

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: P583923

Luminaire Tested: **HCC8S15D010BZ-HM80520930-81RWWC**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583923  
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: HCC8S15D010BZ-HM80520930-81RWWC  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

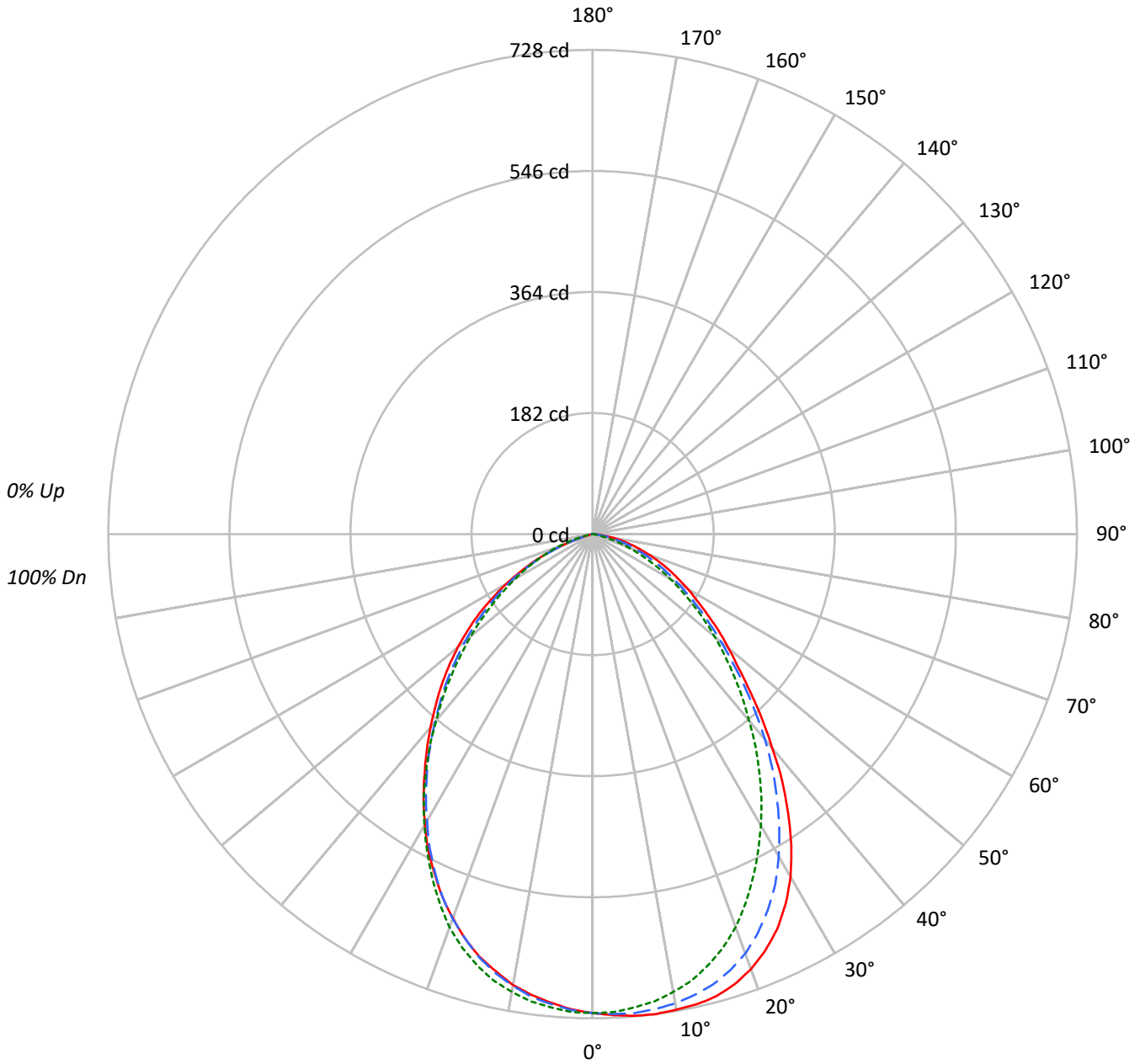
Lumens per Lamp: N/A  
Luminaire Lumens: 1368.8 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.08 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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



TEST NUMBER: P583923  
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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 | 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  | 84  | 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°  | 22208 | 22208 | 22208 |
| 5°  | 22504 | 22114 | 21906 |
| 10° | 22733 | 21887 | 21558 |
| 15° | 22963 | 21427 | 20996 |
| 20° | 22843 | 20638 | 20162 |
| 25° | 22313 | 19401 | 19139 |
| 30° | 21190 | 18006 | 17939 |
| 35° | 19293 | 16435 | 16579 |
| 40° | 16915 | 14709 | 15252 |
| 45° | 14592 | 13083 | 14003 |
| 50° | 12775 | 11485 | 12684 |
| 55° | 11322 | 9871  | 11166 |
| 60° | 10201 | 8301  | 9251  |
| 65° | 9186  | 6662  | 7085  |
| 70° | 8060  | 4860  | 3904  |
| 75° | 6875  | 2526  | 1037  |
| 80° | 5292  | 693   | 178   |
| 85° | 3397  | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 68.0   | 5.0       |
| 10°-20°   | 191.0  | 14.0      |
| 20°-30°   | 271.1  | 19.8      |
| 30°-40°   | 285.4  | 20.8      |
| 40°-50°   | 242.8  | 17.7      |
| 50°-60°   | 175.5  | 12.8      |
| 60°-70°   | 99.8   | 7.3       |
| 70°-80°   | 31.5   | 2.3       |
| 80°-90°   | 3.8    | 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°    | 530.1  | 38.7      |
| 0°-40°    | 815.5  | 59.6      |
| 0°-60°    | 1233.7 | 90.1      |
| 0°-90°    | 1368.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1368.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 720 | 720 | 720 | 720  | 720  |      |
| 5°  | 727 | 723 | 714 | 710  | 708  | 69   |
| 15° | 719 | 701 | 671 | 659  | 658  | 203  |
| 25° | 656 | 623 | 570 | 561  | 562  | 300  |
| 35° | 512 | 483 | 437 | 434  | 440  | 319  |
