

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: P583863

Luminaire Tested: **HCC8S15D010BZ-HM80520830-81WWW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583863
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: HCC8S15D010BZ-HM80520830-81WWW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

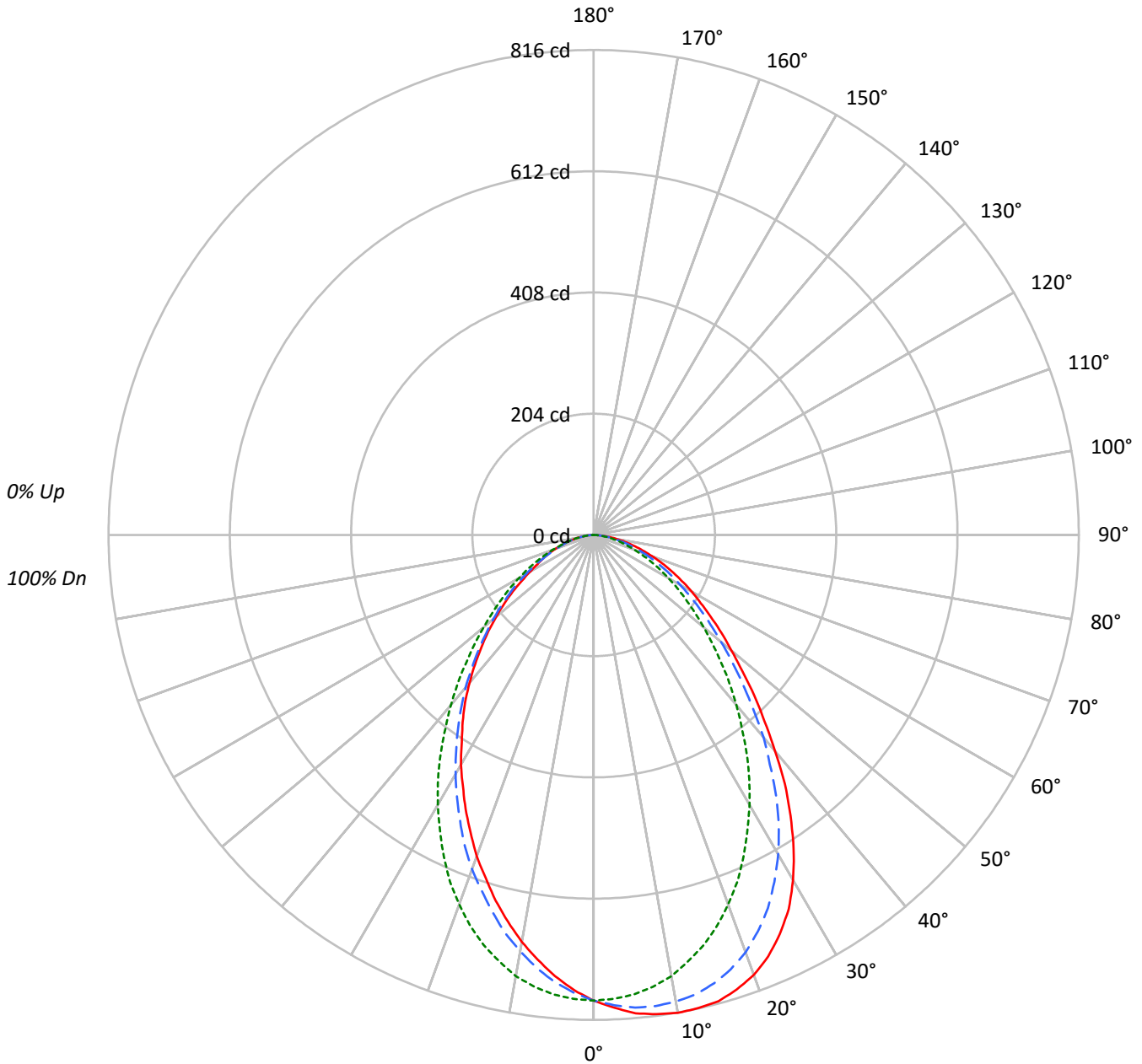
Lumens per Lamp: N/A
Luminaire Lumens: 1446.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 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: P583863
CATALOG NUMBER: HCC8S15D010BZ-HM80520830-81WWW

Luminous Intensity Polar Plot





TEST NUMBER: P583863

CATALOG NUMBER: HCC8S15D010BZ-HM80520830-81WWW

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° | 24160 | 24160 | 24160 |
| 5° | 25011 | 24020 | 23067 |
| 10° | 25566 | 23600 | 21771 |
| 15° | 25929 | 22807 | 20329 |
| 20° | 25849 | 21697 | 18872 |
| 25° | 25212 | 20292 | 17325 |
| 30° | 23885 | 18661 | 15898 |
| 35° | 21732 | 16887 | 14448 |
| 40° | 19088 | 15023 | 13054 |
| 45° | 16641 | 13209 | 11635 |
| 50° | 14488 | 11581 | 10247 |
| 55° | 12919 | 10172 | 8914 |
| 60° | 11736 | 8918 | 7604 |
| 65° | 10551 | 7756 | 6902 |
| 70° | 9395 | 6618 | 6221 |
| 75° | 8221 | 5576 | 5326 |
| 80° | 6979 | 4528 | 4724 |
| 85° | 5272 | 3361 | 3750 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.4 | 5.1 |
| 10°-20° | 202.2 | 14.0 |
| 20°-30° | 280.7 | 19.4 |
| 30°-40° | 290.2 | 20.1 |
| 40°-50° | 243.0 | 16.8 |
| 50°-60° | 176.4 | 12.2 |
| 60°-70° | 111.3 | 7.7 |
| 70°-80° | 55.1 | 3.8 |
| 80°-90° | 13.7 | 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° | 556.3 | 38.5 |
| 0°-40° | 846.5 | 58.5 |
| 0°-60° | 1265.8 | 87.5 |
| 0°-90° | 1446.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1446.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 784 | 784 | 784 | 784 | 784 | |
| 5° | 808 | 798 | 776 | 755 | 745 | 77 |
| 15° | 812 | 781 | 714 | 657 | 637 | 229 |
| 25° | 741 | 693 | 596 | 532 | 509 | 340 |
| 35° | 577 | 535 | 449 | 398 | 384 | 359 |
| 45° | 382 | 354 | 303 | 273 | 267 | 295 |
| 55° | 240 | 219 | 189 | 173 | 166 | 217 |
| 65° | 145 | 126 | 106 | 94 | 95 | 144 |
