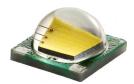
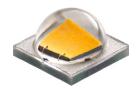


## Cree® XLamp® XM Family LEDs







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### **INTRODUCTION**

This document describes the product nomenclature required to select and order Cree's XLamp® XM family of LEDs. XLamp XM family LEDs are tested and sorted into bins which are then combined into orderable kits identified by an order code.

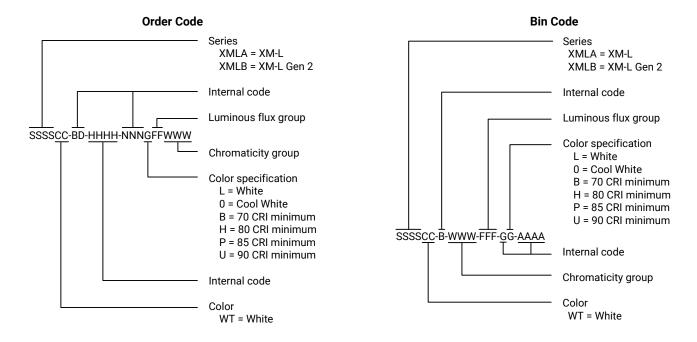
All XLamp LEDs are tested and sorted by color and brightness into a unique bin. Each bin contains LEDs from only one color and brightness group and is uniquely identified by a bin code. White XLamp LEDs are sorted by chromaticity (color) and luminous flux (brightness). High Voltage White XLamp LEDs are sorted by chromaticity, luminous flux and voltage. LEDs are shipped on reels containing LEDs from one bin and are always labeled with the appropriate bin code.

Kits contain LEDs from a number of similar bins and are fully defined by their order codes. A full explanation of the order codes for XLamp XM family LEDs, as well as a list of standard order codes, is provided in this document.

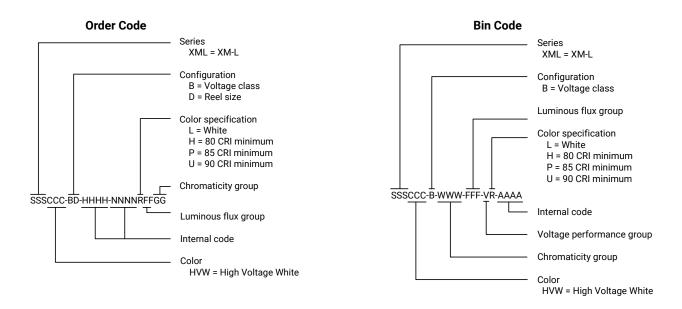


### **BIN AND ORDER CODE FORMATS**

Bin codes and order codes for XM-L and XM-L2 White LEDs are configured in the following manner:



Bin codes and order codes for XM-L High Voltage White LEDs are configured in the following manner:





### **PERFORMANCE GROUPS - LUMINOUS FLUX**

XLamp XM-L and XM-L2 White LEDs are tested for luminous flux and placed into one of the following luminous-flux groups:

| Group Code | Min. Luminous Flux<br>@ 700 mA (lm) | Max. Luminous Flux<br>@ 700 mA (lm) |
|------------|-------------------------------------|-------------------------------------|
| S2         | 148                                 | 156                                 |
| S3         | 156                                 | 164                                 |
| S4         | 164                                 | 172                                 |
| S5         | 172                                 | 182                                 |
| S6         | 182                                 | 200                                 |
| T2         | 200                                 | 220                                 |
| T3         | 220                                 | 240                                 |
| T4         | 240                                 | 260                                 |
| T5         | 260                                 | 280                                 |
| T6         | 280                                 | 300                                 |
| U2         | 300                                 | 320                                 |
| U3         | 320                                 | 340                                 |
| U4         | 340                                 | 360                                 |

XLamp XM-L High Voltage White LEDs are tested for luminous flux and placed into one of the following luminous-flux groups:

| Group Code | Min. Luminous Flux<br>@ 44 mA (lm) | Max. Luminous Flux<br>@ 44 mA (lm) |
|------------|------------------------------------|------------------------------------|
| R5         | 139                                | 148                                |
| S2         | 148                                | 156                                |
| S3         | 156                                | 164                                |
| S4         | 164                                | 172                                |
| S5         | 172                                | 182                                |
| S6         | 182                                | 200                                |
| T2         | 200                                | 220                                |
| T3         | 220                                | 240                                |
| T4         | 240                                | 260                                |
| T5         | 260                                | 280                                |
| T6         | 280                                | 300                                |



### PERFORMANCE GROUPS - CHROMATICITY

| Region   | х      | у      | Region    | х      | у      | Region | Х      | у      | Region | х      | у      |
|----------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|
|          | 0.2950 | 0.2970 | _         | 0.2920 | 0.3060 |        | 0.2984 | 0.3133 | -      | 0.2984 | 0.3133 |
|          | 0.2920 | 0.3060 |           | 0.2895 | 0.3135 |        | 0.2962 | 0.3220 |        | 0.3048 | 0.3207 |
| 0A       | 0.2984 | 0.3133 | 0B        | 0.2962 | 0.3220 | 0C     | 0.3028 | 0.3304 | 0D     | 0.3068 | 0.3113 |
|          | 0.3009 | 0.3042 |           | 0.2984 | 0.3133 |        | 0.3048 | 0.3207 |        | 0.3009 | 0.3042 |
|          | 0.2980 | 0.2880 |           | 0.2895 | 0.3135 |        | 0.2962 | 0.3220 |        | 0.3037 | 0.2937 |
|          | 0.2950 | 0.2970 |           | 0.2870 | 0.3210 |        | 0.2937 | 0.3312 |        | 0.3009 | 0.3042 |
| 0R       | 0.3009 | 0.3042 | 08        | 0.2937 | 0.3312 | 0T     | 0.3005 | 0.3415 | 0U     | 0.3068 | 0.3113 |
|          | 0.3037 | 0.2937 |           | 0.2962 | 0.3220 |        | 0.3028 | 0.3304 |        | 0.3093 | 0.2993 |
|          | 0.3048 | 0.3207 |           | 0.3028 | 0.3304 |        | 0.3115 | 0.3391 |        | 0.3130 | 0.3290 |
|          | 0.3130 | 0.3290 | 45        | 0.3115 | 0.3391 | 10     | 0.3205 | 0.3481 | 40     | 0.3213 | 0.3373 |
| 1A       | 0.3144 | 0.3186 | 1B        | 0.3130 | 0.3290 | 1C     | 0.3213 | 0.3373 | 1D     | 0.3221 | 0.3261 |
|          | 0.3068 | 0.3113 |           | 0.3048 | 0.3207 |        | 0.3130 | 0.3290 |        | 0.3144 | 0.3186 |
|          | 0.3068 | 0.3113 |           | 0.3005 | 0.3415 |        | 0.3099 | 0.3509 |        | 0.3144 | 0.3186 |
| 15       | 0.3144 | 0.3186 | 10        | 0.3099 | 0.3509 | 4.7    | 0.3196 | 0.3602 | 411    | 0.3221 | 0.3261 |
| 1R       | 0.3161 | 0.3059 | 18        | 0.3115 | 0.3391 | 1T     | 0.3205 | 0.3481 | 10     | 0.3231 | 0.3120 |
|          | 0.3093 | 0.2993 |           | 0.3028 | 0.3304 |        | 0.3115 | 0.3391 |        | 0.3161 | 0.3059 |
|          | 0.3215 | 0.3350 |           | 0.3207 | 0.3462 |        | 0.3290 | 0.3538 |        | 0.3290 | 0.3417 |
| 2A       | 0.3290 | 0.3417 | O.D.      | 0.3290 | 0.3538 | 00     | 0.3376 | 0.3616 | 2D     | 0.3371 | 0.3490 |
| ZA       | 0.3290 | 0.3300 | 2B        | 0.3290 | 0.3417 | 2C     | 0.3371 | 0.3490 | 20     | 0.3366 | 0.3369 |
|          | 0.3222 | 0.3243 |           | 0.3215 | 0.3350 |        | 0.3290 | 0.3417 |        | 0.3290 | 0.3300 |
|          | 0.3222 | 0.3243 |           | 0.3196 | 0.3602 |        | 0.3290 | 0.3690 |        | 0.3290 | 0.3300 |
| 2R       | 0.3290 | 0.3300 | 2S        | 0.3290 | 0.3690 | 2T     | 0.3381 | 0.3762 | 2U     | 0.3366 | 0.3369 |
| ZIV      | 0.3290 | 0.3180 | 20        | 0.3290 | 0.3538 | 21     | 0.3376 | 0.3616 | 20     | 0.3361 | 0.3245 |
|          | 0.3231 | 0.3120 |           | 0.3207 | 0.3462 |        | 0.3290 | 0.3538 |        | 0.3290 | 0.3180 |
|          | 0.3371 | 0.3490 |           | 0.3376 | 0.3616 |        | 0.3463 | 0.3687 |        | 0.3451 | 0.3554 |
| 3A       | 0.3451 | 0.3554 | 3B        | 0.3463 | 0.3687 | 3C     | 0.3551 | 0.3760 | 3D     | 0.3533 | 0.3620 |
| 0/1      | 0.3440 | 0.3427 | OD.       | 0.3451 | 0.3554 |        | 0.3533 | 0.3620 | OD     | 0.3515 | 0.3487 |
|          | 0.3366 | 0.3369 |           | 0.3371 | 0.3490 |        | 0.3451 | 0.3554 |        | 0.3440 | 0.3427 |
|          | 0.3366 | 0.3369 |           | 0.3381 | 0.3762 |        | 0.3480 | 0.3840 |        | 0.3440 | 0.3428 |
| 3R       | 0.3440 | 0.3428 | 3S        | 0.3480 | 0.3840 | 3T     | 0.3571 | 0.3907 | 3U     | 0.3515 | 0.3487 |
| <b>5</b> | 0.3429 | 0.3307 |           | 0.3463 | 0.3687 |        | 0.3551 | 0.3760 |        | 0.3495 | 0.3339 |
|          | 0.3361 | 0.3245 |           | 0.3376 | 0.3616 |        | 0.3463 | 0.3687 |        | 0.3429 | 0.3307 |
|          | 0.3530 | 0.3597 |           | 0.3548 | 0.3736 |        | 0.3641 | 0.3804 |        | 0.3615 | 0.3659 |
| 4A       | 0.3615 | 0.3659 | 4B        | 0.3641 | 0.3804 | 4C     | 0.3736 | 0.3874 | 4D     | 0.3702 | 0.3722 |
|          | 0.3590 | 0.3521 | 4B 0.3615 | 0.3615 | 0.3659 |        | 0.3702 | 0.3722 |        | 0.3670 | 0.3578 |
|          | 0.3512 | 0.3465 |           | 0.3530 | 0.3597 |        | 0.3615 | 0.3659 |        | 0.3590 | 0.3521 |
|          | 0.3512 | 0.3465 |           | 0.3571 | 0.3907 |        | 0.3668 | 0.3957 |        | 0.3590 | 0.3521 |
| 4R       | 0.3590 | 0.3521 | 48        | 0.3668 | 0.3957 | 4T     | 0.3771 | 0.4034 | 4U     | 0.3670 | 0.3578 |
|          | 0.3567 | 0.3389 |           | 0.3641 | 0.3804 |        | 0.3736 | 0.3874 |        | 0.3640 | 0.3440 |
|          | 0.3495 | 0.3339 |           | 0.3548 | 0.3736 |        | 0.3641 | 0.3804 |        | 0.3567 | 0.3389 |