| 45° | 335 | 322 | 300 | 308  | 321  | 260  |
| 55° | 211 | 195 | 184 | 194  | 208  | 190  |
| 65° | 126 | 109 | 91  | 90   | 97   | 125  |
| 75° | 58  | 44  | 21  | 10   | 9    | 62   |
| 85° | 10  | 6   | 0   | 0    | 0    | 12   |
| 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°    | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 |
| 2.5°  | 724.1 | 725.0 | 723.1 | 723.1 | 725.0 | 723.1 | 724.1 | 724.1 | 723.1 | 723.1 | 722.2 |
| 5°    | 727.0 | 726.0 | 726.0 | 726.0 | 727.0 | 725.0 | 724.1 | 725.0 | 723.1 | 723.1 | 723.1 |
| 7.5°  | 727.9 | 727.9 | 727.0 | 726.0 | 726.0 | 726.0 | 725.0 | 724.1 | 723.1 | 721.2 | 720.2 |
| 10°   | 726.0 | 726.0 | 727.0 | 725.0 | 725.0 | 723.1 | 723.1 | 721.2 | 721.2 | 719.3 | 716.4 |
| 12.5° | 724.1 | 723.1 | 723.1 | 721.2 | 721.2 | 719.3 | 719.3 | 716.4 | 715.4 | 712.5 | 709.6 |
| 15°   | 719.3 | 718.3 | 716.4 | 715.4 | 714.4 | 713.5 | 711.6 | 710.6 | 707.7 | 703.8 | 700.9 |
| 17.5° | 709.6 | 708.7 | 707.7 | 705.8 | 703.8 | 702.9 | 701.9 | 699.0 | 695.2 | 692.3 | 687.6 |
| 20°   | 696.1 | 695.2 | 695.2 | 692.3 | 691.3 | 688.5 | 687.6 | 683.7 | 680.8 | 675.0 | 671.2 |
| 22.5° | 677.9 | 678.9 | 677.0 | 675.0 | 673.1 | 670.2 | 668.3 | 664.4 | 659.6 | 653.8 | 649.0 |
| 25°   | 655.8 | 656.7 | 654.8 | 652.9 | 650.0 | 648.0 | 646.1 | 640.5 | 635.6 | 628.9 | 623.1 |
| 27.5° | 627.9 | 627.9 | 627.9 | 626.0 | 621.2 | 620.2 | 618.3 | 612.5 | 605.8 | 600.0 | 594.2 |
| 30°   | 595.1 | 594.2 | 594.2 | 591.4 | 589.5 | 585.6 | 582.7 | 577.9 | 573.1 | 566.4 | 559.6 |
| 32.5° | 555.7 | 556.7 | 553.8 | 551.9 | 549.0 | 549.0 | 545.3 | 541.4 | 535.6 | 528.9 | 522.1 |
| 35°   | 512.5 | 513.5 | 511.5 | 510.6 | 505.7 | 504.8 | 503.8 | 499.0 | 495.3 | 490.4 | 482.7 |
| 37.5° | 468.3 | 467.3 | 466.3 | 466.3 | 463.4 | 461.5 | 459.6 | 456.7 | 451.0 | 447.2 | 443.3 |
| 40°   | 420.2 | 420.2 | 420.2 | 419.2 | 418.3 | 416.3 | 415.4 | 413.4 | 409.6 | 405.7 | 403.0 |
| 42.5° | 376.9 | 376.9 | 376.0 | 375.0 | 373.1 | 374.0 | 372.1 | 370.2 | 366.3 | 363.4 | 361.5 |
| 45°   | 334.6 | 334.6 | 334.6 | 335.6 | 333.7 | 330.8 | 330.8 | 328.8 | 326.9 | 325.0 | 322.1 |
| 47.5° | 297.2 | 300.0 | 298.1 | 297.2 | 298.1 | 294.3 | 294.3 | 292.3 | 290.4 | 288.5 | 284.6 |
| 50°   | 266.3 | 266.3 | 266.3 | 264.4 | 263.4 | 263.4 | 260.6 | 258.7 | 257.7 | 255.8 | 252.0 |
