

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: P895397

Luminaire Tested: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

**Test Information**

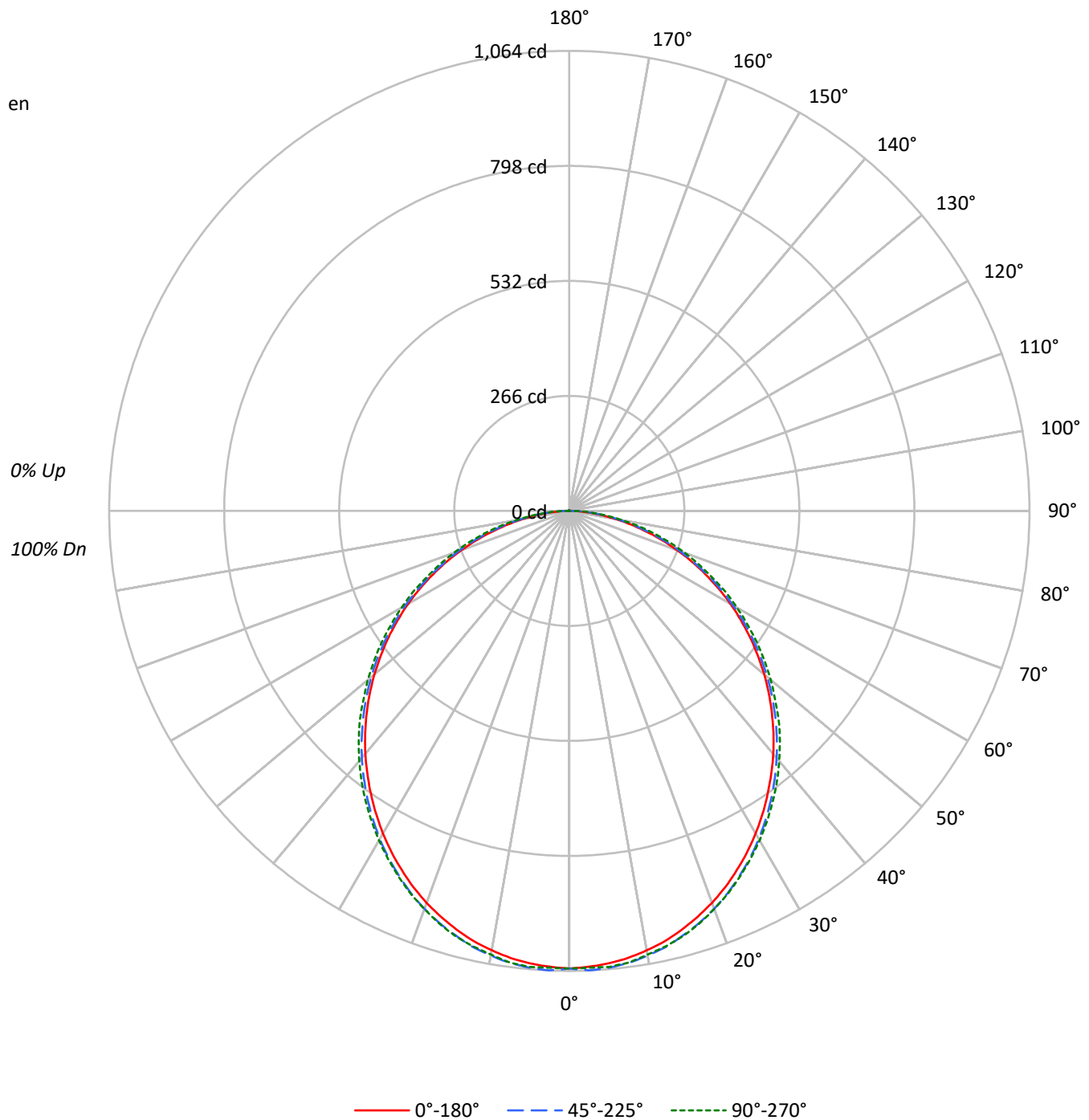
Test Method: LM-79-2019  
Report Number: P895397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT, LOW lum setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2938.1 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P895397  
CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P895397  
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 99  | 96  | 106 | 101 | 98  | 94  | 97  | 94  | 91  | 93  | 91  | 88  | 90  | 88  | 86  | 86  | 86  | 86  | 83  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 72  | 69  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 61  | 58  |
| 4   | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 45  | 45  | 45  | 43  |
| 6   | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 41  | 54  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 40  | 40  | 40  | 38  |
| 7   | 65  | 51  | 43  | 36  | 63  | 51  | 42  | 36  | 49  | 41  | 36  | 48  | 41  | 36  | 46  | 40  | 35  | 35  | 35  | 35  | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 32  | 32  | 32  | 32  | 30  |
| 9   | 56  | 43  | 35  | 29  | 55  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 29  | 29  | 29  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 26  | 26  | 26  | 26  | 24  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3755 | 3755 | 3755 |
| 5°  | 3742 | 3778 | 3770 |
| 10° | 3718 | 3763 | 3755 |
| 15° | 3686 | 3734 | 3740 |
| 20° | 3642 | 3698 | 3701 |
| 25° | 3588 | 3646 | 3655 |
| 30° | 3530 | 3590 | 3606 |
| 35° | 3463 | 3524 | 3554 |
| 40° | 3398 | 3456 | 3499 |
| 45° | 3324 | 3378 | 3437 |
| 50° | 3246 | 3298 | 3357 |
| 55° | 3159 | 3206 | 3274 |
| 60° | 3057 | 3107 | 3178 |
| 65° | 2921 | 2980 | 3058 |
| 70° | 2749 | 2829 | 2958 |
| 75° | 2528 | 2635 | 2803 |
| 80° | 2231 | 2407 | 2534 |
| 85° | 1926 | 2206 | 2365 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3437 cd/sqm



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**ZONAL LUMENS:**

| Zone            | Lumens        | % Fixture    |
|-----------------|---------------|--------------|
| 0°-10°          | 100.1         | 3.4          |
| 10°-20°         | 285.3         | 9.7          |
| 20°-30°         | 427.5         | 14.5         |
| 30°-40°         | 508.6         | 17.3         |
| 40°-50°         | 521.9         | 17.8         |
| 50°-60°         | 467.6         | 15.9         |
| 60°-70°         | 355.3         | 12.1         |
| 70°-80°         | 206.5         | 7.0          |
| 80°-90°         | 62.0          | 2.1          |
| 90°-100°        | 1.5           | 0.0          |
| 100°-110°       | 0.3           | 0.0          |
| 110°-120°       | 0.0           | 0.0          |
