

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: P892689

Luminaire Tested: 2MB-3SL-RNDU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-9)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-RNDU-UNV-L930
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 5
Light Source: -
Ballast/Driver: -

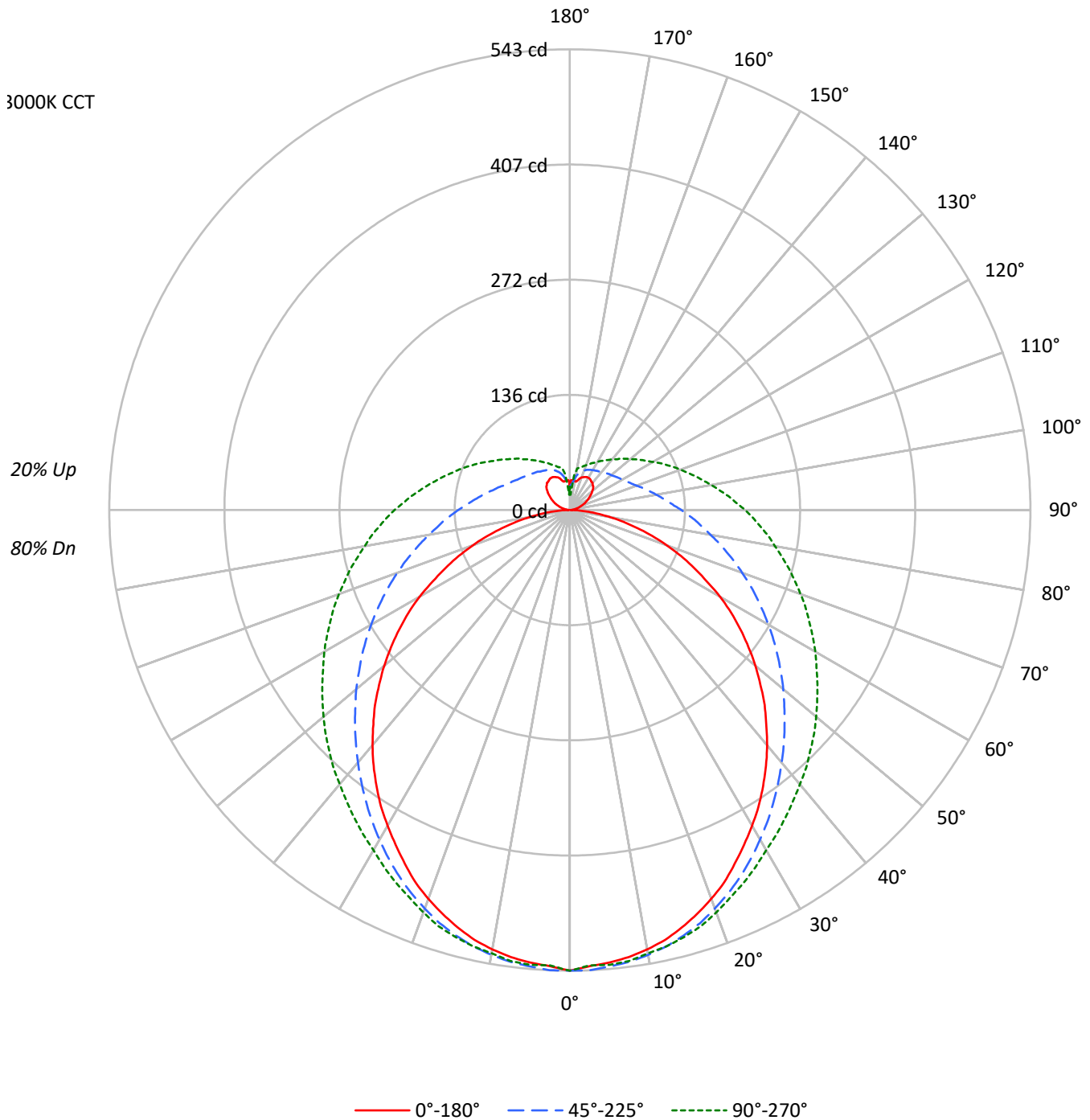
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2281.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1.98' x H: 0.21')
CIE Type: Semi-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: P892689
CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

Luminous Intensity Polar Plot





TEST NUMBER: P892689

CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 83 | 83 | 83 | 80 |
| 1 | 102 | 96 | 91 | 86 | 97 | 92 | 87 | 83 | 84 | 80 | 76 | 76 | 73 | 70 | 69 | 67 | 65 | 65 | 65 | 65 | 61 |
| 2 | 92 | 82 | 75 | 68 | 87 | 79 | 72 | 66 | 72 | 66 | 61 | 65 | 61 | 57 | 60 | 56 | 53 | 53 | 53 | 53 | 49 |
| 3 | 83 | 72 | 63 | 56 | 79 | 69 | 61 | 54 | 63 | 56 | 51 | 57 | 52 | 47 | 52 | 48 | 44 | 44 | 44 | 44 | 41 |
| 4 | 76 | 63 | 54 | 47 | 72 | 60 | 52 | 45 | 55 | 48 | 43 | 51 | 45 | 40 | 46 | 41 | 37 | 37 | 37 | 37 | 34 |
| 5 | 69 | 56 | 47 | 40 | 66 | 54 | 45 | 39 | 49 | 42 | 37 | 45 | 39 | 34 | 41 | 36 | 32 | 32 | 32 | 32 | 29 |
| 6 | 64 | 50 | 41 | 35 | 61 | 48 | 40 | 34 | 44 | 37 | 32 | 41 | 35 | 30 | 37 | 32 | 28 | 28 | 28 | 28 | 26 |
| 7 | 59 | 46 | 37 | 30 | 56 | 44 | 35 | 30 | 40 | 33 | 28 | 37 | 31 | 26 | 34 | 29 | 25 | 25 | 25 | 25 | 23 |
| 8 | 55 | 41 | 33 | 27 | 52 | 40 | 32 | 26 | 37 | 30 | 25 | 34 | 28 | 24 | 31 | 26 | 22 | 22 | 22 | 22 | 20 |
| 9 | 51 | 38 | 30 | 24 | 49 | 37 | 29 | 23 | 34 | 27 | 22 | 31 | 25 | 21 | 29 | 24 | 20 | 20 | 20 | 20 | 18 |
| 10 | 48 | 35 | 27 | 22 | 46 | 34 | 26 | 21 | 31 | 25 | 20 | 29 | 23 | 19 | 27 | 22 | 18 | 18 | 18 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7766 | 7766 | 7766 |
| 5° | 7617 | 7453 | 7374 |
| 10° | 7499 | 7151 | 7027 |
| 15° | 7340 | 6841 | 6728 |
| 20° | 7151 | 6516 | 6407 |
| 25° | 6921 | 6184 | 6095 |
| 30° | 6690 | 5850 | 5809 |
| 35° | 6460 | 5530 | 5590 |
| 40° | 6210 | 5230 | 5397 |
| 45° | 5945 | 4956 | 5241 |
| 50° | 5650 | 4717 | 5104 |
| 55° | 5327 | 4495 | 4984 |
| 60° | 4956 | 4300 | 4907 |
| 65° | 4471 | 4131 | 4848 |
| 70° | 3955 | 3985 | 4833 |
| 75° | 3290 | 3884 | 4858 |
| 80° | 2455 | 3837 | 4928 |
