

# Cree® XLamp® MC-E LED

## Binning and Labeling

### Introduction

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This document describes the product nomenclature required to select and order Cree XLamp MC-E LEDs. XLamp MC-E LEDs are tested and sorted into bins which



order codes for XLamp MC-E, as well as a list of standard order codes, is provided in this document.

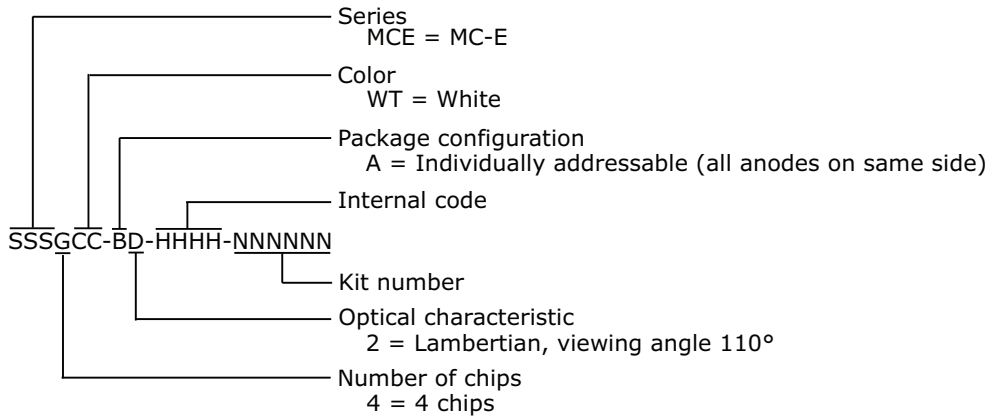
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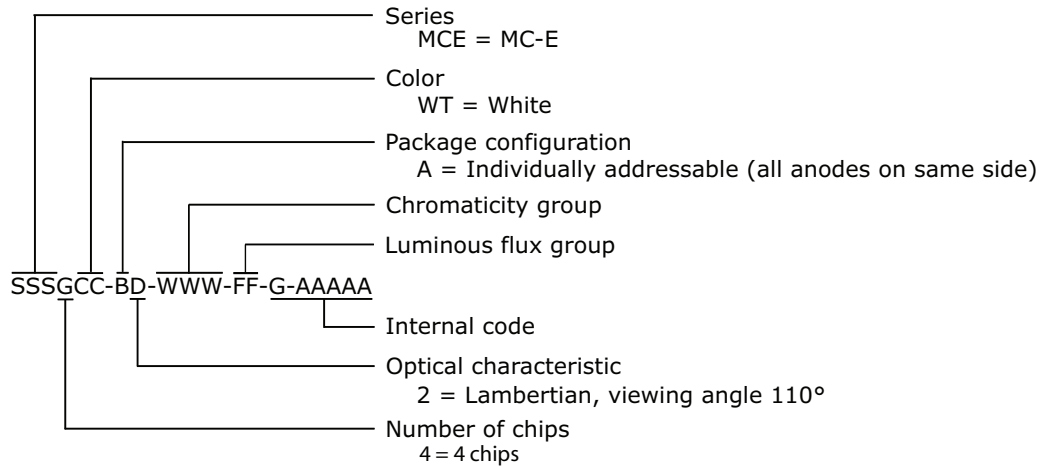
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## Bin and Order-Code Format

### Order Code



### Bin Code



## Performance Groups – Brightness

Group Code	Min. Luminous Flux @ 350 mA (lm)	Max. Luminous Flux @ 350 mA (lm)
F		240
G	240	
H		320
J	320	370
K	370	430
M	430	