| 52.5° | 238.5 | 236.5 | 236.5 | 235.6 | 234.6 | 232.7 | 232.7 | 230.8 | 226.9 | 225.0 | 222.1 |
| 55°   | 210.6 | 210.6 | 209.7 | 208.7 | 207.7 | 206.8 | 205.8 | 202.9 | 201.0 | 198.1 | 195.2 |
| 57.5° | 185.6 | 187.5 | 186.5 | 184.6 | 182.7 | 182.7 | 180.8 | 178.8 | 175.9 | 173.0 | 170.1 |
| 60°   | 165.4 | 164.5 | 164.5 | 163.5 | 161.6 | 160.6 | 159.7 | 156.8 | 153.9 | 151.0 | 148.1 |
| 62.5° | 144.2 | 144.2 | 144.2 | 142.3 | 140.4 | 139.4 | 138.5 | 136.5 | 132.7 | 129.8 | 127.9 |
| 65°   | 125.9 | 125.0 | 124.0 | 123.0 | 122.1 | 120.1 | 119.2 | 117.4 | 114.5 | 111.6 | 108.7 |
| 67.5° | 107.7 | 106.8 | 106.8 | 105.8 | 102.9 | 101.9 | 101.9 | 99.1  | 96.2  | 93.3  | 90.4  |
| 70°   | 89.4  | 89.4  | 89.4  | 87.5  | 86.5  | 85.6  | 84.6  | 82.7  | 79.8  | 76.9  | 74.0  |
| 72.5° | 74.0  | 73.0  | 73.0  | 72.1  | 69.3  | 68.3  | 67.4  | 65.4  | 62.5  | 60.6  | 58.7  |
| 75°   | 57.7  | 57.7  | 56.8  | 55.8  | 54.8  | 53.9  | 52.9  | 51.0  | 48.1  | 45.2  | 44.2  |
| 77.5° | 44.2  | 43.3  | 43.3  | 42.3  | 40.4  | 39.4  | 39.4  | 37.5  | 34.6  | 32.7  | 30.7  |
| 80°   | 29.8  | 30.7  | 29.8  | 28.8  | 27.8  | 26.9  | 25.9  | 24.9  | 23.1  | 21.2  | 19.3  |
| 82.5° | 18.3  | 19.3  | 18.3  | 18.3  | 17.4  | 16.4  | 16.4  | 14.5  | 13.5  | 12.5  | 11.6  |
| 85°   | 9.6   | 9.6   | 9.6   | 9.6   | 8.7   | 8.7   | 8.7   | 7.7   | 6.7   | 5.8   | 5.8   |
| 87.5° | 2.9   | 3.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 1.9   | 1.9   | 1.9   |
| 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°    | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 |
| 2.5°  | 723.1 | 722.2 | 721.2 | 721.2 | 721.2 | 721.2 | 721.2 | 720.2 | 719.3 | 719.3 | 719.3 |
| 5°    | 721.2 | 721.2 | 721.2 | 720.2 | 719.3 | 719.3 | 717.3 | 716.4 | 715.4 | 714.4 | 713.5 |
| 7.5°  | 719.3 | 717.3 | 716.4 | 715.4 | 714.4 | 714.4 | 712.5 | 710.6 | 710.6 | 708.7 | 706.7 |
| 10°   | 713.5 | 712.5 | 710.6 | 708.7 | 707.7 | 706.7 | 704.8 | 701.9 | 700.9 | 699.0 | 697.1 |
| 12.5° | 706.7 | 704.8 | 702.9 | 699.0 | 698.1 | 697.1 | 693.2 | 690.3 | 688.5 | 687.6 | 682.8 |
| 15°   | 698.1 | 694.2 | 691.3 | 686.6 | 685.6 | 683.7 | 680.8 | 677.9 | 674.1 | 671.2 | 669.3 |
