

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: P593547

Luminaire Tested: **HCC8W10D010MB-HM80520950-81WWBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010MB-HM80520950-81WWBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

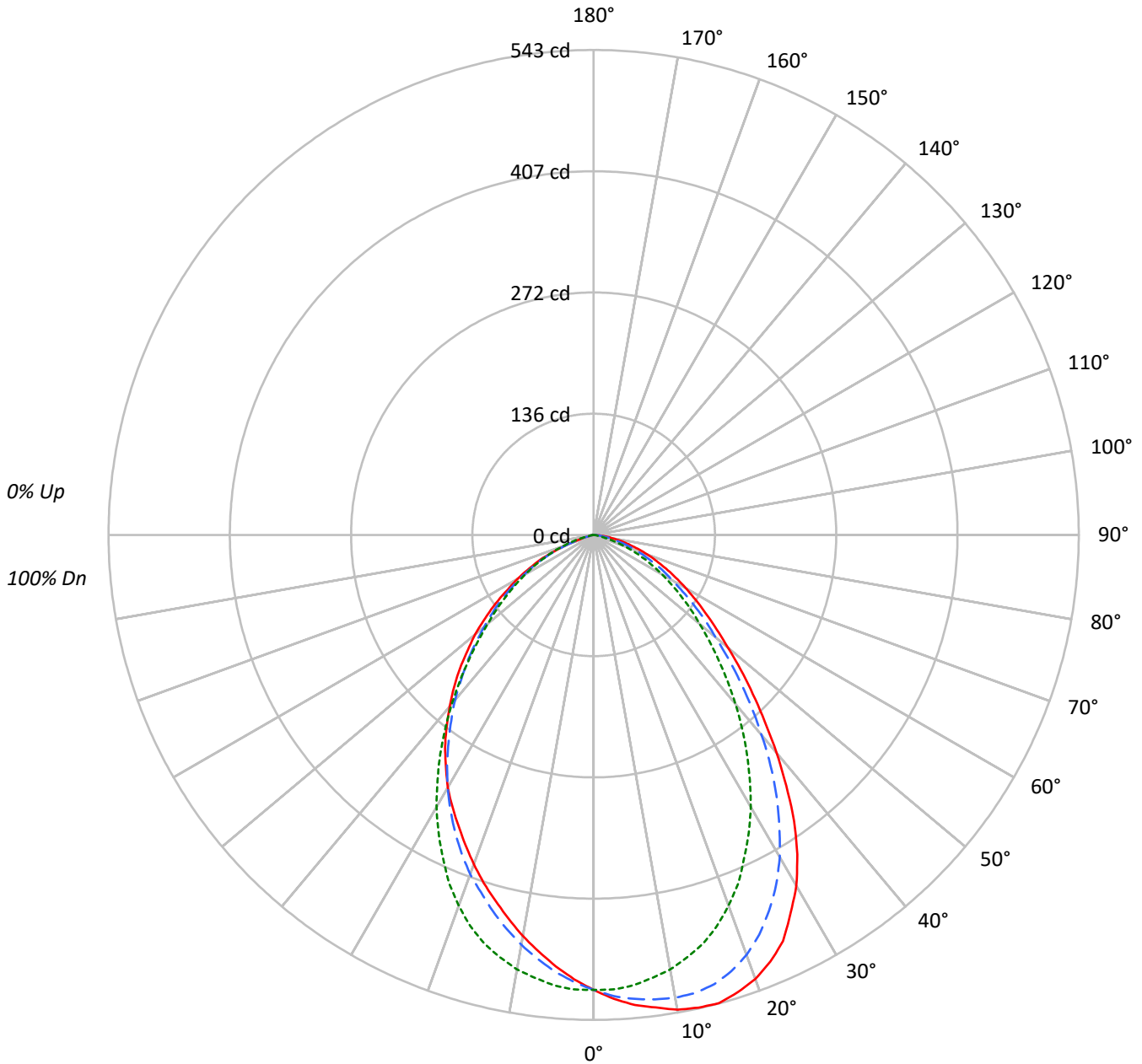
Lumens per Lamp: N/A
Luminaire Lumens: 948.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.07 / 1.16
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P593547
CATALOG NUMBER: HCC8W10D010MB-HM80520950-81WWBB

Luminous Intensity Polar Plot





TEST NUMBER: P593547

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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 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 63 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 | | | | | | | | |
| 9 | 62 | 50 | 43 | 37 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 47 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 15708 | 15708 | 15708 |
| 5° | 16356 | 15672 | 15013 |
| 10° | 16902 | 15471 | 14278 |
| 15° | 17328 | 15119 | 13539 |
| 20° | 17363 | 14491 | 12867 |
| 25° | 17070 | 13572 | 12201 |
| 30° | 16158 | 12523 | 11629 |
| 35° | 14734 | 11263 | 10917 |
| 40° | 12813 | 9931 | 10084 |
| 45° | 10994 | 8600 | 9232 |
| 50° | 9388 | 7417 | 8290 |
| 55° | 8226 | 6387 | 7204 |
| 60° | 7327 | 5446 | 6056 |
| 65° | 6501 | 4444 | 4830 |
| 70° | 5761 | 3291 | 2741 |
| 75° | 4813 | 1716 | 822 |
| 80° | 3782 | 533 | 124 |
| 85° | 2689 | 248 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.0 | 5.1 |
| 10°-20° | 134.5 | 14.2 |
| 20°-30° | 190.4 | 20.1 |
| 30°-40° | 199.2 | 21.0 |
| 40°-50° | 166.2 | 17.5 |
| 50°-60° | 117.8 | 12.4 |
| 60°-70° | 67.8 | 7.2 |
| 70°-80° | 21.8 | 2.3 |
| 80°-90° | 3.0 | 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° | 372.9 | 39.3 |
| 0°-40° | 572.1 | 60.3 |
| 0°-60° | 856.1 | 90.2 |
| 0°-90° | 948.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 948.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 509 | 509 | 509 | 509 | 509 | |
| 5° | 528 | 522 | 506 | 491 | 485 | 51 |
| 15° | 543 | 521 | 474 | 436 | 424 | 153 |
| 25° | 502 | 464 | 399 | 367 | 359 | 229 |