## PERFORMANCE GROUPS - CHROMATICITY (CONTINUED)

| Region | х             | у      | Region | х        | у      | Region | х      | у      | Region       | х      | у      |
|--------|---------------|--------|--------|----------|--------|--------|--------|--------|--------------|--------|--------|
|        | 0.3670        | 0.3578 |        | 0.3686   | 0.3649 |        | 0.3744 | 0.3685 |              | 0.3726 | 0.3612 |
|        | 0.3686        | 0.3649 |        | 0.3702   | 0.3722 |        | 0.3763 | 0.3760 |              | 0.3744 | 0.3685 |
| 5A1    | 0.3744        | 0.3685 | 5A2    | 0.3763   | 0.3760 | 5A3    | 0.3825 | 0.3798 | 5A4          | 0.3804 | 0.3721 |
|        | 0.3726        | 0.3612 |        | 0.3744   | 0.3685 |        | 0.3804 | 0.3721 |              | 0.3783 | 0.3646 |
|        | 0.3702        | 0.3722 |        | 0.3719   | 0.3797 |        | 0.3782 | 0.3837 |              | 0.3763 | 0.3760 |
|        | 0.3719        | 0.3797 |        | 0.3736   | 0.3874 |        | 0.3802 | 0.3916 |              | 0.3782 | 0.3837 |
| 5B1    | 0.3782        | 0.3837 | 5B2    | 0.3802   | 0.3916 | 5B3    | 0.3869 | 0.3958 | 5B4          | 0.3847 | 0.3877 |
|        | 0.3763        | 0.3760 |        | 0.3782   | 0.3837 |        | 0.3847 | 0.3877 |              | 0.3825 | 0.3798 |
|        | 0.3825        | 0.3798 |        | 0.3847   | 0.3877 |        | 0.3912 | 0.3917 |              | 0.3887 | 0.3836 |
| F01    | 0.3847        | 0.3877 | 500    | 0.3869   | 0.3958 | 500    | 0.3937 | 0.4001 | 504          | 0.3912 | 0.3917 |
| 5C1    | 0.3912        | 0.3917 | 5C2    | 0.3937   | 0.4001 | 5C3    | 0.4006 | 0.4044 | 5C4          | 0.3978 | 0.3958 |
|        | 0.3887        | 0.3836 |        | 0.3912   | 0.3917 |        | 0.3978 | 0.3958 |              | 0.3950 | 0.3875 |
|        | 0.3783        | 0.3646 |        | 0.3804   | 0.3721 |        | 0.3863 | 0.3758 |              | 0.3840 | 0.3681 |
| 504    | 0.3804        | 0.3721 | 500    | 0.3825   | 0.3798 | 500    | 0.3887 | 0.3836 | <b>50.</b> 4 | 0.3863 | 0.3758 |
| 5D1    | 0.3863        | 0.3758 | 5D2    | 0.3887   | 0.3836 | 5D3    | 0.3950 | 0.3875 | 5D4          | 0.3924 | 0.3794 |
|        | 0.3840        | 0.3681 |        | 0.3863   | 0.3758 |        | 0.3924 | 0.3794 |              | 0.3898 | 0.3716 |
|        | 0.3889        | 0.3690 |        | 0.3915   | 0.3768 |        | 0.3981 | 0.3800 |              | 0.3953 | 0.3720 |
| CA1    | 0.3915 0.3768 | 0.3768 | 640    | 0.3941 0 | 0.3848 | 6A3    | 0.4010 | 0.3882 | 6A4          | 0.3981 | 0.3800 |
| 6A1    | 0.3981        | 0.3800 | 6A2    | 0.4010   | 0.3882 |        | 0.4080 | 0.3916 |              | 0.4048 | 0.3832 |
|        | 0.3953        | 0.3720 |        | 0.3981   | 0.3800 |        | 0.4048 | 0.3832 |              | 0.4017 | 0.3751 |
|        | 0.3941        | 0.3848 |        | 0.3968   | 0.3930 |        | 0.4040 | 0.3966 |              | 0.4010 | 0.3882 |
| 6B1    | 0.3968        | 0.3930 | 6B2    | 0.3996   | 0.4015 | 600    | 0.4071 | 0.4052 | 6B4          | 0.4040 | 0.3966 |
| 061    | 0.4040        | 0.3966 | 0BZ    | 0.4071   | 0.4052 | 6B3    | 0.4146 | 0.4089 | 004          | 0.4113 | 0.4001 |
|        | 0.4010        | 0.3882 |        | 0.4040   | 0.3966 |        | 0.4113 | 0.4001 |              | 0.4080 | 0.3916 |
|        | 0.4080        | 0.3916 |        | 0.4113   | 0.4001 |        | 0.4186 | 0.4037 |              | 0.4150 | 0.3950 |
| 6C1    | 0.4113        | 0.4001 | 6C2    | 0.4146   | 0.4089 | 6C3    | 0.4222 | 0.4127 | 6C4          | 0.4186 | 0.4037 |
| 001    | 0.4186        | 0.4037 | 002    | 0.4222   | 0.4127 | 003    | 0.4299 | 0.4165 | 004          | 0.4259 | 0.4073 |
|        | 0.4150        | 0.3950 |        | 0.4186   | 0.4037 |        | 0.4259 | 0.4073 |              | 0.4221 | 0.3984 |
|        | 0.4017        | 0.3751 |        | 0.4048   | 0.3832 |        | 0.4116 | 0.3865 |              | 0.4082 | 0.3782 |
| 6D1    | 0.4048        | 0.3832 | 6D2    | 0.4080   | 0.3916 | 6D3    | 0.4150 | 0.3950 | 6D4          | 0.4116 | 0.3865 |
| 6D1    | 0.4116        | 0.3865 | 002    | 0.4150   | 0.3950 | 003    | 0.4221 | 0.3984 | 0D4          | 0.4183 | 0.3898 |
|        | 0.4082        | 0.3782 |        | 0.4116   | 0.3865 |        | 0.4183 | 0.3898 |              | 0.4147 | 0.3814 |
|        | 0.4147        | 0.3814 |        | 0.4183   | 0.3898 |        | 0.4242 | 0.3919 |              | 0.4203 | 0.3833 |
| 7A1    | 0.4183        | 0.3898 | 7A2    | 0.4221   | 0.3984 | 7A3    | 0.4281 | 0.4006 | 7A4          | 0.4242 | 0.3919 |
| /AI    | 0.4242        | 0.3919 | TAL    | 0.4281   | 0.4006 | /A3    | 0.4342 | 0.4028 | /A4          | 0.4300 | 0.3939 |
|        | 0.4203        | 0.3833 |        | 0.3919   |        | 0.4300 | 0.3939 |        | 0.4259       | 0.353  |        |
|        | 0.4221        | 0.3984 |        | 0.4259   | 0.4073 |        | 0.4322 | 0.4096 |              | 0.4281 | 0.4006 |
| 7B1    | 0.4259        | 0.4073 | 7B2    | 0.4299   | 0.4165 | 7B3    | 0.4364 | 0.4188 | 7B4          | 0.4322 | 0.4096 |
| 761    | 0.4322        | 0.4096 | 702    | 0.4364   | 0.4188 | 703    | 0.4430 | 0.4212 | 704          | 0.4385 | 0.4119 |
|        | 0.4281        | 0.4006 |        | 0.4322   | 0.4096 |        | 0.4385 | 0.4119 |              | 0.4342 | 0.4028 |



