

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892684

Luminaire Tested: 2MB-3SL-RND-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-RND-UNV-L950
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

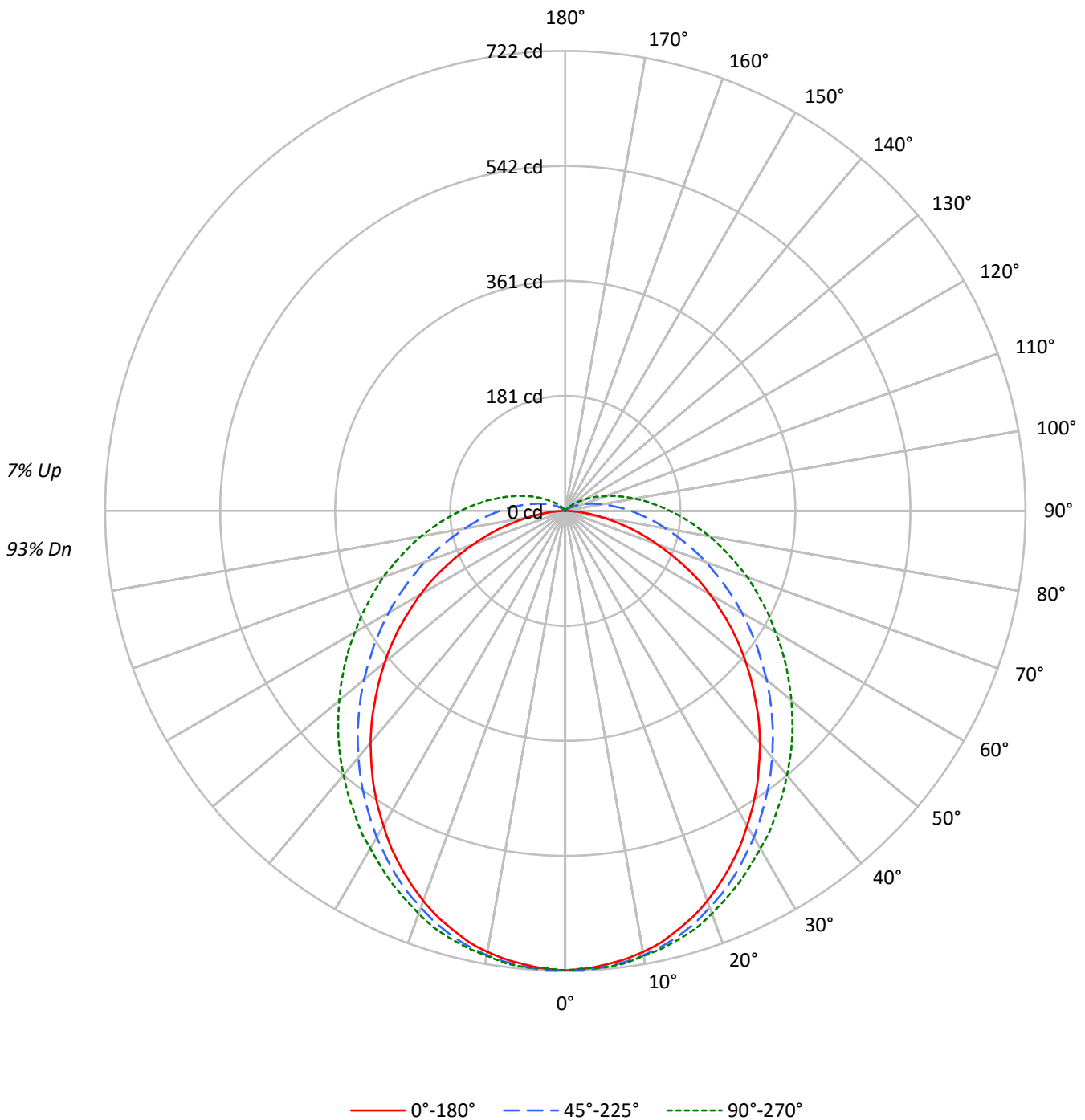
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2347.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892684
CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

