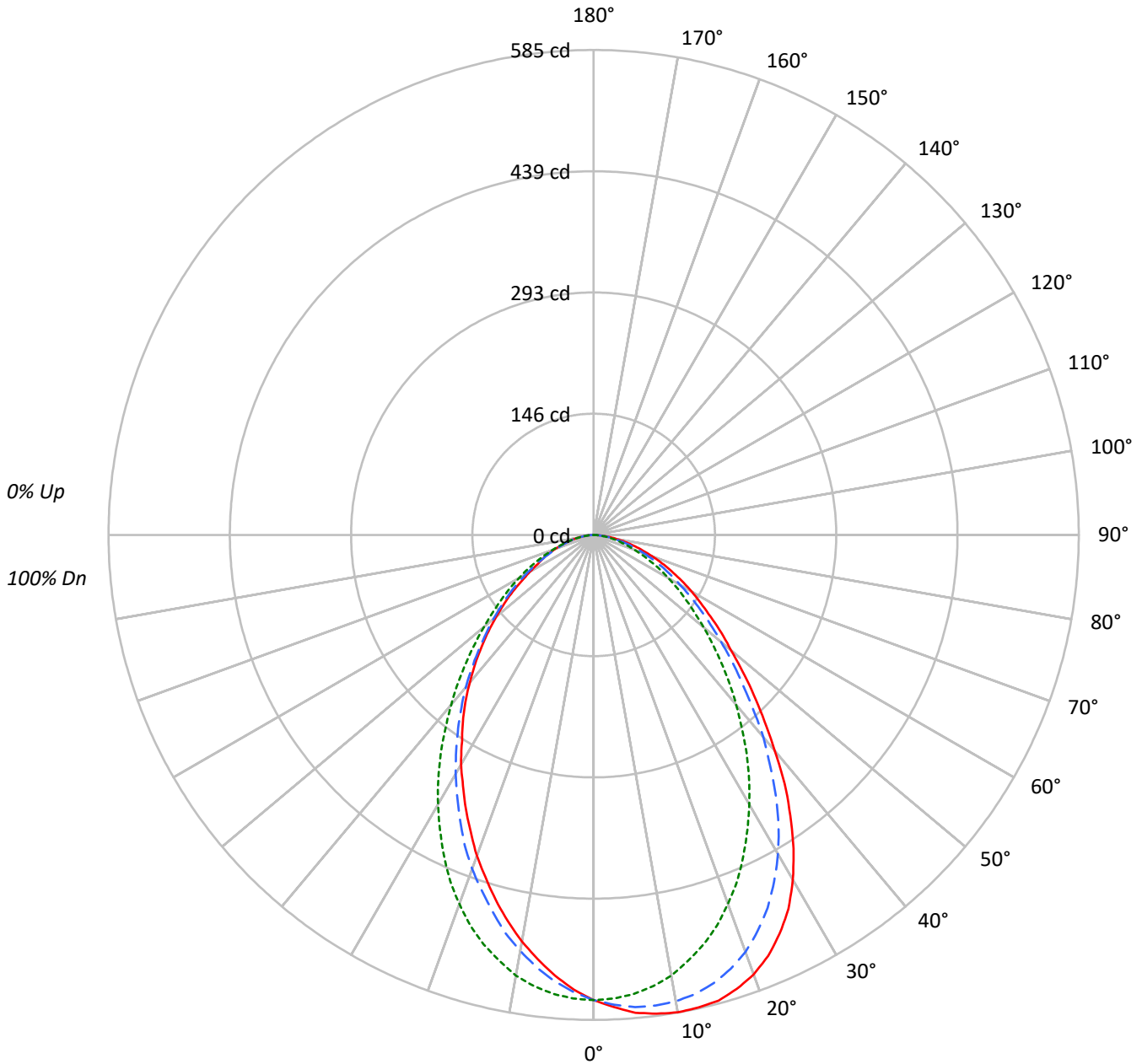
Lumens per Lamp: N/A  
Luminaire Lumens: 1035.6 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
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



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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°  | 17302 | 17302 | 17302 |
| 5°  | 17910 | 17204 | 16520 |
| 10° | 18311 | 16902 | 15593 |
| 15° | 18567 | 16336 | 14557 |
| 20° | 18514 | 15541 | 13517 |
| 25° | 18057 | 14532 | 12409 |
| 30° | 17105 | 13367 | 11383 |
| 35° | 15562 | 12095 | 10348 |
| 40° | 13670 | 10756 | 9347  |
| 45° | 11918 | 9463  | 8334  |
| 50° | 10372 | 8290  | 7340  |
| 55° | 9252  | 7285  | 6387  |
| 60° | 8406  | 6383  | 5446  |
| 65° | 7552  | 5553  | 4947  |
| 70° | 6726  | 4733  | 4463  |
| 75° | 5898  | 3991  | 3813  |
| 80° | 4990  | 3250  | 3374  |
| 85° | 3786  | 2441  | 2689  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.6   | 5.1       |
| 10°-20°   | 144.8  | 14.0      |
| 20°-30°   | 201.0  | 19.4      |
| 30°-40°   | 207.8  | 20.1      |
| 40°-50°   | 174.0  | 16.8      |
| 50°-60°   | 126.3  | 12.2      |
| 60°-70°   | 79.7   | 7.7       |
| 70°-80°   | 39.5   | 3.8       |
| 80°-90°   | 9.8    | 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°    | 398.4  | 38.5      |
| 0°-40°    | 606.2  | 58.5      |
| 0°-60°    | 906.6  | 87.5      |
| 0°-90°    | 1035.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1035.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 561 | 561 | 561 | 561  | 561  |      |
| 5°  | 579 | 572 | 556 | 540  | 534  | 55   |
| 15° | 582 | 560 | 512 | 470  | 456  | 164  |
| 25° | 531 | 496 | 427 | 381  | 365  | 243  |
| 35° | 413 | 383 | 321 | 285  | 275  | 257  |
| 45° | 273 | 254 | 217 | 196  | 191  | 211  |
| 55° | 172 | 157 | 136 | 124  | 119  | 155  |
| 65° | 104 | 91  | 76  | 67   | 68   | 103  |
| 75° | 50  | 41  | 34  | 32   | 32   | 53   |
| 85° | 11  | 8   | 7   | 8    | 8    | 13   |
| 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°    | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5°  | 570.2 | 570.2 | 571.1 | 570.2 | 570.2 | 570.2 | 569.5 | 569.5 | 568.8 | 568.8 | 567.2 |
| 5°    | 578.6 | 577.1 | 578.6 | 577.1 | 577.1 | 577.1 | 576.4 | 574.8 | 574.1 | 572.5 | 571.8 |