## PERFORMANCE GROUPS - CHROMATICITY (CONTINUED)

| Region | Х      | у      | Region | Х      | у      | Region | X      | у      | Region | Х      | у      |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | 0.4342 | 0.4028 |        | 0.4385 | 0.4119 |        | 0.4449 | 0.4141 |        | 0.4403 | 0.4049 |
| 7C1    | 0.4385 | 0.4119 | 7C2    | 0.4430 | 0.4212 | 7C3    | 0.4496 | 0.4236 | 7C4    | 0.4449 | 0.4141 |
| 701    | 0.4449 | 0.4141 | 762    | 0.4496 | 0.4236 | 703    | 0.4562 | 0.4260 | 704    | 0.4513 | 0.4164 |
|        | 0.4403 | 0.4049 |        | 0.4449 | 0.4141 |        | 0.4513 | 0.4164 |        | 0.4465 | 0.4071 |
|        | 0.4259 | 0.3853 |        | 0.4300 | 0.3939 |        | 0.4359 | 0.3960 |        | 0.4316 | 0.3873 |
| 7D1    | 0.4300 | 0.3939 | 7D2    | 0.4342 | 0.4028 | 7D3    | 0.4403 | 0.4049 | 7D4    | 0.4359 | 0.3960 |
| 701    | 0.4359 | 0.3960 | 702    | 0.4403 | 0.4049 | 703    | 0.4465 | 0.4071 | 704    | 0.4418 | 0.3981 |
|        | 0.4316 | 0.3873 |        | 0.4359 | 0.3960 |        | 0.4418 | 0.3981 |        | 0.4373 | 0.3893 |
|        | 0.4373 | 0.3893 |        | 0.4418 | 0.3981 |        | 0.4475 | 0.3994 |        | 0.4428 | 0.3906 |
| 8A1    | 0.4418 | 0.3981 | 8A2    | 0.4465 | 0.4071 | 8A3    | 0.4523 | 0.4085 | 8A4    | 0.4475 | 0.3994 |
| OAT    | 0.4475 | 0.3994 | 8AZ    | 0.4523 | 0.4085 | OAS    | 0.4582 | 0.4099 | 0A4    | 0.4532 | 0.4008 |
|        | 0.4428 | 0.3906 |        | 0.4475 | 0.3994 |        | 0.4532 | 0.4008 |        | 0.4483 | 0.3919 |
|        | 0.4465 | 0.4071 |        | 0.4513 | 0.4164 |        | 0.4573 | 0.4178 |        | 0.4523 | 0.4085 |
| 8B1    | 0.4513 | 0.4164 | 8B2    | 0.4562 | 0.4260 | 8B3    | 0.4624 | 0.4274 | 8B4    | 0.4573 | 0.4178 |
| 001    | 0.4573 | 0.4178 | ODZ    | 0.4624 | 0.4274 | 003    | 0.4687 | 0.4289 | 8D4    | 0.4634 | 0.4193 |
|        | 0.4523 | 0.4085 |        | 0.4573 | 0.4178 |        | 0.4634 | 0.4193 |        | 0.4582 | 0.4099 |
|        | 0.4582 | 0.4099 |        | 0.4634 | 0.4193 |        | 0.4695 | 0.4207 |        | 0.4641 | 0.4112 |
| 8C1    | 0.4634 | 0.4193 | 8C2    | 0.4687 | 0.4289 | 8C3    | 0.4750 | 0.4304 | 8C4    | 0.4695 | 0.4207 |
| 801    | 0.4695 | 0.4207 | 862    | 0.4750 | 0.4304 | 863    | 0.4813 | 0.4319 | 804    | 0.4756 | 0.4221 |
|        | 0.4641 | 0.4112 |        | 0.4695 | 0.4207 |        | 0.4756 | 0.4221 |        | 0.4700 | 0.4126 |
|        | 0.4483 | 0.3919 |        | 0.4532 | 0.4008 |        | 0.4589 | 0.4021 |        | 0.4538 | 0.3931 |
| 8D1    | 0.4532 | 0.4008 | 8D2    | 0.4582 | 0.4099 | 8D3    | 0.4641 | 0.4112 | 8D4    | 0.4589 | 0.4021 |
| ועס    | 0.4589 | 0.4021 | δDZ    | 0.4641 | 0.4112 | 803    | 0.4700 | 0.4126 | 804    | 0.4646 | 0.4034 |
|        | 0.4538 | 0.3931 |        | 0.4589 | 0.4021 |        | 0.4646 | 0.4034 |        | 0.4593 | 0.3944 |

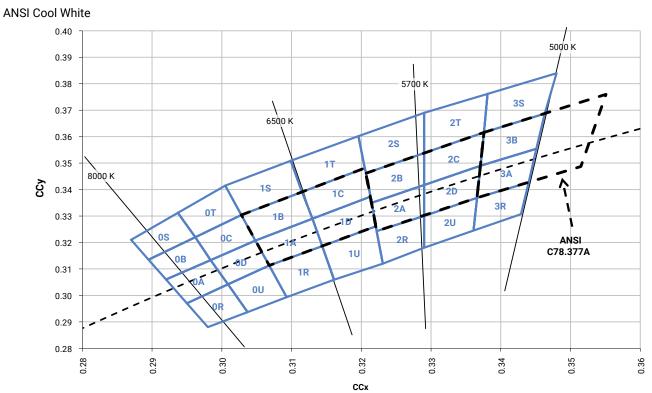
### **PERFORMANCE GROUPS - VOLTAGE**

XLamp XM-L High Voltage White LEDs are classified into one of the following voltage classes:

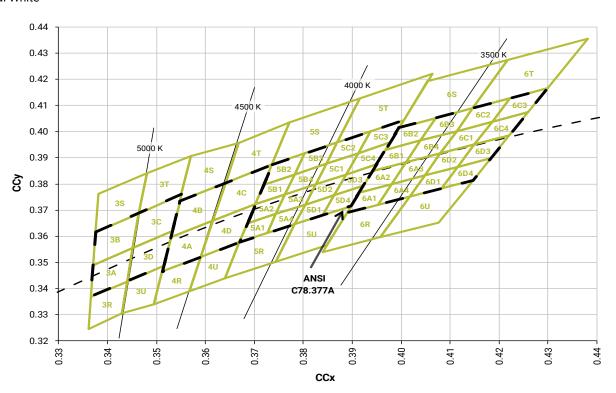
| Forward Voltage Class | Minimum Forward<br>Voltage @ 44 mA (V)<br>Tj = 85 °C | Maximum Forward<br>Voltage @ 44 mA (V)<br>Tj= 85 °C |
|-----------------------|------------------------------------------------------|-----------------------------------------------------|
| 0                     | No volt                                              | age bin                                             |
| 1                     | 40.0                                                 | 42.5                                                |
| 2                     | 42.5                                                 | 45.0                                                |
| 3                     | 45.0                                                 | 47.5                                                |
| 4                     | 47.5                                                 | 50.0                                                |
| 5                     | 50.0                                                 | 52.5                                                |
| 6                     | 52.5                                                 | 55.0                                                |



### CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE



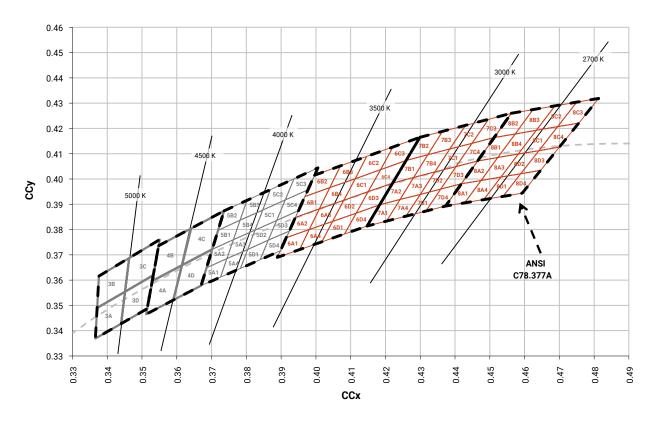
### **Neutral White**





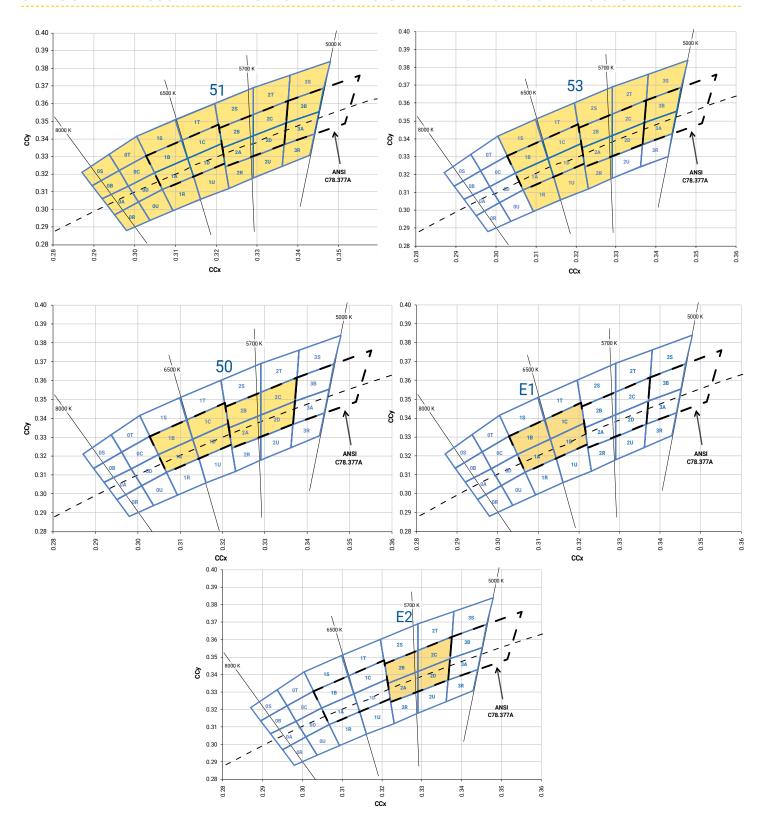
### CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE - CONTINUED

#### ANSI Neutral White and ANSI warm white



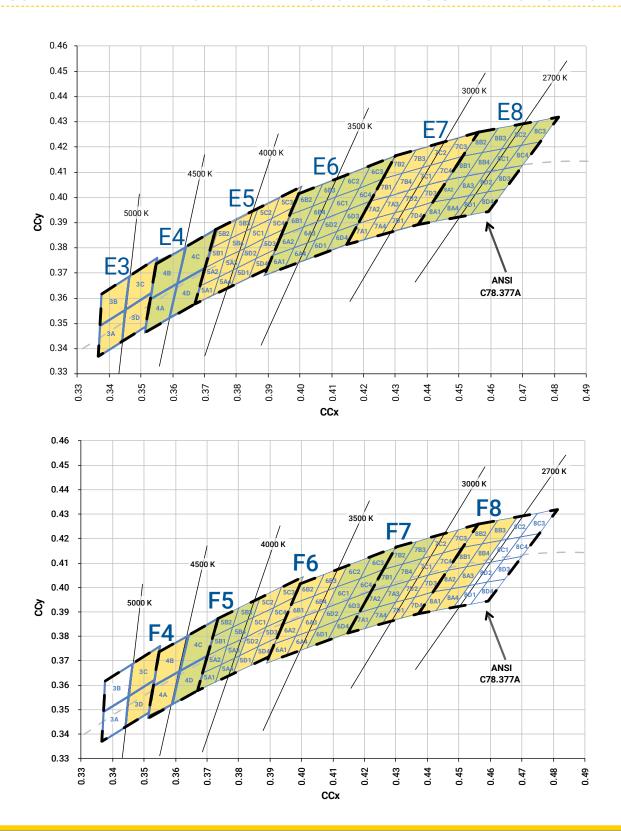
# CREE 💠

### CREE'S STANDARD COOL WHITE KITS PLOTTED ON ANSI STANDARD CHROMATICITY REGIONS



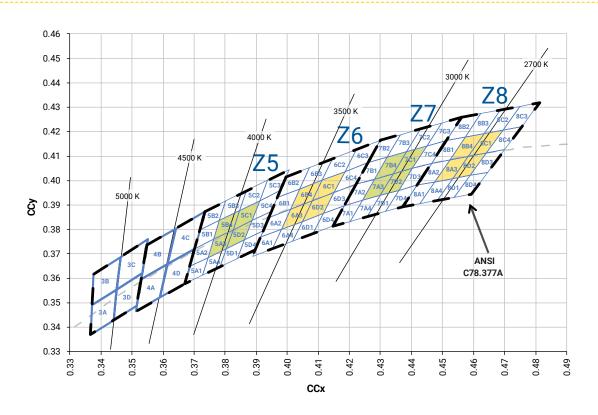
# CREE 💠

### CREE'S STANDARD WARM AND NEUTRAL WHITE KITS PLOTTED ON ANSI STANDARD CHROMATICITY REGIONS





# CREE'S STANDARD WARM AND NEUTRAL WHITE KITS PLOTTED ON ANSI STANDARD CHROMATICITY REGIONS - CONTINUED





### **CREE'S STANDARD CHROMATICITY KITS**

The following table provides the chromaticity bins associated with chromaticity kits.