Luminous Intensity Polar Plot



TEST NUMBER: P892684

CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF | 20 | | | | 20 | | | | 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 | 50 | 30 | 10 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | | |
| 1 | 105 | 100 | 95 | 90 | 102 | 97 | 92 | 88 | 91 | 87 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| 2 | 95 | 86 | 79 | 72 | 92 | 84 | 77 | 71 | 79 | 73 | 68 | 75 | 70 | 66 | 70 | 67 | 63 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| 3 | 87 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 69 | 62 | 57 | 65 | 60 | 55 | 62 | 57 | 53 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | |
| 4 | 79 | 67 | 57 | 50 | 76 | 65 | 56 | 50 | 61 | 54 | 48 | 58 | 52 | 47 | 55 | 50 | 45 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | |
| 5 | 73 | 59 | 50 | 43 | 70 | 58 | 49 | 43 | 55 | 47 | 41 | 52 | 46 | 40 | 50 | 44 | 39 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | | |
| 6 | 67 | 53 | 44 | 38 | 65 | 52 | 43 | 37 | 49 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 31 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 41 | 34 | 29 | 39 | 33 | 28 | 38 | 32 | 27 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | |
| 9 | 54 | 40 | 32 | 26 | 52 | 40 | 32 | 26 | 38 | 31 | 26 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | | |
| 10 | 51 | 37 | 29 | 24 | 49 | 37 | 29 | 24 | 35 | 28 | 23 | 34 | 27 | 23 | 32 | 27 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10319 | 10319 | 10319 |
| 5° | 10270 | 10315 | 10329 |
| 10° | 10213 | 10287 | 10302 |
| 15° | 10083 | 10218 | 10293 |
| 20° | 9917 | 10087 | 10241 |
| 25° | 9690 | 9946 | 10170 |
| 30° | 9422 | 9772 | 10108 |
| 35° | 9165 | 9589 | 10085 |
| 40° | 8872 | 9421 | 10103 |
| 45° | 8548 | 9284 | 10186 |
| 50° | 8230 | 9176 | 10304 |
| 55° | 7884 | 9121 | 10538 |
| 60° | 7508 | 9158 | 10898 |
| 65° | 7031 | 9329 | 11556 |
| 70° | 6441 | 9829 | 12711 |
| 75° | 5826 | 10806 | 14669 |
| 80° | 4926 | 13189 | 18948 |
| 85° | 3989 | 21289 | 32089 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 58804 cd/sqm



