



LED BIN CODE SYSTEM

BIN code is **aa-bb-cc**: aa = brightness or flux, bb = wavelength, cc = voltage

WAVELENGTH BIN

Ligth Col.	Bin Code	Wavel. (nm)	Ligth Col.	Bin Code	Wavel. (nm)
BLUE	B1	450-455	YELLOW GREEN	YG1	555-558
	B2	455-460		YG2	558-561
	B3	460-465		YG3	561-564
	B4	465-470		YG4	564-567
	B5	470-475		YG5	567-570
	B6	475-480		YG6	570-573
	B7	480-485		YG7	573-576
	B8	485-490		YG8	576-579
	B9	490-495		YG9	579-582
BLUE GREEN	G1	491-494	YELLOW	Y1	582-585
	G2	494-497		Y2	585-588
	G3	497-500		Y3	588-591
	G4	500-503		Y4	591-594
	G5	503-506		Y5	594-597
	G6	506-509	YELLOW ORANGE	YO1	597-600
	G7	509-512		YO2	600-603
	G8	512-515		YO3	603-606
PURE GREEN	G9	515-518	PURE ORANGE	YO4	606-609
	G10	518-521		O1	609-612
	G11	521-524		O2	612-615
	G12	524-527	RED	O3	615-618
	G13	527-530		R1	618-621
	G14	530-533		R2	621-624
	G15	533-536		R3	624-627
	G16	536-539		R4	627-630
	G17	539-542		R5	630-633
	G18	542-545		R6	633-636
	G19	545-548		R7	636-639
	G20	548-551		R8	639-642
	G21	551-554		R9	642-645
			R10	645-648	

Warm White Color temperature Code

Bin Code	C Temp (K)	Bin Code	C Temp (K)
WP0	<2500	WP4-1	3300~3600
		WP4-2	
		WP4-3	
WP1-1	2500~2800	WP5-1	3600~4000
WP1-2		WP5-2	
WP1-3		WP5-3	
WP2-1	2800~3000	WP6-1	4000~4500
WP2-2		WP6-2	
WP2-3		WP6-3	
WP3-1	3000~3300	WP7	>4500
WP3-2			
WP3-3			

Warm White LED、 Warm White Flux LED、 Warm White Medium power LED

Code	X/Y	Characteristics			
WP0	X	0.5361	0.5799	0.7704	0.7018
	Y	0.508	0.5795	0.7761	0.6791
WP1-1	X	0.493	0.5026	0.58	0.5653
	Y	0.4823	0.4996	0.5795	0.5556
WP1-2	X	0.4793	0.493	0.5653	0.55
	Y	0.4575	0.4823	0.5556	0.53
WP1-3	X	0.4688	0.4793	0.55	0.5361
	Y	0.4385	0.4575	0.53	0.508
WP2-1	X	0.4566	0.4649	0.5026	0.4928
	Y	0.4436	0.4607	0.4996	0.4821
WP2-2	X	0.4472	0.4566	0.4928	0.4793
	Y	0.4244	0.4436	0.4821	0.4575
WP2-3	X	0.4392	0.4472	0.4793	0.4688
	Y	0.4079	0.4244	0.4575	0.4385
WP3-1	X	0.4236	0.4299	0.4649	0.4564
	Y	0.4094	0.4246	0.4607	0.4434
WP3-2	X	0.4167	0.4236	0.4564	0.4472
	Y	0.3929	0.4094	0.4434	0.4244
WP3-3	X	0.4108	0.4167	0.4472	0.4392
	Y	0.3789	0.3929	0.4244	0.4079
WP4-1	X	0.3991	0.4034	0.43	0.4236
	Y	0.384	0.3973	0.4246	0.4094
WP4-2	X	0.3947	0.3991	0.4236	0.4167
	Y	0.37	0.384	0.4094	0.3929
WP4-3	X	0.3907	0.3945	0.4167	0.4108
	Y	0.358	0.37	0.393	0.3786
WP5-1	X	0.3779	0.3812	0.4034	0.3991
	Y	0.3621	0.3744	0.3973	0.384
WP5-2	X	0.3751	0.3779	0.3991	0.3946
	Y	0.35	0.3621	0.384	0.37
WP5-3	X	0.3714	0.3751	0.3946	0.3907
	Y	0.338	0.35	0.37	0.358
WP6-1	X	0.358	0.3603	0.3812	0.378
	Y	0.3409	0.3528	0.3744	0.3621
WP6-2	X	0.356	0.358	0.378	0.3745