| 35° | 391 | 357 | 299 | 283 | 290 | 243 |
| 45° | 252 | 232 | 197 | 200 | 212 | 195 |
| 55° | 153 | 137 | 119 | 125 | 134 | 138 |
| 65° | 89 | 75 | 61 | 61 | 66 | 89 |
| 75° | 40 | 30 | 14 | 7 | 7 | 44 |
| 85° | 8 | 4 | 1 | 0 | 0 | 10 |
| 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° | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 2.5° | 520.0 | 519.3 | 518.5 | 519.3 | 518.5 | 519.3 | 518.5 | 518.5 | 517.7 | 517.0 | 517.0 |
| 5° | 528.4 | 527.7 | 527.7 | 527.7 | 526.8 | 526.1 | 526.1 | 525.4 | 523.8 | 523.1 | 521.5 |
| 7.5° | 533.7 | 534.5 | 534.5 | 534.5 | 533.0 | 533.0 | 531.4 | 530.0 | 528.4 | 526.8 | 524.6 |
| 10° | 539.8 | 539.8 | 539.1 | 538.3 | 536.8 | 536.0 | 535.3 | 533.7 | 531.4 | 528.4 | 526.1 |
| 12.5° | 542.1 | 542.1 | 541.4 | 539.8 | 539.1 | 538.3 | 537.5 | 535.3 | 532.2 | 528.4 | 525.4 |
| 15° | 542.8 | 541.4 | 540.5 | 539.8 | 538.3 | 536.0 | 536.0 | 533.0 | 529.1 | 524.6 | 520.8 |
| 17.5° | 536.8 | 537.5 | 536.0 | 534.5 | 532.2 | 530.7 | 528.4 | 526.1 | 521.5 | 516.3 | 512.4 |
| 20° | 529.1 | 528.4 | 527.7 | 525.4 | 522.3 | 521.5 | 519.3 | 515.4 | 511.7 | 505.6 | 500.3 |
| 22.5° | 517.0 | 516.3 | 514.7 | 513.1 | 510.1 | 508.6 | 506.3 | 501.7 | 496.4 | 490.3 | 484.3 |
| 25° | 501.7 | 500.3 | 498.0 | 494.9 | 492.6 | 491.1 | 488.0 | 483.4 | 477.4 | 470.6 | 464.5 |
| 27.5° | 477.4 | 479.7 | 478.2 | 473.6 | 471.3 | 468.3 | 467.5 | 461.4 | 456.0 | 449.2 | 442.3 |
| 30° | 453.8 | 453.8 | 451.5 | 449.2 | 445.3 | 443.1 | 440.1 | 435.5 | 430.2 | 421.8 | 416.5 |
| 32.5° | 424.1 | 423.3 | 420.2 | 419.5 | 416.5 | 411.9 | 411.1 | 405.1 | 399.7 | 393.7 | 386.8 |
| 35° | 391.4 | 389.8 | 386.8 | 384.5 | 383.0 | 380.7 | 378.4 | 373.1 | 367.7 | 361.7 | 357.1 |
| 37.5° | 354.0 | 354.0 | 353.3 | 349.4 | 348.0 | 346.4 | 344.1 | 338.8 | 335.7 | 329.7 | 325.1 |
| 40° | 318.3 | 317.4 | 315.2 | 314.4 | 312.9 | 310.6 | 309.2 | 306.0 | 301.5 | 296.9 | 292.3 |
| 42.5° | 283.2 | 284.0 | 280.9 | 281.7 | 278.6 | 277.2 | 276.3 | 271.8 | 269.5 | 264.9 | 261.2 |
| 45° | 252.1 | 251.2 | 249.8 | 248.9 | 247.5 | 245.9 | 244.4 | 242.1 | 238.4 | 233.8 | 231.5 |