TEST NUMBER: P892684
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.2 | 2.9 |
| 10°-20° | 194.1 | 8.3 |
| 20°-30° | 289.4 | 12.3 |
| 30°-40° | 343.4 | 14.6 |
| 40°-50° | 354.9 | 15.1 |
| 50°-60° | 327.6 | 14.0 |
| 60°-70° | 271.9 | 11.6 |
| 70°-80° | 201.5 | 8.6 |
| 80°-90° | 132.9 | 5.7 |
| 90°-100° | 80.7 | 3.4 |
| 100°-110° | 45.7 | 1.9 |
| 110°-120° | 22.8 | 1.0 |
| 120°-130° | 9.5 | 0.4 |
| 130°-140° | 3.0 | 0.1 |
| 140°-150° | 0.9 | 0.0 |
| 150°-160° | 0.4 | 0.0 |
| 160°-170° | 0.3 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-30° | 551.6 | 23.5 |
| 0°-40° | 895.1 | 38.1 |
| 0°-60° | 1577.5 | 67.2 |
| 0°-90° | 2183.8 | 93.0 |
| 90°-120° | 149.2 | 6.4 |
| 90°-150° | 162.5 | 6.9 |
| 90°-180° | 163.0 | 6.9 |
| 0°-180° | 2347.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 721 | 721 | 721 | 721 | 721 | |
| 5° | 715 | 725 | 718 | 716 | 719 | 68 |
| 15° | 681 | 692 | 690 | 692 | 695 | 192 |
| 25° | 614 | 624 | 630 | 636 | 644 | 283 |
| 35° | 525 | 536 | 549 | 566 | 578 | 328 |
| 45° | 422 | 436 | 459 | 486 | 504 | 326 |
| 55° | 316 | 330 | 366 | 402 | 422 | 283 |
| 65° | 208 | 229 | 276 | 320 | 341 | 206 |
| 75° | 105 | 138 | 196 | 244 | 265 | 111 |
| 85° | 24 | 69 | 130 | 175 | 196 | 27 |
| 90° | 0 | 46 | 102 | 146 | 164 | 1 |
| 95° | 0 | 27 | 78 | 118 | 136 | 0 |
| 105° | 0 | 9 | 44 | 74 | 88 | 0 |
| 115° | 0 | 2 | 20 | 42 | 52 | 0 |
| 125° | 0 | 1 | 8 | 19 | 25 | 0 |
| 135° | 1 | 0 | 2 | 7 | 9 | 1 |
| 145° | 1 | 1 | 1 | 2 | 2 | 1 |
| 155° | 1 | 1 | 1 | 0 | 0 | 0 |
| 165° | 1 | 1 | 1 | 1 | 0 | 0 |
| 175° | 1 | 1 | 1 | 1 | 0 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P892684

CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 |
| 2.5° | 719.3 | 717.3 | 718.3 | 718.3 | 721.3 | 729.4 | 726.4 | 726.4 | 726.4 | 718.3 | 722.3 |
| 5° | 715.2 | 713.2 | 714.2 | 715.2 | 717.3 | 725.4 | 722.3 | 723.4 | 722.3 | 714.2 | 718.3 |
| 7.5° | 710.2 | 708.2 | 708.2 | 709.2 | 712.2 | 720.3 | 717.3 | 718.3 | 717.3 | 709.2 | 714.2 |
| 10° | 703.1 | 701.1 | 702.1 | 703.1 | 705.1 | 714.2 | 711.2 | 711.2 | 711.2 | 704.1 | 708.2 |
| 12.5° | 694.0 | 691.9 | 693.0 | 694.0 | 697.0 | 704.1 | 701.1 | 702.1 | 702.1 | 696.0 | 700.1 |
| 15° | 680.8 | 678.8 | 680.8 | 681.8 | 684.9 | 691.9 | 689.9 | 690.9 | 690.9 | 684.9 | 689.9 |
| 17.5° | 667.6 | 664.6 | 666.6 | 667.6 | 671.7 | 677.8 | 675.7 | 677.8 | 677.8 | 671.7 | 677.8 |
| 20° | 651.4 | 648.4 | 650.4 | 652.4 | 655.5 | 661.6 | 659.5 | 661.6 | 661.6 | 656.5 | 662.6 |
| 22.5° | 633.2 | 630.1 | 632.2 | 634.2 | 638.3 | 643.3 | 642.3 | 644.3 | 644.3 | 640.3 | 647.4 |
| 25° | 613.9 | 610.9 | 613.9 | 615.0 | 619.0 | 624.1 | 624.1 | 625.1 | 626.1 | 623.1 | 630.1 |
| 27.5° | 593.7 | 589.6 | 592.7 | 594.7 | 598.7 | 603.8 | 603.8 | 605.8 | 605.8 | 604.8 | 610.9 |
| 30° | 570.4 | 567.3 | 571.4 | 572.4 | 576.5 | 581.5 | 582.5 | 584.6 | 584.6 | 583.5 | 591.6 |
| 32.5° | 548.1 | 545.0 | 548.1 | 550.1 | 555.2 | 559.2 | 560.2 | 562.3 | 563.3 | 563.3 | 570.4 |
| 35° | 524.8 | 521.7 | 524.8 | 526.8 | 531.9 | 535.9 | 536.9 | 539.0 | 540.0 | 542.0 | 549.1 |
| 37.5° | 499.5 | 497.4 | 500.5 | 502.5 | 507.6 | 511.6 | 512.6 | 515.7 | 516.7 | 519.7 | 527.8 |
| 40° | 475.1 | 472.1 | 475.1 | 477.2 | 483.2 | 486.3 | 488.3 | 491.4 | 493.4 | 496.4 | 504.5 |
| 42.5° | 449.8 | 447.8 | 449.8 | 453.9 | 457.9 | 462.0 | 464.0 | 467.0 | 470.1 | 475.1 | 482.2 |
| 45° | 422.5 | 422.5 | 424.5 | 428.5 | 432.6 | 435.6 | 438.7 | 442.7 | 445.8 | 450.8 | 458.9 |
| 47.5° | 396.1 | 396.1 | 398.1 | 401.2 | 406.3 | 409.3 | 412.3 | 417.4 | 420.4 | 426.5 | 435.6 |
| 50° | 369.8 | 368.8 | 371.8 | 375.9 | 380.9 | 384.0 | 387.0 | 392.1 | 396.1 | 403.2 | 412.3 |
| 52.5° | 343.4 | 341.4 | 344.5 | 349.5 | 353.6 | 357.6 | 360.7 | 365.7 | 370.8 | 379.9 | 388.0 |
| 55° | 316.1 | 315.1 | 318.1 | 322.2 | 327.2 | 330.3 | 334.3 | 340.4 | 346.5 | 355.6 | 365.7 |
| 57.5° | 288.7 | 288.7 | 291.8 | 295.8 | 301.9 | 304.9 | 309.0 | 316.1 | 322.2 | 332.3 | 342.4 |
| 60° | 262.4 | 261.4 | 264.4 | 270.5 | 275.6 | 279.6 | 283.7 | 291.8 | 298.9 | 310.0 | 320.1 |
| 62.5° | 236.1 | 235.0 | 239.1 | 243.1 | 250.2 | 254.3 | 258.3 | 267.5 | 275.6 | 287.7 | 297.9 |
| 65° | 207.7 | 208.7 | 211.7 | 215.8 | 223.9 | 229.0 | 234.0 | 244.2 | 253.3 | 264.4 | 275.6 |
| 67.5° | 180.3 | 180.3 | 184.4 | 189.4 | 199.6 | 204.6 | 209.7 | 220.9 | 230.0 | 243.1 | 254.3 |
| 70° | 154.0 | 155.0 | 160.1 | 165.1 | 175.3 | 180.3 | 186.4 | 198.6 | 208.7 | 221.9 | 235.0 |
| 72.5° | 128.7 | 130.7 | 134.7 | 142.8 | 153.0 | 158.0 | 165.1 | 177.3 | 187.4 | 201.6 | 214.8 |
| 75° | 105.4 | 106.4 | 111.4 | 120.6 | 131.7 | 137.8 | 143.9 | 157.0 | 169.2 | 182.4 | 195.5 |
| 77.5° | 81.0 | 83.1 | 89.2 | 99.3 | 112.5 | 118.5 | 124.6 | 138.8 | 151.0 | 164.1 | 177.3 |
| 80° | 59.8 | 61.8 | 69.9 | 80.0 | 94.2 | 100.3 | 107.4 | 121.6 | 133.7 | 146.9 | 160.1 |
| 82.5° | 40.5 | 43.6 | 51.7 | 62.8 | 77.0 | 84.1 | 91.2 | 105.4 | 118.5 | 131.7 | 144.9 |
| 85° | 24.3 | 27.4 | 36.5 | 48.6 | 62.8 | 68.9 | 76.0 | 91.2 | 103.3 | 116.5 | 129.7 |
| 87.5° | 10.1 | 15.2 | 24.3 | 36.5 | 49.6 | 55.7 | 63.8 | 78.0 | 90.2 | 102.3 | 115.5 |
| 90° | 0.0 | 6.1 | 15.2 | 26.3 | 39.5 | 45.6 | 51.7 | 65.9 | 78.0 | 90.2 | 102.3 |
| 92.5° | 0.0 | 2.0 | 9.1 | 18.2 | 30.4 | 35.5 | 41.5 | 54.7 | 65.9 | 78.0 | 90.2 |
| 95° | 0.0 | 1.0 | 5.1 | 13.2 | 22.3 | 27.4 | 33.4 | 45.6 | 55.7 | 67.9 | 78.0 |
| 97.5° | 0.0 | 0.0 | 3.0 | 9.1 | 17.2 | 21.3 | 26.3 | 37.5 | 47.6 | 57.7 | 68.9 |
| 100° | 0.0 | 0.0 | 2.0 | 6.1 | 12.2 | 16.2 | 20.3 | 30.4 | 39.5 | 49.6 | 58.8 |
| 102.5° | 0.0 | 0.0 | 1.0 | 4.1 | 9.1 | 12.2 | 15.2 | 24.3 | 32.4 | 41.5 | 50.7 |
| 105° | 0.0 | 0.0 | 1.0 | 2.0 | 6.1 | 9.1 | 12.2 | 19.2 | 26.3 | 34.4 | 43.6 |
| 107.5° | 0.0 | 0.0 | 0.0 | 2.0 | 5.1 | 7.1 | 9.1 | 15.2 | 21.3 | 28.4 | 36.5 |
| 110° | 0.0 | 0.0 | 0.0 | 1.0 | 3.0 | 5.1 | 7.1 | 12.2 | 17.2 | 23.3 | 30.4 |



