

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: P798357

Luminaire Tested: 4VT3-SL3C3-P-UNV-MID-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P233275)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4VT3-SL3C3-P-UNV-MID-4000K  
Description: Vaportite LED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

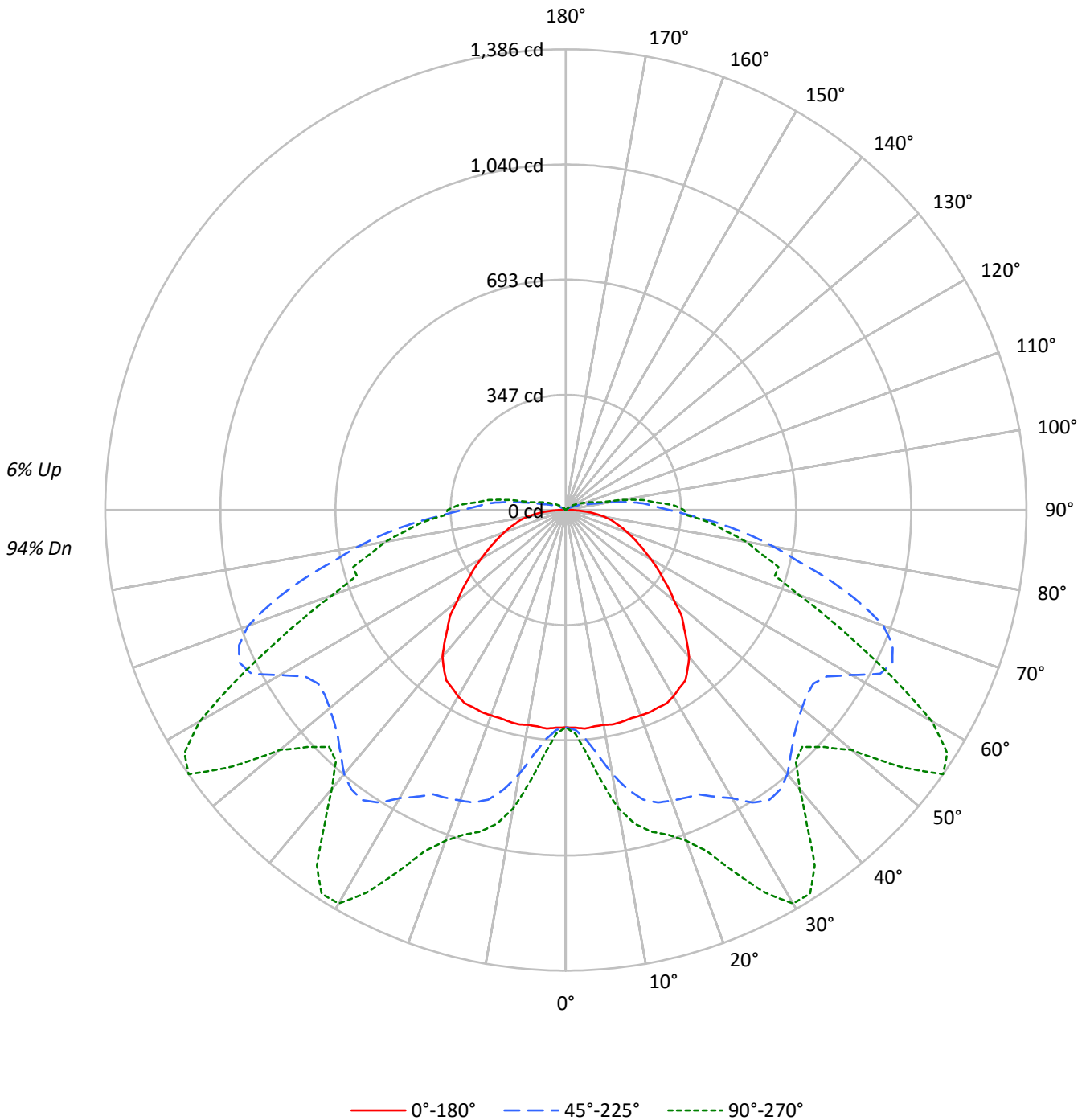
Lumens per Lamp: N/A  
Luminaire Lumens: 5051.2 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P798357  
CATALOG NUMBER: 4VT3-SL3C3-P-UNV-MID-4000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |    |    | 10 |    |    | 0  |    |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 96 | 96 | 96 | 94 |
| 1   | 103 | 96  | 90  | 85  | 99  | 93  | 88  | 83  | 88  | 83  | 79  | 82  | 79  | 75  | 78 | 75 | 72 | 78 | 75 | 72 | 69 |
| 2   | 91  | 81  | 72  | 65  | 88  | 78  | 70  | 64  | 74  | 67  | 61  | 69  | 64  | 59  | 65 | 60 | 56 | 65 | 60 | 56 | 54 |
| 3   | 82  | 69  | 59  | 52  | 79  | 67  | 58  | 51  | 63  | 55  | 49  | 59  | 53  | 47  | 56 | 50 | 45 | 56 | 50 | 45 | 43 |
| 4   | 74  | 60  | 50  | 42  | 71  | 58  | 49  | 41  | 55  | 47  | 40  | 52  | 44  | 39  | 49 | 42 | 37 | 49 | 42 | 37 | 35 |
| 5   | 68  | 53  | 43  | 35  | 65  | 51  | 42  | 35  | 48  | 40  | 34  | 46  | 38  | 33  | 43 | 37 | 32 | 43 | 37 | 32 | 29 |
| 6   | 62  | 47  | 37  | 30  | 60  | 46  | 36  | 29  | 43  | 35  | 29  | 41  | 33  | 28  | 39 | 32 | 27 | 39 | 32 | 27 | 25 |
| 7   | 57  | 42  | 33  | 26  | 55  | 41  | 32  | 25  | 39  | 31  | 25  | 37  | 30  | 24  | 35 | 28 | 23 | 35 | 28 | 23 | 21 |
| 8   | 53  | 38  | 29  | 23  | 51  | 37  | 28  | 22  | 35  | 27  | 22  | 33  | 26  | 21  | 32 | 25 | 21 | 32 | 25 | 21 | 18 |
| 9   | 49  | 35  | 26  | 20  | 48  | 34  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 29 | 23 | 18 | 29 | 23 | 18 | 16 |
| 10  | 46  | 32  | 23  | 18  | 44  | 31  | 23  | 18  | 30  | 22  | 17  | 28  | 22  | 17  | 27 | 21 | 16 | 27 | 21 | 16 | 14 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 3518 | 3518  | 3518  |
| 5°  | 3566 | 3738  | 3982  |
| 10° | 3586 | 4404  | 4980  |
| 15° | 3670 | 5025  | 5584  |
| 20° | 3766 | 5327  | 6062  |
| 25° | 3893 | 5605  | 7138  |
| 30° | 4023 | 6220  | 8494  |
| 35° | 4117 | 7004  | 8577  |
| 40° | 4055 | 7287  | 7692  |