| 75° | 69 | 57 | 47 | 45 | 45 | 74 |
| 85° | 15 | 12 | 10 | 11 | 11 | 18 |
| 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° | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 |
| 2.5° | 796.3 | 796.3 | 797.3 | 796.3 | 796.3 | 796.3 | 795.2 | 795.2 | 794.1 | 794.1 | 792.0 |
| 5° | 808.0 | 805.8 | 808.0 | 805.8 | 805.8 | 805.8 | 804.7 | 802.7 | 801.6 | 799.4 | 798.4 |
| 7.5° | 813.3 | 812.2 | 812.2 | 811.1 | 811.1 | 810.1 | 809.0 | 808.0 | 803.7 | 802.7 | 799.4 |
| 10° | 816.5 | 815.4 | 815.4 | 814.3 | 812.2 | 812.2 | 810.1 | 809.0 | 803.7 | 801.6 | 797.3 |
| 12.5° | 815.4 | 815.4 | 815.4 | 814.3 | 811.1 | 810.1 | 808.0 | 804.7 | 800.5 | 796.3 | 792.0 |
| 15° | 812.2 | 812.2 | 810.1 | 809.0 | 805.8 | 803.7 | 802.7 | 797.3 | 793.0 | 787.7 | 781.3 |
| 17.5° | 801.6 | 801.6 | 800.5 | 798.4 | 795.2 | 793.0 | 791.0 | 785.7 | 781.3 | 772.9 | 766.5 |
| 20° | 787.7 | 786.7 | 785.7 | 782.4 | 779.3 | 778.2 | 774.9 | 767.6 | 762.3 | 755.9 | 747.3 |
| 22.5° | 767.6 | 766.5 | 765.4 | 763.2 | 757.9 | 755.9 | 753.7 | 748.4 | 738.8 | 732.5 | 721.8 |
| 25° | 741.0 | 741.0 | 738.8 | 735.7 | 730.4 | 728.2 | 725.0 | 719.7 | 711.2 | 701.7 | 693.1 |
| 27.5° | 710.1 | 709.0 | 705.9 | 703.7 | 699.5 | 696.4 | 690.9 | 684.7 | 676.1 | 668.7 | 658.1 |
| 30° | 670.8 | 670.8 | 668.7 | 665.5 | 660.2 | 658.1 | 653.8 | 646.4 | 637.8 | 628.3 | 620.8 |
| 32.5° | 626.1 | 626.1 | 623.0 | 620.8 | 617.7 | 612.4 | 611.3 | 602.7 | 595.3 | 587.9 | 579.4 |
| 35° | 577.3 | 578.3 | 576.2 | 571.9 | 566.6 | 566.6 | 564.5 | 557.1 | 548.5 | 541.2 | 534.8 |
| 37.5° | 528.4 | 525.1 | 524.1 | 522.0 | 518.8 | 514.5 | 512.4 | 509.2 | 501.8 | 496.5 | 486.9 |
| 40° | 474.2 | 475.3 | 473.1 | 470.9 | 469.8 | 466.7 | 465.6 | 460.3 | 455.0 | 448.6 | 444.4 |
| 42.5° | 425.2 | 425.2 | 425.2 | 423.1 | 421.0 | 417.8 | 416.7 | 413.6 | 407.2 | 403.0 | 396.6 |
| 45° | 381.6 | 378.5 | 378.5 | 377.4 | 376.3 | 374.2 | 371.0 | 368.9 | 364.6 | 361.5 | 354.0 |
| 47.5° | 339.1 | 340.2 | 339.1 | 338.0 | 334.9 | 333.8 | 332.7 | 328.5 | 324.3 | 321.0 | 315.7 |
| 50° | 302.0 | 304.0 | 302.0 | 302.0 | 299.8 | 298.7 | 296.6 | 293.4 | 290.2 | 284.9 | 279.6 |