| 17.5° | 682.8 | 678.9 | 674.1 | 669.3 | 667.3 | 667.3 | 662.5 | 658.7 | 653.8 | 651.9 | 648.0 |
| 20°   | 664.4 | 659.6 | 655.8 | 650.0 | 647.1 | 644.2 | 641.3 | 635.6 | 631.8 | 628.9 | 624.1 |
| 22.5° | 643.2 | 636.6 | 631.8 | 626.0 | 621.2 | 618.3 | 613.5 | 608.6 | 603.8 | 600.9 | 597.1 |
| 25°   | 616.4 | 610.6 | 602.9 | 597.1 | 594.2 | 590.4 | 584.7 | 579.8 | 575.0 | 570.2 | 568.3 |
| 27.5° | 586.6 | 578.9 | 572.1 | 565.4 | 562.5 | 559.6 | 552.9 | 547.1 | 543.3 | 538.5 | 536.6 |
| 30°   | 553.8 | 546.2 | 538.5 | 532.7 | 529.8 | 525.0 | 521.2 | 514.4 | 509.6 | 505.7 | 500.9 |
| 32.5° | 516.3 | 510.6 | 503.8 | 495.3 | 493.3 | 489.5 | 483.7 | 480.8 | 475.0 | 472.1 | 468.3 |
| 35°   | 476.0 | 472.1 | 465.4 | 458.6 | 455.7 | 453.8 | 449.1 | 443.3 | 439.5 | 436.6 | 434.6 |
| 37.5° | 437.5 | 432.7 | 426.0 | 421.1 | 419.2 | 416.3 | 410.5 | 407.7 | 403.8 | 402.0 | 398.1 |
| 40°   | 396.2 | 391.4 | 386.6 | 383.7 | 380.8 | 378.9 | 375.0 | 372.1 | 368.2 | 365.4 | 364.4 |
| 42.5° | 355.8 | 352.9 | 349.1 | 345.2 | 344.3 | 341.4 | 339.4 | 336.6 | 333.7 | 332.7 | 329.8 |
| 45°   | 319.2 | 316.3 | 312.5 | 308.7 | 307.8 | 305.8 | 304.9 | 302.0 | 300.0 | 300.0 | 300.0 |
| 47.5° | 282.7 | 279.8 | 275.9 | 274.0 | 275.0 | 271.1 | 271.1 | 270.2 | 268.2 | 268.2 | 269.2 |
| 50°   | 250.0 | 246.2 | 245.2 | 243.3 | 241.4 | 239.4 | 240.4 | 237.5 | 237.5 | 239.4 | 238.5 |
| 52.5° | 219.2 | 215.3 | 214.4 | 212.6 | 211.6 | 211.6 | 210.6 | 210.6 | 209.7 | 210.6 | 210.6 |
| 55°   | 191.4 | 188.5 | 186.5 | 184.6 | 183.6 | 183.6 | 183.6 | 182.7 | 181.7 | 183.6 | 184.6 |
| 57.5° | 166.3 | 165.4 | 163.5 | 160.6 | 159.7 | 158.7 | 157.7 | 157.7 | 157.7 | 157.7 | 158.7 |
| 60°   | 144.2 | 142.3 | 140.4 | 137.5 | 137.5 | 136.5 | 135.6 | 134.6 | 134.6 | 134.6 | 134.6 |
| 62.5° | 125.0 | 122.1 | 119.2 | 117.4 | 116.4 | 115.4 | 114.5 | 112.5 | 112.5 | 112.5 | 112.5 |
| 65°   | 105.8 | 102.9 | 101.0 | 99.1  | 97.1  | 97.1  | 95.2  | 94.2  | 92.3  | 91.3  | 89.4  |
| 67.5° | 87.5  | 85.6  | 83.6  | 80.7  | 79.8  | 78.8  | 76.9  | 75.9  | 73.0  | 72.1  | 71.2  |
| 70°   | 71.2  | 68.3  | 66.4  | 64.5  | 63.5  | 61.6  | 59.6  | 57.7  | 55.8  | 53.9  | 51.9  |
| 72.5° | 55.8  | 52.9  | 51.0  | 49.0  | 47.1  | 47.1  | 44.2  | 42.3  | 39.4  | 37.5  | 34.6  |
