

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: P593549

Luminaire Tested: **HCC8W10D010BZ-HM80520950-81WWWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W10D010BZ-HM80520950-81WWWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

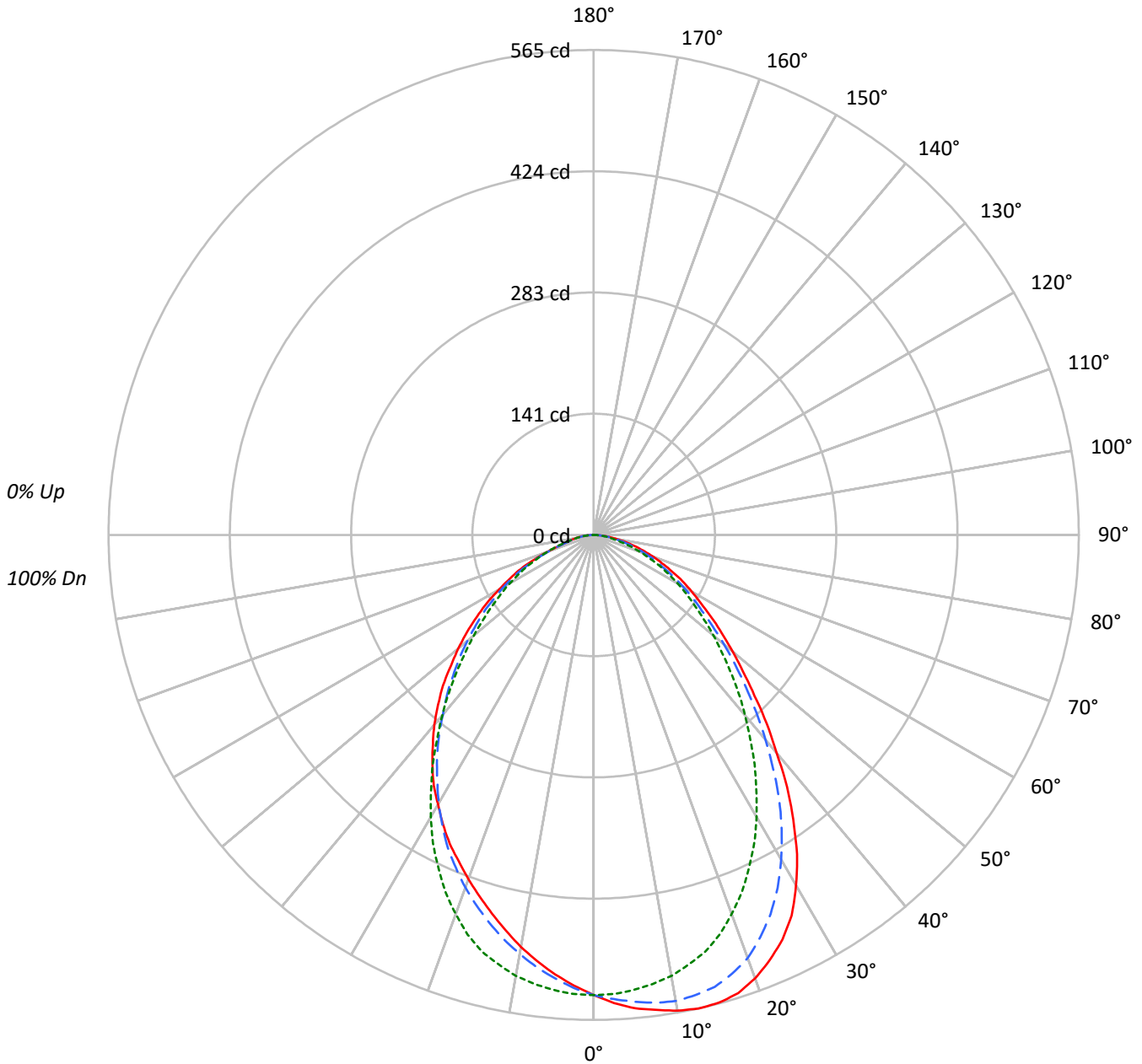
Lumens per Lamp: N/A
Luminaire Lumens: 1078.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593549
CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P593549

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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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 93 | 87 | 82 | 89 | 85 | 81 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 71 | 80 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | | | | | | |
| 4 | 87 | 76 | 68 | 62 | 84 | 75 | 67 | 61 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 59 | 57 | | | | | | | | |
| 5 | 80 | 69 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | | | | | | | | |
| 6 | 75 | 62 | 54 | 48 | 73 | 61 | 54 | 48 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 40 | | | | | | | | |
| 8 | 65 | 52 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | | | | | | | | |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | |
| 10 | 57 | 45 | 38 | 33 | 56 | 44 | 37 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 16531 | 16531 | 16531 |
| 5° | 17136 | 16474 | 15910 |
| 10° | 17622 | 16335 | 15261 |
| 15° | 18012 | 16045 | 14586 |
| 20° | 18042 | 15420 | 13996 |
| 25° | 17696 | 14559 | 13501 |
| 30° | 16785 | 13502 | 12907 |
| 35° | 15250 | 12298 | 12325 |
| 40° | 13336 | 11038 | 11617 |
| 45° | 11556 | 9829 | 10824 |
| 50° | 10122 | 8731 | 9868 |
| 55° | 9010 | 7736 | 8924 |
| 60° | 8122 | 6951 | 7845 |
| 65° | 7333 | 6114 | 6830 |
| 70° | 6591 | 5148 | 5085 |
| 75° | 5802 | 4087 | 3813 |
| 80° | 4866 | 3374 | 3658 |
| 85° | 3786 | 2972 | 3220 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.6 | 4.7 |
| 10°-20° | 142.4 | 13.2 |
| 20°-30° | 203.6 | 18.9 |
| 30°-40° | 216.3 | 20.1 |
| 40°-50° | 186.2 | 17.3 |
| 50°-60° | 139.2 | 12.9 |
| 60°-70° | 88.8 | 8.2 |
| 70°-80° | 40.4 | 3.7 |
| 80°-90° | 10.6 | 1.0 |
| 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° | 396.6 | 36.8 |