| 7.5°  | 582.5 | 581.6 | 581.6 | 580.9 | 580.9 | 580.2 | 579.4 | 578.6 | 575.6 | 574.8 | 572.5 |
| 10°   | 584.8 | 583.9 | 583.9 | 583.2 | 581.6 | 581.6 | 580.2 | 579.4 | 575.6 | 574.1 | 571.1 |
| 12.5° | 583.9 | 583.9 | 583.9 | 583.2 | 580.9 | 580.2 | 578.6 | 576.4 | 573.4 | 570.2 | 567.2 |
| 15°   | 581.6 | 581.6 | 580.2 | 579.4 | 577.1 | 575.6 | 574.8 | 571.1 | 567.9 | 564.2 | 559.7 |
| 17.5° | 574.1 | 574.1 | 573.4 | 571.8 | 569.5 | 567.9 | 566.5 | 562.7 | 559.7 | 553.5 | 549.0 |
| 20°   | 564.2 | 563.4 | 562.7 | 560.4 | 558.1 | 557.4 | 555.1 | 549.7 | 545.9 | 541.4 | 535.3 |
| 22.5° | 549.7 | 549.0 | 548.2 | 546.7 | 542.8 | 541.4 | 539.8 | 536.0 | 529.1 | 524.6 | 517.0 |
| 25°   | 530.7 | 530.7 | 529.1 | 526.8 | 523.1 | 521.5 | 519.3 | 515.4 | 509.4 | 502.6 | 496.4 |
| 27.5° | 508.6 | 507.8 | 505.6 | 504.0 | 501.0 | 498.7 | 494.9 | 490.3 | 484.3 | 478.9 | 471.3 |
| 30°   | 480.4 | 480.4 | 478.9 | 476.6 | 472.7 | 471.3 | 468.2 | 462.9 | 456.8 | 449.9 | 444.6 |
| 32.5° | 448.5 | 448.5 | 446.2 | 444.6 | 442.3 | 438.5 | 437.8 | 431.6 | 426.3 | 421.1 | 414.9 |
| 35°   | 413.4 | 414.2 | 412.6 | 409.6 | 405.8 | 405.8 | 404.2 | 398.9 | 392.8 | 387.5 | 383.0 |
| 37.5° | 378.4 | 376.1 | 375.4 | 373.8 | 371.5 | 368.5 | 367.0 | 364.7 | 359.4 | 355.6 | 348.7 |
| 40°   | 339.6 | 340.3 | 338.8 | 337.3 | 336.6 | 334.3 | 333.4 | 329.7 | 325.9 | 321.3 | 318.3 |
| 42.5° | 304.6 | 304.6 | 304.6 | 303.0 | 301.5 | 299.2 | 298.5 | 296.2 | 291.6 | 288.6 | 284.0 |
| 45°   | 273.3 | 271.1 | 271.1 | 270.3 | 269.5 | 268.0 | 265.8 | 264.2 | 261.2 | 258.9 | 253.5 |
| 47.5° | 242.9 | 243.6 | 242.9 | 242.1 | 239.8 | 239.1 | 238.4 | 235.2 | 232.2 | 229.9 | 226.1 |
| 50°   | 216.2 | 217.8 | 216.2 | 216.2 | 214.7 | 214.0 | 212.4 | 210.1 | 207.8 | 204.1 | 200.3 |
| 52.5° | 194.1 | 194.1 | 193.4 | 192.7 | 190.4 | 188.8 | 188.1 | 187.3 | 183.5 | 180.4 | 177.4 |
| 55°   | 172.1 | 172.8 | 172.8 | 170.6 | 169.8 | 168.3 | 167.6 | 165.3 | 163.7 | 159.1 | 156.9 |
| 57.5° | 153.0 | 152.3 | 153.0 | 151.5 | 150.0 | 148.4 | 147.7 | 146.2 | 143.9 | 140.9 | 137.7 |
| 60°   | 136.3 | 134.7 | 134.7 | 134.0 | 132.5 | 131.7 | 130.2 | 127.9 | 125.6 | 122.6 | 120.3 |
| 62.5° | 119.5 | 118.8 | 118.0 | 117.2 | 115.8 | 114.9 | 114.2 | 111.9 | 109.6 | 107.3 | 105.1 |