| Color         | ССТ    | Kit        | Chromaticity Bins                                                                                              |
|---------------|--------|------------|----------------------------------------------------------------------------------------------------------------|
|               | 6200 K | 51         | 0A, 0B, 0C, 0D, 0R, 0S, 0T, 0U, 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 2U, 3A, 3B, 3R, 3S |
|               | 6000 K | 53         | 1A, 1B, 1C, 1D, 1R, 1S, 1T, 1U, 2A, 2B, 2C, 2D, 2R, 2S, 2T, 3A, 3B, 3S                                         |
| Cool<br>White | 6200 K | 50         | 1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D                                                                                 |
|               | 6500 K | E1         | 1A, 1B, 1C, 1D                                                                                                 |
|               | 5700 K | E2         | 2A, 2B, 2C, 2D                                                                                                 |
|               | 5000 K | E3         | 3A, 3B, 3C, 3D                                                                                                 |
|               | 4750 K | F4         | 3C, 3D, 4A, 4B                                                                                                 |
| Neutral       | 4500 K | E4         | 4A, 4B, 4C, 4D                                                                                                 |
| White         | 4250 K | F5         | 4C, 4D, 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4                                                                 |
|               | 4000 K | E5         | 5A1, 5A2, 5A3, 5A4, 5B1, 5B2, 5B3, 5B4, 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4                                 |
|               | 4000 K | Z5         | 5A3, 5B4, 5C1, 5D2                                                                                             |
|               | 3750 K | F6         | 5C1, 5C2, 5C3, 5C4, 5D1, 5D2, 5D3, 5D4, 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4                                 |
|               | 3500 K | E6         | 6A1, 6A2, 6A3, 6A4, 6B1, 6B2, 6B3, 6B4, 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4                                 |
|               | 3500 K | Z6         | 6A3, 6B4, 6C1, 6D2                                                                                             |
|               | 3250 K | F7         | 6C1, 6C2, 6C3, 6C4, 6D1, 6D2, 6D3, 6D4, 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4                                 |
| Warm<br>White | 3000 K | E7         | 7A1, 7A2, 7A3, 7A4, 7B1, 7B2, 7B3, 7B4, 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4                                 |
|               | 3000 K | <b>Z</b> 7 | 7A3, 7B4, 7C1, 7D2                                                                                             |
|               | 2850 K | F8         | 7C1, 7C2, 7C3, 7C4, 7D1, 7D2, 7D3, 7D4, 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4                                 |
|               | 2700 K | E8         | 8A1, 8A2, 8A3, 8A4, 8B1, 8B2, 8B3, 8B4, 8C1, 8C2, 8C3, 8C4, 8D1, 8D2, 8D3, 8D4                                 |
|               | 2700 K | Z8         | 8A3, 8B4, 8C1, 8D2                                                                                             |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



The following tables of order codes list flux minimums and chromaticity regions for XLamp XM family LEDs. For other flux and chromaticity combinations, contact Cree or an authorized distributor.

### STANDARD ORDER CODES AND BINS (XM-L ANSI COOL WHITE, T, = 25 °C)

|       | XLamp XM-L LED Standard Order Codes - White |      |                             |                          |  |  |  |  |  |  |
|-------|---------------------------------------------|------|-----------------------------|--------------------------|--|--|--|--|--|--|
| Chron | Chromaticity                                |      | um Luminous<br>n) @ 700 mA* | Order Codes              |  |  |  |  |  |  |
| Kit   | ССТ                                         | Code | Flux (lm)                   | 65 CRI Typical           |  |  |  |  |  |  |
|       |                                             | ANSI | Cool White (500             | 0 K – 8300 K)            |  |  |  |  |  |  |
|       |                                             | U2   | 300                         | XMLAWT-00-0000-0000U2051 |  |  |  |  |  |  |
| 51    | 6200 K                                      | T6   | 280                         | XMLAWT-00-0000-0000T6051 |  |  |  |  |  |  |
|       |                                             | T5   | 260                         | XMLAWT-00-0000-0000T5051 |  |  |  |  |  |  |
|       |                                             | U2   | 300                         | XMLAWT-00-0000-0000U2053 |  |  |  |  |  |  |
| 53    | 6000 K                                      | T6   | 280                         | XMLAWT-00-0000-0000T6053 |  |  |  |  |  |  |
|       |                                             | T5   | 260                         | XMLAWT-00-0000-0000T5053 |  |  |  |  |  |  |
|       |                                             | U2   | 300                         | XMLAWT-00-0000-0000U2050 |  |  |  |  |  |  |
| 50    | 6200 K                                      | T6   | 280                         | XMLAWT-00-0000-0000T6050 |  |  |  |  |  |  |
|       |                                             | T5   | 260                         | XMLAWT-00-0000-0000T5050 |  |  |  |  |  |  |
|       |                                             | U2   | 300                         | XMLAWT-00-0000-0000U20E1 |  |  |  |  |  |  |
| E1    | 6500 K                                      | T6   | 280                         | XMLAWT-00-0000-0000T60E1 |  |  |  |  |  |  |
|       |                                             | T5   | 260                         | XMLAWT-00-0000-0000T50E1 |  |  |  |  |  |  |
|       |                                             | U2   | 300                         | XMLAWT-00-0000-0000U20E2 |  |  |  |  |  |  |
| E2    | 5700 K                                      | T6   | 280                         | XMLAWT-00-0000-0000T60E2 |  |  |  |  |  |  |
|       |                                             | T5   | 260                         | XMLAWT-00-0000-0000T50E2 |  |  |  |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L ANSI NEUTRAL WHITE, T, = 25 °C)

|            | XLamp XM-L LED Standard Kit Codes - White |                |                         |                                   |                          |  |  |  |  |
|------------|-------------------------------------------|----------------|-------------------------|-----------------------------------|--------------------------|--|--|--|--|
| Chro       | maticity                                  |                | n Luminous<br>@ 700 mA* | r Codes                           |                          |  |  |  |  |
| Kit        | ССТ                                       | Code Flux (lm) |                         | 75 CRI Typical                    | 80 CRI Minimum           |  |  |  |  |
|            |                                           |                | ANS                     | I Neutral White (3700 K – 5000 K) |                          |  |  |  |  |
|            |                                           | Т6             | 280                     | XMLAWT-00-0000-000LT60E3          |                          |  |  |  |  |
| E3         | 5000 K                                    | T5             | 260                     | XMLAWT-00-0000-000LT50E3          |                          |  |  |  |  |
|            |                                           | T4             | 240                     | XMLAWT-00-0000-000LT40E3          |                          |  |  |  |  |
| F4         | 4750 K                                    | T5             | 260                     | XMLAWT-00-0000-000LT50F4          |                          |  |  |  |  |
| Г4         | 4/50 K                                    | T4             | 240                     | XMLAWT-00-0000-000LT40F4          |                          |  |  |  |  |
| E4         | 4500 K                                    | T5             | 260                     | XMLAWT-00-0000-000LT50E4          |                          |  |  |  |  |
| E4         | 4500 K                                    | T4             | 240                     | XMLAWT-00-0000-000LT40E4          |                          |  |  |  |  |
| F5         | 4250 K                                    | T5             | 260                     | XMLAWT-00-0000-000LT50F5          |                          |  |  |  |  |
| гэ         | 4230 K                                    | T4             | 240                     | XMLAWT-00-0000-000LT40F5          |                          |  |  |  |  |
|            |                                           | T5             | 260                     | XMLAWT-00-0000-000LT50E5          |                          |  |  |  |  |
| E5         | 4000 K                                    | T4             | 240                     | XMLAWT-00-0000-000LT40E5          | XMLAWT-00-0000-000HT40E5 |  |  |  |  |
|            |                                           | Т3             | 220                     | XMLAWT-00-0000-000LT30E5          | XMLAWT-00-0000-000HT30E5 |  |  |  |  |
| <b>Z</b> 5 | 4000 K                                    | T4             | 240                     | XMLAWT-00-0000-000LT40Z5          |                          |  |  |  |  |
| 23         | 4000 K                                    | Т3             | 220                     | XMLAWT-00-0000-000LT30Z5          | XMLAWT-00-0000-000HT30Z5 |  |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L ANSI WARM WHITE, T, = 25 °C)

