

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: P895399

Luminaire Tested: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

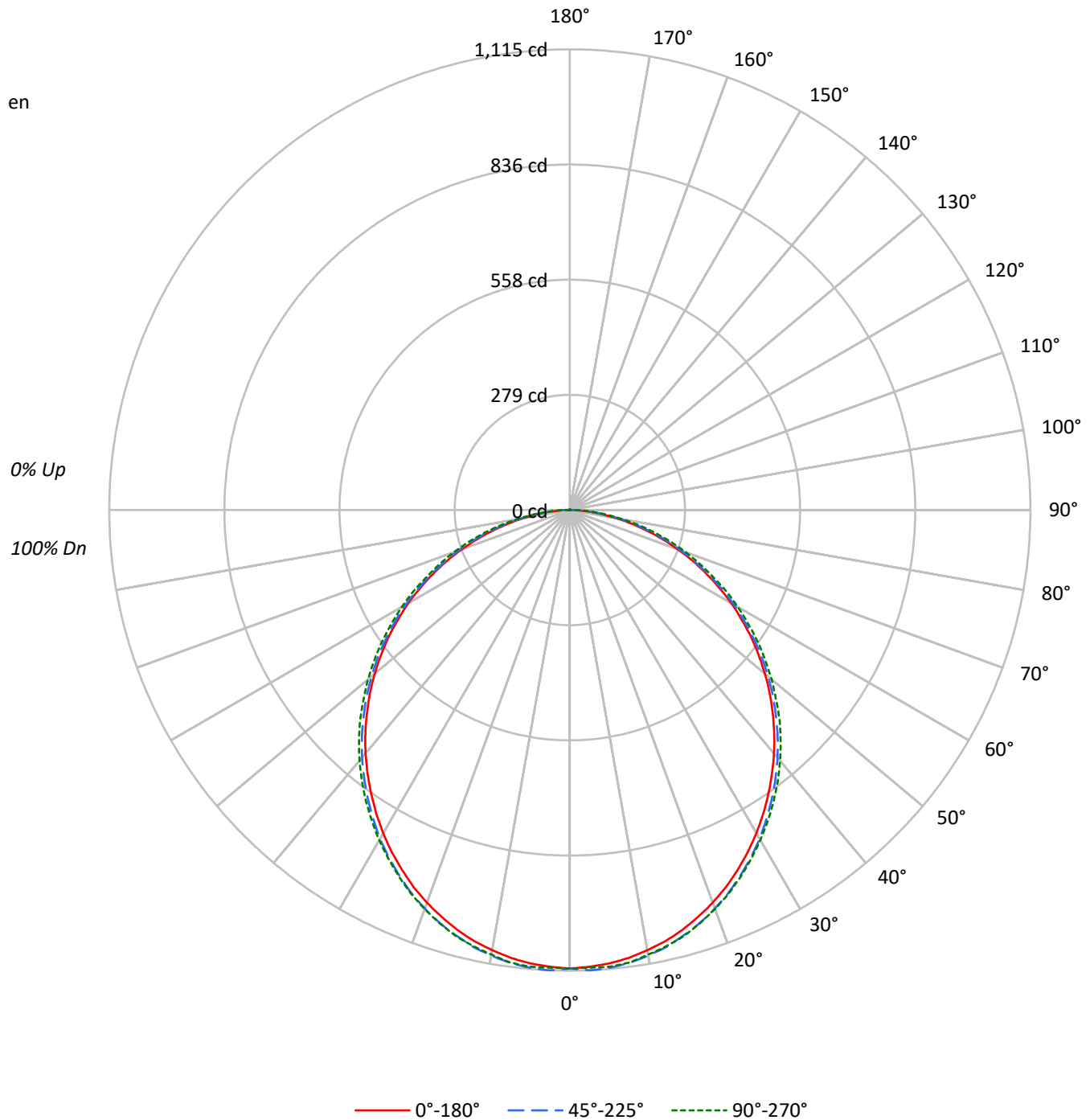
Test Method: LM-79-2019  
Report Number: P895399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 5000K CCT, LOW lum setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3079.9 lumens  
Efficiency: N/A  
Efficacy: 91.9 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: P895399  
CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P895399  
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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°  | 3937 | 3937 | 3937 |
| 5°  | 3923 | 3961 | 3952 |
| 10° | 3898 | 3945 | 3936 |
| 15° | 3864 | 3915 | 3921 |
| 20° | 3819 | 3877 | 3880 |
| 25° | 3762 | 3822 | 3832 |
| 30° | 3700 | 3764 | 3780 |
| 35° | 3631 | 3694 | 3726 |
| 40° | 3563 | 3623 | 3668 |
| 45° | 3485 | 3542 | 3603 |
| 50° | 3403 | 3457 | 3520 |
| 55° | 3311 | 3361 | 3432 |
| 60° | 3205 | 3256 | 3332 |
| 65° | 3062 | 3123 | 3205 |
| 70° | 2882 | 2966 | 3101 |
| 75° | 2650 | 2761 | 2939 |
| 80° | 2340 | 2523 | 2656 |
| 85° | 2015 | 2316 | 2479 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3603 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.9  | 3.4       |
| 10°-20°   | 299.0  | 9.7       |
| 20°-30°   | 448.1  | 14.6      |
| 30°-40°   | 533.2  | 17.3      |
| 40°-50°   | 547.1  | 17.8      |
| 50°-60°   | 490.2  | 15.9      |
| 60°-70°   | 372.4  | 12.1      |
| 70°-80°   | 216.5  | 7.0       |
| 80°-90°   | 65.0   | 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       |
| 0°-30°    | 852.1  | 27.7      |
| 0°-40°    | 1385.3 | 45.0      |
| 0°-60°    | 2422.6 | 78.7      |
| 0°-90°    | 3076.5 | 99.9      |
| 90°-120°  | 1.8    | 0.1       |
| 90°-150°  | 2.7    | 0.1       |
| 90°-180°  | 3.0    | 0.1       |
| 0°-180°   | 3079.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1110 | 1110  | 1110 | 1110  | 1110 |      |
| 5°   | 1101 | 1120  | 1112 | 1106  | 1110 | 105  |
| 15°  | 1052 | 1072  | 1066 | 1064  | 1067 | 297  |
| 25°  | 961  | 983   | 976  | 975   | 979  | 443  |
| 35°  | 838  | 858   | 853  | 855   | 860  | 524  |
| 45°  | 694  | 712   | 706  | 712   | 718  | 536  |
| 55°  | 535  | 548   | 543  | 550   | 555  | 478  |