| 52.5° | 271.1 | 271.1 | 270.0 | 269.0 | 265.8 | 263.7 | 262.6 | 261.5 | 256.2 | 252.0 | 247.7 |
| 55° | 240.3 | 241.4 | 241.4 | 238.1 | 237.0 | 235.0 | 233.9 | 230.6 | 228.6 | 222.2 | 218.9 |
| 57.5° | 213.6 | 212.6 | 213.6 | 211.6 | 209.4 | 207.3 | 206.3 | 204.1 | 200.9 | 196.7 | 192.4 |
| 60° | 190.3 | 188.2 | 188.2 | 187.1 | 185.0 | 183.9 | 181.8 | 178.6 | 175.4 | 171.1 | 168.0 |
| 62.5° | 166.9 | 165.8 | 164.7 | 163.8 | 161.6 | 160.5 | 159.4 | 156.3 | 153.0 | 149.9 | 146.6 |
| 65° | 144.6 | 144.6 | 143.5 | 141.3 | 140.4 | 139.3 | 138.2 | 136.0 | 131.8 | 129.7 | 126.5 |
| 67.5° | 124.4 | 123.3 | 123.3 | 121.2 | 119.1 | 118.0 | 118.0 | 115.9 | 112.7 | 109.5 | 107.4 |
| 70° | 104.2 | 105.2 | 104.2 | 103.1 | 101.0 | 101.0 | 98.8 | 97.8 | 93.5 | 92.5 | 89.3 |
| 72.5° | 86.2 | 86.2 | 85.1 | 85.1 | 82.9 | 81.8 | 81.8 | 79.8 | 77.6 | 75.4 | 73.4 |
| 75° | 69.0 | 69.0 | 69.0 | 68.1 | 67.0 | 64.8 | 64.8 | 63.7 | 61.7 | 59.5 | 57.4 |
| 77.5° | 54.2 | 53.1 | 53.1 | 52.1 | 51.0 | 50.0 | 50.0 | 48.9 | 46.8 | 45.7 | 43.6 |
| 80° | 39.3 | 38.3 | 38.3 | 38.3 | 36.2 | 37.2 | 36.2 | 35.1 | 34.0 | 32.9 | 31.9 |
| 82.5° | 25.5 | 26.6 | 26.6 | 25.5 | 24.5 | 24.5 | 24.5 | 23.4 | 23.4 | 22.3 | 21.2 |
| 85° | 14.9 | 14.9 | 14.9 | 14.9 | 13.9 | 13.9 | 13.9 | 12.8 | 12.8 | 12.8 | 11.7 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 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° | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 |
| 2.5° | 792.0 | 789.9 | 788.8 | 787.7 | 787.7 | 786.7 | 785.7 | 783.5 | 783.5 | 781.3 | 780.4 |
| 5° | 796.3 | 793.0 | 791.0 | 788.8 | 787.7 | 785.7 | 783.5 | 780.4 | 779.3 | 776.0 | 772.9 |
| 7.5° | 797.3 | 792.0 | 789.9 | 785.7 | 783.5 | 781.3 | 777.1 | 774.0 | 769.6 | 766.5 | 762.3 |
| 10° | 793.0 | 788.8 | 783.5 | 778.2 | 777.1 | 774.0 | 767.6 | 763.2 | 757.9 | 753.7 | 747.3 |
| 12.5° | 786.7 | 780.4 | 774.9 | 768.7 | 765.4 | 762.3 | 755.9 | 749.5 | 742.0 | 734.6 | 728.2 |
| 15° | 776.0 | 768.7 | 761.2 | 753.7 | 749.5 | 746.3 | 738.8 | 731.4 | 724.0 | 714.4 | 708.1 |
| 17.5° | 760.1 | 751.6 | 744.2 | 734.6 | 730.4 | 727.1 | 717.6 | 709.0 | 699.5 | 690.0 | 683.6 |