| 85° | 1490 | 3908 | 5101 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5945 cd/sqm



TEST NUMBER: P892689
 CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.3 | 2.2 |
| 10°-20° | 146.5 | 6.4 |
| 20°-30° | 219.7 | 9.6 |
| 30°-40° | 264.0 | 11.6 |
| 40°-50° | 279.9 | 12.3 |
| 50°-60° | 269.4 | 11.8 |
| 60°-70° | 237.9 | 10.4 |
| 70°-80° | 194.7 | 8.5 |
| 80°-90° | 151.2 | 6.6 |
| 90°-100° | 117.1 | 5.1 |
| 100°-110° | 92.9 | 4.1 |
| 110°-120° | 74.3 | 3.3 |
| 120°-130° | 59.4 | 2.6 |
| 130°-140° | 46.9 | 2.1 |
| 140°-150° | 35.4 | 1.6 |
| 150°-160° | 24.2 | 1.1 |
| 160°-170° | 12.9 | 0.6 |
| 170°-180° | 3.3 | 0.1 |
| 0°-30° | 417.5 | 18.3 |
| 0°-40° | 681.6 | 29.9 |
| 0°-60° | 1230.8 | 54.0 |
| 0°-90° | 1814.7 | 79.6 |
| 90°-120° | 284.3 | 12.5 |
| 90°-150° | 425.9 | 18.7 |
| 90°-180° | 466.0 | 20.4 |
| 0°-180° | 2281.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 543 | 543 | 543 | 543 | 543 | |
| 5° | 535 | 541 | 540 | 542 | 538 | 51 |
| 15° | 510 | 518 | 519 | 524 | 521 | 144 |
| 25° | 460 | 472 | 476 | 485 | 485 | 212 |
| 35° | 397 | 409 | 419 | 437 | 443 | 248 |
| 45° | 325 | 337 | 358 | 390 | 401 | 250 |
| 55° | 246 | 260 | 299 | 340 | 356 | 220 |
| 65° | 162 | 186 | 243 | 292 | 312 | 161 |
| 75° | 83 | 122 | 191 | 247 | 268 | 88 |
| 85° | 20 | 74 | 150 | 205 | 226 | 22 |
| 90° | 1 | 59 | 131 | 185 | 207 | 2 |
| 95° | 3 | 49 | 116 | 167 | 188 | 3 |
| 105° | 10 | 39 | 92 | 136 | 153 | 11 |
| 115° | 20 | 37 | 77 | 111 | 126 | 19 |
| 125° | 30 | 39 | 68 | 92 | 103 | 26 |
| 135° | 39 | 42 | 61 | 78 | 86 | 30 |
| 145° | 43 | 44 | 56 | 67 | 71 | 27 |
| 155° | 43 | 47 | 52 | 58 | 61 | 20 |
| 165° | 36 | 41 | 46 | 51 | 52 | 11 |
| 175° | 35 | 33 | 31 | 29 | 27 | 3 |
| 180° | 28 | 28 | 28 | 28 | 28 | |



TEST NUMBER: P892689
 CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 |
| 2.5° | 538.1 | 541.0 | 542.0 | 541.0 | 541.0 | 542.9 | 542.9 | 546.7 | 547.7 | 542.0 | 542.9 |
| 5° | 535.3 | 538.1 | 540.0 | 539.1 | 539.1 | 541.0 | 540.0 | 543.9 | 544.8 | 540.0 | 540.0 |
| 7.5° | 531.5 | 534.3 | 536.2 | 535.3 | 535.3 | 537.2 | 536.2 | 540.0 | 541.0 | 537.2 | 537.2 |
| 10° | 525.8 | 529.6 | 531.5 | 529.6 | 530.5 | 532.4 | 531.5 | 535.3 | 536.2 | 532.4 | 532.4 |
| 12.5° | 519.1 | 522.9 | 524.8 | 523.9 | 524.8 | 525.8 | 524.8 | 529.6 | 530.5 | 526.7 | 526.7 |
| 15° | 509.6 | 514.3 | 515.3 | 514.3 | 515.3 | 518.1 | 516.2 | 520.0 | 522.9 | 519.1 | 519.1 |