TEST NUMBER: P892684

CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|-----|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 5.1 | 9.1 | 13.2 | 19.2 | 24.3 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 3.0 | 7.1 | 10.1 | 15.2 | 20.3 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 2.0 | 5.1 | 8.1 | 12.2 | 16.2 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 4.1 | 6.1 | 9.1 | 13.2 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.0 | 4.1 | 7.1 | 10.1 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 3.0 | 5.1 | 8.1 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.0 | 4.1 | 6.1 |
| 130° | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 1.0 | 2.0 | 3.0 | 4.1 |
| 132.5° | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 3.0 |
| 135° | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| 137.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| 140° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 142.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 145° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 147.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 150° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 152.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 155° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 160° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 167.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 170° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 172.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 175° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 177.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 180° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |



TEST NUMBER: P892684

CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 | 721.3 |
| 2.5° | 722.3 | 714.2 | 719.3 | 718.3 | 717.3 | 715.2 | 720.3 | 716.3 | 718.3 | 718.3 |
| 5° | 719.3 | 711.2 | 717.3 | 717.3 | 716.3 | 714.2 | 719.3 | 715.2 | 718.3 | 719.3 |
| 7.5° | 714.2 | 708.2 | 714.2 | 713.2 | 713.2 | 711.2 | 716.3 | 713.2 | 716.3 | 716.3 |
| 10° | 708.2 | 702.1 | 708.2 | 707.1 | 707.1 | 705.1 | 709.2 | 706.1 | 709.2 | 709.2 |
| 12.5° | 700.1 | 694.0 | 701.1 | 700.1 | 699.0 | 698.0 | 702.1 | 699.0 | 703.1 | 703.1 |
| 15° | 689.9 | 685.9 | 693.0 | 691.9 | 691.9 | 689.9 | 695.0 | 691.9 | 696.0 | 695.0 |
| 17.5° | 678.8 | 674.7 | 681.8 | 681.8 | 680.8 | 680.8 | 683.8 | 680.8 | 685.9 | 685.9 |
| 20° | 663.6 | 659.5 | 667.6 | 667.6 | 666.6 | 666.6 | 669.7 | 666.6 | 672.7 | 672.7 |
| 22.5° | 647.4 | 644.3 | 651.4 | 652.4 | 651.4 | 651.4 | 654.5 | 652.4 | 658.5 | 658.5 |
| 25° | 630.1 | 629.1 | 636.2 | 637.2 | 636.2 | 637.2 | 640.3 | 638.3 | 644.3 | 644.3 |
| 27.5° | 611.9 | 611.9 | 619.0 | 620.0 | 621.0 | 621.0 | 624.1 | 622.0 | 629.1 | 628.1 |
| 30° | 592.7 | 592.7 | 600.8 | 602.8 | 602.8 | 603.8 | 606.8 | 604.8 | 611.9 | 611.9 |