| 45° | 3830 | 7375  | 7665  |
| 50° | 3569 | 7761  | 9398  |
| 55° | 3339 | 8539  | 13001 |
| 60° | 3178 | 10679 | 13694 |
| 65° | 3088 | 13807 | 12522 |
| 70° | 3097 | 16005 | 11726 |
| 75° | 3258 | 17201 | 13776 |
| 80° | 3670 | 19693 | 17093 |
| 85° | 3983 | 28523 | 26899 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 25°

Vertical Angle: 87.5°

Luminance: 56683 cd/sqm



TEST NUMBER: P798357  
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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.6   | 1.4       |
| 10°-20°   | 245.3  | 4.9       |
| 20°-30°   | 442.8  | 8.8       |
| 30°-40°   | 625.8  | 12.4      |
| 40°-50°   | 668.5  | 13.2      |
| 50°-60°   | 785.0  | 15.5      |
| 60°-70°   | 793.8  | 15.7      |
| 70°-80°   | 647.9  | 12.8      |
| 80°-90°   | 444.6  | 8.8       |
| 90°-100°  | 224.6  | 4.4       |
| 100°-110° | 66.6   | 1.3       |
| 110°-120° | 26.1   | 0.5       |
| 120°-130° | 9.3    | 0.2       |
| 130°-140° | 1.3    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 757.7  | 15.0      |
| 0°-40°    | 1383.5 | 27.4      |
| 0°-60°    | 2837.0 | 56.2      |
| 0°-90°    | 4723.3 | 93.5      |
| 90°-120°  | 317.3  | 6.3       |
| 90°-150°  | 327.9  | 6.5       |
| 90°-180°  | 328.0  | 6.5       |
| 0°-180°   | 5051.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 654 | 654   | 654  | 654   | 654  |      |
| 5°   | 660 | 668   | 692  | 724   | 737  | 63   |
| 15°  | 659 | 758   | 902  | 981   | 1002 | 187  |
| 25°  | 656 | 798   | 944  | 1119  | 1202 | 303  |
| 35°  | 627 | 739   | 1066 | 1294  | 1305 | 388  |
| 45°  | 503 | 661   | 969  | 1025  | 1007 | 389  |
| 55°  | 356 | 520   | 910  | 1254  | 1386 | 321  |
| 65°  | 242 | 441   | 1084 | 1068  | 983  | 241  |
| 75°  | 157 | 579   | 827  | 666   | 662  | 167  |
| 85°  | 64  | 496   | 462  | 438   | 436  | 64   |
| 90°  | 18  | 367   | 311  | 342   | 355  | 12   |
| 95°  | 12  | 186   | 233  | 269   | 268  | 10   |
| 105° | 6   | 19    | 68   | 91    | 89   | 7    |
| 115° | 2   | 2     | 27   | 47    | 47   | 3    |
| 125° | 1   | 1     | 7    | 21    | 23   | 1    |
| 135° | 0   | 0     | 0    | 4     | 4    | 0    |
| 145° | 0   | 0     | 0    | 0     | 0    | 0    |
| 155° | 0   | 0     | 0    | 0     | 0    | 0    |
| 165° | 0   | 0     | 0    | 0     | 0    | 0    |
