

Bin Code System

LED Lamp Color Bin Selection

Bin	Dominate Wavelength (nm)													
	blue		bluish green		deep green		pure green		yellow green		yellow		amber	
	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	445.0	450.0	492.0	495.0	515.0	518.0	556.0	559.0			581.0	584.5	598.0	601.0
2	450.0	455.0	495.0	498.0	518.0	521.0	559.0	561.0			584.5	587.0	601.0	604.0
3	455.0	460.0	498.0	501.0	521.0	524.0	561.0	563.0			587.0	589.5	604.0	607.0
4	460.0	464.0	501.0	504.0	524.0	527.0	563.0	565.0			589.5	592.0	607.0	610.0
5	464.0	467.0	504.0	507.0	527.0	530.0			565.0	567.0	592.0	594.5	610.0	613.0
6	467.0	470.0	507.0	510.0	530.0	533.0			567.0	569.0	594.5	597.0	613.0	616.0
7	470.0	473.0	510.0	513.0	533.0	536.0			569.0	571.0	597.0	599.5	616.0	619.0
8	473.0	476.0							571.0	573.0			619.0	623.0
9	476.0	480.0							573.0	575.0				

LED Lamp Brightness Bin Selection

Brightness (mcd)					
Bin code	min	max	Bin code	min	max
A1	0.10	0.20	J	240	310
A2	0.20	0.35	K	310	400
A3	0.35	0.5	L	400	520
A4	0.50	0.80	M	520	680
A5	0.80	1.25	N	680	880
A6	1.25	2.0	P	880	1150
A7	2.0	3.2	Q	1150	1500
A8	3.2	5.0	R	1500	1900
A9	5.0	8.0	S	1900	2500
B1	8.0	12.5	T	2500	3200
B2	12.5	20.0	U	3200	4200
B3	20.0	32.0	V	4200	5500
B4	32.0	49.0	W	5500	7200
C	49.0	64.0	X	7200	9300
D	64.0	80.0	Y	9300	12000
E	80.0	108	Z	12000	16000
F	108	140	Z1	16000	21000
G	140	180	Z2	21000	27000
H	180	240	Z3	27000	35000

Remark:

1. Test condition: a: standard & super bright type $I_f=20\text{mA}$.
b: low current type $I_f=2\text{mA}$.
2. Brightness tolerance for each bin limit is $\pm 15\%$.
3. Color tolerance for each bin limit is $\pm 0.5\text{nm}$.

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White Color Bin Selection

Bin		Chromaticity Coordinates			
3	x	0.260	0.260	0.270	0.270
	y	0.230	0.280	0.290	0.240
4	x	0.270	0.270	0.280	0.280
	y	0.240	0.290	0.300	0.250
5	x	0.280	0.280	0.290	0.290
	y	0.250	0.300	0.310	0.260
6	x	0.290	0.290	0.300	0.300
	y	0.260	0.310	0.320	0.270
7	x	0.300	0.300	0.310	0.310
	y	0.270	0.320	0.330	0.280
8	x	0.310	0.310	0.320	0.320
	y	0.280	0.330	0.340	0.290
9	x	0.320	0.320	0.330	0.330
	y	0.290	0.340	0.350	0.300
Tolerance		$x \pm 0.02$		$y \pm 0.02$	

CIE Light Color Chart