| 0°-40° | 612.9 | 56.8 |
| 0°-60° | 938.4 | 87.0 |
| 0°-90° | 1078.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1078.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 536 | 536 | 536 | 536 | 536 | |
| 5° | 554 | 546 | 532 | 518 | 514 | 53 |
| 15° | 564 | 545 | 503 | 468 | 457 | 159 |
| 25° | 520 | 487 | 428 | 402 | 397 | 238 |
| 35° | 405 | 377 | 327 | 318 | 327 | 252 |
| 45° | 265 | 250 | 225 | 232 | 248 | 206 |
| 55° | 168 | 154 | 144 | 156 | 166 | 151 |
| 65° | 100 | 89 | 84 | 88 | 94 | 100 |
| 75° | 49 | 42 | 34 | 31 | 32 | 52 |
| 85° | 11 | 9 | 8 | 9 | 9 | 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° | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 |
| 2.5° | 545.9 | 544.5 | 545.2 | 544.5 | 545.2 | 545.2 | 543.7 | 543.7 | 543.7 | 543.7 | 541.4 |
| 5° | 553.6 | 552.8 | 552.8 | 552.1 | 551.4 | 552.1 | 551.4 | 550.5 | 549.1 | 548.2 | 545.9 |
| 7.5° | 558.2 | 558.2 | 558.2 | 558.2 | 557.4 | 556.6 | 555.9 | 554.4 | 552.8 | 551.4 | 549.8 |
| 10° | 562.8 | 563.5 | 562.8 | 561.9 | 561.2 | 559.7 | 558.9 | 557.4 | 555.1 | 552.8 | 551.4 |
| 12.5° | 565.1 | 565.1 | 564.2 | 564.2 | 562.8 | 561.9 | 559.7 | 557.4 | 555.1 | 552.8 | 549.1 |
| 15° | 564.2 | 564.2 | 563.5 | 562.8 | 560.5 | 559.7 | 558.2 | 555.9 | 552.1 | 549.1 | 545.2 |
| 17.5° | 559.7 | 558.9 | 557.4 | 557.4 | 554.4 | 553.6 | 552.1 | 549.1 | 545.2 | 540.7 | 536.1 |
| 20° | 549.8 | 549.8 | 549.1 | 548.2 | 545.2 | 542.9 | 541.4 | 537.7 | 534.5 | 529.2 | 524.7 |
| 22.5° | 536.1 | 537.7 | 536.1 | 534.5 | 530.8 | 530.0 | 527.7 | 523.1 | 518.5 | 512.5 | 507.1 |
| 25° | 520.1 | 519.4 | 518.5 | 517.1 | 514.0 | 512.5 | 509.4 | 504.8 | 500.3 | 493.4 | 487.4 |
| 27.5° | 499.6 | 496.5 | 496.5 | 493.4 | 491.1 | 488.9 | 487.4 | 482.8 | 476.7 | 471.4 | 463.7 |
| 30° | 471.4 | 472.1 | 468.3 | 467.6 | 463.7 | 462.3 | 459.2 | 454.6 | 449.3 | 443.2 | 437.0 |
| 32.5° | 440.9 | 438.6 | 438.6 | 435.6 | 432.5 | 430.2 | 429.5 | 424.2 | 419.6 | 413.5 | 407.4 |
| 35° | 405.1 | 405.1 | 402.8 | 402.1 | 399.1 | 397.5 | 395.2 | 392.2 | 386.8 | 381.5 | 376.9 |
| 37.5° | 370.1 | 368.5 | 367.8 | 366.2 | 364.0 | 361.7 | 361.7 | 356.4 | 355.7 | 349.5 | 343.4 |
| 40° | 331.3 | 332.8 | 331.3 | 329.0 | 328.1 | 326.7 | 325.9 | 322.9 | 320.6 | 315.3 | 311.4 |