| 65°  | 365  | 374   | 372  | 378   | 382  | 361  |
| 75°  | 193  | 201   | 201  | 209   | 214  | 205  |
| 85°  | 50   | 54    | 57   | 61    | 61   | 54   |
| 90°  | 1    | 3     | 3    | 6     | 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°     | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 |
| 2.5°   | 1106.3 | 1104.7 | 1106.3 | 1105.5 | 1113.6 | 1123.3 | 1121.7 | 1114.4 | 1106.3 | 1108.7 | 1115.2 |
| 5°     | 1101.4 | 1100.6 | 1103.0 | 1101.4 | 1109.5 | 1120.1 | 1116.8 | 1110.3 | 1103.0 | 1105.5 | 1112.0 |
| 7.5°   | 1093.3 | 1093.3 | 1096.5 | 1094.9 | 1102.2 | 1112.8 | 1109.5 | 1103.8 | 1096.5 | 1099.0 | 1105.5 |
| 10°    | 1081.9 | 1082.7 | 1086.8 | 1084.4 | 1090.9 | 1102.2 | 1099.0 | 1093.3 | 1086.8 | 1088.4 | 1094.9 |
| 12.5°  | 1068.9 | 1068.9 | 1073.8 | 1071.4 | 1077.9 | 1088.4 | 1084.4 | 1080.3 | 1073.8 | 1075.4 | 1082.7 |
| 15°    | 1051.9 | 1052.7 | 1058.4 | 1055.9 | 1061.6 | 1072.2 | 1068.1 | 1064.9 | 1059.2 | 1060.0 | 1065.7 |
| 17.5°  | 1032.4 | 1034.8 | 1040.5 | 1038.1 | 1043.7 | 1054.3 | 1049.4 | 1046.2 | 1041.3 | 1042.1 | 1047.8 |
| 20°    | 1011.3 | 1013.7 | 1019.4 | 1017.7 | 1021.8 | 1032.4 | 1027.5 | 1025.9 | 1021.0 | 1021.8 | 1026.7 |
| 22.5°  | 987.7  | 990.1  | 996.6  | 995.0  | 999.1  | 1009.6 | 1003.9 | 1003.1 | 998.3  | 999.1  | 1003.1 |
| 25°    | 960.9  | 964.1  | 971.5  | 969.8  | 973.1  | 982.8  | 977.9  | 976.3  | 973.1  | 973.1  | 976.3  |
| 27.5°  | 933.3  | 936.5  | 944.6  | 942.2  | 944.6  | 955.2  | 949.5  | 948.7  | 945.5  | 945.5  | 948.7  |
| 30°    | 903.2  | 906.5  | 915.4  | 913.0  | 915.4  | 924.3  | 918.7  | 919.5  | 916.2  | 916.2  | 918.7  |
| 32.5°  | 871.5  | 874.0  | 883.7  | 882.1  | 883.7  | 892.7  | 887.0  | 887.8  | 884.5  | 885.4  | 886.2  |
| 35°    | 838.2  | 840.7  | 851.2  | 849.6  | 850.4  | 858.5  | 854.5  | 854.5  | 852.1  | 851.2  | 852.9  |
| 37.5°  | 804.1  | 806.6  | 819.6  | 815.5  | 815.5  | 823.6  | 820.4  | 820.4  | 817.9  | 817.1  | 817.9  |
| 40°    | 769.2  | 770.8  | 784.6  | 780.6  | 779.8  | 787.1  | 784.6  | 784.6  | 783.0  | 781.4  | 782.2  |
| 42.5°  | 732.6  | 735.1  | 748.9  | 745.6  | 742.4  | 750.5  | 748.1  | 748.9  | 746.5  | 744.8  | 744.8  |
| 45°    | 694.5  | 696.9  | 710.7  | 709.1  | 704.2  | 711.5  | 709.1  | 710.7  | 707.5  | 705.8  | 705.8  |