| 65°   | 103.5 | 103.5 | 102.8 | 101.2 | 100.5 | 99.8  | 98.9  | 97.5  | 94.4  | 92.9  | 90.6  |
| 67.5° | 89.1  | 88.3  | 88.3  | 86.8  | 85.2  | 84.5  | 84.5  | 82.9  | 80.7  | 78.4  | 76.9  |
| 70°   | 74.6  | 75.4  | 74.6  | 73.8  | 72.4  | 72.4  | 70.8  | 70.1  | 67.0  | 66.2  | 63.9  |
| 72.5° | 61.7  | 61.7  | 60.9  | 60.9  | 59.4  | 58.7  | 58.7  | 57.1  | 55.5  | 54.1  | 52.5  |
| 75°   | 49.5  | 49.5  | 49.5  | 48.7  | 48.0  | 46.4  | 46.4  | 45.7  | 44.1  | 42.7  | 41.1  |
| 77.5° | 38.8  | 38.1  | 38.1  | 37.3  | 36.5  | 35.8  | 35.8  | 35.0  | 33.5  | 32.7  | 31.3  |
| 80°   | 28.1  | 27.4  | 27.4  | 27.4  | 25.8  | 26.7  | 25.8  | 25.1  | 24.4  | 23.6  | 22.8  |
| 82.5° | 18.3  | 19.0  | 19.0  | 18.3  | 17.5  | 17.5  | 17.5  | 16.7  | 16.7  | 16.0  | 15.3  |
| 85°   | 10.7  | 10.7  | 10.7  | 10.7  | 9.9   | 9.9   | 9.9   | 9.1   | 9.1   | 9.1   | 8.4   |
| 87.5° | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 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):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5°  | 567.2 | 565.7 | 564.9 | 564.2 | 564.2 | 563.4 | 562.7 | 561.1 | 561.1 | 559.7 | 558.8 |
| 5°    | 570.2 | 567.9 | 566.5 | 564.9 | 564.2 | 562.7 | 561.1 | 558.8 | 558.1 | 555.8 | 553.5 |
| 7.5°  | 571.1 | 567.2 | 565.7 | 562.7 | 561.1 | 559.7 | 556.5 | 554.2 | 551.2 | 549.0 | 545.9 |
| 10°   | 567.9 | 564.9 | 561.1 | 557.4 | 556.5 | 554.2 | 549.7 | 546.7 | 542.8 | 539.8 | 535.3 |
| 12.5° | 563.4 | 558.8 | 555.1 | 550.5 | 548.2 | 545.9 | 541.4 | 536.8 | 531.4 | 526.1 | 521.5 |
| 15°   | 555.8 | 550.5 | 545.1 | 539.8 | 536.8 | 534.5 | 529.1 | 523.8 | 518.5 | 511.7 | 507.1 |
| 17.5° | 544.4 | 538.3 | 533.0 | 526.1 | 523.1 | 520.8 | 514.0 | 507.8 | 501.0 | 494.1 | 489.6 |
| 20°   | 530.0 | 522.3 | 516.3 | 508.6 | 506.3 | 502.6 | 495.7 | 488.9 | 481.2 | 473.6 | 468.2 |
| 22.5° | 510.8 | 503.3 | 496.4 | 488.9 | 485.0 | 481.2 | 474.3 | 465.9 | 458.3 | 452.2 | 446.9 |
| 25°   | 488.9 | 482.0 | 473.6 | 466.7 | 462.2 | 457.6 | 449.9 | 443.1 | 436.2 | 427.1 | 421.8 |
| 27.5° | 464.5 | 456.0 | 449.9 | 440.8 | 436.2 | 433.2 | 424.8 | 415.7 | 409.6 | 401.2 | 395.1 |
| 30°   | 437.0 | 429.4 | 422.5 | 413.4 | 408.8 | 405.8 | 398.2 | 389.8 | 383.7 | 375.4 | 369.3 |