Code	X/Y	Characteristics			
	Y	0.3302	0.3409	0.3621	0.3493
WP6-3	X	0.354	0.356	0.3745	0.3714
	Y	0.32	0.3302	0.3493	0.338
WP7	X	0.3415	0.3442	0.36	0.354
	Y	0.3071	0.3362	0.3528	0.32

Warm WhiteE LED、 Warm White Flux LED、 Warm White Medium power LED

Bin Code	C Temp (K)	Bin Code	C Temp (K)
WPA	3500-3700	WPB	3700-3900
WPC	3900-4200	WPD	4200-4500
WPE	4500-5000		

Warm White LED、 Warm White Flux LED、 Warm White Medium power LED

X/Y	WPA			
X	0.424	0.447	0.437	0.416
Y	0.468	0.499	0.472	0.444
X/Y	WPC			
X	0.383	0.406	0.4	0.378
Y	0.412	0.444	0.422	0.393
X/Y	WPE			
X	0.347	0.369	0.366	0.345
Y	0.364	0.393	0.376	0.349
X/Y	WPB			
X	0.406	0.424	0.416	0.4
Y	0.444	0.468	0.444	0.422
X/Y	WPD			
X	0.369	0.383	0.378	0.366
Y	0.393	0.412	0.393	0.376

Power LED

Bin Code	C Temp (K)	Bin Code	C Temp (K)
W0	<3000	W7	5600-6300
W1	3000-3300	W8	6300-7000
W2	3300-3600	W9	7000-8000
W3	3600-4000	W10	8000-9000
W4	4000-4500	W11	9000-10000
W5	4500-5000	W12	10000-12000
W6	5000-5600	W13	12000-15000

COLOR TEMP. FOR 100mA and 350mA WHITE LEDs

Bin Code	C Temp (K)	Bin Code	C Temp (K)
W0	<3000	W6	6000~7000
W1	3000~3500	W7	7000~8000
W2	3500~4000	W8	8000~10000
W3	4000~4500	W9	10000~15000
W4	4500~5000	W10	15000~20000
W5	5000~6000	W00	>20000

WHITE X/Y COORDINATES BIN - basic sort

Bin Code	Coord.	X/Y Coordinates pairs			
WA1	X	0.243	0.215	0.230	0.263
	Y	0.200	0.230	0.250	0.220
WA2	X	0.263	0.246	0.264	0.280
	Y	0.220	0.236	0.267	0.248
WA3	X	0.246	0.230	0.248	0.264
	Y	0.236	0.250	0.286	0.267
WB1	X	0.280	0.264	0.283	0.296
	Y	0.248	0.267	0.305	0.276
WB2	X	0.264	0.248	0.275	0.283
	Y	0.267	0.286	0.321	0.305
WC1	X	0.296	0.287	0.330	0.330
	Y	0.276	0.295	0.339	0.318
WC2	X	0.287	0.283	0.330	0.330
	Y	0.295	0.305	0.360	0.339
WC3	X	0.283	0.275	0.298	0.306
	Y	0.305	0.321	0.350	0.332
WC4	X	0.306	0.298	0.321	0.330
	Y	0.332	0.350	0.379	0.360
WD1	X	0.330	0.330	0.361	0.356
	Y	0.318	0.360	0.385	0.351
WD2	X	0.330	0.321	0.366	0.361
	Y	0.360	0.379	0.419	0.385
WF	X	0.356	0.366	0.391	0.380
	Y	0.351	0.419	0.436	0.381