| 47.5°  | 656.3  | 659.5  | 672.5  | 670.1  | 665.2  | 672.5  | 670.1  | 671.7  | 668.5  | 666.9  | 666.9  |
| 50°    | 616.5  | 619.7  | 633.6  | 629.5  | 624.6  | 631.9  | 630.3  | 631.1  | 628.7  | 627.1  | 626.2  |
| 52.5°  | 575.9  | 579.9  | 592.9  | 588.1  | 584.0  | 590.5  | 589.7  | 590.5  | 587.3  | 586.4  | 585.6  |
| 55°    | 535.3  | 539.3  | 551.5  | 545.8  | 542.6  | 548.3  | 546.6  | 548.3  | 545.0  | 544.2  | 543.4  |
| 57.5°  | 493.0  | 497.1  | 508.5  | 502.8  | 500.3  | 505.2  | 504.4  | 505.2  | 502.8  | 502.0  | 501.2  |
| 60°    | 451.6  | 454.9  | 465.4  | 459.7  | 457.3  | 462.2  | 460.5  | 463.0  | 459.7  | 459.7  | 458.9  |
| 62.5°  | 407.7  | 411.8  | 422.4  | 415.9  | 414.2  | 418.3  | 416.7  | 419.1  | 417.5  | 415.9  | 415.1  |
| 65°    | 364.7  | 367.1  | 376.9  | 371.2  | 368.8  | 373.6  | 372.8  | 374.4  | 372.0  | 372.8  | 372.0  |
| 67.5°  | 321.7  | 323.3  | 333.0  | 326.5  | 324.9  | 329.8  | 330.6  | 329.8  | 328.1  | 329.0  | 328.1  |
| 70°    | 277.8  | 279.4  | 287.5  | 281.9  | 281.0  | 285.1  | 286.7  | 285.9  | 284.3  | 285.1  | 285.9  |
| 72.5°  | 235.6  | 236.4  | 243.7  | 238.8  | 238.0  | 242.9  | 242.9  | 242.9  | 242.9  | 242.9  | 244.5  |
| 75°    | 193.3  | 194.1  | 200.6  | 196.6  | 195.8  | 200.6  | 200.6  | 200.6  | 200.6  | 202.3  | 201.4  |
| 77.5°  | 152.7  | 151.9  | 158.4  | 156.0  | 154.3  | 159.2  | 159.2  | 160.0  | 161.6  | 163.3  | 160.8  |
| 80°    | 114.5  | 113.7  | 118.6  | 115.3  | 115.3  | 120.2  | 119.4  | 120.2  | 121.8  | 122.6  | 123.5  |
| 82.5°  | 80.4   | 78.8   | 82.8   | 82.0   | 81.2   | 85.3   | 86.1   | 85.3   | 87.7   | 88.5   | 88.5   |
| 85°    | 49.5   | 49.5   | 52.0   | 50.4   | 50.4   | 53.6   | 53.6   | 54.4   | 56.0   | 56.9   | 56.9   |
| 87.5°  | 23.6   | 22.7   | 25.2   | 24.4   | 23.6   | 26.0   | 26.0   | 26.8   | 27.6   | 28.4   | 27.6   |
| 90°    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    | 3.2    | 3.2    | 3.2    | 4.1    | 4.1    | 3.2    |
| 92.5°  | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    | 1.6    |
| 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° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 170°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 172.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 175°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6   | 1.6 | 1.6 | 0.8 | 1.6 | 1.6 |