| 32.5° | 408.1 | 399.7 | 391.4 | 385.2 | 380.0 | 376.8 | 368.5 | 363.1 | 355.6 | 348.7 | 341.8 |
| 35°   | 376.8 | 368.5 | 362.4 | 354.0 | 351.0 | 348.0 | 341.1 | 334.3 | 327.4 | 321.3 | 316.0 |
| 37.5° | 343.4 | 337.3 | 330.4 | 324.3 | 322.0 | 319.0 | 310.6 | 304.6 | 299.2 | 293.2 | 288.6 |
| 40°   | 310.6 | 305.3 | 300.7 | 294.6 | 290.9 | 288.6 | 282.5 | 277.2 | 271.1 | 267.2 | 262.6 |
| 42.5° | 280.9 | 274.9 | 270.3 | 265.8 | 261.9 | 259.6 | 254.3 | 250.5 | 245.9 | 242.1 | 236.8 |
| 45°   | 249.8 | 246.7 | 241.4 | 237.5 | 235.2 | 232.2 | 228.4 | 223.8 | 220.1 | 217.0 | 213.2 |
| 47.5° | 222.4 | 219.2 | 215.5 | 211.0 | 209.4 | 207.1 | 203.3 | 200.3 | 197.2 | 194.1 | 190.4 |
| 50°   | 197.2 | 193.4 | 190.4 | 187.3 | 185.8 | 183.5 | 179.7 | 178.1 | 175.9 | 172.8 | 170.6 |
| 52.5° | 174.4 | 171.3 | 168.3 | 164.4 | 163.7 | 162.1 | 159.9 | 156.9 | 154.6 | 153.0 | 151.5 |
| 55°   | 153.7 | 150.7 | 148.4 | 145.4 | 144.6 | 143.2 | 140.0 | 138.6 | 137.0 | 135.5 | 134.0 |
| 57.5° | 135.5 | 132.5 | 129.5 | 127.9 | 126.3 | 124.9 | 124.0 | 121.8 | 120.3 | 119.5 | 118.0 |
| 60°   | 118.8 | 115.8 | 113.5 | 111.2 | 110.3 | 109.6 | 108.1 | 106.6 | 105.1 | 103.5 | 102.8 |
| 62.5° | 102.8 | 99.8  | 98.2  | 96.6  | 95.2  | 95.2  | 93.6  | 92.1  | 90.6  | 89.8  | 88.3  |
| 65°   | 88.3  | 86.8  | 84.5  | 82.2  | 81.5  | 81.5  | 79.2  | 78.4  | 77.6  | 76.1  | 74.6  |
| 67.5° | 74.6  | 73.1  | 70.8  | 70.1  | 69.2  | 68.5  | 67.8  | 66.2  | 64.7  | 63.9  | 62.4  |
| 70°   | 62.4  | 60.9  | 59.4  | 58.7  | 57.8  | 57.1  | 55.5  | 54.8  | 53.2  | 52.5  | 51.8  |
| 72.5° | 50.2  | 49.5  | 48.0  | 47.2  | 46.4  | 45.7  | 45.0  | 44.1  | 42.7  | 41.8  | 41.1  |
| 75°   | 40.4  | 39.5  | 38.1  | 37.3  | 36.5  | 36.5  | 35.8  | 34.3  | 33.5  | 33.5  | 32.7  |
| 77.5° | 30.4  | 29.7  | 29.0  | 28.1  | 27.4  | 27.4  | 26.7  | 25.8  | 25.1  | 25.1  | 24.4  |
| 80°   | 22.1  | 21.3  | 20.6  | 20.6  | 20.6  | 19.8  | 19.0  | 19.0  | 18.3  | 18.3  | 17.5  |
| 82.5° | 14.4  | 14.4  | 13.7  | 13.7  | 13.7  | 13.0  | 13.0  | 12.1  | 12.1  | 12.1  | 12.1  |
| 85°   | 8.4   | 8.4   | 8.4   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   | 6.9   | 7.6   |