|                                           |        |      |           | XLamp                    | XM-L LED Standard Kit Codes - Wh | ite                      |                          |  |  |  |
|-------------------------------------------|--------|------|-----------|--------------------------|----------------------------------|--------------------------|--------------------------|--|--|--|
| Chromaticity Luminous Flux (Im) @ 700 mA* |        |      |           | Order Codes              |                                  |                          |                          |  |  |  |
| Kit                                       | ССТ    | Code | Flux (lm) | 80 CRI Typical           | 80 CRI Minimum                   | 85 CRI Minimum           | 90 CRI Minimum           |  |  |  |
|                                           |        |      |           | 1A                       | NSI Warm White (2700 K - 3750 K) |                          |                          |  |  |  |
|                                           |        | T4   | 240       | XMLAWT-00-0000-000LT40F6 | XMLAWT-00-0000-000HT40F6         |                          |                          |  |  |  |
| F6                                        | 3750 K | Т3   | 220       | XMLAWT-00-0000-000LT30F6 | XMLAWT-00-0000-000HT30F6         |                          |                          |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20F6 | XMLAWT-00-0000-000HT20F6         |                          |                          |  |  |  |
|                                           |        | T4   | 240       | XMLAWT-00-0000-000LT40E6 | XMLAWT-00-0000-000HT40E6         |                          |                          |  |  |  |
| E6                                        | 3500 K | T3   | 220       | XMLAWT-00-0000-000LT30E6 | XMLAWT-00-0000-000HT30E6         |                          |                          |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20E6 | XMLAWT-00-0000-000HT20E6         |                          |                          |  |  |  |
|                                           |        | Т3   | 220       | XMLAWT-00-0000-000LT30Z6 | XMLAWT-00-0000-000HT30Z6         |                          |                          |  |  |  |
| Z6                                        | 3500 K | T2   | 200       | XMLAWT-00-0000-000LT20Z6 | XMLAWT-00-0000-000HT20Z6         |                          |                          |  |  |  |
|                                           | 005014 | Т3   | 220       | XMLAWT-00-0000-000LT30F7 | XMLAWT-00-0000-000HT30F7         |                          |                          |  |  |  |
| F7                                        | 3250 K | T2   | 200       | XMLAWT-00-0000-000LT20F7 | XMLAWT-00-0000-000HT20F7         |                          |                          |  |  |  |
|                                           |        | Т3   | 220       | XMLAWT-00-0000-000LT30E7 | XMLAWT-00-0000-000HT30E7         |                          |                          |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20E7 | XMLAWT-00-0000-000HT20E7         |                          |                          |  |  |  |
| E7                                        | 3000 K | S6   | 182       |                          |                                  | XMLAWT-00-0000-000PS60E7 | XMLAWT-00-0000-000US60E7 |  |  |  |
|                                           |        | S5   | 172       |                          |                                  | XMLAWT-00-0000-000PS50E7 | XMLAWT-00-0000-000US50E7 |  |  |  |
|                                           |        | S4   | 164       |                          |                                  | XMLAWT-00-0000-000PS40E7 | XMLAWT-00-0000-000US40E7 |  |  |  |
|                                           |        | T3   | 220       | XMLAWT-00-0000-000LT30Z7 | XMLAWT-00-0000-000HT30Z7         |                          |                          |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20Z7 | XMLAWT-00-0000-000HT20Z7         |                          |                          |  |  |  |
| <b>Z</b> 7                                | 3000 K | S6   | 182       |                          |                                  |                          |                          |  |  |  |
|                                           |        | S5   | 172       |                          |                                  | XMLAWT-00-0000-000PS50Z7 | XMLAWT-00-0000-000US50Z7 |  |  |  |
|                                           |        | S4   | 164       |                          |                                  | XMLAWT-00-0000-000PS40Z7 | XMLAWT-00-0000-000US40Z7 |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20F8 | XMLAWT-00-0000-000HT20F8         |                          |                          |  |  |  |
|                                           |        | S6   | 182       | XMLAWT-00-0000-000LS60F8 | XMLAWT-00-0000-000HS60F8         |                          |                          |  |  |  |
| F8                                        | 2850 K | S5   | 172       |                          |                                  | XMLAWT-00-0000-000PS50F8 | XMLAWT-00-0000-000US50F8 |  |  |  |
|                                           |        | S4   | 164       |                          |                                  | XMLAWT-00-0000-000PS40F8 | XMLAWT-00-0000-000US40F8 |  |  |  |
|                                           |        | S3   | 156       |                          |                                  | XMLAWT-00-0000-000PS30F8 | XMLAWT-00-0000-000US30F8 |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20E8 | XMLAWT-00-0000-000HT20E8         |                          |                          |  |  |  |
|                                           |        | S6   | 182       | XMLAWT-00-0000-000LS60E8 | XMLAWT-00-0000-000HS60E8         |                          |                          |  |  |  |
| E8                                        | 2700 K | S5   | 172       |                          |                                  | XMLAWT-00-0000-000PS50E8 | XMLAWT-00-0000-000US50E8 |  |  |  |
|                                           |        | S4   | 164       |                          |                                  | XMLAWT-00-0000-000PS40E8 | XMLAWT-00-0000-000US40E8 |  |  |  |
|                                           |        | S3   | 156       |                          |                                  | XMLAWT-00-0000-000PS30E8 | XMLAWT-00-0000-000US30E8 |  |  |  |
|                                           |        | T2   | 200       | XMLAWT-00-0000-000LT20Z8 | XMLAWT-00-0000-000HT20Z8         |                          |                          |  |  |  |
|                                           |        | S6   | 182       | XMLAWT-00-0000-000LS60Z8 | XMLAWT-00-0000-000HS60Z8         |                          |                          |  |  |  |
| Z8                                        | 2700 K | S5   | 172       |                          |                                  |                          |                          |  |  |  |
|                                           |        | S4   | 164       |                          |                                  | XMLAWT-00-0000-000PS40Z8 | XMLAWT-00-0000-000US40Z8 |  |  |  |
|                                           |        | S3   | 156       |                          |                                  | XMLAWT-00-0000-000PS30Z8 | XMLAWT-00-0000-000US30Z8 |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L2 ANSI COOL WHITE, T, = 85 °C)

|       |          |      | XLamp XN                    | I-L2 LED Standard Order Codes - Whi | te                       |     |                          |                          |
|-------|----------|------|-----------------------------|-------------------------------------|--------------------------|-----|--------------------------|--------------------------|
| Chron | naticity |      | um Luminous<br>n) @ 700 mA* | Order                               | Codes                    |     |                          |                          |
| Kit   | ССТ      | Code | Flux (lm)                   | 65 CRI Typical                      | 85 CRI Minimum           |     |                          |                          |
|       |          |      | AN                          | SI Cool White (5000 K - 8300 K)     |                          |     |                          |                          |
|       |          | U3   | 320                         | XMLBWT-00-0000-0000U3051            |                          |     |                          |                          |
|       |          | U2   | 300                         | XMLBWT-00-0000-0000U2051            |                          |     |                          |                          |
|       |          | T6   | 280                         | XMLBWT-00-0000-0000T6051            |                          |     |                          |                          |
| 51    | 6200 K   | T5   | 260                         | XMLBWT-00-0000-0000T5051            |                          |     |                          |                          |
|       |          |      |                             | T4                                  | 240                      |     | XMLBWT-00-0000-000PT4051 |                          |
|       |          | Т3   | 220                         |                                     | XMLBWT-00-0000-000PT3051 |     |                          |                          |
|       |          | T2   | 200                         |                                     | XMLBWT-00-0000-000PT2051 |     |                          |                          |
|       |          | U3   | 320                         | XMLBWT-00-0000-0000U3053            |                          |     |                          |                          |
|       |          | U2   | 300                         | XMLBWT-00-0000-0000U2053            |                          |     |                          |                          |
|       | 6000 K   | Т6   | 280                         | XMLBWT-00-0000-0000T6053            |                          |     |                          |                          |
| 53    |          | T5   | 260                         | XMLBWT-00-0000-0000T5053            |                          |     |                          |                          |
|       |          |      |                             |                                     | T4                       | 240 |                          | XMLBWT-00-0000-000PT4053 |
|       |          | Т3   | 220                         |                                     | XMLBWT-00-0000-000PT3053 |     |                          |                          |
|       |          | T2   | 200                         |                                     | XMLBWT-00-0000-000PT2053 |     |                          |                          |
|       |          | U3   | 320                         | XMLBWT-00-0000-0000U3050            |                          |     |                          |                          |
|       |          |      | U2                          | 300                                 | XMLBWT-00-0000-0000U2050 |     |                          |                          |
|       |          | Т6   | 280                         | XMLBWT-00-0000-0000T6050            |                          |     |                          |                          |
| 50    | 6200 K   | T5   | 260                         | XMLBWT-00-0000-0000T5050            |                          |     |                          |                          |
|       |          | T4   | 240                         |                                     | XMLBWT-00-0000-000PT4050 |     |                          |                          |
|       |          | Т3   | 220                         |                                     | XMLBWT-00-0000-000PT3050 |     |                          |                          |
|       |          | T2   | 200                         |                                     | XMLBWT-00-0000-000PT2050 |     |                          |                          |
|       |          | U3   | 320                         | XMLBWT-00-0000-0000U30E1            |                          |     |                          |                          |
|       |          | U2   | 300                         | XMLBWT-00-0000-0000U20E1            |                          |     |                          |                          |
|       |          | T6   | 280                         | XMLBWT-00-0000-0000T60E1            |                          |     |                          |                          |
| E1    | 6500 K   | T5   | 260                         | XMLBWT-00-0000-0000T50E1            |                          |     |                          |                          |
|       |          | T4   | 240                         |                                     | XMLBWT-00-0000-000PT40E1 |     |                          |                          |
|       |          | Т3   | 220                         |                                     | XMLBWT-00-0000-000PT30E1 |     |                          |                          |
|       |          | T2   | 200                         |                                     | XMLBWT-00-0000-000PT20E1 |     |                          |                          |
|       |          | U3   | 320                         | XMLBWT-00-0000-0000U30E2            |                          |     |                          |                          |
|       |          | U2   | 300                         | XMLBWT-00-0000-0000U20E2            |                          |     |                          |                          |
|       |          | T6   | 280                         | XMLBWT-00-0000-0000T60E2            |                          |     |                          |                          |
| E2    | 5700 K   | T5   | 260                         | XMLBWT-00-0000-0000T50E2            |                          |     |                          |                          |
|       |          | T4   | 240                         |                                     | XMLBWT-00-0000-000PT40E2 |     |                          |                          |
|       |          | Т3   | 220                         |                                     | XMLBWT-00-0000-000PT30E2 |     |                          |                          |
|       |          | T2   | 200                         |                                     | XMLBWT-00-0000-000PT20E2 |     |                          |                          |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L2 ANSI NEUTRAL WHITE, $T_J$ = 85 °C)