| 120°-130°       | 0.1           | 0.0          |
| 130°-140°       | 0.3           | 0.0          |
| 140°-150°       | 0.5           | 0.0          |
| 150°-160°       | 0.4           | 0.0          |
| 160°-170°       | 0.2           | 0.0          |
| 170°-180°       | 0.1           | 0.0          |
| <b>0°-30°</b>   | <b>812.8</b>  | <b>27.7</b>  |
| <b>0°-40°</b>   | <b>1321.5</b> | <b>45.0</b>  |
| <b>0°-60°</b>   | <b>2311.0</b> | <b>78.7</b>  |
| <b>0°-90°</b>   | <b>2934.7</b> | <b>99.9</b>  |
| 90°-120°        | 1.8           | 0.1          |
| 90°-150°        | 2.7           | 0.1          |
| <b>90°-180°</b> | <b>3.0</b>    | <b>0.1</b>   |
| <b>0°-180°</b>  | <b>2938.1</b> | <b>100.0</b> |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1058 | 1058  | 1058 | 1058  | 1058 |      |
| 5°   | 1051 | 1068  | 1061 | 1055  | 1058 | 100  |
| 15°  | 1003 | 1023  | 1016 | 1015  | 1018 | 283  |
| 25°  | 917  | 938   | 931  | 930   | 934  | 422  |
| 35°  | 800  | 819   | 814  | 816   | 820  | 500  |
| 45°  | 662  | 679   | 673  | 679   | 685  | 511  |
| 55°  | 511  | 523   | 518  | 524   | 529  | 456  |
| 65°  | 348  | 356   | 355  | 361   | 364  | 344  |
| 75°  | 184  | 191   | 192  | 199   | 204  | 196  |
| 85°  | 47   | 51    | 54   | 58    | 58   | 52   |
| 90°  | 1    | 3     | 3    | 5     | 5    | 3    |
| 95°  | 0    | 1     | 1    | 2     | 2    | 0    |
| 105° | 0    | 0     | 0    | 1     | 1    | 0    |
| 115° | 0    | 0     | 0    | 0     | 0    | 0    |
| 125° | 0    | 0     | 0    | 0     | 0    | 0    |
| 135° | 0    | 0     | 1    | 0     | 0    | 0    |
| 145° | 1    | 1     | 1    | 1     | 1    | 1    |
| 155° | 1    | 1     | 1    | 1     | 1    | 0    |
| 165° | 1    | 1     | 1    | 1     | 1    | 0    |
| 175° | 2    | 2     | 2    | 1     | 1    | 0    |
| 180° | 1    | 1     | 1    | 1     | 1    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 |
| 2.5°   | 1055.3 | 1053.7 | 1055.3 | 1054.5 | 1062.3 | 1071.6 | 1070.0 | 1063.0 | 1055.3 | 1057.6 | 1063.8 |
| 5°     | 1050.6 | 1049.9 | 1052.2 | 1050.6 | 1058.4 | 1068.5 | 1065.4 | 1059.2 | 1052.2 | 1054.5 | 1060.7 |
| 7.5°   | 1042.9 | 1042.9 | 1046.0 | 1044.4 | 1051.4 | 1061.5 | 1058.4 | 1053.0 | 1046.0 | 1048.3 | 1054.5 |
| 10°    | 1032.0 | 1032.8 | 1036.7 | 1034.4 | 1040.6 | 1051.4 | 1048.3 | 1042.9 | 1036.7 | 1038.2 | 1044.4 |
| 12.5°  | 1019.6 | 1019.6 | 1024.3 | 1022.0 | 1028.2 | 1038.2 | 1034.4 | 1030.5 | 1024.3 | 1025.8 | 1032.8 |
| 15°    | 1003.4 | 1004.1 | 1009.6 | 1007.2 | 1012.7 | 1022.7 | 1018.9 | 1015.8 | 1010.3 | 1011.1 | 1016.5 |
| 17.5°  | 984.8  | 987.1  | 992.5  | 990.2  | 995.6  | 1005.7 | 1001.0 | 997.9  | 993.3  | 994.1  | 999.5  |
| 20°    | 964.6  | 967.0  | 972.4  | 970.8  | 974.7  | 984.8  | 980.1  | 978.6  | 973.9  | 974.7  | 979.4  |
| 22.5°  | 942.2  | 944.5  | 950.7  | 949.1  | 953.0  | 963.1  | 957.7  | 956.9  | 952.2  | 953.0  | 956.9  |