| 175° | 0   | 0     | 0    | 0     | 0    | 0    |
| 180° | 0   | 0     | 0    | 0     | 0    | 0    |



TEST NUMBER: P798357

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-MID-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0°     | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7  |
| 2.5°   | 655.6 | 658.7 | 660.0 | 656.8 | 658.7 | 660.0 | 658.7 | 660.6 | 661.8 | 663.7 | 662.5  |
| 5°     | 660.0 | 659.3 | 662.5 | 659.3 | 663.1 | 668.1 | 670.6 | 677.5 | 680.6 | 688.8 | 691.9  |
| 7.5°   | 656.8 | 661.2 | 661.2 | 664.4 | 671.2 | 690.0 | 692.5 | 704.4 | 718.8 | 732.6 | 742.7  |
| 10°    | 656.2 | 661.2 | 670.0 | 678.8 | 690.7 | 706.3 | 717.0 | 738.9 | 765.8 | 785.9 | 805.9  |
| 12.5°  | 660.6 | 662.5 | 677.5 | 689.4 | 713.2 | 730.1 | 743.9 | 777.7 | 806.5 | 832.2 | 860.4  |
| 15°    | 658.7 | 663.7 | 680.6 | 701.3 | 735.1 | 757.7 | 772.1 | 813.4 | 848.5 | 873.6 | 901.9  |
| 17.5°  | 656.2 | 665.6 | 686.9 | 713.8 | 753.3 | 782.1 | 797.8 | 838.5 | 871.7 | 904.4 | 922.6  |
| 20°    | 657.5 | 668.1 | 692.5 | 729.5 | 768.3 | 795.9 | 812.2 | 854.2 | 886.7 | 914.4 | 930.1  |
| 22.5°  | 658.7 | 670.6 | 695.0 | 737.0 | 774.0 | 802.2 | 819.1 | 857.3 | 886.1 | 918.2 | 937.6  |
| 25°    | 655.6 | 668.7 | 698.2 | 732.6 | 777.7 | 797.8 | 815.3 | 852.3 | 883.0 | 920.0 | 943.8  |
| 27.5°  | 656.2 | 666.2 | 693.8 | 731.4 | 766.5 | 794.0 | 803.4 | 845.4 | 883.6 | 925.1 | 972.0  |
| 30°    | 647.4 | 659.3 | 689.4 | 715.7 | 750.2 | 775.9 | 790.3 | 836.6 | 886.7 | 941.3 | 1000.9 |
| 32.5°  | 635.4 | 648.1 | 675.0 | 693.8 | 734.5 | 756.4 | 777.1 | 835.4 | 900.6 | 968.9 | 1043.4 |
| 35°    | 626.6 | 630.4 | 643.7 | 664.4 | 710.1 | 738.9 | 765.2 | 835.4 | 911.9 | 987.1 | 1066.0 |
| 37.5°  | 602.2 | 604.1 | 615.4 | 646.2 | 687.5 | 728.2 | 757.7 | 836.0 | 916.3 | 989.6 | 1059.7 |
| 40°    | 577.2 | 577.8 | 589.7 | 620.4 | 667.5 | 712.6 | 745.2 | 827.8 | 903.8 | 971.4 | 1037.2 |
| 42.5°  | 539.6 | 544.6 | 561.5 | 592.2 | 652.5 | 690.7 | 728.2 | 802.2 | 872.9 | 939.5 | 1001.5 |
| 45°    | 503.2 | 510.1 | 523.9 | 560.2 | 622.3 | 660.6 | 697.6 | 769.6 | 834.7 | 906.9 | 968.9  |
| 47.5°  | 473.2 | 472.6 | 490.7 | 530.8 | 585.9 | 625.4 | 659.3 | 728.2 | 800.3 | 879.8 | 945.7  |
| 50°    | 426.2 | 436.2 | 455.6 | 495.7 | 547.7 | 590.9 | 621.0 | 689.4 | 767.1 | 846.6 | 926.9  |