| 87.5° | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 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   |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 561.1 | 561.1 | 561.1 | 561.1  | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5°  | 558.1 | 557.4 | 555.8 | 555.8  | 554.2 | 554.2 | 553.5 | 552.8 | 552.0 | 551.2 | 550.5 |
| 5°    | 552.8 | 549.7 | 548.2 | 547.4  | 545.9 | 545.1 | 542.8 | 541.4 | 540.5 | 539.1 | 537.5 |
| 7.5°  | 542.8 | 539.8 | 536.8 | 536.0  | 535.3 | 532.2 | 530.0 | 527.7 | 526.1 | 524.6 | 523.1 |
| 10°   | 531.4 | 528.4 | 524.6 | 523.1  | 521.5 | 517.7 | 514.7 | 512.4 | 509.4 | 506.3 | 505.6 |
| 12.5° | 517.7 | 513.1 | 508.6 | 507.1  | 504.8 | 501.0 | 498.0 | 494.1 | 491.9 | 488.0 | 487.3 |
| 15°   | 501.7 | 496.4 | 492.6 | 488.9  | 487.3 | 483.4 | 478.2 | 475.0 | 470.5 | 469.0 | 465.2 |
| 17.5° | 482.7 | 477.4 | 472.0 | 470.5  | 468.2 | 462.9 | 457.6 | 453.8 | 449.2 | 446.9 | 444.6 |
| 20°   | 462.9 | 456.0 | 450.8 | 449.2  | 446.2 | 441.6 | 436.2 | 432.5 | 428.6 | 424.1 | 421.8 |
| 22.5° | 440.1 | 432.5 | 427.9 | 424.1  | 423.3 | 417.9 | 411.9 | 408.8 | 405.8 | 401.9 | 398.9 |
| 25°   | 414.9 | 408.1 | 402.8 | 399.7  | 398.2 | 393.7 | 389.1 | 385.2 | 380.7 | 378.4 | 374.5 |
| 27.5° | 389.1 | 384.5 | 377.7 | 374.5  | 372.3 | 368.5 | 363.1 | 360.8 | 356.3 | 353.3 | 351.0 |
| 30°   | 364.0 | 357.1 | 353.3 | 349.4  | 347.1 | 343.4 | 338.8 | 336.6 | 332.7 | 329.7 | 327.4 |
| 32.5° | 336.6 | 332.0 | 326.6 | 325.1  | 322.0 | 318.3 | 315.2 | 311.4 | 308.3 | 305.3 | 304.6 |
| 35°   | 311.4 | 305.3 | 300.0 | 298.5  | 296.2 | 292.3 | 290.9 | 288.6 | 284.8 | 284.0 | 280.9 |
| 37.5° | 284.0 | 280.9 | 274.9 | 272.6  | 271.8 | 268.8 | 265.8 | 264.2 | 261.9 | 259.6 | 258.9 |
| 40°   | 258.1 | 254.3 | 251.2 | 248.9  | 247.5 | 245.2 | 242.1 | 241.4 | 239.8 | 236.8 | 236.1 |
| 42.5° | 233.8 | 229.9 | 226.9 | 226.1  | 223.8 | 221.5 | 220.1 | 217.8 | 217.0 | 216.2 | 214.7 |
| 45°   | 210.1 | 207.8 | 204.8 | 204.1  | 203.3 | 200.3 | 198.7 | 197.2 | 195.7 | 195.0 | 193.4 |
| 47.5° | 188.8 | 186.6 | 184.3 | 183.5  | 182.0 | 181.3 | 179.0 | 178.1 | 175.9 | 175.1 | 174.4 |
| 50°   | 168.3 | 166.7 | 165.3 | 164.4  | 163.0 | 162.1 | 160.7 | 159.1 | 157.6 | 156.9 | 156.0 |
| 52.5° | 150.0 | 148.4 | 146.9 | 146.2  | 145.4 | 143.9 | 142.3 | 140.9 | 140.0 | 139.3 | 138.6 |