| 20° | 739.9 | 729.3 | 720.8 | 710.1 | 707.0 | 701.7 | 692.0 | 682.5 | 671.9 | 661.2 | 653.8 |
| 22.5° | 713.4 | 702.8 | 693.1 | 682.5 | 677.2 | 671.9 | 662.3 | 650.6 | 640.0 | 631.4 | 624.1 |
| 25° | 682.5 | 673.0 | 661.2 | 651.7 | 645.3 | 638.9 | 628.3 | 618.8 | 609.1 | 596.4 | 589.0 |
| 27.5° | 648.5 | 636.8 | 628.3 | 615.5 | 609.1 | 604.9 | 593.2 | 580.4 | 571.9 | 560.2 | 551.8 |
| 30° | 610.2 | 599.6 | 590.0 | 577.3 | 570.9 | 566.6 | 556.0 | 544.3 | 535.7 | 524.1 | 515.6 |
| 32.5° | 569.8 | 558.2 | 546.5 | 537.9 | 530.4 | 526.2 | 514.5 | 507.1 | 496.5 | 486.9 | 477.3 |
| 35° | 526.2 | 514.5 | 506.0 | 494.3 | 490.1 | 485.9 | 476.2 | 466.7 | 457.2 | 448.6 | 441.2 |
| 37.5° | 479.5 | 470.9 | 461.4 | 452.8 | 449.7 | 445.5 | 433.7 | 425.2 | 417.8 | 409.3 | 403.0 |
| 40° | 433.7 | 426.3 | 419.9 | 411.4 | 406.1 | 403.0 | 394.4 | 386.9 | 378.5 | 373.2 | 366.8 |
| 42.5° | 392.2 | 383.8 | 377.4 | 371.0 | 365.7 | 362.5 | 355.1 | 349.8 | 343.4 | 338.0 | 330.7 |
| 45° | 348.7 | 344.4 | 337.0 | 331.7 | 328.5 | 324.3 | 319.0 | 312.6 | 307.3 | 302.9 | 297.6 |
| 47.5° | 310.4 | 306.2 | 300.9 | 294.5 | 292.3 | 289.2 | 283.9 | 279.6 | 275.3 | 271.1 | 265.8 |
| 50° | 275.3 | 270.0 | 265.8 | 261.5 | 259.4 | 256.2 | 250.9 | 248.7 | 245.6 | 241.4 | 238.1 |
| 52.5° | 243.4 | 239.2 | 235.0 | 229.7 | 228.6 | 226.4 | 223.3 | 218.9 | 215.8 | 213.6 | 211.6 |
| 55° | 214.7 | 210.5 | 207.3 | 203.0 | 202.0 | 199.9 | 195.6 | 193.5 | 191.4 | 189.2 | 187.1 |
| 57.5° | 189.2 | 185.0 | 180.8 | 178.6 | 176.5 | 174.4 | 173.3 | 170.1 | 168.0 | 166.9 | 164.7 |
| 60° | 165.8 | 161.6 | 158.5 | 155.2 | 154.1 | 153.0 | 151.0 | 148.8 | 146.6 | 144.6 | 143.5 |
| 62.5° | 143.5 | 139.3 | 137.1 | 135.0 | 132.9 | 132.9 | 130.7 | 128.6 | 126.5 | 125.4 | 123.3 |
| 65° | 123.3 | 121.2 | 118.0 | 114.8 | 113.8 | 113.8 | 110.6 | 109.5 | 108.4 | 106.3 | 104.2 |
| 67.5° | 104.2 | 102.1 | 98.8 | 97.8 | 96.8 | 95.7 | 94.6 | 92.5 | 90.4 | 89.3 | 87.1 |
| 70° | 87.1 | 85.1 | 82.9 | 81.8 | 80.7 | 79.8 | 77.6 | 76.5 | 74.5 | 73.4 | 72.3 |
| 72.5° | 70.1 | 69.0 | 67.0 | 65.9 | 64.8 | 63.7 | 62.8 | 61.7 | 59.5 | 58.4 | 57.4 |
| 75° | 56.4 | 55.3 | 53.1 | 52.1 | 51.0 | 51.0 | 50.0 | 47.8 | 46.8 | 46.8 | 45.7 |