| 52.5°  | 392.4 | 398.6 | 421.8 | 458.8 | 513.3 | 549.0 | 584.0 | 660.0 | 744.5 | 841.6 | 913.8  |
| 55°    | 355.9 | 364.1 | 388.0 | 424.9 | 485.7 | 520.2 | 555.9 | 640.4 | 738.9 | 834.7 | 910.0  |
| 57.5°  | 326.5 | 332.7 | 354.7 | 396.1 | 458.1 | 498.9 | 540.2 | 626.6 | 731.4 | 829.1 | 931.3  |
| 60°    | 295.2 | 301.4 | 329.6 | 371.0 | 436.8 | 479.4 | 518.9 | 615.4 | 728.9 | 852.3 | 992.1  |
| 62.5°  | 267.0 | 275.7 | 301.4 | 344.6 | 411.2 | 453.8 | 499.5 | 611.6 | 757.7 | 920.0 | 1066.6 |
| 65°    | 242.5 | 251.9 | 280.1 | 323.3 | 388.6 | 441.2 | 496.4 | 644.3 | 815.3 | 974.5 | 1084.2 |
| 67.5°  | 219.4 | 229.4 | 258.2 | 302.7 | 385.5 | 451.3 | 526.4 | 697.6 | 856.7 | 995.8 | 1064.1 |
| 70°    | 196.8 | 209.3 | 240.0 | 302.0 | 418.1 | 503.9 | 580.3 | 734.5 | 878.0 | 975.8 | 1017.1 |
| 72.5°  | 176.8 | 191.8 | 235.6 | 324.0 | 471.3 | 553.4 | 622.3 | 748.3 | 855.4 | 925.7 | 927.6  |
| 75°    | 156.7 | 179.9 | 244.4 | 361.6 | 505.8 | 579.0 | 642.4 | 736.4 | 814.7 | 848.5 | 827.2  |
| 77.5°  | 139.8 | 174.3 | 258.2 | 379.1 | 520.2 | 589.1 | 637.9 | 707.6 | 749.5 | 750.2 | 718.2  |
| 80°    | 118.4 | 161.7 | 254.4 | 379.1 | 512.6 | 576.5 | 618.5 | 656.2 | 667.5 | 658.7 | 635.4  |
| 82.5°  | 92.7  | 141.1 | 238.2 | 359.7 | 488.2 | 544.6 | 576.5 | 592.8 | 585.3 | 575.9 | 550.2  |
| 85°    | 64.5  | 113.4 | 210.6 | 334.0 | 448.7 | 495.7 | 522.0 | 522.0 | 502.6 | 475.1 | 461.9  |
| 87.5°  | 37.6  | 82.7  | 181.2 | 294.5 | 398.6 | 440.6 | 459.4 | 429.3 | 399.3 | 384.9 | 374.7  |
| 90°    | 18.2  | 55.1  | 146.1 | 259.5 | 343.4 | 367.2 | 367.8 | 328.4 | 307.7 | 310.2 | 310.8  |
| 92.5°  | 15.0  | 32.6  | 114.6 | 194.3 | 255.1 | 267.0 | 267.0 | 250.7 | 246.3 | 251.3 | 264.5  |
| 95°    | 12.5  | 13.8  | 60.1  | 129.2 | 174.3 | 185.5 | 191.8 | 195.6 | 207.5 | 221.9 | 233.1  |
| 97.5°  | 10.6  | 10.6  | 18.8  | 69.5  | 116.5 | 134.8 | 147.3 | 156.7 | 168.0 | 174.3 | 182.4  |
| 100°   | 8.8   | 8.8   | 10.0  | 23.2  | 65.1  | 82.1  | 91.5  | 97.7  | 107.7 | 118.4 | 130.4  |
| 102.5° | 7.5   | 7.5   | 7.5   | 11.9  | 24.4  | 31.9  | 40.1  | 53.9  | 65.1  | 78.9  | 89.6   |
| 105°   | 6.3   | 6.3   | 6.3   | 7.5   | 15.0  | 19.4  | 25.7  | 37.0  | 47.0  | 58.9  | 67.7   |