| 177.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 180°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



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 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 | 1109.5 |
| 2.5°   | 1105.5 | 1099.8 | 1097.4 | 1099.0 | 1110.3 | 1099.0 | 1111.2 | 1115.2 | 1100.6 | 1108.7 |
| 5°     | 1102.2 | 1096.5 | 1093.3 | 1094.9 | 1106.3 | 1095.7 | 1108.7 | 1113.6 | 1101.4 | 1109.5 |
| 7.5°   | 1095.7 | 1089.2 | 1087.6 | 1090.0 | 1099.8 | 1090.9 | 1103.8 | 1108.7 | 1096.5 | 1104.7 |
| 10°    | 1086.0 | 1080.3 | 1078.7 | 1081.1 | 1090.0 | 1081.1 | 1092.5 | 1096.5 | 1085.2 | 1092.5 |
| 12.5°  | 1073.8 | 1068.1 | 1066.5 | 1069.7 | 1077.9 | 1069.7 | 1081.1 | 1085.2 | 1073.8 | 1081.1 |
| 15°    | 1058.4 | 1052.7 | 1051.9 | 1056.7 | 1064.0 | 1056.7 | 1068.1 | 1071.4 | 1060.0 | 1067.3 |
| 17.5°  | 1039.7 | 1034.0 | 1034.8 | 1040.5 | 1046.2 | 1039.7 | 1050.2 | 1053.5 | 1042.9 | 1048.6 |
| 20°    | 1019.4 | 1012.9 | 1014.5 | 1019.4 | 1024.2 | 1017.7 | 1028.3 | 1031.6 | 1021.8 | 1027.5 |
| 22.5°  | 995.8  | 989.3  | 990.9  | 996.6  | 999.9  | 994.2  | 1003.9 | 1007.2 | 999.1  | 1004.8 |
| 25°    | 969.8  | 964.1  | 966.6  | 972.3  | 974.7  | 969.8  | 978.8  | 981.2  | 973.9  | 978.8  |
| 27.5°  | 943.8  | 937.3  | 940.6  | 946.3  | 947.9  | 943.0  | 952.0  | 953.6  | 946.3  | 951.1  |
| 30°    | 914.6  | 908.1  | 912.2  | 918.7  | 918.7  | 915.4  | 922.7  | 924.3  | 918.7  | 922.7  |
| 32.5°  | 882.1  | 877.2  | 882.1  | 887.8  | 887.0  | 884.5  | 891.9  | 893.5  | 888.6  | 891.9  |
| 35°    | 849.6  | 845.6  | 850.4  | 856.1  | 855.3  | 852.9  | 860.2  | 861.0  | 856.9  | 860.2  |
| 37.5°  | 816.3  | 813.1  | 817.9  | 822.8  | 821.2  | 819.6  | 826.1  | 826.1  | 823.6  | 826.9  |
| 40°    | 782.2  | 778.9  | 783.0  | 788.7  | 785.4  | 785.4  | 789.5  | 791.1  | 788.7  | 791.9  |
| 42.5°  | 746.5  | 743.2  | 748.1  | 753.0  | 749.7  | 748.9  | 753.8  | 754.6  | 753.0  | 755.4  |
| 45°    | 709.1  | 705.8  | 710.7  | 714.8  | 711.5  | 711.5  | 715.6  | 715.6  | 714.8  | 718.0  |
| 47.5°  | 670.9  | 668.5  | 672.5  | 676.6  | 673.4  | 675.8  | 675.8  | 675.8  | 677.4  | 676.6  |