| 17.5° | 499.1 | 503.9 | 505.8 | 504.8 | 506.7 | 508.6 | 506.7 | 511.5 | 513.4 | 509.6 | 510.5 |
| 20° | 487.7 | 492.4 | 494.3 | 493.4 | 495.3 | 497.2 | 495.3 | 500.0 | 501.9 | 499.1 | 500.0 |
| 22.5° | 475.3 | 480.0 | 481.9 | 481.0 | 482.9 | 484.8 | 482.9 | 487.7 | 490.5 | 487.7 | 488.6 |
| 25° | 460.0 | 465.8 | 467.7 | 466.7 | 468.6 | 471.5 | 468.6 | 474.3 | 477.2 | 475.3 | 476.2 |
| 27.5° | 444.8 | 449.6 | 453.4 | 451.5 | 454.3 | 457.2 | 455.3 | 459.1 | 462.9 | 461.9 | 462.9 |
| 30° | 429.6 | 434.3 | 438.1 | 436.2 | 439.1 | 441.9 | 439.1 | 443.8 | 447.7 | 447.7 | 448.6 |
| 32.5° | 414.3 | 418.1 | 421.0 | 420.0 | 421.9 | 425.7 | 423.8 | 428.6 | 432.4 | 432.4 | 434.3 |
| 35° | 397.2 | 401.0 | 403.8 | 402.9 | 405.7 | 408.6 | 406.7 | 411.5 | 416.2 | 417.2 | 419.1 |
| 37.5° | 380.0 | 383.8 | 386.7 | 385.7 | 387.7 | 391.5 | 389.6 | 395.3 | 399.1 | 401.0 | 403.8 |
| 40° | 361.9 | 365.7 | 368.6 | 367.6 | 370.5 | 373.4 | 372.4 | 377.2 | 381.9 | 384.8 | 388.6 |
| 42.5° | 342.9 | 346.7 | 349.6 | 349.6 | 352.4 | 356.2 | 354.3 | 360.0 | 364.8 | 368.6 | 373.4 |
| 45° | 324.8 | 327.6 | 330.5 | 330.5 | 334.3 | 337.2 | 336.2 | 341.9 | 347.6 | 352.4 | 358.1 |
| 47.5° | 304.8 | 308.6 | 310.5 | 311.5 | 315.3 | 318.1 | 318.1 | 323.8 | 330.5 | 337.2 | 342.9 |
| 50° | 285.7 | 288.6 | 291.5 | 291.5 | 296.2 | 299.1 | 299.1 | 305.7 | 314.3 | 321.9 | 328.6 |
| 52.5° | 265.7 | 268.6 | 271.5 | 272.4 | 276.2 | 280.0 | 280.0 | 287.6 | 297.2 | 305.7 | 313.4 |
| 55° | 245.7 | 248.6 | 250.5 | 252.4 | 257.2 | 260.0 | 261.9 | 270.5 | 281.0 | 289.5 | 299.1 |
| 57.5° | 225.7 | 227.6 | 230.5 | 232.4 | 238.1 | 241.9 | 244.8 | 254.3 | 264.8 | 275.3 | 284.8 |
| 60° | 204.8 | 207.6 | 209.5 | 212.4 | 218.1 | 223.8 | 226.7 | 237.2 | 248.6 | 260.0 | 270.5 |
| 62.5° | 181.9 | 184.8 | 187.6 | 191.4 | 200.0 | 204.8 | 209.5 | 221.0 | 232.4 | 244.8 | 256.2 |
| 65° | 161.9 | 163.8 | 166.7 | 170.5 | 180.0 | 185.7 | 191.4 | 203.8 | 217.2 | 230.5 | 242.9 |
| 67.5° | 141.9 | 143.8 | 147.6 | 152.4 | 162.9 | 168.6 | 174.3 | 187.6 | 202.9 | 217.2 | 229.5 |
| 70° | 121.9 | 122.9 | 127.6 | 134.3 | 145.7 | 151.4 | 158.1 | 171.4 | 186.7 | 202.9 | 216.2 |
| 72.5° | 101.9 | 103.8 | 108.6 | 116.2 | 129.5 | 136.2 | 142.9 | 158.1 | 173.3 | 188.6 | 203.8 |
| 75° | 82.9 | 83.8 | 90.5 | 100.0 | 114.3 | 121.9 | 129.5 | 144.8 | 161.0 | 177.2 | 191.4 |