| 42.5° | 298.5 | 297.0 | 297.0 | 296.2 | 293.2 | 293.2 | 291.6 | 290.2 | 286.3 | 284.8 | 280.2 |
| 45° | 265.0 | 266.5 | 264.2 | 265.0 | 261.9 | 261.9 | 261.9 | 258.9 | 255.9 | 253.6 | 250.5 |
| 47.5° | 236.1 | 236.8 | 236.8 | 234.5 | 233.8 | 233.8 | 232.2 | 230.8 | 228.5 | 225.4 | 223.1 |
| 50° | 211.0 | 211.7 | 210.2 | 209.4 | 207.9 | 207.1 | 207.1 | 204.1 | 202.5 | 199.5 | 198.0 |
| 52.5° | 188.1 | 188.1 | 187.3 | 187.3 | 185.0 | 185.0 | 183.5 | 181.3 | 179.7 | 178.1 | 174.4 |
| 55° | 167.6 | 167.6 | 166.7 | 166.0 | 166.0 | 163.7 | 163.0 | 160.7 | 159.1 | 156.1 | 153.9 |
| 57.5° | 147.7 | 148.4 | 147.7 | 147.0 | 146.2 | 145.4 | 143.9 | 141.6 | 140.2 | 137.9 | 136.3 |
| 60° | 131.7 | 131.7 | 131.0 | 130.2 | 128.7 | 127.9 | 127.2 | 125.6 | 123.3 | 121.9 | 119.6 |
| 62.5° | 116.5 | 115.8 | 115.0 | 114.2 | 112.7 | 112.7 | 111.2 | 109.6 | 107.3 | 105.9 | 104.3 |
| 65° | 100.5 | 100.5 | 99.8 | 99.8 | 99.0 | 97.5 | 96.8 | 95.9 | 92.9 | 92.2 | 89.1 |
| 67.5° | 86.1 | 86.8 | 85.3 | 85.3 | 83.8 | 83.8 | 83.1 | 80.8 | 79.9 | 78.5 | 76.9 |
| 70° | 73.1 | 73.1 | 73.1 | 72.4 | 70.8 | 70.1 | 69.4 | 67.8 | 67.1 | 65.5 | 63.9 |
| 72.5° | 60.1 | 60.1 | 59.4 | 59.4 | 58.7 | 57.8 | 57.1 | 55.5 | 55.5 | 54.1 | 52.5 |
| 75° | 48.7 | 48.7 | 48.0 | 47.2 | 46.4 | 46.4 | 45.7 | 45.0 | 43.4 | 42.7 | 41.8 |
| 77.5° | 37.3 | 37.3 | 37.3 | 36.5 | 35.8 | 35.8 | 35.8 | 34.3 | 32.7 | 32.7 | 32.0 |
| 80° | 27.4 | 27.4 | 26.7 | 26.7 | 25.8 | 25.8 | 25.8 | 25.1 | 24.4 | 23.6 | 22.8 |
| 82.5° | 18.3 | 18.3 | 18.3 | 18.3 | 17.5 | 17.5 | 17.5 | 16.7 | 16.0 | 16.0 | 16.0 |
| 85° | 10.7 | 10.7 | 10.7 | 10.7 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.1 | 9.1 |
| 87.5° | 4.6 | 3.8 | 4.6 | 3.8 | 4.6 | 3.8 | 4.6 | 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° | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 |
| 2.5° | 542.2 | 541.4 | 540.7 | 539.9 | 539.9 | 539.1 | 537.7 | 536.8 | 536.1 | 535.4 | 535.4 |
| 5° | 545.2 | 544.5 | 542.9 | 541.4 | 540.7 | 539.1 | 537.7 | 536.1 | 534.5 | 532.2 | 531.5 |
| 7.5° | 547.5 | 545.2 | 543.7 | 540.7 | 539.9 | 538.4 | 536.1 | 533.8 | 530.8 | 527.7 | 525.4 |
| 10° | 547.5 | 544.5 | 542.2 | 538.4 | 536.8 | 535.4 | 532.2 | 528.5 | 524.7 | 521.7 | 517.8 |