| 77.5° | 42.5 | 41.5 | 40.4 | 39.3 | 38.3 | 38.3 | 37.2 | 36.2 | 35.1 | 35.1 | 34.0 |
| 80° | 30.8 | 29.8 | 28.7 | 28.7 | 28.7 | 27.6 | 26.6 | 26.6 | 25.5 | 25.5 | 24.5 |
| 82.5° | 20.2 | 20.2 | 19.2 | 19.2 | 19.2 | 18.1 | 18.1 | 17.0 | 17.0 | 17.0 | 17.0 |
| 85° | 11.7 | 11.7 | 11.7 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 9.5 | 10.6 |
| 87.5° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.2 | 4.2 | 4.2 |
| 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° | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 |
| 2.5° | 779.3 | 778.2 | 776.0 | 776.0 | 774.0 | 774.0 | 772.9 | 771.8 | 770.7 | 769.6 | 768.7 |
| 5° | 771.8 | 767.6 | 765.4 | 764.3 | 762.3 | 761.2 | 757.9 | 755.9 | 754.8 | 752.6 | 750.6 |
| 7.5° | 757.9 | 753.7 | 749.5 | 748.4 | 747.3 | 743.1 | 739.9 | 736.7 | 734.6 | 732.5 | 730.4 |
| 10° | 742.0 | 737.8 | 732.5 | 730.4 | 728.2 | 722.9 | 718.7 | 715.4 | 711.2 | 707.0 | 705.9 |
| 12.5° | 722.9 | 716.5 | 710.1 | 708.1 | 704.8 | 699.5 | 695.3 | 690.0 | 686.7 | 681.4 | 680.3 |
| 15° | 700.6 | 693.1 | 687.8 | 682.5 | 680.3 | 675.0 | 667.6 | 663.4 | 657.0 | 654.9 | 649.5 |
| 17.5° | 674.0 | 666.6 | 659.1 | 657.0 | 653.8 | 646.4 | 638.9 | 633.6 | 627.2 | 624.1 | 620.8 |
| 20° | 646.4 | 636.8 | 629.4 | 627.2 | 623.0 | 616.6 | 609.1 | 603.8 | 598.5 | 592.1 | 589.0 |
| 22.5° | 614.4 | 603.8 | 597.4 | 592.1 | 591.1 | 583.6 | 575.1 | 570.9 | 566.6 | 561.3 | 557.1 |
| 25° | 579.4 | 569.8 | 562.4 | 558.2 | 556.0 | 549.6 | 543.2 | 537.9 | 531.5 | 528.4 | 523.1 |
| 27.5° | 543.2 | 536.8 | 527.3 | 523.1 | 519.8 | 514.5 | 507.1 | 503.9 | 497.5 | 493.3 | 490.1 |
| 30° | 508.1 | 498.6 | 493.3 | 487.9 | 484.8 | 479.5 | 473.1 | 469.8 | 464.5 | 460.3 | 457.2 |
| 32.5° | 469.8 | 463.6 | 456.1 | 453.9 | 449.7 | 444.4 | 440.1 | 434.8 | 430.5 | 426.3 | 425.2 |
| 35° | 434.8 | 426.3 | 418.9 | 416.7 | 413.6 | 408.3 | 406.1 | 403.0 | 397.7 | 396.6 | 392.2 |
| 37.5° | 396.6 | 392.2 | 383.8 | 380.5 | 379.6 | 375.2 | 371.0 | 368.9 | 365.7 | 362.5 | 361.5 |
| 40° | 360.4 | 355.1 | 350.8 | 347.6 | 345.5 | 342.3 | 338.0 | 337.0 | 334.9 | 330.7 | 329.6 |