| 107.5° | 5.0   | 5.0   | 5.0   | 5.0   | 10.0  | 14.4  | 18.2  | 27.6  | 38.2  | 47.6  | 54.5   |
| 110°   | 3.8   | 3.8   | 3.8   | 4.4   | 6.3   | 9.4   | 12.5  | 20.7  | 28.8  | 37.0  | 44.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 25° | 30°  | 35°  | 40°  | 45°  |
|--------|-----|-----|-----|-----|-----|-------|-----|------|------|------|------|
| 112.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.8 | 5.0   | 8.1 | 15.0 | 21.3 | 28.2 | 34.5 |
| 115°   | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5   | 3.8 | 9.4  | 15.0 | 20.0 | 26.9 |
| 117.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9   | 1.9 | 5.0  | 10.6 | 15.7 | 20.0 |
| 120°   | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3   | 1.3 | 1.9  | 6.3  | 11.3 | 15.7 |
| 122.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3   | 1.3 | 0.6  | 2.5  | 6.9  | 11.3 |
| 125°   | 1.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6   | 0.6 | 0.6  | 0.6  | 3.1  | 6.9  |
| 127.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 2.5  |
| 130°   | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.6 | 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  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |



TEST NUMBER: P798357

CATALOG NUMBER: 4VT3-SL3C3-P-UNV-MID-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  |
| 2.5°   | 663.1  | 665.0  | 666.2  | 672.5  | 668.7  | 675.6  | 669.4  | 668.7  | 671.9  | 673.7  |
| 5°     | 700.7  | 710.1  | 717.6  | 726.4  | 723.9  | 728.2  | 727.6  | 727.6  | 741.4  | 737.0  |
| 7.5°   | 762.1  | 771.5  | 785.2  | 799.0  | 795.9  | 812.2  | 814.1  | 816.6  | 815.9  | 822.8  |
| 10°    | 825.3  | 843.5  | 857.3  | 879.8  | 878.0  | 887.3  | 900.0  | 896.1  | 906.3  | 911.3  |
| 12.5°  | 882.3  | 903.1  | 925.1  | 945.7  | 944.5  | 950.1  | 955.8  | 959.5  | 965.1  | 967.7  |
| 15°    | 925.1  | 945.1  | 963.9  | 982.7  | 980.8  | 988.3  | 991.5  | 994.6  | 1002.1 | 1002.1 |
| 17.5°  | 951.4  | 964.5  | 982.1  | 1002.7 | 1010.2 | 1014.0 | 1010.2 | 1020.9 | 1028.4 | 1024.0 |
| 20°    | 957.0  | 976.4  | 1004.0 | 1015.3 | 1027.8 | 1034.7 | 1038.4 | 1051.6 | 1051.0 | 1058.5 |
| 22.5°  | 968.3  | 994.6  | 1020.3 | 1055.3 | 1058.5 | 1075.4 | 1086.7 | 1100.4 | 1108.6 | 1110.5 |
| 25°    | 987.1  | 1029.0 | 1066.6 | 1105.5 | 1119.2 | 1139.9 | 1163.8 | 1180.8 | 1194.5 | 1202.0 |