| 55°   | 132.5 | 130.9 | 130.2 | 129.5  | 128.6 | 127.9 | 125.6 | 124.9 | 124.0 | 123.3 | 121.8 |
| 57.5° | 116.5 | 114.9 | 113.5 | 113.5  | 112.6 | 111.9 | 110.3 | 108.9 | 108.9 | 107.3 | 105.8 |
| 60°   | 102.0 | 100.5 | 98.9  | 98.2   | 97.5  | 95.9  | 95.2  | 94.4  | 93.6  | 92.9  | 91.4  |
| 62.5° | 86.8  | 86.1  | 84.5  | 84.5   | 82.9  | 82.2  | 81.5  | 80.7  | 79.9  | 78.4  | 77.6  |
| 65°   | 73.8  | 73.1  | 71.5  | 70.8   | 70.8  | 70.1  | 68.5  | 67.8  | 67.0  | 67.0  | 66.2  |
| 67.5° | 61.7  | 60.9  | 59.4  | 58.7   | 58.7  | 57.8  | 57.1  | 57.1  | 56.4  | 55.5  | 56.4  |
| 70°   | 51.0  | 49.5  | 49.5  | 48.7   | 48.7  | 48.0  | 47.2  | 47.2  | 47.2  | 48.0  | 48.0  |
| 72.5° | 40.4  | 39.5  | 38.8  | 38.8   | 38.8  | 38.8  | 38.1  | 38.1  | 38.8  | 39.5  | 39.5  |
| 75°   | 32.0  | 31.3  | 31.3  | 31.3   | 30.4  | 30.4  | 31.3  | 31.3  | 32.0  | 32.0  | 32.0  |
| 77.5° | 23.6  | 23.6  | 23.6  | 23.6   | 23.6  | 23.6  | 24.4  | 24.4  | 25.1  | 25.1  | 25.1  |
| 80°   | 17.5  | 17.5  | 17.5  | 17.5   | 17.5  | 18.3  | 18.3  | 18.3  | 18.3  | 18.3  | 19.0  |
| 82.5° | 12.1  | 12.1  | 12.1  | 12.1   | 12.1  | 12.1  | 12.1  | 13.0  | 13.0  | 13.0  | 13.0  |
| 85°   | 6.9   | 7.6   | 7.6   | 7.6    | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   |
| 87.5° | 3.0   | 3.0   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 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   |



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



TEST NUMBER: P583829

CATALOG NUMBER: HCC8S10D010MB-HM80520940-81WWW

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 561.1 | 561.1 | 561.1  | 561.1 | 561.1 | 561.1 | 561.1 | 561.1 |
| 2.5°  | 549.7 | 549.7 | 549.7  | 550.5 | 549.0 | 549.0 | 549.0 | 549.0 |
| 5°    | 536.8 | 536.0 | 535.3  | 536.0 | 534.5 | 534.5 | 533.7 | 533.7 |
| 7.5°  | 520.8 | 520.0 | 519.3  | 519.3 | 517.7 | 517.7 | 517.0 | 516.3 |
| 10°   | 503.3 | 501.7 | 502.6  | 501.0 | 500.3 | 499.4 | 498.7 | 498.0 |
| 12.5° | 484.3 | 482.7 | 482.0  | 480.4 | 478.9 | 478.2 | 478.9 | 477.4 |
| 15°   | 463.6 | 461.3 | 460.6  | 459.0 | 457.6 | 456.8 | 456.8 | 456.0 |
| 17.5° | 440.8 | 439.3 | 438.5  | 437.0 | 436.2 | 434.8 | 433.9 | 433.2 |
| 20°   | 419.5 | 415.7 | 416.5  | 414.9 | 414.2 | 411.1 | 411.1 | 411.9 |