| 12.5° | 545.9 | 542.2 | 538.4 | 534.5 | 532.2 | 530.0 | 525.4 | 521.7 | 517.1 | 512.5 | 509.4 |
| 15° | 540.7 | 536.1 | 531.5 | 527.0 | 524.7 | 521.7 | 517.1 | 511.7 | 507.1 | 502.6 | 497.3 |
| 17.5° | 530.8 | 526.2 | 520.8 | 515.5 | 512.5 | 510.2 | 503.4 | 499.6 | 492.7 | 488.1 | 483.6 |
| 20° | 517.8 | 512.5 | 505.7 | 500.3 | 496.5 | 494.3 | 488.9 | 482.0 | 476.7 | 469.9 | 465.3 |
| 22.5° | 501.1 | 494.3 | 487.4 | 482.0 | 478.3 | 475.2 | 468.3 | 461.4 | 456.9 | 450.8 | 445.5 |
| 25° | 481.3 | 474.4 | 467.6 | 459.9 | 456.2 | 453.0 | 447.0 | 440.9 | 434.8 | 427.9 | 423.3 |
| 27.5° | 457.6 | 450.0 | 443.9 | 437.0 | 433.3 | 428.8 | 421.9 | 415.8 | 409.6 | 405.1 | 399.1 |
| 30° | 431.8 | 423.3 | 417.3 | 410.5 | 406.6 | 402.8 | 395.9 | 389.9 | 384.5 | 379.2 | 376.2 |
| 32.5° | 400.5 | 394.5 | 388.4 | 381.5 | 378.5 | 376.2 | 369.4 | 363.2 | 357.1 | 352.5 | 350.3 |
| 35° | 370.8 | 364.0 | 358.7 | 352.5 | 348.8 | 346.5 | 340.4 | 335.1 | 332.0 | 326.7 | 323.6 |
| 37.5° | 339.7 | 334.3 | 328.1 | 322.1 | 319.9 | 317.6 | 313.0 | 307.6 | 303.0 | 299.3 | 297.7 |
| 40° | 306.9 | 302.3 | 297.0 | 293.2 | 290.9 | 288.6 | 284.8 | 281.0 | 277.9 | 274.2 | 272.6 |
| 42.5° | 275.6 | 272.6 | 268.0 | 263.5 | 261.2 | 260.5 | 255.9 | 252.8 | 251.3 | 249.8 | 248.2 |
| 45° | 247.5 | 242.9 | 239.9 | 236.8 | 234.5 | 233.1 | 230.8 | 228.5 | 226.9 | 225.4 | 223.9 |
| 47.5° | 220.1 | 216.2 | 213.2 | 211.0 | 208.7 | 207.9 | 206.4 | 204.1 | 202.5 | 202.5 | 202.5 |
| 50° | 195.0 | 191.8 | 188.8 | 187.3 | 186.6 | 185.0 | 183.5 | 182.7 | 182.0 | 182.0 | 182.0 |
| 52.5° | 172.8 | 169.8 | 167.6 | 166.0 | 166.0 | 164.4 | 163.0 | 162.1 | 162.1 | 162.1 | 162.1 |
| 55° | 152.3 | 150.0 | 148.4 | 147.0 | 145.4 | 144.7 | 144.7 | 144.7 | 143.9 | 143.9 | 144.7 |
| 57.5° | 134.0 | 132.5 | 130.2 | 128.7 | 127.9 | 127.9 | 127.2 | 126.5 | 127.2 | 127.9 | 128.7 |
| 60° | 117.3 | 115.8 | 115.0 | 112.7 | 112.7 | 112.7 | 111.9 | 111.9 | 111.9 | 112.7 | 113.5 |
| 62.5° | 102.0 | 101.3 | 99.8 | 99.0 | 98.2 | 98.2 | 97.5 | 97.5 | 97.5 | 97.5 | 98.2 |
| 65° | 88.3 | 86.8 | 85.3 | 85.3 | 85.3 | 84.5 | 84.5 | 83.1 | 83.8 | 83.8 | 83.1 |
| 67.5° | 75.4 | 73.9 | 73.1 | 72.4 | 71.6 | 71.6 | 70.8 | 70.1 | 69.4 | 69.4 | 69.4 |