| 32.5° | 572.4 | 573.4 | 581.5 | 584.6 | 584.6 | 586.6 | 588.6 | 587.6 | 594.7 | 596.7 |
| 35° | 552.1 | 553.2 | 562.3 | 565.3 | 566.3 | 567.3 | 570.4 | 570.4 | 576.5 | 577.5 |
| 37.5° | 528.8 | 532.9 | 541.0 | 545.0 | 546.1 | 548.1 | 551.1 | 551.1 | 558.2 | 560.2 |
| 40° | 506.5 | 511.6 | 520.7 | 524.8 | 525.8 | 527.8 | 531.9 | 531.9 | 539.0 | 541.0 |
| 42.5° | 485.3 | 491.4 | 499.5 | 505.5 | 506.5 | 509.6 | 511.6 | 513.6 | 520.7 | 522.8 |
| 45° | 462.0 | 469.1 | 478.2 | 484.3 | 486.3 | 489.3 | 491.4 | 494.4 | 500.5 | 503.5 |
| 47.5° | 439.7 | 446.8 | 456.9 | 464.0 | 465.0 | 469.1 | 471.1 | 474.1 | 480.2 | 483.2 |
| 50° | 416.4 | 425.5 | 435.6 | 443.7 | 444.8 | 447.8 | 450.8 | 453.9 | 459.9 | 463.0 |
| 52.5° | 394.1 | 403.2 | 413.3 | 421.4 | 423.5 | 426.5 | 429.6 | 432.6 | 439.7 | 442.7 |
| 55° | 371.8 | 380.9 | 391.1 | 400.2 | 402.2 | 405.2 | 408.3 | 412.3 | 419.4 | 422.5 |
| 57.5° | 349.5 | 359.6 | 369.8 | 378.9 | 380.9 | 385.0 | 388.0 | 392.1 | 398.1 | 402.2 |
| 60° | 328.2 | 338.4 | 349.5 | 358.6 | 359.6 | 365.7 | 367.8 | 371.8 | 377.9 | 380.9 |
| 62.5° | 306.0 | 319.1 | 328.2 | 338.4 | 340.4 | 344.5 | 347.5 | 351.5 | 357.6 | 361.7 |
| 65° | 284.7 | 297.9 | 307.0 | 317.1 | 320.1 | 324.2 | 327.2 | 331.3 | 337.4 | 341.4 |
| 67.5° | 264.4 | 277.6 | 287.7 | 297.9 | 300.9 | 303.9 | 308.0 | 312.0 | 317.1 | 322.2 |
| 70° | 245.2 | 259.4 | 268.5 | 278.6 | 281.6 | 285.7 | 289.7 | 292.8 | 298.9 | 303.9 |
| 72.5° | 225.9 | 240.1 | 249.2 | 260.4 | 262.4 | 266.4 | 270.5 | 274.5 | 279.6 | 283.7 |
| 75° | 206.7 | 220.9 | 231.0 | 241.1 | 244.2 | 248.2 | 252.3 | 256.3 | 261.4 | 265.4 |
| 77.5° | 188.4 | 202.6 | 212.8 | 223.9 | 225.9 | 230.0 | 235.0 | 239.1 | 243.1 | 247.2 |
| 80° | 171.2 | 185.4 | 195.5 | 205.7 | 208.7 | 212.8 | 216.8 | 221.9 | 225.9 | 230.0 |
| 82.5° | 156.0 | 169.2 | 178.3 | 189.4 | 191.5 | 195.5 | 199.6 | 203.6 | 207.7 | 211.7 |
| 85° | 140.8 | 154.0 | 163.1 | 173.2 | 175.3 | 179.3 | 183.4 | 187.4 | 192.5 | 195.5 |
| 87.5° | 126.6 | 138.8 | 148.9 | 158.0 | 160.1 | 164.1 | 168.2 | 171.2 | 175.3 | 179.3 |
| 90° | 113.5 | 125.6 | 134.7 | 143.9 | 145.9 | 149.9 | 153.0 | 157.0 | 161.1 | 164.1 |
| 92.5° | 100.3 | 112.5 | 120.6 | 129.7 | 131.7 | 135.8 | 139.8 | 142.8 | 146.9 | 149.9 |
| 95° | 89.2 | 100.3 | 108.4 | 117.5 | 118.5 | 122.6 | 126.6 | 129.7 | 133.7 | 135.8 |
| 97.5° | 78.0 | 89.2 | 97.3 | 105.4 | 106.4 | 110.4 | 114.5 | 117.5 | 120.6 | 123.6 |
| 100° | 67.9 | 78.0 | 86.1 | 93.2 | 95.2 | 98.3 | 102.3 | 105.4 | 108.4 | 110.4 |
| 102.5° | 58.8 | 67.9 | 75.0 | 83.1 | 84.1 | 88.1 | 91.2 | 94.2 | 97.3 | 99.3 |
| 105° | 50.7 | 59.8 | 65.9 | 72.9 | 74.0 | 78.0 | 81.0 | 84.1 | 87.1 | 88.1 |
| 107.5° | 43.6 | 50.7 | 56.7 | 63.8 | 65.9 | 67.9 | 70.9 | 74.0 | 77.0 | 78.0 |
| 110° | 36.5 | 43.6 | 49.6 | 54.7 | 56.7 | 59.8 | 61.8 | 64.8 | 66.9 | 67.9 |