| 75°   | 41.3  | 38.4  | 36.5  | 33.6  | 32.7  | 31.7  | 28.8  | 26.9  | 24.0  | 21.2  | 19.3  |
| 77.5° | 27.8  | 25.9  | 24.0  | 21.2  | 19.3  | 19.3  | 16.4  | 14.5  | 12.5  | 9.6   | 8.7   |
| 80°   | 17.4  | 15.4  | 13.5  | 11.6  | 11.6  | 9.6   | 8.7   | 6.7   | 4.8   | 3.9   | 2.9   |
| 82.5° | 9.6   | 8.7   | 7.7   | 5.8   | 5.8   | 4.8   | 3.9   | 2.9   | 1.9   | 1.0   | 1.0   |
| 85°   | 4.8   | 3.9   | 2.9   | 2.9   | 1.9   | 1.9   | 1.9   | 1.0   | 1.0   | 0.0   | 0.0   |
| 87.5° | 1.9   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 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   |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 720.2 | 720.2 | 720.2 | 720.2  | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 |
| 2.5°  | 718.3 | 718.3 | 717.3 | 717.3  | 717.3 | 716.4 | 717.3 | 716.4 | 716.4 | 716.4 | 717.3 |
| 5°    | 714.4 | 712.5 | 712.5 | 711.6  | 711.6 | 710.6 | 711.6 | 710.6 | 709.6 | 708.7 | 709.6 |
| 7.5°  | 706.7 | 704.8 | 703.8 | 702.9  | 702.9 | 702.9 | 701.9 | 700.9 | 701.9 | 699.0 | 700.9 |
| 10°   | 696.1 | 695.2 | 693.2 | 692.3  | 691.3 | 692.3 | 691.3 | 689.4 | 689.4 | 689.4 | 688.5 |
| 12.5° | 682.8 | 680.8 | 679.9 | 678.9  | 677.0 | 677.0 | 677.9 | 676.0 | 676.0 | 674.1 | 674.1 |
| 15°   | 666.4 | 664.4 | 662.5 | 662.5  | 660.6 | 660.6 | 659.6 | 659.6 | 658.7 | 657.7 | 657.7 |
| 17.5° | 646.1 | 643.2 | 641.3 | 642.3  | 641.3 | 640.5 | 640.5 | 638.5 | 637.6 | 638.5 | 638.5 |
| 20°   | 622.1 | 620.2 | 618.3 | 619.2  | 617.3 | 616.4 | 617.3 | 614.4 | 615.4 | 615.4 | 615.4 |
| 22.5° | 595.1 | 594.2 | 591.4 | 591.4  | 589.5 | 588.5 | 589.5 | 589.5 | 590.4 | 589.5 | 589.5 |
| 25°   | 565.4 | 563.5 | 561.5 | 561.5  | 560.6 | 559.6 | 560.6 | 561.5 | 560.6 | 561.5 | 561.5 |
| 27.5° | 533.7 | 530.8 | 530.8 | 528.9  | 528.9 | 529.8 | 528.9 | 529.8 | 530.8 | 530.8 | 532.7 |
| 30°   | 499.0 | 498.1 | 497.2 | 496.2  | 496.2 | 497.2 | 497.2 | 497.2 | 498.1 | 500.0 | 500.0 |
| 32.5° | 466.3 | 464.4 | 462.5 | 462.5  | 464.4 | 463.4 | 464.4 | 464.4 | 466.3 | 466.3 | 468.3 |
| 35°   | 430.8 | 430.8 | 428.9 | 429.8  | 429.8 | 429.8 | 429.8 | 431.8 | 433.7 | 434.6 | 436.6 |
| 37.5° | 398.1 | 395.2 | 396.2 | 396.2  | 397.2 | 396.2 | 399.1 | 399.1 | 401.0 | 401.0 | 403.0 |