| 27.5°  | 1025.9 | 1077.9 | 1134.9 | 1182.6 | 1190.8 | 1215.8 | 1250.3 | 1275.3 | 1288.5 | 1297.9 |
| 30°    | 1075.4 | 1136.8 | 1195.8 | 1245.9 | 1269.1 | 1290.4 | 1322.3 | 1334.8 | 1356.1 | 1366.8 |
| 32.5°  | 1111.1 | 1172.6 | 1235.2 | 1282.9 | 1304.8 | 1324.2 | 1342.4 | 1353.6 | 1358.0 | 1368.0 |
| 35°    | 1128.0 | 1186.4 | 1250.9 | 1277.8 | 1293.5 | 1299.8 | 1307.9 | 1306.0 | 1306.7 | 1305.4 |
| 37.5°  | 1119.2 | 1173.2 | 1212.7 | 1234.6 | 1237.8 | 1236.5 | 1227.1 | 1205.8 | 1190.1 | 1191.4 |
| 40°    | 1096.1 | 1141.2 | 1166.3 | 1165.7 | 1158.2 | 1146.8 | 1125.5 | 1098.6 | 1088.5 | 1094.8 |
| 42.5°  | 1067.2 | 1096.7 | 1100.4 | 1092.3 | 1074.1 | 1072.3 | 1042.2 | 1033.4 | 1023.4 | 1024.0 |
| 45°    | 1030.9 | 1047.8 | 1053.5 | 1035.9 | 1025.3 | 1023.4 | 1009.6 | 1004.6 | 1006.5 | 1007.1 |
| 47.5°  | 997.7  | 1015.9 | 1019.0 | 1014.6 | 1012.1 | 1015.9 | 1020.9 | 1033.4 | 1034.7 | 1055.3 |
| 50°    | 977.0  | 996.5  | 1017.8 | 1034.1 | 1040.3 | 1061.0 | 1089.2 | 1102.3 | 1118.0 | 1122.4 |
| 52.5°  | 972.7  | 1005.9 | 1057.2 | 1097.9 | 1128.0 | 1155.7 | 1189.5 | 1237.8 | 1253.4 | 1268.4 |
| 55°    | 985.2  | 1056.0 | 1138.0 | 1204.6 | 1254.0 | 1287.2 | 1333.6 | 1356.1 | 1372.4 | 1385.6 |
| 57.5°  | 1043.4 | 1154.4 | 1254.0 | 1301.0 | 1316.1 | 1333.0 | 1341.7 | 1348.0 | 1353.0 | 1360.5 |
| 60°    | 1137.4 | 1217.7 | 1271.0 | 1294.1 | 1299.8 | 1302.9 | 1297.3 | 1286.6 | 1276.6 | 1272.2 |
| 62.5°  | 1166.3 | 1213.3 | 1234.6 | 1224.6 | 1214.6 | 1206.4 | 1158.8 | 1138.7 | 1119.2 | 1124.9 |
| 65°    | 1148.1 | 1156.9 | 1132.4 | 1097.9 | 1068.5 | 1062.2 | 1019.6 | 1002.7 | 977.7  | 983.3  |
| 67.5°  | 1076.6 | 1047.8 | 1013.4 | 967.7  | 953.2  | 931.9  | 895.5  | 879.8  | 867.3  | 858.5  |
| 70°    | 1005.2 | 948.9  | 903.1  | 852.9  | 837.2  | 821.0  | 775.9  | 754.6  | 748.3  | 745.2  |
| 72.5°  | 887.3  | 832.9  | 780.2  | 737.6  | 725.7  | 705.7  | 685.7  | 666.2  | 658.7  | 659.3  |
| 75°    | 767.7  | 717.6  | 683.8  | 664.4  | 665.6  | 663.1  | 659.3  | 655.0  | 657.5  | 662.5  |
| 77.5°  | 678.1  | 650.6  | 646.8  | 649.9  | 646.8  | 641.8  | 617.9  | 608.5  | 597.2  | 599.1  |
| 80°    | 614.1  | 600.3  | 577.8  | 566.5  | 570.9  | 565.9  | 560.9  | 548.3  | 553.4  | 551.5  |