| 47.5° | 223.1 | 220.8 | 220.8 | 220.1 | 219.2 | 216.2 | 215.5 | 213.2 | 211.0 | 206.4 | 203.3 |
| 50° | 195.7 | 195.7 | 195.7 | 195.0 | 192.7 | 191.8 | 190.4 | 188.1 | 185.8 | 182.7 | 178.1 |
| 52.5° | 173.6 | 173.6 | 173.6 | 172.8 | 169.8 | 169.0 | 168.3 | 165.3 | 162.1 | 159.9 | 156.9 |
| 55° | 153.0 | 153.9 | 153.0 | 151.6 | 149.2 | 149.2 | 146.9 | 145.4 | 142.3 | 140.0 | 137.0 |
| 57.5° | 135.5 | 135.5 | 134.0 | 133.2 | 131.7 | 130.9 | 129.5 | 127.9 | 124.0 | 121.8 | 118.0 |
| 60° | 118.8 | 118.0 | 118.0 | 116.5 | 114.9 | 113.5 | 112.6 | 110.3 | 108.9 | 105.1 | 102.0 |
| 62.5° | 103.5 | 103.5 | 102.0 | 102.0 | 98.9 | 98.9 | 98.2 | 95.9 | 93.6 | 89.8 | 88.3 |
| 65° | 89.1 | 89.1 | 88.3 | 87.5 | 85.2 | 84.5 | 83.8 | 81.5 | 79.2 | 76.9 | 74.6 |
| 67.5° | 76.1 | 76.1 | 74.6 | 73.8 | 72.4 | 71.5 | 70.1 | 68.5 | 66.2 | 63.9 | 61.7 |
| 70° | 63.9 | 63.2 | 62.4 | 61.7 | 60.1 | 59.4 | 57.8 | 56.4 | 54.1 | 52.5 | 50.2 |
| 72.5° | 51.8 | 51.8 | 51.0 | 49.5 | 48.7 | 48.0 | 47.2 | 45.7 | 43.4 | 41.1 | 39.5 |
| 75° | 40.4 | 40.4 | 40.4 | 38.8 | 37.3 | 36.5 | 36.5 | 35.0 | 33.5 | 31.3 | 29.7 |
| 77.5° | 31.3 | 30.4 | 29.7 | 29.7 | 28.1 | 27.4 | 26.7 | 25.8 | 23.6 | 22.8 | 21.3 |
| 80° | 21.3 | 22.1 | 21.3 | 20.6 | 19.8 | 19.0 | 19.0 | 17.5 | 16.7 | 15.3 | 13.7 |
| 82.5° | 14.4 | 13.7 | 13.7 | 13.0 | 13.0 | 12.1 | 12.1 | 10.7 | 9.9 | 9.1 | 8.4 |
| 85° | 7.6 | 7.6 | 6.9 | 6.9 | 6.9 | 6.1 | 6.1 | 5.3 | 5.3 | 4.6 | 3.8 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.6 | 1.6 | 1.6 |
| 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° | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 2.5° | 516.3 | 514.7 | 514.0 | 514.0 | 513.1 | 512.4 | 511.7 | 510.8 | 509.4 | 509.4 | 507.8 |
| 5° | 520.0 | 518.5 | 517.7 | 515.4 | 514.0 | 514.0 | 510.8 | 510.1 | 507.8 | 506.3 | 504.8 |
| 7.5° | 523.1 | 520.0 | 517.7 | 515.4 | 514.0 | 512.4 | 509.4 | 506.3 | 503.3 | 500.3 | 498.7 |
| 10° | 523.1 | 520.0 | 516.3 | 512.4 | 510.8 | 509.4 | 505.6 | 501.0 | 497.1 | 494.1 | 490.3 |
| 12.5° | 521.5 | 517.0 | 512.4 | 509.4 | 506.3 | 504.0 | 499.4 | 494.9 | 490.3 | 484.3 | 481.2 |
| 15° | 517.0 | 510.8 | 506.3 | 501.0 | 498.7 | 494.9 | 491.1 | 484.3 | 478.9 | 473.6 | 469.7 |