| 70° | 63.2 | 61.7 | 61.7 | 60.1 | 60.1 | 59.4 | 58.7 | 58.7 | 57.8 | 57.1 | 56.4 |
| 72.5° | 51.0 | 50.2 | 49.5 | 48.7 | 48.7 | 48.7 | 48.0 | 47.2 | 46.4 | 45.7 | 44.1 |
| 75° | 40.4 | 40.4 | 38.8 | 38.1 | 38.1 | 37.3 | 36.5 | 35.8 | 35.0 | 34.3 | 33.5 |
| 77.5° | 31.3 | 30.4 | 29.0 | 28.1 | 28.1 | 28.1 | 27.4 | 26.7 | 25.8 | 25.1 | 24.4 |
| 80° | 22.8 | 22.1 | 21.3 | 20.6 | 20.6 | 20.6 | 19.8 | 19.8 | 19.0 | 19.0 | 19.0 |
| 82.5° | 15.3 | 15.3 | 14.4 | 14.4 | 14.4 | 14.4 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 85° | 9.1 | 9.1 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 87.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 |
| 2.5° | 533.8 | 533.8 | 532.2 | 531.5 | 530.8 | 531.5 | 530.0 | 529.2 | 528.5 | 528.5 | 527.7 |
| 5° | 529.2 | 528.5 | 525.4 | 524.7 | 524.0 | 523.1 | 521.7 | 520.1 | 518.5 | 517.8 | 517.1 |
| 7.5° | 523.1 | 520.8 | 517.8 | 517.1 | 516.3 | 514.0 | 511.7 | 510.2 | 508.0 | 507.1 | 505.7 |
| 10° | 514.8 | 511.7 | 509.4 | 507.1 | 505.7 | 503.4 | 501.1 | 498.8 | 495.7 | 495.0 | 492.7 |
| 12.5° | 504.8 | 501.1 | 496.5 | 495.7 | 493.4 | 490.4 | 487.4 | 485.1 | 482.8 | 481.3 | 479.0 |
| 15° | 492.7 | 488.9 | 484.3 | 482.0 | 479.7 | 477.4 | 473.7 | 470.6 | 468.3 | 466.0 | 463.7 |
| 17.5° | 478.3 | 473.7 | 469.9 | 467.6 | 466.0 | 462.3 | 459.2 | 455.3 | 453.0 | 450.8 | 448.5 |
| 20° | 460.7 | 456.9 | 451.6 | 449.3 | 448.5 | 445.5 | 441.6 | 440.2 | 437.0 | 434.8 | 433.3 |
| 22.5° | 440.9 | 437.0 | 432.5 | 431.0 | 427.9 | 426.5 | 422.6 | 421.1 | 419.6 | 417.3 | 416.5 |
| 25° | 418.8 | 415.1 | 411.2 | 410.5 | 408.2 | 406.6 | 404.4 | 402.1 | 402.1 | 399.8 | 399.8 |
| 27.5° | 395.9 | 392.2 | 389.1 | 387.6 | 386.8 | 385.4 | 383.1 | 382.2 | 381.5 | 380.8 | 380.8 |
| 30° | 371.7 | 367.1 | 365.5 | 364.8 | 364.0 | 362.5 | 361.7 | 360.2 | 361.0 | 361.7 | 361.0 |
| 32.5° | 345.7 | 344.3 | 341.1 | 339.7 | 340.4 | 339.7 | 338.1 | 339.7 | 338.8 | 340.4 | 341.1 |
| 35° | 320.6 | 319.0 | 317.6 | 317.6 | 316.0 | 316.0 | 316.0 | 316.7 | 318.3 | 319.0 | 320.6 |
| 37.5° | 296.2 | 293.9 | 293.2 | 292.4 | 293.2 | 293.2 | 293.2 | 294.7 | 296.2 | 297.7 | 300.0 |
| 40° | 270.3 | 268.8 | 268.8 | 268.8 | 268.8 | 271.1 | 270.3 | 271.9 | 273.3 | 275.6 | 277.9 |
| 42.5° | 245.9 | 245.9 | 246.8 | 246.8 | 246.8 | 246.8 | 248.2 | 250.5 | 252.8 | 255.1 | 257.3 |