| 82.5°  | 532.7  | 522.0  | 512.6  | 503.9  | 504.5  | 500.1  | 486.3  | 482.6  | 475.7  | 485.7  |
| 85°    | 456.3  | 441.2  | 438.7  | 435.6  | 437.5  | 435.6  | 435.0  | 430.0  | 431.2  | 435.6  |
| 87.5°  | 378.5  | 377.2  | 376.6  | 373.5  | 371.6  | 370.3  | 368.4  | 366.6  | 366.6  | 365.9  |
| 90°    | 313.9  | 318.3  | 329.6  | 335.2  | 341.5  | 345.3  | 352.8  | 353.4  | 355.9  | 355.3  |
| 92.5°  | 278.2  | 291.4  | 309.6  | 320.2  | 324.0  | 324.6  | 329.6  | 327.1  | 325.8  | 325.2  |
| 95°    | 245.0  | 250.7  | 258.2  | 263.2  | 268.8  | 269.5  | 270.1  | 267.0  | 267.6  | 268.2  |
| 97.5°  | 191.2  | 199.3  | 208.7  | 219.4  | 224.4  | 223.7  | 230.0  | 229.4  | 229.4  | 232.5  |
| 100°   | 141.1  | 151.7  | 158.6  | 170.5  | 168.0  | 165.5  | 169.9  | 167.4  | 178.0  | 174.3  |
| 102.5° | 98.3   | 102.1  | 108.4  | 109.6  | 110.2  | 109.0  | 110.2  | 107.7  | 107.7  | 106.5  |
| 105°   | 75.2   | 80.8   | 86.4   | 90.2   | 90.8   | 90.8   | 91.5   | 89.6   | 89.6   | 88.9   |
| 107.5° | 62.0   | 67.7   | 72.0   | 74.5   | 77.7   | 77.0   | 78.3   | 77.7   | 78.3   | 77.0   |
| 110°   | 50.1   | 55.7   | 60.8   | 63.3   | 65.8   | 65.8   | 66.4   | 66.4   | 65.8   | 65.8   |





TEST NUMBER: P798357  
 CATALOG NUMBER: 4VT3-SL3C3-P-UNV-MID-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 50°  | 55°  | 60°  | 65°  | 67.5° | 70°  | 75°  | 80°  | 85°  | 90°  |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 40.7 | 45.7 | 49.5 | 53.2 | 55.1  | 55.7 | 55.7 | 56.4 | 56.4 | 56.4 |
| 115°   | 31.9 | 37.0 | 42.0 | 45.1 | 47.0  | 47.6 | 48.2 | 47.6 | 47.0 | 47.0 |
| 117.5° | 25.1 | 29.4 | 33.8 | 37.6 | 39.5  | 40.1 | 41.3 | 40.7 | 40.7 | 40.1 |
| 120°   | 20.0 | 23.8 | 28.2 | 31.3 | 32.6  | 33.8 | 35.1 | 34.5 | 33.8 | 34.5 |
| 122.5° | 15.7 | 18.8 | 22.6 | 25.7 | 26.9  | 27.6 | 28.2 | 27.6 | 28.2 | 27.6 |
| 125°   | 11.3 | 14.4 | 17.5 | 20.0 | 21.3  | 22.6 | 23.2 | 22.6 | 22.6 | 22.6 |
| 127.5° | 6.3  | 9.4  | 12.5 | 15.0 | 16.3  | 16.9 | 18.2 | 17.5 | 16.9 | 16.9 |
| 130°   | 1.9  | 5.6  | 8.8  | 10.6 | 11.9  | 13.2 | 13.2 | 13.2 | 12.5 | 11.9 |
| 132.5° | 0.0  | 1.3  | 4.4  | 6.9  | 8.1   | 8.8  | 8.8  | 8.8  | 8.1  | 8.1  |
| 135°   | 0.0  | 0.0  | 0.6  | 2.5  | 3.8   | 4.4  | 5.0  | 4.4  | 4.4  | 3.8  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)