| 50°    | 631.9  | 629.5  | 632.7  | 637.6  | 633.6  | 634.4  | 636.0  | 636.0  | 636.8  | 637.6  |
| 52.5°  | 591.3  | 588.1  | 591.3  | 597.0  | 591.3  | 593.8  | 594.6  | 595.4  | 597.8  | 596.2  |
| 55°    | 550.7  | 547.5  | 550.7  | 555.6  | 549.9  | 553.1  | 553.1  | 554.0  | 556.4  | 554.8  |
| 57.5°  | 508.5  | 505.2  | 510.1  | 513.3  | 507.7  | 510.9  | 510.9  | 512.5  | 514.2  | 511.7  |
| 60°    | 466.2  | 463.8  | 465.4  | 471.1  | 465.4  | 468.7  | 468.7  | 468.7  | 471.9  | 469.5  |
| 62.5°  | 423.2  | 421.6  | 423.2  | 428.1  | 422.4  | 425.6  | 424.8  | 425.6  | 428.9  | 428.1  |
| 65°    | 379.3  | 377.7  | 379.3  | 384.2  | 378.5  | 381.8  | 381.8  | 382.6  | 385.0  | 381.8  |
| 67.5°  | 336.3  | 333.8  | 336.3  | 340.3  | 335.5  | 337.9  | 337.9  | 337.9  | 342.0  | 340.3  |
| 70°    | 292.4  | 290.8  | 292.4  | 296.5  | 292.4  | 294.0  | 294.0  | 294.0  | 298.1  | 298.9  |
| 72.5°  | 249.4  | 249.4  | 251.0  | 254.2  | 251.0  | 254.2  | 251.8  | 250.2  | 255.9  | 256.7  |
| 75°    | 207.1  | 207.9  | 208.7  | 212.0  | 208.7  | 212.0  | 210.4  | 208.7  | 213.6  | 214.4  |
| 77.5°  | 168.1  | 168.1  | 168.9  | 171.4  | 168.9  | 171.4  | 169.8  | 169.8  | 173.0  | 172.2  |
| 80°    | 128.3  | 128.3  | 129.1  | 131.6  | 129.1  | 131.6  | 130.0  | 130.0  | 133.2  | 130.0  |
| 82.5°  | 93.4   | 93.4   | 93.4   | 95.8   | 94.2   | 95.8   | 95.0   | 93.4   | 97.5   | 94.2   |
| 85°    | 60.1   | 60.9   | 60.9   | 61.7   | 60.9   | 61.7   | 61.7   | 60.9   | 63.4   | 60.9   |
| 87.5°  | 30.9   | 30.9   | 30.9   | 31.7   | 30.9   | 30.9   | 31.7   | 30.9   | 32.5   | 31.7   |
| 90°    | 5.7    | 4.9    | 4.9    | 6.5    | 5.7    | 5.7    | 6.5    | 4.9    | 5.7    | 4.9    |
| 92.5°  | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.2    | 3.2    |
| 95°    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 2.4    |
| 97.5°  | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 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: P895399  
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K

**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: P895399  
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-LOW-5000K

**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 | 16.27            | 17.90 | 16.63 | 18.22 | 18.54 | 16.40          | 18.04 | 16.77 | 18.36 | 18.67 |
|                 | 3H   | 18.09            | 19.57 | 18.47 | 19.90 | 20.26 | 18.24          | 19.72 | 18.62 | 20.05 | 20.41 |