| 17.5° | 507.8 | 500.3 | 494.9 | 489.6 | 485.7 | 483.4 | 477.4 | 471.3 | 465.2 | 459.2 | 454.6 |
| 20° | 494.1 | 487.3 | 481.2 | 474.3 | 471.3 | 468.3 | 460.6 | 454.6 | 448.5 | 441.6 | 437.0 |
| 22.5° | 477.4 | 470.6 | 462.2 | 456.9 | 452.3 | 448.5 | 441.6 | 434.8 | 428.6 | 422.5 | 416.5 |
| 25° | 456.9 | 450.0 | 442.3 | 433.9 | 430.9 | 427.1 | 419.5 | 412.6 | 405.8 | 398.9 | 393.7 |
| 27.5° | 434.8 | 425.6 | 419.5 | 410.4 | 407.4 | 403.5 | 395.1 | 387.5 | 381.4 | 376.1 | 370.0 |
| 30° | 408.1 | 401.2 | 392.8 | 384.5 | 381.4 | 377.7 | 370.8 | 364.0 | 357.8 | 351.7 | 345.7 |
| 32.5° | 379.1 | 372.3 | 364.0 | 357.8 | 353.3 | 350.3 | 343.4 | 337.3 | 331.2 | 325.1 | 319.7 |
| 35° | 348.7 | 341.1 | 335.0 | 328.9 | 325.1 | 321.3 | 314.4 | 309.2 | 304.6 | 299.2 | 293.9 |
| 37.5° | 317.4 | 312.2 | 306.0 | 299.2 | 295.5 | 292.3 | 287.0 | 280.9 | 277.2 | 272.6 | 268.8 |
| 40° | 287.0 | 280.9 | 275.6 | 269.5 | 266.5 | 264.2 | 258.9 | 254.3 | 250.5 | 246.7 | 244.4 |
| 42.5° | 255.8 | 250.5 | 245.2 | 241.4 | 239.1 | 236.8 | 232.9 | 227.7 | 225.4 | 221.5 | 219.2 |
| 45° | 226.9 | 222.4 | 218.5 | 213.2 | 211.7 | 210.1 | 205.5 | 201.8 | 199.5 | 197.2 | 195.7 |
| 47.5° | 199.5 | 196.4 | 191.8 | 188.8 | 186.6 | 185.0 | 182.0 | 179.0 | 176.7 | 175.1 | 173.6 |
| 50° | 175.9 | 172.1 | 169.0 | 166.0 | 164.4 | 162.1 | 159.1 | 157.6 | 156.1 | 154.6 | 154.6 |
| 52.5° | 153.9 | 150.0 | 146.9 | 144.6 | 143.2 | 141.6 | 139.3 | 138.6 | 137.0 | 137.0 | 136.3 |
| 55° | 133.2 | 130.9 | 127.9 | 124.9 | 124.0 | 123.3 | 121.8 | 120.3 | 119.5 | 118.8 | 119.5 |
| 57.5° | 115.8 | 113.5 | 110.3 | 108.1 | 107.3 | 106.6 | 105.8 | 104.3 | 103.5 | 103.5 | 103.5 |
| 60° | 99.8 | 97.5 | 95.2 | 92.9 | 92.9 | 91.4 | 90.6 | 89.8 | 89.1 | 88.3 | 88.3 |
| 62.5° | 85.2 | 82.9 | 80.7 | 79.2 | 78.4 | 77.6 | 76.1 | 75.4 | 74.6 | 74.6 | 73.8 |
| 65° | 72.4 | 69.2 | 68.5 | 66.2 | 65.5 | 64.7 | 63.9 | 62.4 | 61.7 | 60.9 | 60.1 |
| 67.5° | 59.4 | 57.8 | 55.5 | 54.1 | 53.2 | 52.5 | 51.8 | 50.2 | 49.5 | 48.7 | 47.2 |
| 70° | 48.0 | 46.4 | 45.0 | 43.4 | 42.7 | 41.8 | 40.4 | 38.8 | 38.1 | 36.5 | 34.3 |