| 45° | 223.1 | 223.1 | 223.1 | 224.7 | 224.7 | 225.4 | 228.5 | 229.9 | 231.5 | 233.8 | 236.1 |
| 47.5° | 201.8 | 201.8 | 202.5 | 203.4 | 204.1 | 205.7 | 207.1 | 209.4 | 211.7 | 213.2 | 215.5 |
| 50° | 182.0 | 182.7 | 184.3 | 185.8 | 185.8 | 186.6 | 188.8 | 190.4 | 191.8 | 194.1 | 195.0 |
| 52.5° | 163.0 | 164.4 | 166.0 | 166.7 | 167.6 | 169.0 | 169.8 | 172.1 | 172.8 | 175.1 | 175.9 |
| 55° | 145.4 | 146.2 | 148.4 | 149.3 | 149.3 | 150.7 | 152.3 | 153.9 | 156.1 | 156.1 | 157.6 |
| 57.5° | 129.5 | 130.2 | 131.7 | 132.5 | 131.7 | 134.0 | 134.7 | 136.3 | 137.0 | 138.6 | 139.3 |
| 60° | 113.5 | 115.0 | 115.8 | 115.8 | 116.5 | 117.3 | 118.8 | 118.8 | 120.3 | 121.9 | 121.9 |
| 62.5° | 98.2 | 99.0 | 99.8 | 100.5 | 101.3 | 100.5 | 102.8 | 102.8 | 104.3 | 105.1 | 106.6 |
| 65° | 83.8 | 84.5 | 84.5 | 85.3 | 85.3 | 86.1 | 86.1 | 86.8 | 87.6 | 89.1 | 89.9 |
| 67.5° | 69.4 | 69.4 | 69.4 | 70.1 | 69.4 | 70.1 | 70.1 | 70.8 | 70.8 | 72.4 | 73.1 |
| 70° | 56.4 | 55.5 | 54.8 | 54.8 | 54.8 | 54.8 | 54.1 | 54.8 | 54.8 | 55.5 | 55.5 |
| 72.5° | 43.4 | 42.7 | 41.8 | 41.1 | 41.1 | 40.4 | 39.5 | 40.4 | 40.4 | 41.1 | 41.1 |
| 75° | 32.7 | 31.3 | 31.3 | 31.3 | 30.4 | 30.4 | 30.4 | 31.3 | 31.3 | 31.3 | 32.0 |
| 77.5° | 24.4 | 24.4 | 23.6 | 23.6 | 23.6 | 24.4 | 24.4 | 25.1 | 25.1 | 25.1 | 25.1 |
| 80° | 18.3 | 19.0 | 19.0 | 19.0 | 19.0 | 19.8 | 19.8 | 19.8 | 19.8 | 20.6 | 20.6 |
| 82.5° | 13.7 | 13.7 | 13.7 | 13.7 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 85° | 8.4 | 9.1 | 9.1 | 8.4 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 87.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 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 |

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



TEST NUMBER: P593549

CATALOG NUMBER: HCC8W10D010BZ-HM80520950-81WWWB

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 | 536.1 |
| 2.5° | 527.0 | 527.0 | 527.0 | 527.0 | 526.2 | 526.2 | 526.2 | 525.4 |
| 5° | 515.5 | 515.5 | 515.5 | 514.0 | 514.8 | 514.8 | 513.3 | 514.0 |
| 7.5° | 504.1 | 503.4 | 502.6 | 502.6 | 501.8 | 501.1 | 500.3 | 501.1 |
| 10° | 491.1 | 488.9 | 488.9 | 488.1 | 488.1 | 486.6 | 486.6 | 487.4 |
| 12.5° | 476.7 | 475.2 | 475.2 | 474.4 | 473.7 | 472.9 | 472.1 | 472.1 |
