

# Color Bin Code System

## High Power LED Color Bin Selection

Bin	Dominate Wavelength (nm)					
	blue		green		yellow	
	min	max	min	max	min	max
1	445.0	450.0	515.0	518.0	581.0	584.5
2	450.0	455.0	518.0	521.0	584.5	587.0
3	455.0	460.0	521.0	524.0	587.0	589.5
4	460.0	464.0	524.0	527.0	589.5	592.0
5	464.0	467.0	527.0	530.0	592.0	594.5
6	467.0	470.0	530.0	533.0	594.5	597.0
7	470.0	473.0	533.0	536.0	597.0	599.5
8	473.0	476.0				
9	476.0	480.0				

Remark:

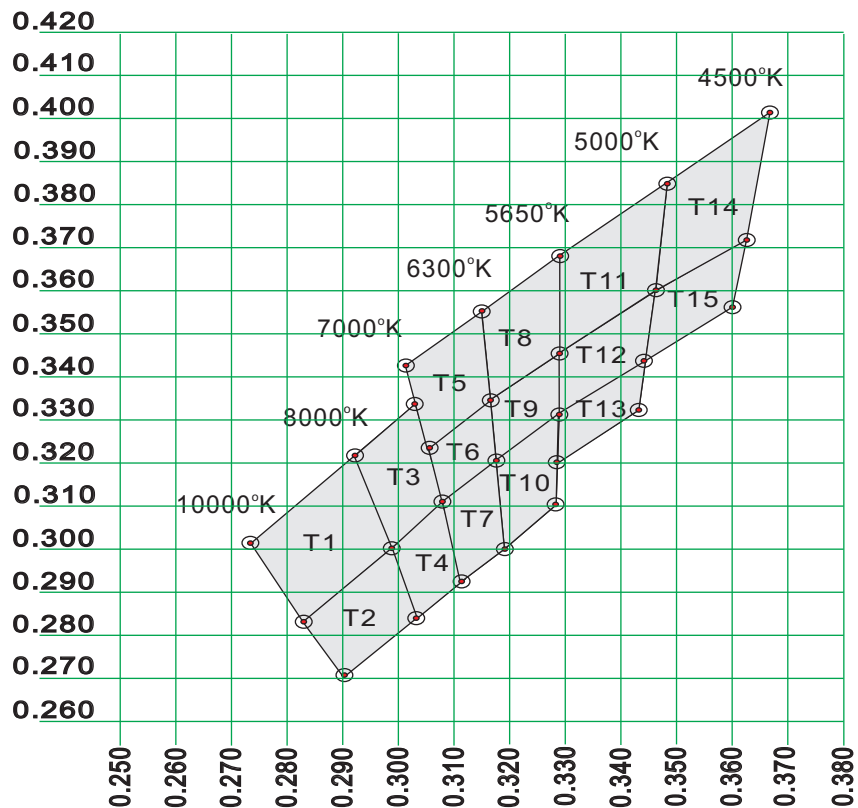
Color tolerance for each bin limit is $\pm$ 0.5nm.

# White Color Bin Code System For Power LEDs

## White Color Bin Selection

Bin	CCT (°K)		Chromaticity Coordinates			
	TYP		x	y	z	w
T1	9000		0.274	0.301	0.292	0.299
			0.283	0.284	0.299	0.300
T2	9000		0.283	0.284	0.299	0.303
			0.292	0.322	0.300	0.283
T3	8000		0.292	0.322	0.303	0.308
			0.299	0.333	0.308	0.311
T4	8000		0.299	0.300	0.308	0.311
			0.300	0.311	0.311	0.293
T5	6700		0.301	0.342	0.314	0.316
			0.305	0.322	0.316	0.333
T6	6700		0.305	0.322	0.316	0.317
			0.308	0.333	0.317	0.320
T7	6700		0.308	0.311	0.317	0.319
			0.314	0.320	0.329	0.329
T8	6000		0.314	0.355	0.329	0.329
			0.316	0.369	0.329	0.345
T9	6000		0.316	0.333	0.329	0.329
			0.317	0.345	0.329	0.331
T10	6000		0.317	0.333	0.329	0.329
			0.329	0.345	0.329	0.310
T11	5300		0.329	0.369	0.348	0.346
			0.329	0.385	0.346	0.359
T12	5300		0.329	0.345	0.346	0.344
			0.344	0.359	0.344	0.344
T13	5300		0.344	0.344	0.329	0.343
			0.344	0.331	0.343	0.331
T14	4750		0.348	0.385	0.367	0.362
			0.346	0.400	0.362	0.372
T15	4750		0.346	0.359	0.362	0.360
			0.359	0.372	0.362	0.357
Tolerance			x ± 0.02		y ± 0.02	