| 40°   | 362.5 | 362.5 | 363.4 | 362.5  | 363.4 | 363.4 | 365.4 | 367.3 | 368.2 | 370.2 | 371.1 |
| 42.5° | 328.8 | 330.8 | 328.8 | 329.8  | 330.8 | 331.7 | 332.7 | 333.7 | 337.5 | 339.4 | 342.3 |
| 45°   | 298.1 | 299.1 | 300.0 | 301.0  | 300.0 | 302.0 | 302.9 | 304.9 | 307.8 | 308.7 | 309.6 |
| 47.5° | 268.2 | 269.2 | 270.2 | 271.1  | 271.1 | 273.1 | 274.0 | 275.9 | 277.9 | 278.8 | 279.8 |
| 50°   | 239.4 | 241.4 | 242.3 | 242.3  | 243.3 | 245.2 | 247.1 | 247.1 | 249.1 | 252.0 | 252.9 |
| 52.5° | 213.5 | 213.5 | 215.3 | 216.3  | 217.3 | 217.3 | 220.2 | 221.1 | 222.1 | 224.0 | 225.9 |
| 55°   | 184.6 | 187.5 | 188.5 | 188.5  | 190.4 | 192.3 | 193.3 | 194.2 | 194.2 | 198.1 | 198.1 |
| 57.5° | 159.7 | 160.6 | 162.6 | 162.6  | 162.6 | 165.4 | 165.4 | 167.3 | 168.2 | 169.2 | 171.1 |
| 60°   | 134.6 | 136.5 | 136.5 | 137.5  | 136.5 | 138.5 | 139.4 | 141.3 | 142.3 | 143.3 | 144.2 |
| 62.5° | 111.6 | 111.6 | 112.5 | 112.5  | 112.5 | 112.5 | 114.5 | 114.5 | 116.4 | 117.4 | 118.3 |
| 65°   | 89.4  | 89.4  | 89.4  | 89.4   | 89.4  | 89.4  | 89.4  | 89.4  | 90.4  | 90.4  | 92.3  |
| 67.5° | 69.3  | 68.3  | 66.4  | 67.4   | 66.4  | 66.4  | 65.4  | 65.4  | 66.4  | 66.4  | 68.3  |
| 70°   | 50.0  | 49.0  | 47.1  | 47.1   | 46.2  | 45.2  | 44.2  | 43.3  | 42.3  | 42.3  | 42.3  |
| 72.5° | 32.7  | 30.7  | 27.8  | 26.9   | 26.9  | 24.9  | 23.1  | 22.2  | 22.2  | 22.2  | 22.2  |
| 75°   | 16.4  | 14.5  | 12.5  | 11.6   | 11.6  | 9.6   | 10.6  | 9.6   | 9.6   | 9.6   | 9.6   |
| 77.5° | 6.7   | 4.8   | 3.9   | 3.9    | 3.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 80°   | 1.9   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 82.5° | 1.0   | 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: P583923

CATALOG NUMBER: HCC8S15D010BZ-HM80520930-81RWWC

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 720.2 | 720.2 | 720.2  | 720.2 | 720.2 | 720.2 | 720.2 | 720.2 |
| 2.5°  | 716.4 | 716.4 | 714.4  | 715.4 | 715.4 | 715.4 | 715.4 | 715.4 |
| 5°    | 707.7 | 708.7 | 707.7  | 708.7 | 708.7 | 707.7 | 707.7 | 707.7 |
| 7.5°  | 699.0 | 700.0 | 699.0  | 700.0 | 700.0 | 700.0 | 699.0 | 699.0 |
| 10°   | 688.5 | 688.5 | 688.5  | 688.5 | 688.5 | 687.6 | 688.5 | 688.5 |
| 12.5° | 674.1 | 674.1 | 674.1  | 675.0 | 675.0 | 674.1 | 674.1 | 673.1 |