| 72.5° | 37.3 | 35.8 | 34.3 | 32.7 | 32.0 | 31.3 | 29.7 | 28.1 | 26.7 | 25.1 | 23.6 |
| 75° | 28.1 | 26.7 | 24.4 | 22.8 | 22.1 | 22.1 | 19.8 | 18.3 | 16.7 | 14.4 | 13.0 |
| 77.5° | 19.8 | 17.5 | 16.7 | 15.3 | 14.4 | 13.0 | 11.4 | 9.9 | 8.4 | 7.6 | 6.1 |
| 80° | 13.0 | 11.4 | 9.9 | 9.1 | 8.4 | 7.6 | 6.9 | 5.3 | 3.8 | 3.0 | 2.3 |
| 82.5° | 7.6 | 6.9 | 6.1 | 5.3 | 4.6 | 3.8 | 3.0 | 3.0 | 2.3 | 1.6 | 0.7 |
| 85° | 3.8 | 3.0 | 2.3 | 2.3 | 1.6 | 1.6 | 1.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 1.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 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° | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 2.5° | 507.1 | 506.3 | 505.6 | 504.8 | 504.8 | 503.3 | 503.3 | 502.6 | 501.0 | 500.3 | 500.3 |
| 5° | 502.6 | 500.3 | 498.7 | 498.0 | 497.1 | 494.9 | 494.1 | 492.6 | 491.1 | 489.6 | 488.9 |
| 7.5° | 495.7 | 491.9 | 490.3 | 489.6 | 487.3 | 485.0 | 483.4 | 481.2 | 478.9 | 476.6 | 475.9 |
| 10° | 487.3 | 483.4 | 479.7 | 478.2 | 475.9 | 474.3 | 471.3 | 468.3 | 466.0 | 463.7 | 461.4 |
| 12.5° | 476.6 | 472.0 | 468.3 | 466.7 | 464.5 | 461.4 | 456.9 | 455.3 | 451.5 | 450.0 | 446.9 |
| 15° | 464.5 | 459.2 | 455.3 | 453.0 | 450.8 | 446.2 | 443.1 | 440.1 | 436.2 | 434.8 | 431.6 |
| 17.5° | 449.2 | 443.1 | 439.3 | 437.0 | 435.5 | 431.6 | 427.1 | 423.3 | 419.5 | 417.9 | 415.7 |
| 20° | 430.9 | 427.1 | 421.8 | 419.5 | 417.9 | 413.4 | 408.8 | 407.4 | 404.2 | 401.2 | 398.9 |
| 22.5° | 410.4 | 406.5 | 401.2 | 398.9 | 398.2 | 394.4 | 390.5 | 388.2 | 386.0 | 383.7 | 381.4 |
| 25° | 389.1 | 384.5 | 380.0 | 378.4 | 376.8 | 373.8 | 370.8 | 369.3 | 367.0 | 365.4 | 364.0 |
| 27.5° | 366.2 | 361.7 | 357.8 | 355.6 | 354.0 | 351.7 | 350.3 | 348.7 | 347.1 | 345.7 | 344.9 |
| 30° | 341.8 | 337.3 | 334.3 | 332.7 | 331.2 | 330.4 | 328.1 | 327.4 | 326.6 | 325.1 | 325.9 |
| 32.5° | 317.4 | 313.7 | 310.6 | 308.3 | 308.3 | 306.9 | 306.0 | 306.0 | 305.3 | 305.3 | 305.3 |
| 35° | 290.9 | 288.6 | 286.3 | 285.5 | 284.8 | 284.0 | 283.2 | 284.0 | 283.2 | 284.0 | 284.8 |
| 37.5° | 266.5 | 264.2 | 262.6 | 261.9 | 261.2 | 261.9 | 261.2 | 261.2 | 261.9 | 263.5 | 264.2 |