## CIE Curve Color Chart

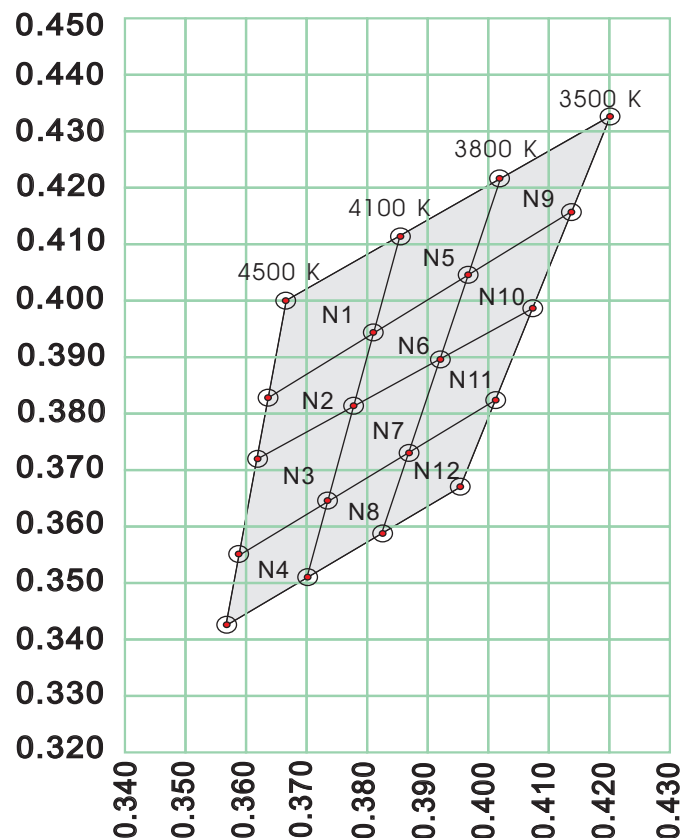


# White Color Bin Code System For Power LEDs

## Nature White Color Bin Selection

Bin	CCT (°K)		Chromaticity Coordinates				
	TYP		x	y	z	w	v
N1	4300		x	0.367	0.385	0.381	0.364
			y	0.400	0.412	0.393	0.382
N2	4300		x	0.364	0.381	0.378	0.362
			y	0.382	0.393	0.382	0.371
N3	4300		x	0.362	0.378	0.374	0.359
			y	0.371	0.382	0.365	0.355
N4	4300		x	0.359	0.374	0.370	0.357
			y	0.355	0.365	0.351	0.342
N5	3950		x	0.385	0.402	0.396	0.381
			y	0.412	0.422	0.403	0.393
N6	3950		x	0.381	0.396	0.392	0.378
			y	0.393	0.403	0.390	0.382
N7	3950		x	0.378	0.392	0.387	0.374
			y	0.382	0.390	0.373	0.365
N8	3950		x	0.370	0.387	0.382	0.370
			y	0.351	0.373	0.359	0.351
N9	3650		x	0.402	0.420	0.414	0.396
			y	0.422	0.432	0.416	0.403
N10	3650		x	0.396	0.414	0.408	0.392
			y	0.403	0.416	0.399	0.390
N11	3650		x	0.392	0.408	0.402	0.387
			y	0.390	0.399	0.382	0.373
N12	3650		x	0.387	0.402	0.396	0.382
			y	0.373	0.382	0.367	0.359
Tolerance			$x \pm 0.02$		$y \pm 0.02$		

## CIE Curve Color Chart



# White Color Bin Code System For Power LEDs

## Warm Color Bin Selection

Bin	CCT (°K)		Chromaticity Coordinates				
	TYP		x	y	z	w	v
C10	3640	x	0.402	0.417	0.409	0.392	
		y	0.423	0.431	0.400	0.391	
C11	3370	x	0.417	0.438	0.424	0.409	
		y	0.431	0.440	0.406	0.400	
C12	3640	x	0.392	0.409	0.402	0.387	
		y	0.391	0.400	0.382	0.374	
C13	3370	x	0.409	0.424	0.416	0.402	
		y	0.400	0.406	0.389	0.382	
C14	3500	x	0.387	0.416	0.410	0.383	
		y	0.374	0.389	0.374	0.360	
C15	3150	x	0.438	0.454	0.438	0.424	
		y	0.440	0.446	0.412	0.406	
C16	3150	x	0.424	0.438	0.429	0.416	
		y	0.406	0.412	0.394	0.389	
C17	2950	x	0.454	0.471	0.453	0.438	
		y	0.446	0.451	0.416	0.412	
C18	2950	x	0.438	0.453	0.444	0.429	
		y	0.412	0.416	0.399	0.394	
Tolerance			x ± 0.02		y ± 0.02		

## CIE Curve Color Chart