| 15°   | 658.7 | 656.7 | 657.7  | 658.7 | 657.7 | 657.7 | 657.7 | 657.7 |
| 17.5° | 637.6 | 638.5 | 637.6  | 637.6 | 637.6 | 637.6 | 638.5 | 637.6 |
| 20°   | 615.4 | 615.4 | 616.4  | 615.4 | 615.4 | 615.4 | 615.4 | 614.4 |
| 22.5° | 590.4 | 589.5 | 589.5  | 590.4 | 590.4 | 589.5 | 590.4 | 590.4 |
| 25°   | 562.5 | 563.5 | 562.5  | 562.5 | 563.5 | 563.5 | 563.5 | 562.5 |
| 27.5° | 532.7 | 533.7 | 534.7  | 533.7 | 533.7 | 533.7 | 534.7 | 535.6 |
| 30°   | 501.9 | 503.8 | 501.9  | 501.9 | 503.8 | 502.8 | 503.8 | 503.8 |
| 32.5° | 469.2 | 472.1 | 470.2  | 472.1 | 472.1 | 473.1 | 472.1 | 473.1 |
| 35°   | 436.6 | 439.5 | 439.5  | 439.5 | 440.4 | 441.4 | 441.4 | 440.4 |
| 37.5° | 405.7 | 406.7 | 406.7  | 408.6 | 409.6 | 410.5 | 410.5 | 409.6 |
| 40°   | 374.0 | 376.0 | 376.9  | 376.9 | 376.9 | 378.9 | 380.8 | 378.9 |
| 42.5° | 343.3 | 344.3 | 345.2  | 345.2 | 347.2 | 348.1 | 349.1 | 349.1 |
| 45°   | 313.4 | 315.3 | 316.3  | 317.3 | 318.2 | 320.2 | 319.2 | 321.1 |
| 47.5° | 282.7 | 285.6 | 286.5  | 287.5 | 289.4 | 290.4 | 291.4 | 292.3 |
| 50°   | 254.9 | 256.8 | 256.8  | 258.7 | 261.5 | 261.5 | 263.4 | 264.4 |
| 52.5° | 226.9 | 227.9 | 228.8  | 229.8 | 231.7 | 233.6 | 233.6 | 235.6 |
| 55°   | 200.0 | 201.0 | 201.0  | 202.0 | 202.9 | 206.8 | 207.7 | 207.7 |
| 57.5° | 172.1 | 172.1 | 174.0  | 175.0 | 175.9 | 177.9 | 177.9 | 177.9 |
| 60°   | 145.2 | 146.2 | 146.2  | 147.1 | 148.1 | 150.0 | 151.0 | 150.0 |
| 62.5° | 118.3 | 119.2 | 119.2  | 120.1 | 122.1 | 123.0 | 122.1 | 122.1 |
| 65°   | 93.3  | 94.2  | 94.2   | 95.2  | 97.1  | 97.1  | 96.2  | 97.1  |
| 67.5° | 68.3  | 68.3  | 68.3   | 68.3  | 68.3  | 68.3  | 68.3  | 68.3  |
| 70°   | 43.3  | 42.3  | 41.3   | 42.3  | 42.3  | 42.3  | 41.3  | 43.3  |
| 72.5° | 21.2  | 22.2  | 22.2   | 22.2  | 22.2  | 22.2  | 22.2  | 21.2  |
| 75°   | 9.6   | 9.6   | 8.7    | 8.7   | 8.7   | 9.6   | 9.6   | 8.7   |
| 77.5° | 2.9   | 2.9   | 2.9    | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 80°   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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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Scaled Data Report



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Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)