| 15° | 462.3 | 460.7 | 459.9 | 459.2 | 458.4 | 456.9 | 457.6 | 456.9 |
| 17.5° | 447.7 | 445.5 | 445.5 | 444.7 | 443.9 | 442.5 | 442.5 | 441.6 |
| 20° | 431.0 | 430.2 | 428.8 | 429.5 | 428.8 | 427.2 | 426.5 | 426.5 |
| 22.5° | 414.2 | 414.2 | 413.5 | 413.5 | 412.8 | 411.9 | 411.2 | 411.2 |
| 25° | 398.2 | 397.5 | 398.2 | 398.2 | 395.9 | 395.9 | 395.9 | 396.8 |
| 27.5° | 380.0 | 380.8 | 380.0 | 380.0 | 380.0 | 380.0 | 380.8 | 380.0 |
| 30° | 361.7 | 361.7 | 361.7 | 362.5 | 364.0 | 363.2 | 363.2 | 362.5 |
| 32.5° | 342.0 | 342.7 | 342.7 | 343.4 | 344.3 | 345.7 | 345.7 | 346.5 |
| 35° | 322.1 | 323.6 | 324.4 | 323.6 | 325.9 | 325.9 | 327.4 | 327.4 |
| 37.5° | 301.6 | 302.3 | 303.9 | 304.6 | 306.1 | 306.9 | 307.6 | 307.6 |
| 40° | 279.5 | 282.5 | 283.3 | 284.0 | 286.3 | 286.3 | 287.0 | 288.6 |
| 42.5° | 258.9 | 261.9 | 262.8 | 263.5 | 265.0 | 267.3 | 266.5 | 268.0 |
| 45° | 239.1 | 241.4 | 242.2 | 242.9 | 245.2 | 245.9 | 245.9 | 248.2 |
| 47.5° | 217.8 | 219.4 | 220.1 | 221.6 | 223.1 | 224.7 | 226.2 | 225.4 |
| 50° | 196.4 | 198.8 | 200.3 | 201.1 | 203.4 | 204.1 | 204.8 | 205.7 |
| 52.5° | 177.4 | 179.0 | 179.7 | 180.4 | 182.7 | 183.5 | 184.3 | 185.8 |
| 55° | 159.1 | 159.9 | 161.4 | 160.7 | 163.0 | 163.7 | 164.4 | 166.0 |
| 57.5° | 140.9 | 141.6 | 142.4 | 142.4 | 143.9 | 145.4 | 146.2 | 147.0 |
| 60° | 123.3 | 124.9 | 125.6 | 125.6 | 125.6 | 127.2 | 127.2 | 127.2 |
| 62.5° | 107.3 | 107.3 | 108.2 | 108.2 | 109.6 | 109.6 | 109.6 | 109.6 |
| 65° | 90.6 | 91.4 | 92.2 | 92.2 | 93.6 | 92.9 | 94.5 | 93.6 |
| 67.5° | 73.1 | 73.1 | 74.6 | 74.6 | 73.9 | 74.6 | 74.6 | 74.6 |
| 70° | 55.5 | 55.5 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 |
| 72.5° | 41.1 | 41.1 | 41.1 | 41.8 | 41.1 | 41.1 | 41.8 | 41.1 |
| 75° | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 |
| 77.5° | 25.1 | 25.1 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 |
| 80° | 20.6 | 20.6 | 20.6 | 20.6 | 21.3 | 20.6 | 20.6 | 20.6 |
| 82.5° | 15.3 | 14.4 | 15.3 | 14.4 | 15.3 | 15.3 | 15.3 | 15.3 |
| 85° | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 87.5° | 3.8 | 3.8 | 3.8 | 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 |

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)