| 25°    | 916.6  | 919.7  | 926.7  | 925.1  | 928.2  | 937.5  | 932.9  | 931.3  | 928.2  | 928.2  | 931.3  |
| 27.5°  | 890.2  | 893.3  | 901.1  | 898.8  | 901.1  | 911.2  | 905.7  | 905.0  | 901.9  | 901.9  | 905.0  |
| 30°    | 861.6  | 864.7  | 873.2  | 870.9  | 873.2  | 881.7  | 876.3  | 877.1  | 874.0  | 874.0  | 876.3  |
| 32.5°  | 831.4  | 833.7  | 843.0  | 841.4  | 843.0  | 851.5  | 846.1  | 846.9  | 843.8  | 844.5  | 845.3  |
| 35°    | 799.6  | 801.9  | 812.0  | 810.4  | 811.2  | 819.0  | 815.1  | 815.1  | 812.8  | 812.0  | 813.5  |
| 37.5°  | 767.1  | 769.4  | 781.8  | 777.9  | 777.9  | 785.6  | 782.6  | 782.6  | 780.2  | 779.5  | 780.2  |
| 40°    | 733.7  | 735.3  | 748.5  | 744.6  | 743.8  | 750.8  | 748.5  | 748.5  | 746.9  | 745.4  | 746.1  |
| 42.5°  | 698.9  | 701.2  | 714.4  | 711.3  | 708.2  | 715.9  | 713.6  | 714.4  | 712.0  | 710.5  | 710.5  |
| 45°    | 662.5  | 664.8  | 678.0  | 676.4  | 671.8  | 678.7  | 676.4  | 678.0  | 674.9  | 673.3  | 673.3  |
| 47.5°  | 626.0  | 629.1  | 641.5  | 639.2  | 634.6  | 641.5  | 639.2  | 640.8  | 637.7  | 636.1  | 636.1  |
| 50°    | 588.1  | 591.2  | 604.3  | 600.5  | 595.8  | 602.8  | 601.2  | 602.0  | 599.7  | 598.1  | 597.4  |
| 52.5°  | 549.3  | 553.2  | 565.6  | 561.0  | 557.1  | 563.3  | 562.5  | 563.3  | 560.2  | 559.4  | 558.6  |
| 55°    | 510.6  | 514.5  | 526.1  | 520.7  | 517.6  | 523.0  | 521.4  | 523.0  | 519.9  | 519.1  | 518.3  |
| 57.5°  | 470.3  | 474.2  | 485.0  | 479.6  | 477.3  | 481.9  | 481.2  | 481.9  | 479.6  | 478.8  | 478.1  |
| 60°    | 430.8  | 433.9  | 444.0  | 438.5  | 436.2  | 440.9  | 439.3  | 441.6  | 438.5  | 438.5  | 437.8  |
| 62.5°  | 389.0  | 392.8  | 402.9  | 396.7  | 395.1  | 399.0  | 397.5  | 399.8  | 398.2  | 396.7  | 395.9  |
| 65°    | 347.9  | 350.2  | 359.5  | 354.1  | 351.8  | 356.4  | 355.6  | 357.2  | 354.9  | 355.6  | 354.9  |
| 67.5°  | 306.8  | 308.4  | 317.7  | 311.5  | 309.9  | 314.6  | 315.3  | 314.6  | 313.0  | 313.8  | 313.0  |
| 70°    | 265.0  | 266.5  | 274.3  | 268.9  | 268.1  | 272.0  | 273.5  | 272.7  | 271.2  | 272.0  | 272.7  |
| 72.5°  | 224.7  | 225.5  | 232.4  | 227.8  | 227.0  | 231.7  | 231.7  | 231.7  | 231.7  | 231.7  | 233.2  |
| 75°    | 184.4  | 185.2  | 191.4  | 187.5  | 186.7  | 191.4  | 191.4  | 191.4  | 191.4  | 192.9  | 192.2  |
| 77.5°  | 145.7  | 144.9  | 151.1  | 148.8  | 147.2  | 151.9  | 151.9  | 152.6  | 154.2  | 155.7  | 153.4  |
| 80°    | 109.2  | 108.5  | 113.1  | 110.0  | 110.0  | 114.7  | 113.9  | 114.7  | 116.2  | 117.0  | 117.8  |
| 82.5°  | 76.7   | 75.2   | 79.0   | 78.3   | 77.5   | 81.4   | 82.1   | 81.4   | 83.7   | 84.5   | 84.5   |
| 85°    | 47.3   | 47.3   | 49.6   | 48.0   | 48.0   | 51.1   | 51.1   | 51.9   | 53.5   | 54.2   | 54.2   |
| 87.5°  | 22.5   | 21.7   | 24.0   | 23.2   | 22.5   | 24.8   | 24.8   | 25.6   | 26.3   | 27.1   | 26.3   |