WHITE X/Y COORDINATES BIN - detailed sort

Code	X/Y	Characteristics			
Wa1-1	X	0.243	0.2298	0.2382	0.2538
	Y	0.200	0.2151	0.2254	0.210
Wa1-3	X	0.2298	0.215	0.2233	0.2382
	Y	0.2151	0.230	0.240	0.2254
Wa2-1	X	0.263	0.2545	0.263	0.2715
	Y	0.220	0.228	0.243	0.234
Wa2-3	X	0.2545	0.246	0.255	0.263
	Y	0.228	0.236	0.2515	0.243
Wa3-1	X	0.246	0.2387	0.248	0.255
	Y	0.236	0.2429	0.2598	0.2515
Wa3-3	X	0.2387	0.230	0.2398	0.2478
	Y	0.2429	0.250	0.2681	0.2598
Wb1-1	X	0.280	0.272	0.2808	0.288
	Y	0.248	0.2575	0.274	0.262
Wb1-3	X	0.272	0.264	0.2735	0.2808
	Y	0.258	0.267	0.286	0.274
Wb2-1	X	0.264	0.2568	0.2683	0.2735
	Y	0.267	0.766	0.2948	0.286
Wb2-3	X	0.2568	0.2488	0.2623	0.2683
	Y	0.2766	0.286	0.3036	0.2948
Wc1-1	X	0.296	0.2895	0.3015	0.3073
	Y	0.276	0.291	0.3099	0.29
Wc1-3	X	0.319	0.316	0.330	0.330
	Y	0.304	0.324	0.339	0.318
Wc2-2	X	0.3015	0.299	0.314	0.3158
	Y	0.3099	0.323	0.342	0.324

Wc3-1	X	0.283	0.280	0.2912	0.2952
	Y	0.305	0.3131	0.3271	0.3187
Wc3-3	X	0.2798	0.275	0.287	0.2912
	Y	0.3131	0.321	0.3356	0.3271
Wc4-1	X	0.306	0.3027	0.3143	0.3183
	Y	0.332	0.3412	0.3554	0.3462
Wc4-3	X	0.3027	0.2988	0.3102	0.3143
	Y	0.3412	0.350	0.3646	0.3554
Wd1-1	X	0.330	0.330	0.3412	0.340
	Y	0.318	0.339	0.3497	0.3298
Wd1-3	X	0.350	0.3524	0.3593	0.356
	Y	0.3425	0.3611	0.3681	0.351
Wd1-5	X	0.3412	0.3424	0.3547	0.3524
	Y	0.3497	0.370	0.3795	0.3611
Wd2-1	X	0.330	0.3255	0.3403	0.3424
	Y	0.360	0.3695	0.3825	0.3698
Wd2-3	X	0.3547	0.3547	0.3635	0.361
	Y	0.3795	0.3955	0.402	0.385
Wd2-5	X	0.3403	0.3363	0.3516	0.3547
	Y	0.3825	0.3926	0.4062	0.3955
Wf	X	0.356	0.366	0.391	0.380
	Y	0.351	0.419	0.436	0.481
Wa1-2	X	0.2538	0.2382	0.246	0.263
	Y	0.210	0.2254	0.236	0.220
Wa1-4	X	0.2382	0.2233	0.230	0.246
	Y	0.2254	0.240	0.250	0.236
Wa2-2	X	0.2715	0.263	0.272	0.280
	Y	0.234	0.243	0.2575	0.248
Wa2-4	X	0.263	0.255	0.264	0.272
	Y	0.243	0.2515	0.267	0.2575
Wa3-2	X	0.255	0.248	0.2568	0.263
	Y	0.2515	0.2598	0.2766	0.267
Wa3-4	X	0.2478	0.2398	0.2488	0.2568
	Y	0.2598	0.2681	0.2681	0.3766
Wb1-2	X	0.288	0.2808	0.2895	0.296
	Y	0.262	0.274	0.2905	0.276
Wb1-4	X	0.2808	0.2735	0.283	0.2895
	Y	0.274	0.286	0.305	0.2905
Wb2-2	X	0.2735	0.2683	0.2798	0.283
	Y	0.286	0.2948	0.3131	0.305
Wb2-4	X	0.2683	0.2623	0.275	0.2798
	Y	0.2948	0.3036	0.321	0.3131
Wc1-2	X	0.3073	0.3015	0.3158	0.319
	Y	0.29	0.3099	0.324	0.304
Wc2-1	X	0.2895	0.283	0.299	0.3015
	Y	0.2905	0.305	0.323	0.310
Wc2-3	X	0.3158	0.314	0.330	0.330
	Y	0.324	0.342	0.360	0.339
Wc3-2	X	0.2952	0.2912	0.3027	0.306
	Y	0.3187	0.3271	0.3412	0.332
Wc3-4	X	0.2912	0.287	0.2988	0.303
	Y	0.3271	0.3356	0.350	0.3412