| 40° | 241.4 | 239.8 | 238.4 | 239.1 | 238.4 | 238.4 | 238.4 | 240.6 | 241.4 | 242.1 | 242.9 |
| 42.5° | 217.8 | 216.2 | 215.5 | 215.5 | 216.2 | 215.5 | 217.0 | 217.8 | 219.2 | 221.5 | 223.1 |
| 45° | 195.0 | 194.1 | 194.1 | 195.0 | 194.1 | 195.7 | 195.7 | 197.2 | 199.5 | 201.0 | 202.5 |
| 47.5° | 173.6 | 173.6 | 173.6 | 174.4 | 174.4 | 175.1 | 176.7 | 177.4 | 179.0 | 180.4 | 182.0 |
| 50° | 153.9 | 154.6 | 155.3 | 155.3 | 155.3 | 156.9 | 158.4 | 159.1 | 159.9 | 160.7 | 163.0 |
| 52.5° | 136.3 | 137.0 | 137.0 | 137.7 | 138.6 | 139.3 | 140.0 | 141.6 | 142.3 | 143.9 | 144.6 |
| 55° | 119.5 | 119.5 | 121.0 | 121.8 | 121.8 | 121.8 | 123.3 | 123.3 | 124.9 | 125.6 | 127.2 |
| 57.5° | 103.5 | 104.3 | 104.3 | 105.1 | 105.1 | 105.8 | 106.6 | 107.3 | 108.1 | 108.9 | 109.6 |
| 60° | 88.3 | 88.3 | 88.3 | 89.1 | 89.8 | 90.6 | 89.8 | 91.4 | 91.4 | 92.9 | 93.6 |
| 62.5° | 73.8 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 75.4 | 76.1 | 76.9 | 77.6 |
| 65° | 60.1 | 60.1 | 60.1 | 59.4 | 60.1 | 59.4 | 60.1 | 60.9 | 60.9 | 61.7 | 62.4 |
| 67.5° | 46.4 | 46.4 | 45.0 | 45.0 | 45.7 | 45.7 | 45.7 | 45.7 | 45.0 | 46.4 | 46.4 |
| 70° | 33.5 | 32.7 | 32.0 | 31.3 | 31.3 | 30.4 | 30.4 | 29.7 | 29.7 | 29.7 | 29.7 |
| 72.5° | 22.1 | 20.6 | 19.0 | 18.3 | 17.5 | 17.5 | 16.0 | 15.3 | 16.0 | 16.0 | 16.0 |
| 75° | 11.4 | 9.9 | 9.1 | 8.4 | 7.6 | 7.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| 77.5° | 4.6 | 3.8 | 3.0 | 3.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 80° | 1.6 | 1.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 0.7 | 0.7 | 0.7 | 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 |



TEST NUMBER: P593547

CATALOG NUMBER: HCC8W10D010MB-HM80520950-81WWBB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 | 509.4 |
| 2.5° | 499.4 | 499.4 | 498.7 | 499.4 | 498.0 | 498.7 | 498.0 | 498.0 |
| 5° | 488.0 | 486.6 | 486.6 | 486.6 | 485.7 | 485.7 | 485.0 | 485.0 |
| 7.5° | 474.3 | 473.6 | 472.9 | 472.0 | 471.3 | 470.6 | 470.6 | 470.6 |
| 10° | 460.6 | 459.2 | 459.2 | 458.3 | 456.9 | 456.0 | 456.0 | 456.0 |
| 12.5° | 444.6 | 443.9 | 443.1 | 443.1 | 440.1 | 440.8 | 440.1 | 440.1 |