| 90°    | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    | 3.1    | 3.1    | 3.1    | 3.9    | 3.9    | 3.1    |
| 92.5°  | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    | 1.5    | 1.5    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.8 | 0.8 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.0 | 0.8 |
| 132.5° | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0   | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| 137.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 140°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 142.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 145°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 147.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 155°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 167.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170°   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 172.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 175°   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5   | 1.5 | 1.5 | 0.8 | 1.5 | 1.5 |
| 177.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 180°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



TEST NUMBER: P895397  
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 |
| 2.5°   | 1054.5 | 1049.1 | 1046.8 | 1048.3 | 1059.2 | 1048.3 | 1059.9 | 1063.8 | 1049.9 | 1057.6 |
| 5°     | 1051.4 | 1046.0 | 1042.9 | 1044.4 | 1055.3 | 1045.2 | 1057.6 | 1062.3 | 1050.6 | 1058.4 |
| 7.5°   | 1045.2 | 1039.0 | 1037.5 | 1039.8 | 1049.1 | 1040.6 | 1053.0 | 1057.6 | 1046.0 | 1053.7 |
| 10°    | 1035.9 | 1030.5 | 1028.9 | 1031.3 | 1039.8 | 1031.3 | 1042.1 | 1046.0 | 1035.1 | 1042.1 |
| 12.5°  | 1024.3 | 1018.9 | 1017.3 | 1020.4 | 1028.2 | 1020.4 | 1031.3 | 1035.1 | 1024.3 | 1031.3 |
| 15°    | 1009.6 | 1004.1 | 1003.4 | 1008.0 | 1015.0 | 1008.0 | 1018.9 | 1022.0 | 1011.1 | 1018.1 |
| 17.5°  | 991.7  | 986.3  | 987.1  | 992.5  | 997.9  | 991.7  | 1001.8 | 1004.9 | 994.8  | 1000.3 |
| 20°    | 972.4  | 966.2  | 967.7  | 972.4  | 977.0  | 970.8  | 980.9  | 984.0  | 974.7  | 980.1  |
| 22.5°  | 949.9  | 943.7  | 945.3  | 950.7  | 953.8  | 948.4  | 957.7  | 960.8  | 953.0  | 958.4  |
| 25°    | 925.1  | 919.7  | 922.0  | 927.4  | 929.8  | 925.1  | 933.6  | 936.0  | 929.0  | 933.6  |
| 27.5°  | 900.3  | 894.1  | 897.2  | 902.6  | 904.2  | 899.5  | 908.1  | 909.6  | 902.6  | 907.3  |
| 30°    | 872.4  | 866.2  | 870.1  | 876.3  | 876.3  | 873.2  | 880.2  | 881.7  | 876.3  | 880.2  |
| 32.5°  | 841.4  | 836.8  | 841.4  | 846.9  | 846.1  | 843.8  | 850.7  | 852.3  | 847.6  | 850.7  |
| 35°    | 810.4  | 806.6  | 811.2  | 816.6  | 815.9  | 813.5  | 820.5  | 821.3  | 817.4  | 820.5  |
| 37.5°  | 778.7  | 775.6  | 780.2  | 784.9  | 783.3  | 781.8  | 788.0  | 788.0  | 785.6  | 788.7  |
| 40°    | 746.1  | 743.0  | 746.9  | 752.3  | 749.2  | 749.2  | 753.1  | 754.7  | 752.3  | 755.4  |