|      |                                      |                                         |           | XLamp XM-L2 LED Standar  | d Kit Codes - White      |                          |  |  |  |  |
|------|--------------------------------------|-----------------------------------------|-----------|--------------------------|--------------------------|--------------------------|--|--|--|--|
| Chro | maticity                             | Minimum Luminous<br>Flux (lm) @ 700 mA* |           | Order Codes              |                          |                          |  |  |  |  |
| Kit  | ССТ                                  | Code                                    | Flux (lm) | 70 CRI Minimum           | 75 CRI Typical           | 80 CRI Minimum           |  |  |  |  |
|      | ANSI Neutral White (3700 K – 5000 K) |                                         |           |                          |                          |                          |  |  |  |  |
|      |                                      | U3                                      | 320       | XMLBWT-00-0000-000BU30E3 |                          |                          |  |  |  |  |
|      |                                      | U2                                      | 300       | XMLBWT-00-0000-000BU20E3 | XMLBWT-00-0000-000LU20E3 |                          |  |  |  |  |
| E3   | 5000 K                               | Т6                                      | 280       | XMLBWT-00-0000-000BT60E3 | XMLBWT-00-0000-000LT60E3 |                          |  |  |  |  |
|      |                                      | T5                                      | 260       | XMLBWT-00-0000-000BT50E3 | XMLBWT-00-0000-000LT50E3 |                          |  |  |  |  |
|      |                                      | T4                                      | 240       |                          | XMLBWT-00-0000-000LT40E3 |                          |  |  |  |  |
|      |                                      | U3                                      | 320       | XMLBWT-00-0000-000BU30F4 |                          |                          |  |  |  |  |
|      |                                      | U2                                      | 300       | XMLBWT-00-0000-000BU20F4 | XMLBWT-00-0000-000LU20F4 |                          |  |  |  |  |
| F4   | 4750 K                               | Т6                                      | 280       | XMLBWT-00-0000-000BT60F4 | XMLBWT-00-0000-000LT60F4 |                          |  |  |  |  |
|      |                                      | T5                                      | 260       | XMLBWT-00-0000-000BT50F4 | XMLBWT-00-0000-000LT50F4 |                          |  |  |  |  |
|      |                                      | T4                                      | 240       |                          | XMLBWT-00-0000-000LT40F4 |                          |  |  |  |  |
|      |                                      | U3                                      | 320       | XMLBWT-00-0000-000BU30E4 |                          |                          |  |  |  |  |
|      |                                      | U2                                      | 300       | XMLBWT-00-0000-000BU20E4 | XMLBWT-00-0000-000LU20E4 |                          |  |  |  |  |
| E4   | 4500 K                               | Т6                                      | 280       | XMLBWT-00-0000-000BT60E4 | XMLBWT-00-0000-000LT60E4 |                          |  |  |  |  |
|      |                                      | T5                                      | 260       | XMLBWT-00-0000-000BT50E4 | XMLBWT-00-0000-000LT50E4 |                          |  |  |  |  |
|      |                                      | T4                                      | 240       |                          | XMLBWT-00-0000-000LT40E4 |                          |  |  |  |  |
|      | 4250 K                               | U2                                      | 300       | XMLBWT-00-0000-000BU20F5 |                          |                          |  |  |  |  |
| F5   |                                      | Т6                                      | 280       | XMLBWT-00-0000-000BT60F5 | XMLBWT-00-0000-000LT60F5 |                          |  |  |  |  |
| FO   |                                      | T5                                      | 260       | XMLBWT-00-0000-000BT50F5 | XMLBWT-00-0000-000LT50F5 |                          |  |  |  |  |
|      |                                      | T4                                      | 240       | XMLBWT-00-0000-000BT40F5 | XMLBWT-00-0000-000LT40F5 |                          |  |  |  |  |
|      |                                      | U2                                      | 300       | XMLBWT-00-0000-000BU20E5 |                          |                          |  |  |  |  |
|      |                                      | T6                                      | 280       | XMLBWT-00-0000-000BT60E5 | XMLBWT-00-0000-000LT60E5 | XMLBWT-00-0000-000HT60E5 |  |  |  |  |
| E5   | 4000 K                               | T5                                      | 260       | XMLBWT-00-0000-000BT50E5 | XMLBWT-00-0000-000LT50E5 | XMLBWT-00-0000-000HT50E5 |  |  |  |  |
|      |                                      | T4                                      | 240       | XMLBWT-00-0000-000BT40E5 | XMLBWT-00-0000-000LT40E5 | XMLBWT-00-0000-000HT40E5 |  |  |  |  |
|      |                                      | Т3                                      | 220       |                          | XMLBWT-00-0000-000LT30E5 | XMLBWT-00-0000-000HT30E5 |  |  |  |  |
|      |                                      | T5                                      | 260       |                          | XMLBWT-00-0000-000LT50Z5 | XMLBWT-00-0000-000HT50Z5 |  |  |  |  |
| Z5   | 4000 K                               | T4                                      | 240       |                          | XMLBWT-00-0000-000LT40Z5 | XMLBWT-00-0000-000HT40Z5 |  |  |  |  |
|      |                                      | Т3                                      | 220       |                          | XMLBWT-00-0000-000LT30Z5 | XMLBWT-00-0000-000HT30Z5 |  |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L2 ANSI WARM WHITE, T, = 85 °C)

|                                                   |        |      |             | XLamp XM                 | -L2 LED Standard Kit Codes - Wh | ite                      |                          |  |  |
|---------------------------------------------------|--------|------|-------------|--------------------------|---------------------------------|--------------------------|--------------------------|--|--|
| Chromaticity Minimum Luminous Flux (lm) @ 700 mA* |        |      | Order Codes |                          |                                 |                          |                          |  |  |
| Kit CCT                                           |        | Code | Flux (lm)   | 80 CRI Typical           | 80 CRI Minimum                  | 85 CRI Minimum           | 90 CRI Minimum           |  |  |
|                                                   |        |      |             | ANSI                     | Warm White (2700 K - 3750 K)    |                          |                          |  |  |
|                                                   |        | T6   | 280         | XMLBWT-00-0000-000LT60F6 | XMLBWT-00-0000-000HT60F6        |                          |                          |  |  |
|                                                   |        | T5   | 260         | XMLBWT-00-0000-000LT50F6 | XMLBWT-00-0000-000HT50F6        |                          |                          |  |  |
| F6                                                | 3750 K | T4   | 240         | XMLBWT-00-0000-000LT40F6 | XMLBWT-00-0000-000HT40F6        |                          |                          |  |  |
|                                                   |        | Т3   | 220         | XMLBWT-00-0000-000LT30F6 | XMLBWT-00-0000-000HT30F6        |                          |                          |  |  |
|                                                   |        | T2   | 200         | XMLBWT-00-0000-000LT20F6 | XMLBWT-00-0000-000HT20F6        |                          |                          |  |  |
|                                                   |        | T6   | 280         | XMLBWT-00-0000-000LT60E6 | XMLBWT-00-0000-000HT60E6        |                          |                          |  |  |
|                                                   |        | T5   | 260         | XMLBWT-00-0000-000LT50E6 | XMLBWT-00-0000-000HT50E6        |                          |                          |  |  |
| E6                                                | 3500 K | T4   | 240         | XMLBWT-00-0000-000LT40E6 | XMLBWT-00-0000-000HT40E6        |                          |                          |  |  |
|                                                   |        | T3   | 220         | XMLBWT-00-0000-000LT30E6 | XMLBWT-00-0000-000HT30E6        |                          |                          |  |  |
|                                                   |        | T2   | 200         | XMLBWT-00-0000-000LT20E6 | XMLBWT-00-0000-000HT20E6        |                          |                          |  |  |
|                                                   |        | T5   | 260         | XMLBWT-00-0000-000LT50Z6 | XMLBWT-00-0000-000HT50Z6        |                          |                          |  |  |
| 7.0                                               | 05001/ | T4   | 240         | XMLBWT-00-0000-000LT40Z6 | XMLBWT-00-0000-000HT40Z6        |                          |                          |  |  |
| Z6                                                | 3500 K | Т3   | 220         | XMLBWT-00-0000-000LT30Z6 | XMLBWT-00-0000-000HT30Z6        |                          |                          |  |  |
|                                                   |        | T2   | 200         | XMLBWT-00-0000-000LT20Z6 | XMLBWT-00-0000-000HT20Z6        |                          |                          |  |  |
|                                                   |        | T5   | 260         | XMLBWT-00-0000-000LT50F7 | XMLBWT-00-0000-000HT50F7        |                          |                          |  |  |
|                                                   | 00501/ | T4   | 240         | XMLBWT-00-0000-000LT40F7 | XMLBWT-00-0000-000HT40F7        |                          |                          |  |  |
| F7                                                | 3250 K | Т3   | 220         | XMLBWT-00-0000-000LT30F7 | XMLBWT-00-0000-000HT30F7        |                          |                          |  |  |
|                                                   |        | T2   | 200         | XMLBWT-00-0000-000LT20F7 | XMLBWT-00-0000-000HT20F7        |                          |                          |  |  |
|                                                   |        | T5   | 260         | XMLBWT-00-0000-000LT50E7 | XMLBWT-00-0000-000HT50E7        |                          |                          |  |  |
|                                                   |        | T4   | 240         | XMLBWT-00-0000-000LT40E7 | XMLBWT-00-0000-000HT40E7        |                          |                          |  |  |
|                                                   |        | Т3   | 220         | XMLBWT-00-0000-000LT30E7 | XMLBWT-00-0000-000HT30E7        |                          |                          |  |  |
| E7                                                | 3000 K | T2   | 200         | XMLBWT-00-0000-000LT20E7 | XMLBWT-00-0000-000HT20E7        | XMLBWT-00-0000-000PT20E7 | XMLBWT-00-0000-000UT20E7 |  |  |
|                                                   |        | S6   | 182         |                          |                                 | XMLBWT-00-0000-000PS60E7 | XMLBWT-00-0000-000US60E7 |  |  |
|                                                   |        | S5   | 172         |                          |                                 | XMLBWT-00-0000-000PS50E7 | XMLBWT-00-0000-000US50E7 |  |  |
|                                                   |        | S4   | 164         |                          |                                 | XMLBWT-00-0000-000PS40E7 | XMLBWT-00-0000-000US40E7 |  |  |
|                                                   |        | T4   | 240         | XMLBWT-00-0000-000LT40Z7 | XMLBWT-00-0000-000HT40Z7        |                          |                          |  |  |
|                                                   |        | Т3   | 220         | XMLBWT-00-0000-000LT30Z7 | XMLBWT-00-0000-000HT30Z7        |                          |                          |  |  |
|                                                   | 000016 | T2   | 200         | XMLBWT-00-0000-000LT20Z7 | XMLBWT-00-0000-000HT20Z7        |                          |                          |  |  |
| Z7                                                | 3000 K | S6   | 182         |                          |                                 | XMLBWT-00-0000-000PS60Z7 | XMLBWT-00-0000-000US60Z7 |  |  |
|                                                   |        | S5   | 172         |                          |                                 | XMLBWT-00-0000-000PS50Z7 | XMLBWT-00-0000-000US50Z7 |  |  |
|                                                   |        | S4   | 164         |                          |                                 | XMLBWT-00-0000-000PS40Z7 | XMLBWT-00-0000-000US40Z7 |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L2 ANSI WARM WHITE, T, = 85 °C) - CONTINUED