| 42.5° | 326.3 | 321.0 | 316.8 | 315.7 | 312.6 | 309.3 | 307.3 | 304.0 | 302.9 | 302.0 | 299.8 |
| 45° | 293.4 | 290.2 | 285.9 | 284.9 | 283.9 | 279.6 | 277.5 | 275.3 | 273.2 | 272.2 | 270.0 |
| 47.5° | 263.7 | 260.4 | 257.3 | 256.2 | 254.1 | 253.0 | 249.8 | 248.7 | 245.6 | 244.5 | 243.4 |
| 50° | 235.0 | 232.8 | 230.6 | 229.7 | 227.5 | 226.4 | 224.4 | 222.2 | 220.0 | 218.9 | 218.0 |
| 52.5° | 209.4 | 207.3 | 205.2 | 204.1 | 203.0 | 200.9 | 198.8 | 196.7 | 195.6 | 194.5 | 193.5 |
| 55° | 185.0 | 182.8 | 181.8 | 180.8 | 179.7 | 178.6 | 175.4 | 174.4 | 173.3 | 172.2 | 170.1 |
| 57.5° | 162.7 | 160.5 | 158.5 | 158.5 | 157.4 | 156.3 | 154.1 | 152.1 | 152.1 | 149.9 | 147.7 |
| 60° | 142.4 | 140.4 | 138.2 | 137.1 | 136.0 | 134.0 | 132.9 | 131.8 | 130.7 | 129.7 | 127.6 |
| 62.5° | 121.2 | 120.1 | 118.0 | 118.0 | 115.9 | 114.8 | 113.8 | 112.7 | 111.6 | 109.5 | 108.4 |
| 65° | 103.1 | 102.1 | 99.9 | 98.8 | 98.8 | 97.8 | 95.7 | 94.6 | 93.5 | 93.5 | 92.5 |
| 67.5° | 86.2 | 85.1 | 82.9 | 81.8 | 81.8 | 80.7 | 79.8 | 79.8 | 78.7 | 77.6 | 78.7 |
| 70° | 71.2 | 69.0 | 69.0 | 68.1 | 68.1 | 67.0 | 65.9 | 65.9 | 65.9 | 67.0 | 67.0 |
| 72.5° | 56.4 | 55.3 | 54.2 | 54.2 | 54.2 | 54.2 | 53.1 | 53.1 | 54.2 | 55.3 | 55.3 |
| 75° | 44.7 | 43.6 | 43.6 | 43.6 | 42.5 | 42.5 | 43.6 | 43.6 | 44.7 | 44.7 | 44.7 |
| 77.5° | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 34.0 | 34.0 | 35.1 | 35.1 | 35.1 |
| 80° | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 26.6 |
| 82.5° | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 18.1 | 18.1 | 18.1 | 18.1 |
| 85° | 9.5 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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: P583863

CATALOG NUMBER: HCC8S15D010BZ-HM80520830-81WWW

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 | 783.5 |
| 2.5° | 767.6 | 767.6 | 767.6 | 768.7 | 766.5 | 766.5 | 766.5 | 766.5 |
| 5° | 749.5 | 748.4 | 747.3 | 748.4 | 746.3 | 746.3 | 745.2 | 745.2 |
| 7.5° | 727.1 | 726.1 | 725.0 | 725.0 | 722.9 | 722.9 | 721.8 | 720.8 |
| 10° | 702.8 | 700.6 | 701.7 | 699.5 | 698.4 | 697.3 | 696.4 | 695.3 |
| 12.5° | 676.1 | 674.0 | 673.0 | 670.8 | 668.7 | 667.6 | 668.7 | 666.6 |