| 77.5° | 64.8 | 65.7 | 74.3 | 84.8 | 100.0 | 108.6 | 116.2 | 131.4 | 148.6 | 164.8 | 180.0 |
| 80° | 47.6 | 49.5 | 58.1 | 71.4 | 86.7 | 95.2 | 104.8 | 121.0 | 137.2 | 154.3 | 168.6 |
| 82.5° | 32.4 | 35.2 | 44.8 | 59.1 | 75.2 | 84.8 | 93.3 | 109.5 | 126.7 | 143.8 | 158.1 |
| 85° | 20.0 | 22.9 | 34.3 | 48.6 | 65.7 | 74.3 | 82.9 | 100.0 | 117.2 | 133.3 | 149.5 |
| 87.5° | 8.6 | 14.3 | 25.7 | 40.0 | 57.1 | 65.7 | 75.2 | 91.4 | 107.6 | 124.8 | 140.0 |
| 90° | 1.0 | 8.6 | 20.0 | 34.3 | 50.5 | 59.1 | 67.6 | 83.8 | 100.0 | 116.2 | 131.4 |
| 92.5° | 1.0 | 5.7 | 16.2 | 29.5 | 44.8 | 53.3 | 61.0 | 77.1 | 92.4 | 108.6 | 122.9 |
| 95° | 2.9 | 5.7 | 14.3 | 26.7 | 41.0 | 48.6 | 56.2 | 71.4 | 86.7 | 101.9 | 116.2 |
| 97.5° | 3.8 | 6.7 | 14.3 | 24.8 | 37.1 | 44.8 | 52.4 | 66.7 | 81.0 | 95.2 | 109.5 |
| 100° | 5.7 | 7.6 | 14.3 | 23.8 | 35.2 | 41.9 | 48.6 | 61.9 | 76.2 | 90.5 | 103.8 |
| 102.5° | 7.6 | 9.5 | 15.2 | 23.8 | 34.3 | 40.0 | 46.7 | 59.1 | 71.4 | 84.8 | 98.1 |
| 105° | 10.5 | 11.4 | 16.2 | 23.8 | 33.3 | 39.1 | 44.8 | 56.2 | 67.6 | 81.0 | 92.4 |
| 107.5° | 12.4 | 13.3 | 17.1 | 24.8 | 33.3 | 38.1 | 43.8 | 53.3 | 64.8 | 76.2 | 88.6 |
| 110° | 14.3 | 14.3 | 19.0 | 25.7 | 33.3 | 37.1 | 42.9 | 52.4 | 62.9 | 73.3 | 83.8 |



TEST NUMBER: P892689
 CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 17.1 | 17.1 | 20.0 | 26.7 | 33.3 | 37.1 | 41.9 | 50.5 | 60.0 | 70.5 | 80.0 |
| 115° | 20.0 | 19.0 | 21.9 | 27.6 | 34.3 | 37.1 | 41.9 | 49.5 | 58.1 | 67.6 | 77.1 |
| 117.5° | 21.9 | 21.0 | 23.8 | 28.6 | 34.3 | 38.1 | 41.9 | 49.5 | 57.1 | 65.7 | 74.3 |
| 120° | 24.8 | 22.9 | 24.8 | 29.5 | 35.2 | 38.1 | 41.9 | 48.6 | 56.2 | 63.8 | 71.4 |
| 122.5° | 26.7 | 25.7 | 26.7 | 31.4 | 36.2 | 38.1 | 41.9 | 47.6 | 55.2 | 61.9 | 69.5 |
| 125° | 29.5 | 27.6 | 28.6 | 32.4 | 37.1 | 39.1 | 42.9 | 47.6 | 54.3 | 61.0 | 67.6 |
| 127.5° | 32.4 | 29.5 | 29.5 | 33.3 | 37.1 | 40.0 | 42.9 | 47.6 | 53.3 | 59.1 | 65.7 |
| 130° | 34.3 | 32.4 | 31.4 | 35.2 | 38.1 | 40.0 | 42.9 | 47.6 | 52.4 | 58.1 | 63.8 |
| 132.5° | 37.1 | 34.3 | 33.3 | 36.2 | 39.1 | 41.0 | 43.8 | 47.6 | 52.4 | 57.1 | 62.9 |
| 135° | 39.1 | 36.2 | 35.2 | 37.1 | 40.0 | 41.9 | 43.8 | 47.6 | 52.4 | 56.2 | 61.0 |
| 137.5° | 40.0 | 38.1 | 37.1 | 38.1 | 41.0 | 42.9 | 44.8 | 47.6 | 51.4 | 55.2 | 60.0 |
| 140° | 41.9 | 40.0 | 39.1 | 40.0 | 41.9 | 42.9 | 44.8 | 47.6 | 51.4 | 54.3 | 59.1 |
| 142.5° | 41.9 | 41.9 | 40.0 | 41.0 | 41.9 | 43.8 | 45.7 | 47.6 | 50.5 | 54.3 | 57.1 |