TEST NUMBER: P892684
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 30.4 | 36.5 | 41.5 | 47.6 | 48.6 | 51.7 | 53.7 | 55.7 | 58.8 | 59.8 |
| 115° | 25.3 | 31.4 | 35.5 | 40.5 | 41.5 | 43.6 | 46.6 | 48.6 | 50.7 | 51.7 |
| 117.5° | 21.3 | 25.3 | 29.4 | 33.4 | 35.5 | 37.5 | 39.5 | 41.5 | 42.6 | 43.6 |
| 120° | 17.2 | 21.3 | 24.3 | 28.4 | 29.4 | 31.4 | 33.4 | 34.4 | 36.5 | 37.5 |
| 122.5° | 13.2 | 17.2 | 20.3 | 23.3 | 24.3 | 26.3 | 27.4 | 29.4 | 30.4 | 30.4 |
| 125° | 10.1 | 13.2 | 16.2 | 18.2 | 19.2 | 21.3 | 22.3 | 24.3 | 25.3 | 25.3 |
| 127.5° | 8.1 | 10.1 | 12.2 | 15.2 | 15.2 | 17.2 | 18.2 | 19.2 | 20.3 | 20.3 |
| 130° | 6.1 | 8.1 | 10.1 | 11.1 | 12.2 | 13.2 | 14.2 | 15.2 | 16.2 | 16.2 |
| 132.5° | 4.1 | 6.1 | 7.1 | 9.1 | 9.1 | 10.1 | 11.1 | 11.1 | 12.2 | 12.2 |
| 135° | 3.0 | 4.1 | 5.1 | 6.1 | 7.1 | 7.1 | 8.1 | 9.1 | 9.1 | 9.1 |
| 137.5° | 2.0 | 3.0 | 4.1 | 5.1 | 5.1 | 5.1 | 6.1 | 6.1 | 7.1 | 7.1 |
| 140° | 1.0 | 2.0 | 2.0 | 3.0 | 3.0 | 4.1 | 4.1 | 4.1 | 5.1 | 5.1 |
| 142.5° | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 145° | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 147.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| 150° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 152.5° | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 155° | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 |
| 165° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| 167.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 170° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| 172.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 1.0 | 0.0 |
| 175° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |



TEST NUMBER: P892684
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L950

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 18.19 | 19.72 | 18.66 | 20.18 | 20.66 | 19.96 | 21.49 | 20.43 | 21.95 | 22.43 |
| | 3H | 19.81 | 21.21 | 20.30 | 21.68 | 22.20 | 22.54 | 23.94 | 23.02 | 24.41 | 24.93 |
| | 4H | 20.40 | 21.73 | 20.90 | 22.21 | 22.75 | 23.84 | 25.17 | 24.34 | 25.65 | 26.19 |
| | 6H | 20.80 | 22.03 | 21.31 | 22.53 | 23.08 | 25.23 | 26.47 | 25.75 | 26.97 | 27.52 |
| | 8H | 20.92 | 22.10 | 21.44 | 22.62 | 23.18 | 25.97 | 27.15 | 26.50 | 27.67 | 28.23 |
| | 12H | 20.99 | 22.13 | 21.52 | 22.64 | 23.23 | 26.81 | 27.95 | 27.34 | 28.46 | 29.05 |
| 4H | 2H | 19.16 | 20.49 | 19.66 | 20.97 | 21.51 | 20.50 | 21.83 | 21.01 | 22.31 | 22.85 |
| | 3H | 21.10 | 22.23 | 21.61 | 22.75 | 23.31 | 23.38 | 24.52 | 23.90 | 25.04 | 25.60 |
| | 4H | 21.86 | 22.90 | 22.39 | 23.43 | 24.03 | 24.89 | 25.93 | 25.43 | 26.47 | 27.06 |
| | 6H | 22.43 | 23.35 | 22.98 | 23.91 | 24.51 | 26.52 | 27.44 | 27.07 | 28.00 | 28.61 |
| | 8H | 22.61 | 23.47 | 23.17 | 24.03 | 24.65 | 27.38 | 28.25 | 27.94 | 28.81 | 29.43 |
| | 12H | 22.73 | 23.51 | 23.31 | 24.10 | 24.73 | 28.37 | 29.16 | 28.96 | 29.75 | 30.37 |
| 8H | 4H | 22.75 | 23.62 | 23.32 | 24.18 | 24.80 | 25.24 | 26.11 | 25.80 | 26.67 | 27.29 |
| | 6H | 23.63 | 24.36 | 24.22 | 24.96 | 25.59 | 27.13 | 27.86 | 27.72 | 28.47 | 29.09 |
| | 8H | 23.97 | 24.64 | 24.58 | 25.25 | 25.89 | 28.20 | 28.86 | 28.80 | 29.47 | 30.11 |
| | 12H | 24.24 | 24.83 | 24.85 | 25.44 | 26.14 | 29.44 | 30.03 | 30.05 | 30.64 | 31.34 |
| 12H | 4H | 23.04 | 23.82 | 23.62 | 24.41 | 25.04 | 25.28 | 26.07 | 25.86 | 26.66 | 27.28 |
| | 6H | 24.08 | 24.74 | 24.68 | 25.36 | 25.99 | 27.23 | 27.90 | 27.84 | 28.51 | 29.15 |
| | 8H | 24.59 | 25.18 | 25.20 | 25.79 | 26.49 | 28.41 | 29.00 | 29.02 | 29.61 | 30.31 |