|      |                                                 |      |           | XLamp XM                 | -L2 LED Standard Kit Codes - Wh | ite                      |                          |  |  |  |  |
|------|-------------------------------------------------|------|-----------|--------------------------|---------------------------------|--------------------------|--------------------------|--|--|--|--|
| Chro | Chromaticity Minimum Luminou Flux (Im) @ 700 mA |      |           | Order Codes              |                                 |                          |                          |  |  |  |  |
| Kit  | ССТ                                             | Code | Flux (lm) | 80 CRI Typical           | 80 CRI Minimum                  | 85 CRI Minimum           | 90 CRI Minimum           |  |  |  |  |
|      | ANSI Warm White (2700 K - 3750 K)               |      |           |                          |                                 |                          |                          |  |  |  |  |
|      |                                                 | T5   | 260       | XMLBWT-00-0000-000LT50F8 | XMLBWT-00-0000-000HT50F8        |                          |                          |  |  |  |  |
|      |                                                 | T4   | 240       | XMLBWT-00-0000-000LT40F8 | XMLBWT-00-0000-000HT40F8        |                          |                          |  |  |  |  |
|      |                                                 | T3   | 220       | XMLBWT-00-0000-000LT30F8 | XMLBWT-00-0000-000LT30F8        |                          |                          |  |  |  |  |
| F8   | 2850 K                                          | T2   | 200       | XMLBWT-00-0000-000LT20F8 | XMLBWT-00-0000-000HT20F8        |                          |                          |  |  |  |  |
| го   | 2000 K                                          | S6   | 182       | XMLBWT-00-0000-000LS60F8 | XMLBWT-00-0000-000HS60F8        | XMLBWT-00-0000-000PS60F8 | XMLBWT-00-0000-000US60F8 |  |  |  |  |
|      |                                                 | S5   | 172       |                          |                                 | XMLBWT-00-0000-000PS50F8 | XMLBWT-00-0000-000US50F8 |  |  |  |  |
|      |                                                 | S4   | 164       |                          |                                 | XMLBWT-00-0000-000PS40F8 | XMLBWT-00-0000-000US40F8 |  |  |  |  |
|      |                                                 | S3   | 156       |                          |                                 | XMLBWT-00-0000-000PS30F8 | XMLBWT-00-0000-000US30F8 |  |  |  |  |
|      |                                                 | T5   | 260       | XMLBWT-00-0000-000LT50E8 | XMLBWT-00-0000-000HT50E8        |                          |                          |  |  |  |  |
|      |                                                 | T4   | 240       | XMLBWT-00-0000-000LT40E8 | XMLBWT-00-0000-000HT40E8        |                          |                          |  |  |  |  |
|      |                                                 | T3   | 220       | XMLBWT-00-0000-000LT30E8 | XMLBWT-00-0000-000HT30E8        |                          |                          |  |  |  |  |
| E8   | 2700 K                                          | T2   | 200       | XMLBWT-00-0000-000LT20E8 | XMLBWT-00-0000-000HT20E8        |                          |                          |  |  |  |  |
| EO   | 2700 K                                          | S6   | 182       | XMLBWT-00-0000-000LS60E8 | XMLBWT-00-0000-000HS60E8        | XMLBWT-00-0000-000PS60E8 | XMLBWT-00-0000-000US60E8 |  |  |  |  |
|      |                                                 | S5   | 172       |                          |                                 | XMLBWT-00-0000-000PS50E8 | XMLBWT-00-0000-000US50E8 |  |  |  |  |
|      |                                                 | S4   | 164       |                          |                                 | XMLBWT-00-0000-000PS40E8 | XMLBWT-00-0000-000US40E8 |  |  |  |  |
|      |                                                 | S3   | 156       |                          |                                 | XMLBWT-00-0000-000PS30E8 | XMLBWT-00-0000-000US30E8 |  |  |  |  |
|      |                                                 | T4   | 240       | XMLBWT-00-0000-000LT40Z8 | XMLBWT-00-0000-000HT40Z8        |                          |                          |  |  |  |  |
|      |                                                 | T3   | 220       | XMLBWT-00-0000-000LT30Z8 | XMLBWT-00-0000-000HT30Z8        |                          |                          |  |  |  |  |
|      |                                                 | T2   | 200       | XMLBWT-00-0000-000LT20Z8 | XMLBWT-00-0000-000HT20Z8        |                          |                          |  |  |  |  |
| Z8   | 2700 K                                          | S6   | 182       | XMLBWT-00-0000-000LS60Z8 | XMLBWT-00-0000-000HS60Z8        |                          |                          |  |  |  |  |
|      |                                                 | S5   | 172       |                          |                                 | XMLBWT-00-0000-000PS50Z8 | XMLBWT-00-0000-000US50Z8 |  |  |  |  |
|      |                                                 | S4   | 164       |                          |                                 | XMLBWT-00-0000-000PS40Z8 | XMLBWT-00-0000-000US40Z8 |  |  |  |  |
|      |                                                 | S3   | 156       |                          |                                 | XMLBWT-00-0000-000PS30Z8 | XMLBWT-00-0000-000US30Z8 |  |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L HIGH VOLTAGE ANSI COOL WHITE, T, = 85 °C)

| XLamp XM-L HVW LED Standard Order Codes - White |                                   |                                        |           |                          |                          |  |  |  |
|-------------------------------------------------|-----------------------------------|----------------------------------------|-----------|--------------------------|--------------------------|--|--|--|
| Chron                                           | naticity                          | Minimum Luminous<br>Flux (lm) @ 44 mA* |           | Order Codes              |                          |  |  |  |
| Kit                                             | сст                               | Code                                   | Flux (lm) | 65 CRI Typical           |                          |  |  |  |
|                                                 | ANSI Cool White (5000 K - 8300 K) |                                        |           |                          |                          |  |  |  |
|                                                 |                                   | T5                                     | 260       | XMLHVW-Q0-0000-0000LT551 |                          |  |  |  |
| 51                                              | 6200 K                            | T4                                     | 240       | XMLHVW-Q0-0000-0000LT451 |                          |  |  |  |
| 31                                              |                                   | T3                                     | 220       | XMLHVW-Q0-0000-0000LT351 |                          |  |  |  |
|                                                 |                                   | T2                                     | 200       | XMLHVW-Q0-0000-0000LT251 |                          |  |  |  |
|                                                 | 6000 K                            |                                        | T5        | 260                      | XMLHVW-Q0-0000-0000LT553 |  |  |  |
| 53                                              |                                   | T4                                     | 240       | XMLHVW-Q0-0000-0000LT453 |                          |  |  |  |
| 55                                              |                                   | T3                                     | 220       | XMLHVW-Q0-0000-0000LT353 |                          |  |  |  |
|                                                 |                                   | T2                                     | 200       | XMLHVW-Q0-0000-0000LT253 |                          |  |  |  |
|                                                 |                                   | T5                                     | 260       | XMLHVW-Q0-0000-0000LT550 |                          |  |  |  |
| 50                                              | 6200 K                            | T4                                     | 240       | XMLHVW-Q0-0000-0000LT450 |                          |  |  |  |
| 30                                              | 0200 K                            | T3                                     | 220       | XMLHVW-Q0-0000-0000LT350 |                          |  |  |  |
|                                                 |                                   | T2                                     | 200       | XMLHVW-Q0-0000-0000LT250 |                          |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L HIGH VOLTAGE ANSI NEUTRAL WHITE, T, = 85 °C)

|         |                                      |                                        | XLamp XM  | I-L HVW LED Standard Kit Codes - Whit | te                       |  |  |  |  |
|---------|--------------------------------------|----------------------------------------|-----------|---------------------------------------|--------------------------|--|--|--|--|
| Chro    | maticity                             | Minimum Luminous Flux<br>(Im) @ 44 mA* |           | Order Codes                           |                          |  |  |  |  |
| Kit CCT |                                      | Code                                   | Flux (lm) | 75 CRI Typical                        | 80 CRI Minimum           |  |  |  |  |
|         | ANSI Neutral White (3700 K – 5000 K) |                                        |           |                                       |                          |  |  |  |  |
|         |                                      | T5                                     | 260       | XMLHVW-Q0-0000-0000LT5E3              |                          |  |  |  |  |
|         |                                      | T4                                     | 240       | XMLHVW-Q0-0000-0000LT4E3              |                          |  |  |  |  |
| E3      | 5000 K                               | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3E3              |                          |  |  |  |  |
|         |                                      | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2E3              |                          |  |  |  |  |
|         |                                      | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E3              |                          |  |  |  |  |
|         |                                      | T5                                     | 260       | XMLHVW-Q0-0000-0000LT5F4              |                          |  |  |  |  |
|         |                                      | T4                                     | 240       | XMLHVW-Q0-0000-0000LT4F4              |                          |  |  |  |  |
| F4      | 4750 K                               | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3F4              |                          |  |  |  |  |
|         |                                      | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2F4              |                          |  |  |  |  |
|         |                                      | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6F4              |                          |  |  |  |  |
|         |                                      | T5                                     | 260       | XMLHVW-Q0-0000-0000LT5E4              |                          |  |  |  |  |
|         |                                      | T4                                     | 240       | XMLHVW-Q0-0000-0000LT4E4              |                          |  |  |  |  |
| E4      | 4500 K                               | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3E4              |                          |  |  |  |  |
|         |                                      | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2E4              |                          |  |  |  |  |
|         |                                      | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E4              |                          |  |  |  |  |
|         | 4250 K                               |                                        | Т3        | 220                                   | XMLHVW-Q0-0000-0000LT3F5 |  |  |  |  |
| F5      |                                      | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2F5              | XMLHVW-Q0-0000-0000HT2F5 |  |  |  |  |
| 13      |                                      | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6F5              | XMLHVW-Q0-0000-0000HS6F5 |  |  |  |  |
|         |                                      | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5F5              | XMLHVW-Q0-0000-0000HS5F5 |  |  |  |  |
|         | 4000 K                               | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3E5              |                          |  |  |  |  |
| E5      |                                      | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2E5              | XMLHVW-Q0-0000-0000HT2E5 |  |  |  |  |
| ES      |                                      | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E5              | XMLHVW-Q0-0000-0000HS6E5 |  |  |  |  |
|         |                                      | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5E5              | XMLHVW-Q0-0000-0000HS5E5 |  |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.