| 145° | 42.9 | 42.9 | 41.9 | 42.9 | 42.9 | 43.8 | 45.7 | 47.6 | 50.5 | 53.3 | 56.2 |
| 147.5° | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 44.8 | 45.7 | 47.6 | 50.5 | 52.4 | 55.2 |
| 150° | 43.8 | 43.8 | 44.8 | 44.8 | 45.7 | 45.7 | 46.7 | 47.6 | 50.5 | 52.4 | 54.3 |
| 152.5° | 43.8 | 42.9 | 44.8 | 45.7 | 46.7 | 46.7 | 46.7 | 47.6 | 49.5 | 51.4 | 53.3 |
| 155° | 42.9 | 41.9 | 43.8 | 44.8 | 45.7 | 46.7 | 47.6 | 47.6 | 49.5 | 50.5 | 52.4 |
| 157.5° | 41.9 | 41.0 | 42.9 | 43.8 | 44.8 | 45.7 | 46.7 | 46.7 | 47.6 | 49.5 | 51.4 |
| 160° | 41.0 | 40.0 | 41.0 | 42.9 | 43.8 | 44.8 | 45.7 | 45.7 | 46.7 | 47.6 | 49.5 |
| 162.5° | 39.1 | 38.1 | 39.1 | 41.0 | 41.9 | 42.9 | 43.8 | 44.8 | 45.7 | 46.7 | 47.6 |
| 165° | 36.2 | 36.2 | 36.2 | 38.1 | 40.0 | 41.0 | 41.9 | 42.9 | 43.8 | 44.8 | 45.7 |
| 167.5° | 34.3 | 33.3 | 34.3 | 35.2 | 37.1 | 38.1 | 39.1 | 40.0 | 41.0 | 41.9 | 42.9 |
| 170° | 34.3 | 33.3 | 33.3 | 34.3 | 35.2 | 35.2 | 36.2 | 37.1 | 38.1 | 39.1 | 40.0 |
| 172.5° | 35.2 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 35.2 | 35.2 |
| 175° | 35.2 | 35.2 | 34.3 | 34.3 | 33.3 | 33.3 | 33.3 | 33.3 | 32.4 | 31.4 | 31.4 |
| 177.5° | 35.2 | 35.2 | 35.2 | 34.3 | 34.3 | 33.3 | 33.3 | 33.3 | 32.4 | 31.4 | 29.5 |
| 180° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |



TEST NUMBER: P892689
 CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 |
| 2.5° | 542.0 | 542.0 | 538.1 | 542.0 | 542.9 | 541.0 | 540.0 | 542.0 | 539.1 | 537.2 |
| 5° | 540.0 | 540.0 | 537.2 | 541.0 | 542.0 | 540.0 | 540.0 | 542.0 | 539.1 | 538.1 |
| 7.5° | 536.2 | 537.2 | 535.3 | 539.1 | 540.0 | 538.1 | 538.1 | 540.0 | 538.1 | 536.2 |
| 10° | 532.4 | 532.4 | 531.5 | 534.3 | 534.3 | 533.4 | 532.4 | 534.3 | 533.4 | 530.5 |
| 12.5° | 526.7 | 527.7 | 525.8 | 529.6 | 530.5 | 528.6 | 528.6 | 530.5 | 528.6 | 526.7 |
| 15° | 520.0 | 520.0 | 520.0 | 522.9 | 523.9 | 522.9 | 522.9 | 524.8 | 522.9 | 521.0 |
| 17.5° | 511.5 | 512.4 | 512.4 | 516.2 | 517.2 | 515.3 | 515.3 | 518.1 | 517.2 | 514.3 |
| 20° | 501.0 | 501.9 | 502.9 | 505.8 | 506.7 | 505.8 | 505.8 | 507.7 | 507.7 | 504.8 |
| 22.5° | 490.5 | 490.5 | 492.4 | 495.3 | 496.2 | 495.3 | 495.3 | 498.1 | 498.1 | 494.3 |
| 25° | 478.1 | 478.1 | 481.0 | 484.8 | 484.8 | 483.9 | 484.8 | 486.7 | 487.7 | 484.8 |
| 27.5° | 465.8 | 466.7 | 469.6 | 473.4 | 473.4 | 473.4 | 473.4 | 476.2 | 476.2 | 474.3 |