Wc4-2	X	0.3183	0.3143	0.3255	0.330
	Y	0.3462	0.3554	0.3695	0.360
Wc4-4	X	0.3143	0.3102	0.322	0.3255
	Y	0.3554	0.3646	0.379	0.3695
Wd1-2	X	0.340	0.3412	0.3524	0.350
	Y	0.3298	0.3497	0.3611	0.3425
Wd1-4	X	0.330	0.330	0.3424	0.3412
	Y	0.339	0.360	0.3698	0.350
Wd1-6	X	0.3524	0.3547	0.361	0.3593
	Y	0.3611	0.3795	0.385	0.3681
Wd2-2	X	0.3424	0.3403	0.3547	0.3547
	Y	0.3698	0.3825	0.3955	0.3795
Wd2-4	X	0.3255	0.322	0.3363	0.3403
	Y	0.3695	0.379	0.3926	0.3825
Wd2-6	X	0.3547	0.3516	0.366	0.3635
	Y	0.3955	0.4062	0.419	0.402

WARM WHITE X/Y COORDINATES BIN - detailed sort

Code	X/Y	Characteristics			
WP0-1	X	0.476	0.468	0.481	0.489
	Y	0.388	0.400	0.415	0.403
WP1-1	X	0.468	0.460	0.473	0.481
	Y	0.400	0.412	0.427	0.415
WP2-1	X	0.4472	0.4569	0.4833	0.472
	Y	0.4244	0.4527	0.480	0.450
WP3-1	X	0.4167	0.430	0.457	0.4472
	Y	0.393	0.4249	0.4527	0.4244
WP4-1	X	0.3947	0.4034	0.430	0.4167
	Y	0.3702	0.3974	0.4249	0.393
WP4-3	X	0.4134	0.4217	0.4611	0.448
	Y	0.4284	0.4542	0.500	0.4684
WP5-2	X	0.3812	0.3878	0.4134	0.4034
	Y	0.3745	0.3988	0.4284	0.3974
WP6-1	X	0.356	0.3603	0.3812	0.3745
	Y	0.330	0.3528	0.3745	0.3493
WP6-3	X	0.3638	0.3677	0.394	0.3878
	Y	0.371	0.3914	0.422	0.3988
WP7-2	X	0.3443	0.3456	0.3638	0.3603
	Y	0.3362	0.350	0.371	0.3528
WP0-2	X	0.489	0.481	0.494	0.502
	Y	0.403	0.415	0.430	0.418
WP1-2	X	0.481	0.473	0.486	0.494
	Y	0.415	0.427	0.442	0.430
WP2-2	X	0.4569	0.4703	0.4833	0.4833
	Y	0.4527	0.4917	0.480	0.480
WP3-2	X	0.430	0.4611	0.4703	0.4569
	Y	0.4249	0.500	0.4917	0.4527
WP4-2	X	0.4034	0.4134	0.448	0.430
	Y	0.3974	0.4284	0.4684	0.4249
WP5-1	X	0.3745	0.3812	0.4034	0.3947
	Y	0.3493	0.3745	0.3974	0.3702

WP5-3	X	0.3878	0.394	0.4217	0.4134
	Y	0.3988	0.422	0.4542	0.4284
WP6-2	X	0.3603	0.3638	0.3878	0.3812
	Y	0.3528	0.371	0.3988	0.3745
WP7-1	X	0.3424	0.3443	0.3603	0.356
	Y	0.3162	0.3362	0.3528	0.330
WP7-3	X	0.3456	0.3472	0.3677	0.3638
	Y	0.350	0.3677	0.3914	0.371