## STANDARD ORDER CODES AND BINS (XM-L HIGH VOLTAGE ANSI WARM WHITE, T, = 85 °C)

|                                   |        |                                        | XLamp XM  | -L HVW LED Standard Kit Codes - Whit | te                       |  |  |  |
|-----------------------------------|--------|----------------------------------------|-----------|--------------------------------------|--------------------------|--|--|--|
| Chromaticity                      |        | Minimum Luminous Flux<br>(lm) @ 44 mA* |           | Order Codes                          |                          |  |  |  |
| Kit CCT                           |        | Code                                   | Flux (lm) | 80 CRI Typical                       | 80 CRI Minimum           |  |  |  |
| ANSI Warm White (2700 K - 3750 K) |        |                                        |           |                                      |                          |  |  |  |
|                                   |        | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3F6             |                          |  |  |  |
|                                   |        | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2F6             | XMLHVW-Q0-0000-0000HT2F6 |  |  |  |
| F6                                | 3750 K | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6F6             | XMLHVW-Q0-0000-0000HS6F6 |  |  |  |
|                                   |        | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5F6             | XMLHVW-Q0-0000-0000HS5F6 |  |  |  |
|                                   |        | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4F6             | XMLHVW-Q0-0000-0000HS4F6 |  |  |  |
|                                   |        | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3E6             |                          |  |  |  |
|                                   |        | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2E6             | XMLHVW-Q0-0000-0000HT2E6 |  |  |  |
| E6                                | 3500 K | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E6             | XMLHVW-Q0-0000-0000HS6E6 |  |  |  |
|                                   |        | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5E6             | XMLHVW-Q0-0000-0000HS5E6 |  |  |  |
|                                   |        | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4E6             | XMLHVW-Q0-0000-0000HS4E6 |  |  |  |
|                                   |        | T3                                     | 220       | XMLHVW-Q0-0000-0000LT3F7             |                          |  |  |  |
|                                   |        | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2F7             | XMLHVW-Q0-0000-0000HT2F7 |  |  |  |
| F7                                | 3250 K | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6F7             | XMLHVW-Q0-0000-0000HS6F7 |  |  |  |
| Γ/                                | 3230 K | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5F7             | XMLHVW-Q0-0000-0000HS5F7 |  |  |  |
|                                   |        | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4F7             | XMLHVW-Q0-0000-0000HS4F7 |  |  |  |
|                                   |        | S3                                     | 156       | XMLHVW-Q0-0000-0000LS3F7             | XMLHVW-Q0-0000-0000HS3F7 |  |  |  |
|                                   |        | Т3                                     | 220       | XMLHVW-Q0-0000-0000LT3E7             |                          |  |  |  |
|                                   |        | T2                                     | 200       | XMLHVW-Q0-0000-0000LT2E7             | XMLHVW-Q0-0000-0000HT2E7 |  |  |  |
| E7                                | 3000 K | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E7             | XMLHVW-Q0-0000-0000HS6E7 |  |  |  |
| E/                                | 3000 K | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5E7             | XMLHVW-Q0-0000-0000HS5E7 |  |  |  |
|                                   |        | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4E7             | XMLHVW-Q0-0000-0000HS4E7 |  |  |  |
|                                   |        | S3                                     | 156       | XMLHVW-Q0-0000-0000LS3E7             | XMLHVW-Q0-0000-0000HS3E7 |  |  |  |
|                                   |        | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6F8             | XMLHVW-Q0-0000-0000HS6F8 |  |  |  |
|                                   |        | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5F8             | XMLHVW-Q0-0000-0000HS5F8 |  |  |  |
| F8                                | 2850 K | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4F8             | XMLHVW-Q0-0000-0000HS4F8 |  |  |  |
|                                   |        | S3                                     | 156       | XMLHVW-Q0-0000-0000LS3F8             | XMLHVW-Q0-0000-0000HS3F8 |  |  |  |
|                                   |        | S2                                     | 148       | XMLHVW-Q0-0000-0000LS2F8             | XMLHVW-Q0-0000-0000HS2F8 |  |  |  |
|                                   |        | S6                                     | 182       | XMLHVW-Q0-0000-0000LS6E8             | XMLHVW-Q0-0000-0000HS6E8 |  |  |  |
|                                   |        | S5                                     | 172       | XMLHVW-Q0-0000-0000LS5E8             | XMLHVW-Q0-0000-0000HS5E8 |  |  |  |
| E8                                | 2700 K | S4                                     | 164       | XMLHVW-Q0-0000-0000LS4E8             | XMLHVW-Q0-0000-0000HS4E8 |  |  |  |
|                                   |        | S3                                     | 156       | XMLHVW-Q0-0000-0000LS3E8             | XMLHVW-Q0-0000-0000HS3E8 |  |  |  |
|                                   |        | S2                                     | 148       | XMLHVW-Q0-0000-0000LS2E8             | XMLHVW-Q0-0000-0000HS2E8 |  |  |  |

<sup>\*</sup> Cree XLamp XM Family LED order codes specify only a minimum flux bin and not a maximum. Cree may ship reels in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity or DWL bin restrictions specified by the order code.

## **Mouser Electronics**

**Authorized Distributor** 

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## Cree, Inc.:

XMLBWT-00-0000-000PS50E8 XMLBWT-00-0000-000US30Z8 XMLBWT-02-0000-000HT40Z5 XMLBWT-02-0000-000US60Z7 XMLBWT-00-0000-000HT20F8 XMLBWT-02-0000-000US50E8 XMLBWT-00-0000-000LT30Z7 XMLBWT-00-0000-0000U20E1 XMLBWT-00-0000-000HT30Z7 XMLBWT-02-0000-000HT20Z8 XMLBWT-02-0000-000HT30Z7 XMLBWT-00-0000-000US60E7 XMLBWT-02-0000-000US30F8 XMLBWT-02-0000-000LT50E4 XMLBWT-02-0000-000PS30E8 XMLBWT-02-0000-000PS40Z7 XMLBWT-02-0000-000US30E8 XMLBWT-02-0000-000US40Z7 XMLBWT-00-0000-000LT40F4 XMLBWT-02-0000-000LT20E7 XMLBWT-02-0000-000LT40E5 XMLBWT-02-0000-000LT40F4 XMLBWT-02-0000-000LT40F6 XMLBWT-02-0000-000LT20Z6 XMLBWT-00-0000-000LT40E4 XMLBWT-00-0000-000US40F8 XMLBWT-00-0000-000US40Z8 XMLBWT-02-0000-0000T50E2 XMLBWT-02-0000-0000T6053 XMLBWT-02-0000-000HS60F8 XMLBWT-00-0000-000US30F8 XMLBWT-00-0000-0000T6051 XMLBWT-00-0000-000LT20E6 XMLBWT-00-0000-000LT20Z6 XMLBWT-00-0000-000LT20Z7 XMLBWT-00-0000-000LT40E5 XMLBWT-00-0000-000LS60E8 XMLBWT-02-0000-0000T5050 XMLBWT-02-0000-000HT20F6 XMLBWT-02-0000-000LS60F8 XMLBWT-02-0000-000LT30F6 XMLBWT-00-0000-000LT20F7 XMLBWT-02-0000-000US40E8 XMLBWT-02-0000-000US50E7 XMLBWT-02-0000-000US50F8 XMLBWT-02-0000-000HT20Z7 XMLBWT-02-0000-000LT20E8 XMLBWT-02-0000-000LT20F7 XMLBWT-00-0000-000US40Z7 XMLBWT-00-0000-000US50E7 XMLBWT-02-0000-000HT20F7 XMLBWT-02-0000-000LT40E6 XMLBWT-02-0000-000LT40Z5 XMLBWT-02-0000-000PS40Z8 XMLBWT-02-0000-000US40E7 XMLBWT-00-0000-000HT40Z5 XMLBWT-02-0000-000U20E2 XMLBWT-02-0000-000LT30F7 XMLBWT-02-0000-000LT40F5 XMLBWT-00-0000-000US40E8 XMLBWT-02-0000-000LT30Z6 XMLBWT-02-0000-000PS40E8 XMLBWT-02-0000-0000U2053 XMLBWT-00-0000-000LT20E7 XMLBWT-00-0000-000LT30Z6 XMLBWT-02-0000-000LT50F5 XMLBWT-00-0000-000PS50E7 XMLBWT-02-0000-0000T50E1 XMLBWT-02-0000-0000T6051 XMLBWT-02-0000-000HT30E6 XMLBWT-02-0000-000HT30E7 XMLBWT-02-0000-000LT30E5 XMLBWT-02-0000-000PS30F8 XMLBWT-02-0000-000PS40E7 XMLBWT-00-0000-000HS60E8 XMLBWT-00-0000-000HS60Z8 XMLBWT-00-0000-000HT20F6 XMLBWT-00-0000-000LT30F7 XMLBWT-02-0000-000HT20F8 XMLBWT-02-0000-000HT30F6 XMLBWT-02-0000-000LT20Z7 XMLBWT-02-0000-000LT40E3 XMLBWT-02-0000-000PS50Z7 XMLBWT-02-0000-000PS60Z7 XMLBWT-02-0000-000HT20Z6 XMLBWT-02-0000-000PS30Z8 XMLBWT-02-0000-000PS50E8 XMLBWT-00-0000-000LT60E3 XMLBWT-02-0000-000LT50E3 XMLBWT-02-0000-000HT20E6 XMLBWT-00-0000-000HT30F7 XMLBWT-00-0000-000HT30Z5 XMLBWT-00-0000-000HT20E8 XMLBWT-00-0000-000US50E8 XMLBWT-02-0000-0000U2051 XMLBWT-02-0000-000HS60E8 XMLBWT-00-0000-000LT20F8 XMLBWT-00-0000-000LT40Z5 XMLBWT-00-0000-000LT50E5 XMLBWT-00-0000-000PS30E8