| 30° | 451.5 | 453.4 | 456.2 | 460.0 | 461.0 | 461.0 | 461.9 | 463.8 | 465.8 | 462.9 |
| 32.5° | 437.2 | 439.1 | 442.9 | 447.7 | 448.6 | 449.6 | 450.5 | 454.3 | 456.2 | 453.4 |
| 35° | 422.9 | 424.8 | 430.5 | 436.2 | 437.2 | 438.1 | 440.0 | 443.8 | 445.8 | 442.9 |
| 37.5° | 408.6 | 411.5 | 419.1 | 423.8 | 425.7 | 426.7 | 429.6 | 432.4 | 436.2 | 432.4 |
| 40° | 395.3 | 398.1 | 406.7 | 412.4 | 413.4 | 415.3 | 418.1 | 421.9 | 424.8 | 421.9 |
| 42.5° | 381.0 | 384.8 | 393.4 | 400.0 | 401.9 | 403.8 | 406.7 | 410.5 | 414.3 | 412.4 |
| 45° | 366.7 | 371.5 | 381.0 | 387.7 | 389.6 | 392.4 | 396.2 | 400.0 | 403.8 | 401.0 |
| 47.5° | 352.4 | 358.1 | 368.6 | 375.3 | 377.2 | 381.0 | 384.8 | 388.6 | 392.4 | 390.5 |
| 50° | 338.1 | 343.8 | 355.3 | 362.9 | 365.7 | 369.6 | 372.4 | 377.2 | 381.0 | 379.1 |
| 52.5° | 324.8 | 330.5 | 342.9 | 350.5 | 353.4 | 357.2 | 361.0 | 365.7 | 369.6 | 367.6 |
| 55° | 309.5 | 316.2 | 329.6 | 337.2 | 340.0 | 344.8 | 349.6 | 353.4 | 358.1 | 356.2 |
| 57.5° | 296.2 | 303.8 | 317.2 | 325.7 | 328.6 | 333.4 | 338.1 | 342.9 | 347.6 | 344.8 |
| 60° | 282.9 | 290.5 | 304.8 | 313.4 | 316.2 | 321.9 | 326.7 | 330.5 | 336.2 | 334.3 |
| 62.5° | 269.5 | 278.1 | 291.5 | 301.0 | 304.8 | 309.5 | 314.3 | 319.1 | 323.8 | 322.9 |
| 65° | 255.3 | 264.8 | 279.1 | 288.6 | 292.4 | 298.1 | 302.9 | 307.6 | 312.4 | 311.5 |
| 67.5° | 243.8 | 253.4 | 267.6 | 277.2 | 281.0 | 286.7 | 292.4 | 297.2 | 301.9 | 301.0 |
| 70° | 230.5 | 241.0 | 255.3 | 264.8 | 268.6 | 274.3 | 280.0 | 284.8 | 289.5 | 289.5 |
| 72.5° | 219.1 | 229.5 | 243.8 | 253.4 | 258.1 | 263.8 | 269.5 | 274.3 | 279.1 | 278.1 |
| 75° | 207.6 | 218.1 | 232.4 | 241.9 | 246.7 | 253.4 | 259.1 | 263.8 | 268.6 | 267.6 |
| 77.5° | 195.3 | 206.7 | 221.0 | 230.5 | 235.3 | 241.9 | 247.6 | 252.4 | 257.2 | 256.2 |
| 80° | 183.8 | 196.2 | 210.5 | 220.0 | 224.8 | 230.5 | 237.2 | 241.9 | 246.7 | 245.7 |
| 82.5° | 173.3 | 185.7 | 201.0 | 210.5 | 215.3 | 221.0 | 227.6 | 232.4 | 236.2 | 236.2 |
| 85° | 163.8 | 175.3 | 189.5 | 200.0 | 204.8 | 210.5 | 217.2 | 221.9 | 226.7 | 225.7 |
| 87.5° | 154.3 | 165.7 | 179.1 | 189.5 | 194.3 | 200.0 | 207.6 | 212.4 | 216.2 | 216.2 |
| 90° | 145.7 | 157.2 | 170.5 | 180.0 | 184.8 | 190.5 | 197.2 | 202.9 | 206.7 | 206.7 |
| 92.5° | 138.1 | 148.6 | 161.9 | 170.5 | 175.3 | 181.0 | 188.6 | 192.4 | 196.2 | 196.2 |
| 95° | 130.5 | 141.0 | 153.3 | 161.9 | 166.7 | 172.4 | 179.1 | 183.8 | 186.7 | 187.6 |