| 42.5°  | 712.0  | 708.9  | 713.6  | 718.2  | 715.1  | 714.4  | 719.0  | 719.8  | 718.2  | 720.6  |
| 45°    | 676.4  | 673.3  | 678.0  | 681.8  | 678.7  | 678.7  | 682.6  | 682.6  | 681.8  | 684.9  |
| 47.5°  | 640.0  | 637.7  | 641.5  | 645.4  | 642.3  | 644.6  | 644.6  | 644.6  | 646.2  | 645.4  |
| 50°    | 602.8  | 600.5  | 603.6  | 608.2  | 604.3  | 605.1  | 606.7  | 606.7  | 607.4  | 608.2  |
| 52.5°  | 564.1  | 561.0  | 564.1  | 569.5  | 564.1  | 566.4  | 567.2  | 567.9  | 570.3  | 568.7  |
| 55°    | 525.3  | 522.2  | 525.3  | 530.0  | 524.5  | 527.6  | 527.6  | 528.4  | 530.7  | 529.2  |
| 57.5°  | 485.0  | 481.9  | 486.6  | 489.7  | 484.3  | 487.4  | 487.4  | 488.9  | 490.5  | 488.1  |
| 60°    | 444.7  | 442.4  | 444.0  | 449.4  | 444.0  | 447.1  | 447.1  | 447.1  | 450.2  | 447.8  |
| 62.5°  | 403.7  | 402.1  | 403.7  | 408.3  | 402.9  | 406.0  | 405.2  | 406.0  | 409.1  | 408.3  |
| 65°    | 361.8  | 360.3  | 361.8  | 366.5  | 361.1  | 364.2  | 364.2  | 364.9  | 367.3  | 364.2  |
| 67.5°  | 320.8  | 318.4  | 320.8  | 324.6  | 320.0  | 322.3  | 322.3  | 322.3  | 326.2  | 324.6  |
| 70°    | 278.9  | 277.4  | 278.9  | 282.8  | 278.9  | 280.5  | 280.5  | 280.5  | 284.4  | 285.1  |
| 72.5°  | 237.9  | 237.9  | 239.4  | 242.5  | 239.4  | 242.5  | 240.2  | 238.6  | 244.1  | 244.8  |
| 75°    | 197.6  | 198.3  | 199.1  | 202.2  | 199.1  | 202.2  | 200.7  | 199.1  | 203.8  | 204.5  |
| 77.5°  | 160.4  | 160.4  | 161.2  | 163.5  | 161.2  | 163.5  | 161.9  | 161.9  | 165.0  | 164.3  |
| 80°    | 122.4  | 122.4  | 123.2  | 125.5  | 123.2  | 125.5  | 124.0  | 124.0  | 127.1  | 124.0  |
| 82.5°  | 89.1   | 89.1   | 89.1   | 91.4   | 89.9   | 91.4   | 90.7   | 89.1   | 93.0   | 89.9   |
| 85°    | 57.3   | 58.1   | 58.1   | 58.9   | 58.1   | 58.9   | 58.9   | 58.1   | 60.4   | 58.1   |
| 87.5°  | 29.4   | 29.4   | 29.4   | 30.2   | 29.4   | 29.4   | 30.2   | 29.4   | 31.0   | 30.2   |
| 90°    | 5.4    | 4.6    | 4.6    | 6.2    | 5.4    | 5.4    | 6.2    | 4.6    | 5.4    | 4.6    |
| 92.5°  | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.1    | 3.1    |
| 95°    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.3    |
| 97.5°  | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    |
| 100°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 102.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 105°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.8    | 0.8    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    |





TEST NUMBER: P895397  
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.8 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.8 | 0.8 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0   | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 142.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 147.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 155°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 167.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 172.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 175°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 177.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 180°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