## Performance Groups – Chromaticity

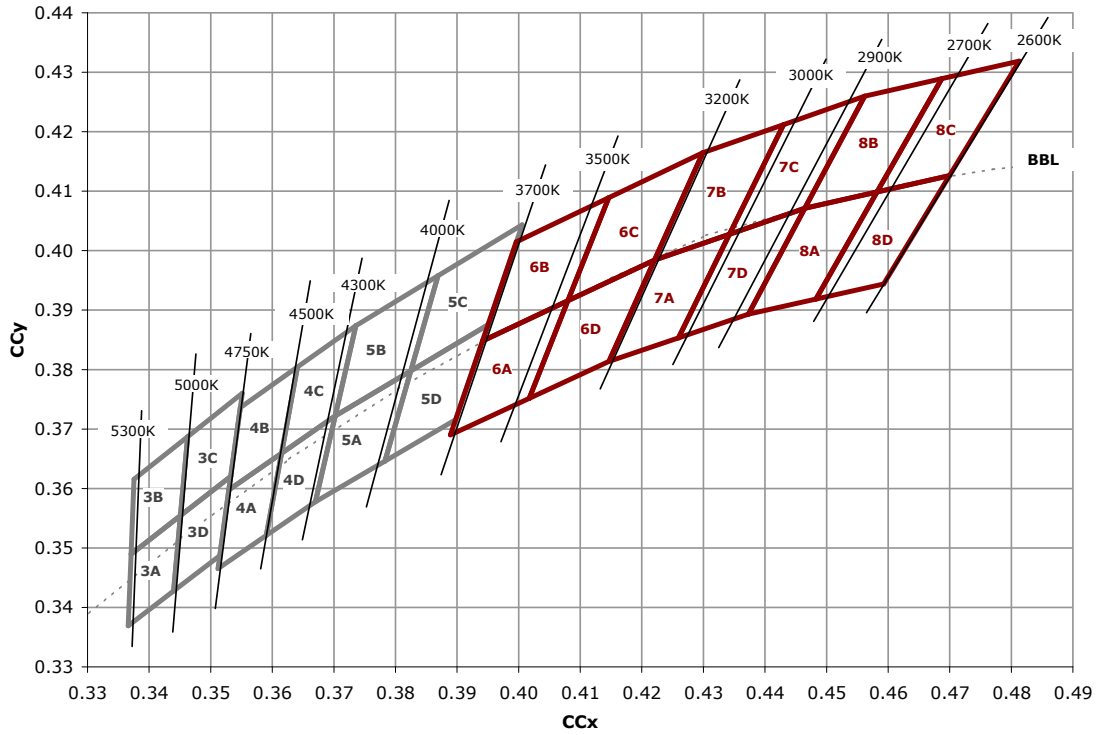
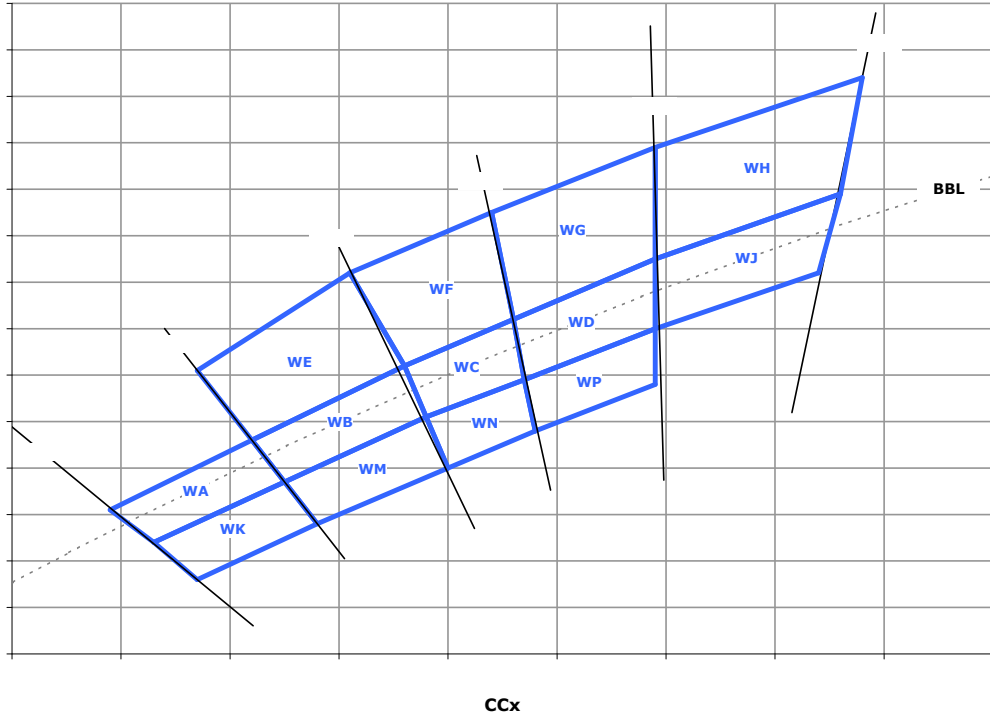
coordinates below.

Region	x	y	Region	x	y
					.355
					.332
				.306	.322
		.276			.342
		.306			
					.330
					.345
					.330
		.300			
					.332
	.306	.322			
					.345
					.332
		.306			.355
		.342			.330
	.306	.322			.345
		.306		.346	
				.344	.342
				.346	
					.345
		.300			
		.332			
	.306	.322			

## Performance Groups – Chromaticity (continued)

Region	x	y	Region	x	y	Region	x	y	Region	x	y			
3A			3B	.3376		3C	.3463		3D		.3554			
		.3554			.3463					.3760		.3533	.3620	
	.3440						.3554			.3533	.3620			
	.3366										.3554		.3440	
4A		.3465	4B			4C			4D					
					.3736									
										.3736			.3702	.3722
5A			5B			5C			5D					
	.3670				.3702		.3722						.3646	
	.3702	.3722			.3736									
										.4006	.4044			
6A			6B			6C			6D					
7A			7B			7C		.4342	7D					
										.4430		.4342		
	.4342				.4430					.4562	.4260		.4465	
					.4342					.4465			.4373	
	.4373				.4465									
	.4465				.4562		.4260						.4700	
							.4700							

**Cree's Standard Chromaticity Regions Plotted on the 1931 CIE Curve**



## Standard Order Codes and Bins (MC-E Cool White)

XLamp MC-E LED Standard Order Codes - White			
Min. Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Kit Number
Group	Flux (lm)		
K	370		
			000K02
			000K03

## Standard Order Codes and Bins (MC-E Neutral White)

XLamp MC-E LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Kit Number	CCT
Group	Flux (lm)			
H		5C, 5D, 6A, 6B	000HF6	3700 K
J	320	3A, 3B, 3C, 3D	000JE3	5000 K
		3C, 3D, 4A, 4B	000JF4	4750 K
		4A, 4B, 4C, 4D	000JE4	4500 K
		4C, 4D, 5A, 5B	000JF5	4300 K
		5A, 5B, 5C, 5D	000JE5	4000 K
		5C, 5D, 6A, 6B	000JF6	3700 K

## Standard Order Codes and Bins (MC-E Warm White)

XLamp MC-E LED Standard Order Codes - White				
Minimum Luminous Flux (lm) @ 350 mA*		Chromaticity Regions	Kit Number	CCT
Group	Flux (lm)			
G	240	6C, 6D, 7A, 7B	000GF7	3200 K
		7A, 7B, 7C, 7D	000GE7	3000 K
				2700 K
H		6A, 6B, 6C, 6D	000HE6	3500 K
		6C, 6D, 7A, 7B	000HF7	3200 K
		7A, 7B, 7C, 7D	000HE7	3000 K
J	320	6A, 6B, 6C, 6D	000JE6	3500 K