| 22.5° | 395.9 | 393.7 | 392.1  | 390.5 | 389.8 | 388.2 | 388.2 | 387.5 |
| 25°   | 372.3 | 370.0 | 369.3  | 367.7 | 367.0 | 365.4 | 364.7 | 364.7 |
| 27.5° | 349.4 | 346.4 | 346.4  | 344.9 | 343.4 | 342.6 | 341.8 | 341.1 |
| 30°   | 325.1 | 322.9 | 322.0  | 322.0 | 321.3 | 321.3 | 319.0 | 319.7 |
| 32.5° | 302.3 | 300.7 | 300.0  | 298.5 | 298.5 | 297.7 | 297.7 | 295.5 |
| 35°   | 279.5 | 277.2 | 277.9  | 276.3 | 275.6 | 274.9 | 275.6 | 274.9 |
| 37.5° | 257.3 | 255.8 | 255.8  | 254.3 | 254.3 | 253.5 | 252.8 | 254.3 |
| 40°   | 235.2 | 234.5 | 233.8  | 232.9 | 233.8 | 232.9 | 231.5 | 232.2 |
| 42.5° | 213.2 | 213.2 | 212.4  | 212.4 | 211.7 | 211.7 | 211.7 | 211.7 |
| 45°   | 193.4 | 192.7 | 192.7  | 191.8 | 191.8 | 191.8 | 191.8 | 191.1 |
| 47.5° | 173.6 | 172.8 | 172.8  | 172.8 | 172.1 | 172.1 | 171.3 | 172.1 |
| 50°   | 154.6 | 154.6 | 153.7  | 153.7 | 154.6 | 153.7 | 153.0 | 153.0 |
| 52.5° | 137.0 | 137.0 | 136.3  | 136.3 | 135.5 | 134.7 | 135.5 | 135.5 |
| 55°   | 121.0 | 120.3 | 119.5  | 119.5 | 118.8 | 118.0 | 118.0 | 118.8 |
| 57.5° | 105.8 | 105.1 | 104.3  | 104.3 | 102.8 | 102.0 | 102.0 | 102.0 |
| 60°   | 91.4  | 89.8  | 89.8   | 89.1  | 89.1  | 88.3  | 88.3  | 88.3  |
| 62.5° | 77.6  | 76.9  | 76.9   | 76.9  | 76.9  | 76.1  | 76.1  | 76.1  |
| 65°   | 66.2  | 66.2  | 66.2   | 67.0  | 67.0  | 67.8  | 67.8  | 67.8  |
| 67.5° | 57.1  | 57.8  | 57.8   | 57.8  | 58.7  | 58.7  | 58.7  | 57.8  |
| 70°   | 48.7  | 48.7  | 48.7   | 49.5  | 49.5  | 49.5  | 49.5  | 49.5  |
| 72.5° | 40.4  | 40.4  | 40.4   | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  |
| 75°   | 32.0  | 32.7  | 32.7   | 32.7  | 32.0  | 32.7  | 32.7  | 32.0  |
| 77.5° | 25.1  | 25.1  | 25.1   | 25.1  | 25.1  | 25.1  | 25.1  | 25.1  |
| 80°   | 19.0  | 19.0  | 19.0   | 19.0  | 19.0  | 19.0  | 19.0  | 19.0  |
| 82.5° | 13.0  | 13.0  | 13.0   | 13.0  | 13.0  | 13.0  | 13.0  | 13.0  |
| 85°   | 7.6   | 7.6   | 7.6    | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   |
| 87.5° | 3.0   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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

Scaled Data Report



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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)