TEST NUMBER: P895397  
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-3500K

**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 | 16.10            | 17.74 | 16.47 | 18.06 | 18.37 | 16.24          | 17.88 | 16.61 | 18.19 | 18.51 |
|                 | 3H   | 17.93            | 19.41 | 18.31 | 19.74 | 20.10 | 18.07          | 19.55 | 18.45 | 19.88 | 20.25 |
|                 | 4H   | 18.59            | 19.98 | 18.99 | 20.33 | 20.71 | 18.78          | 20.18 | 19.18 | 20.53 | 20.90 |
|                 | 6H   | 19.04            | 20.34 | 19.45 | 20.70 | 21.10 | 19.34          | 20.63 | 19.75 | 21.00 | 21.39 |
|                 | 8H   | 19.18            | 20.42 | 19.61 | 20.81 | 21.21 | 19.53          | 20.77 | 19.96 | 21.16 | 21.56 |
|                 | 12H  | 19.28            | 20.46 | 19.71 | 20.85 | 21.28 | 19.67          | 20.86 | 20.11 | 21.24 | 21.67 |
| 4H              | 2H   | 16.74            | 18.13 | 17.14 | 18.48 | 18.86 | 16.85          | 18.24 | 17.25 | 18.59 | 18.97 |
|                 | 3H   | 18.78            | 19.95 | 19.19 | 20.35 | 20.75 | 18.91          | 20.09 | 19.32 | 20.48 | 20.89 |
|                 | 4H   | 19.57            | 20.63 | 20.01 | 21.05 | 21.49 | 19.76          | 20.82 | 20.19 | 21.23 | 21.67 |
|                 | 6H   | 20.15            | 21.08 | 20.60 | 21.52 | 21.98 | 20.45          | 21.38 | 20.91 | 21.82 | 22.28 |
|                 | 8H   | 20.34            | 21.21 | 20.80 | 21.65 | 22.12 | 20.70          | 21.56 | 21.16 | 22.01 | 22.48 |
|                 | 12H  | 20.48            | 21.26 | 20.96 | 21.74 | 22.21 | 20.89          | 21.67 | 21.37 | 22.15 | 22.62 |
| 8H              | 4H   | 19.90            | 20.77 | 20.36 | 21.21 | 21.68 | 20.07          | 20.94 | 20.53 | 21.38 | 21.85 |
|                 | 6H   | 20.60            | 21.33 | 21.10 | 21.82 | 22.30 | 20.89          | 21.62 | 21.39 | 22.11 | 22.58 |
|                 | 8H   | 20.87            | 21.52 | 21.38 | 22.03 | 22.51 | 21.22          | 21.87 | 21.73 | 22.38 | 22.87 |
|                 | 12H  | 21.08            | 21.66 | 21.59 | 22.15 | 22.71 | 21.51          | 22.08 | 22.01 | 22.57 | 23.14 |
| 12H             | 4H   | 19.95            | 20.73 | 20.43 | 21.20 | 21.68 | 20.10          | 20.88 | 20.58 | 21.36 | 21.83 |
|                 | 6H   | 20.67            | 21.33 | 21.18 | 21.83 | 22.32 | 20.95          | 21.60 | 21.46 | 22.11 | 22.60 |
|                 | 8H   | 21.00            | 21.58 | 21.51 | 22.07 | 22.63 | 21.34          | 21.92 | 21.85 | 22.41 | 22.97 |