| 97.5° | 122.9 | 133.3 | 145.7 | 153.3 | 158.1 | 163.8 | 170.5 | 174.3 | 177.2 | 178.1 |
| 100° | 116.2 | 126.7 | 138.1 | 145.7 | 150.5 | 156.2 | 161.9 | 165.7 | 168.6 | 169.5 |
| 102.5° | 110.5 | 120.0 | 131.4 | 139.1 | 142.9 | 147.6 | 154.3 | 158.1 | 161.0 | 161.0 |
| 105° | 104.8 | 114.3 | 124.8 | 132.4 | 136.2 | 141.0 | 146.7 | 150.5 | 153.3 | 153.3 |
| 107.5° | 99.1 | 108.6 | 118.1 | 125.7 | 129.5 | 133.3 | 139.1 | 142.9 | 145.7 | 145.7 |
| 110° | 94.3 | 102.9 | 112.4 | 119.1 | 122.9 | 126.7 | 132.4 | 136.2 | 138.1 | 139.1 |



TEST NUMBER: P892689
 CATALOG NUMBER: 2MB-3SL-RNDU-UNV-L930

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 90.5 | 98.1 | 106.7 | 113.3 | 117.2 | 121.0 | 125.7 | 129.5 | 131.4 | 132.4 |
| 115° | 86.7 | 93.3 | 101.9 | 107.6 | 111.4 | 115.2 | 120.0 | 122.9 | 124.8 | 125.7 |
| 117.5° | 82.9 | 89.5 | 97.2 | 102.9 | 105.7 | 109.5 | 114.3 | 117.2 | 119.1 | 120.0 |
| 120° | 80.0 | 85.7 | 93.3 | 98.1 | 101.0 | 104.8 | 108.6 | 111.4 | 113.3 | 113.3 |
| 122.5° | 76.2 | 82.9 | 88.6 | 93.3 | 96.2 | 99.1 | 103.8 | 105.7 | 107.6 | 107.6 |
| 125° | 74.3 | 79.1 | 85.7 | 89.5 | 92.4 | 95.2 | 99.1 | 101.0 | 102.9 | 102.9 |
| 127.5° | 71.4 | 76.2 | 81.9 | 85.7 | 87.6 | 90.5 | 94.3 | 96.2 | 97.2 | 98.1 |
| 130° | 69.5 | 74.3 | 79.1 | 82.9 | 84.8 | 86.7 | 90.5 | 91.4 | 93.3 | 93.3 |
| 132.5° | 67.6 | 71.4 | 76.2 | 79.1 | 81.0 | 82.9 | 85.7 | 87.6 | 88.6 | 89.5 |
| 135° | 65.7 | 69.5 | 73.3 | 76.2 | 78.1 | 80.0 | 82.9 | 83.8 | 84.8 | 85.7 |
| 137.5° | 63.8 | 67.6 | 70.5 | 73.3 | 74.3 | 76.2 | 79.1 | 80.0 | 81.0 | 81.0 |
| 140° | 61.9 | 65.7 | 68.6 | 70.5 | 72.4 | 73.3 | 76.2 | 77.1 | 77.1 | 78.1 |
| 142.5° | 61.0 | 63.8 | 65.7 | 67.6 | 69.5 | 70.5 | 72.4 | 73.3 | 74.3 | 74.3 |
| 145° | 59.1 | 61.9 | 63.8 | 65.7 | 66.7 | 67.6 | 69.5 | 70.5 | 71.4 | 71.4 |
| 147.5° | 58.1 | 60.0 | 61.9 | 63.8 | 64.8 | 65.7 | 67.6 | 67.6 | 68.6 | 68.6 |
| 150° | 56.2 | 59.1 | 60.0 | 61.9 | 62.9 | 62.9 | 64.8 | 65.7 | 65.7 | 65.7 |
| 152.5° | 55.2 | 57.1 | 58.1 | 59.1 | 60.0 | 61.0 | 61.9 | 62.9 | 62.9 | 62.9 |
| 155° | 54.3 | 56.2 | 57.1 | 58.1 | 58.1 | 59.1 | 60.0 | 60.0 | 60.0 | 61.0 |
| 157.5° | 53.3 | 54.3 | 55.2 | 56.2 | 56.2 | 57.1 | 58.1 | 58.1 | 58.1 | 58.1 |
| 160° | 51.4 | 52.4 | 53.3 | 54.3 | 55.2 | 55.2 | 56.2 | 56.2 | 56.2 | 56.2 |
| 162.5° | 48.6 | 50.5 | 51.4 | 52.4 | 53.3 | 53.3 | 54.3 | 54.3 | 54.3 | 54.3 |