| 15° | 647.4 | 644.2 | 643.1 | 641.1 | 638.9 | 637.8 | 637.8 | 636.8 |
| 17.5° | 615.5 | 613.3 | 612.4 | 610.2 | 609.1 | 607.1 | 606.0 | 604.9 |
| 20° | 585.8 | 580.4 | 581.5 | 579.4 | 578.3 | 574.1 | 574.1 | 575.1 |
| 22.5° | 552.9 | 549.6 | 547.4 | 545.4 | 544.3 | 542.1 | 542.1 | 541.2 |
| 25° | 519.8 | 516.7 | 515.6 | 513.5 | 512.4 | 510.3 | 509.2 | 509.2 |
| 27.5° | 487.9 | 483.7 | 483.7 | 481.6 | 479.5 | 478.4 | 477.3 | 476.2 |
| 30° | 453.9 | 450.8 | 449.7 | 449.7 | 448.6 | 448.6 | 445.5 | 446.5 |
| 32.5° | 422.0 | 419.9 | 418.9 | 416.7 | 416.7 | 415.7 | 415.7 | 412.5 |
| 35° | 390.2 | 386.9 | 388.0 | 385.8 | 384.9 | 383.8 | 384.9 | 383.8 |
| 37.5° | 359.3 | 357.2 | 357.2 | 355.1 | 355.1 | 354.0 | 352.9 | 355.1 |
| 40° | 328.5 | 327.4 | 326.3 | 325.4 | 326.3 | 325.4 | 323.2 | 324.3 |
| 42.5° | 297.6 | 297.6 | 296.6 | 296.6 | 295.6 | 295.6 | 295.6 | 295.6 |
| 45° | 270.0 | 269.0 | 269.0 | 267.9 | 267.9 | 267.9 | 267.9 | 266.8 |
| 47.5° | 242.3 | 241.4 | 241.4 | 241.4 | 240.3 | 240.3 | 239.2 | 240.3 |
| 50° | 215.8 | 215.8 | 214.7 | 214.7 | 215.8 | 214.7 | 213.6 | 213.6 |
| 52.5° | 191.4 | 191.4 | 190.3 | 190.3 | 189.2 | 188.2 | 189.2 | 189.2 |
| 55° | 169.1 | 168.0 | 166.9 | 166.9 | 165.8 | 164.7 | 164.7 | 165.8 |
| 57.5° | 147.7 | 146.6 | 145.7 | 145.7 | 143.5 | 142.4 | 142.4 | 142.4 |
| 60° | 127.6 | 125.4 | 125.4 | 124.4 | 124.4 | 123.3 | 123.3 | 123.3 |
| 62.5° | 108.4 | 107.4 | 107.4 | 107.4 | 107.4 | 106.3 | 106.3 | 106.3 |
| 65° | 92.5 | 92.5 | 92.5 | 93.5 | 93.5 | 94.6 | 94.6 | 94.6 |
| 67.5° | 79.8 | 80.7 | 80.7 | 80.7 | 81.8 | 81.8 | 81.8 | 80.7 |
| 70° | 68.1 | 68.1 | 68.1 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 |
| 72.5° | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 |
| 75° | 44.7 | 45.7 | 45.7 | 45.7 | 44.7 | 45.7 | 45.7 | 44.7 |
| 77.5° | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 | 35.1 |
| 80° | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 82.5° | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 |
| 85° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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)