|                 | 4H   | 18.75            | 20.15 | 19.15 | 20.50 | 20.88 | 18.94          | 20.34 | 19.34 | 20.69 | 21.07 |
|                 | 6H   | 19.20            | 20.50 | 19.62 | 20.87 | 21.26 | 19.50          | 20.80 | 19.91 | 21.16 | 21.56 |
|                 | 8H   | 19.34            | 20.58 | 19.77 | 20.97 | 21.37 | 19.70          | 20.93 | 20.12 | 21.32 | 21.72 |
|                 | 12H  | 19.44            | 20.62 | 19.87 | 21.01 | 21.44 | 19.84          | 21.02 | 20.27 | 21.41 | 21.84 |
| 4H              | 2H   | 16.90            | 18.30 | 17.30 | 18.65 | 19.03 | 17.01          | 18.41 | 17.41 | 18.76 | 19.13 |
|                 | 3H   | 18.94            | 20.11 | 19.35 | 20.51 | 20.92 | 19.08          | 20.25 | 19.49 | 20.65 | 21.05 |
|                 | 4H   | 19.74            | 20.80 | 20.17 | 21.21 | 21.65 | 19.92          | 20.98 | 20.35 | 21.40 | 21.84 |
|                 | 6H   | 20.31            | 21.24 | 20.77 | 21.68 | 22.14 | 20.61          | 21.54 | 21.07 | 21.98 | 22.44 |
|                 | 8H   | 20.50            | 21.37 | 20.96 | 21.81 | 22.28 | 20.86          | 21.73 | 21.32 | 22.17 | 22.64 |
|                 | 12H  | 20.64            | 21.43 | 21.13 | 21.90 | 22.37 | 21.05          | 21.83 | 21.53 | 22.31 | 22.78 |
| 8H              | 4H   | 20.06            | 20.93 | 20.53 | 21.38 | 21.85 | 20.23          | 21.10 | 20.69 | 21.54 | 22.01 |
|                 | 6H   | 20.77            | 21.49 | 21.26 | 21.98 | 22.46 | 21.06          | 21.78 | 21.55 | 22.27 | 22.75 |
|                 | 8H   | 21.03            | 21.68 | 21.54 | 22.19 | 22.68 | 21.39          | 22.04 | 21.90 | 22.54 | 23.03 |
|                 | 12H  | 21.25            | 21.82 | 21.75 | 22.31 | 22.88 | 21.67          | 22.25 | 22.18 | 22.74 | 23.30 |
| 12H             | 4H   | 20.11            | 20.89 | 20.59 | 21.37 | 21.84 | 20.26          | 21.04 | 20.74 | 21.52 | 21.99 |
|                 | 6H   | 20.84            | 21.49 | 21.35 | 22.00 | 22.48 | 21.11          | 21.76 | 21.62 | 22.27 | 22.76 |
|                 | 8H   | 21.16            | 21.74 | 21.67 | 22.23 | 22.79 | 21.51          | 22.08 | 22.01 | 22.57 | 23.14 |