| 15° | 429.4 | 428.6 | 428.6 | 426.3 | 424.8 | 424.8 | 424.8 | 424.1 |
| 17.5° | 413.4 | 412.6 | 411.9 | 410.4 | 408.8 | 408.8 | 408.1 | 408.8 |
| 20° | 396.7 | 395.9 | 394.4 | 394.4 | 393.7 | 392.8 | 391.4 | 392.1 |
| 22.5° | 380.0 | 378.4 | 377.7 | 377.7 | 376.8 | 376.8 | 375.4 | 375.4 |
| 25° | 362.4 | 361.7 | 360.8 | 361.7 | 360.1 | 360.1 | 358.6 | 358.6 |
| 27.5° | 344.1 | 343.4 | 343.4 | 343.4 | 342.6 | 343.4 | 342.6 | 342.6 |
| 30° | 325.9 | 325.9 | 325.1 | 325.1 | 325.9 | 325.1 | 325.9 | 326.6 |
| 32.5° | 306.0 | 306.0 | 306.9 | 306.9 | 307.6 | 307.6 | 307.6 | 307.6 |
| 35° | 285.5 | 287.0 | 287.0 | 287.8 | 288.6 | 289.3 | 289.3 | 290.0 |
| 37.5° | 266.5 | 267.2 | 268.0 | 268.8 | 270.3 | 270.3 | 270.3 | 270.3 |
| 40° | 245.9 | 246.7 | 248.2 | 247.5 | 250.5 | 251.2 | 250.5 | 250.5 |
| 42.5° | 224.7 | 226.1 | 226.9 | 228.4 | 229.2 | 230.7 | 231.5 | 231.5 |
| 45° | 204.8 | 205.5 | 207.1 | 208.7 | 209.4 | 211.7 | 211.7 | 211.7 |
| 47.5° | 184.3 | 185.8 | 186.6 | 188.1 | 188.8 | 191.1 | 191.8 | 191.1 |
| 50° | 164.4 | 166.0 | 167.6 | 167.6 | 169.8 | 170.6 | 172.1 | 172.8 |
| 52.5° | 145.4 | 146.2 | 147.7 | 148.4 | 150.0 | 151.6 | 152.3 | 153.0 |
| 55° | 127.2 | 127.9 | 129.5 | 129.5 | 131.7 | 132.5 | 134.0 | 134.0 |
| 57.5° | 110.3 | 111.2 | 112.6 | 111.9 | 113.5 | 114.9 | 114.9 | 114.2 |
| 60° | 94.4 | 94.4 | 94.4 | 95.9 | 96.6 | 97.5 | 98.2 | 98.2 |
| 62.5° | 77.6 | 79.2 | 79.9 | 79.9 | 80.7 | 81.5 | 81.5 | 80.7 |
| 65° | 62.4 | 63.9 | 64.7 | 64.7 | 65.5 | 65.5 | 65.5 | 66.2 |
| 67.5° | 47.2 | 47.2 | 47.2 | 48.0 | 47.2 | 47.2 | 47.2 | 47.2 |
| 70° | 29.7 | 29.7 | 29.7 | 29.7 | 29.0 | 29.7 | 29.7 | 30.4 |
| 72.5° | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 75° | 6.9 | 6.9 | 6.9 | 7.6 | 6.9 | 6.9 | 6.9 | 6.9 |
| 77.5° | 3.0 | 2.3 | 3.0 | 3.0 | 2.3 | 2.3 | 2.3 | 2.3 |
| 80° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 0.0 | 0.7 | 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 |

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

Scaled Data Report



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

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(END OF REPORT)