| 165° | 46.7 | 47.6 | 48.6 | 50.5 | 51.4 | 51.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| 167.5° | 44.8 | 44.8 | 45.7 | 46.7 | 48.6 | 49.5 | 50.5 | 51.4 | 51.4 | 51.4 |
| 170° | 41.0 | 41.0 | 41.9 | 41.9 | 43.8 | 44.8 | 46.7 | 48.6 | 49.5 | 49.5 |
| 172.5° | 36.2 | 36.2 | 37.1 | 36.2 | 37.1 | 37.1 | 38.1 | 40.0 | 41.9 | 42.9 |
| 175° | 31.4 | 31.4 | 29.5 | 28.6 | 28.6 | 27.6 | 27.6 | 26.7 | 24.8 | 26.7 |
| 177.5° | 27.6 | 26.7 | 24.8 | 22.9 | 22.9 | 21.9 | 21.9 | 20.0 | 18.1 | 18.1 |
| 180° | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |



TEST NUMBER: P892689
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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 | 14.01 | 15.32 | 14.66 | 15.99 | 16.76 | 17.40 | 18.71 | 18.04 | 19.38 | 20.15 |
| | 3H | 15.34 | 16.53 | 15.99 | 17.21 | 18.01 | 20.22 | 21.41 | 20.87 | 22.09 | 22.89 |
| | 4H | 15.73 | 16.87 | 16.41 | 17.56 | 18.37 | 21.63 | 22.77 | 22.31 | 23.46 | 24.27 |
| | 6H | 15.94 | 17.00 | 16.63 | 17.70 | 18.53 | 23.12 | 24.18 | 23.81 | 24.88 | 25.71 |
| | 8H | 15.98 | 16.99 | 16.67 | 17.71 | 18.54 | 23.87 | 24.89 | 24.57 | 25.61 | 26.44 |
| | 12H | 15.98 | 16.95 | 16.68 | 17.67 | 18.53 | 24.66 | 25.64 | 25.37 | 26.35 | 27.22 |
| 4H | 2H | 15.14 | 16.28 | 15.81 | 16.96 | 17.78 | 17.74 | 18.87 | 18.41 | 19.56 | 20.38 |
| | 3H | 16.74 | 17.72 | 17.43 | 18.44 | 19.28 | 20.79 | 21.77 | 21.48 | 22.49 | 23.33 |
| | 4H | 17.30 | 18.20 | 18.01 | 18.93 | 19.79 | 22.39 | 23.29 | 23.09 | 24.01 | 24.87 |
| | 6H | 17.65 | 18.44 | 18.37 | 19.19 | 20.06 | 24.09 | 24.88 | 24.81 | 25.63 | 26.50 |
| | 8H | 17.72 | 18.47 | 18.45 | 19.22 | 20.10 | 24.96 | 25.71 | 25.69 | 26.46 | 27.34 |
| | 12H | 17.75 | 18.43 | 18.50 | 19.20 | 20.09 | 25.89 | 26.58 | 26.64 | 27.35 | 28.24 |
| 8H | 4H | 18.35 | 19.10 | 19.08 | 19.85 | 20.73 | 22.57 | 23.31 | 23.29 | 24.06 | 24.95 |
| | 6H | 18.96 | 19.60 | 19.72 | 20.39 | 21.27 | 24.45 | 25.09 | 25.20 | 25.88 | 26.76 |
| | 8H | 19.16 | 19.74 | 19.93 | 20.53 | 21.43 | 25.48 | 26.06 | 26.24 | 26.84 | 27.74 |
| | 12H | 19.28 | 19.79 | 20.05 | 20.57 | 21.53 | 26.61 | 27.13 | 27.38 | 27.91 | 28.86 |
| 12H | 4H | 18.68 | 19.36 | 19.43 | 20.13 | 21.03 | 22.56 | 23.24 | 23.31 | 24.02 | 24.91 |
| | 6H | 19.46 | 20.03 | 20.22 | 20.82 | 21.72 | 24.48 | 25.06 | 25.25 | 25.85 | 26.75 |
| | 8H | 19.79 | 20.30 | 20.56 | 21.08 | 22.04 | 25.58 | 26.09 | 26.35 | 26.87 | 27.83 |