

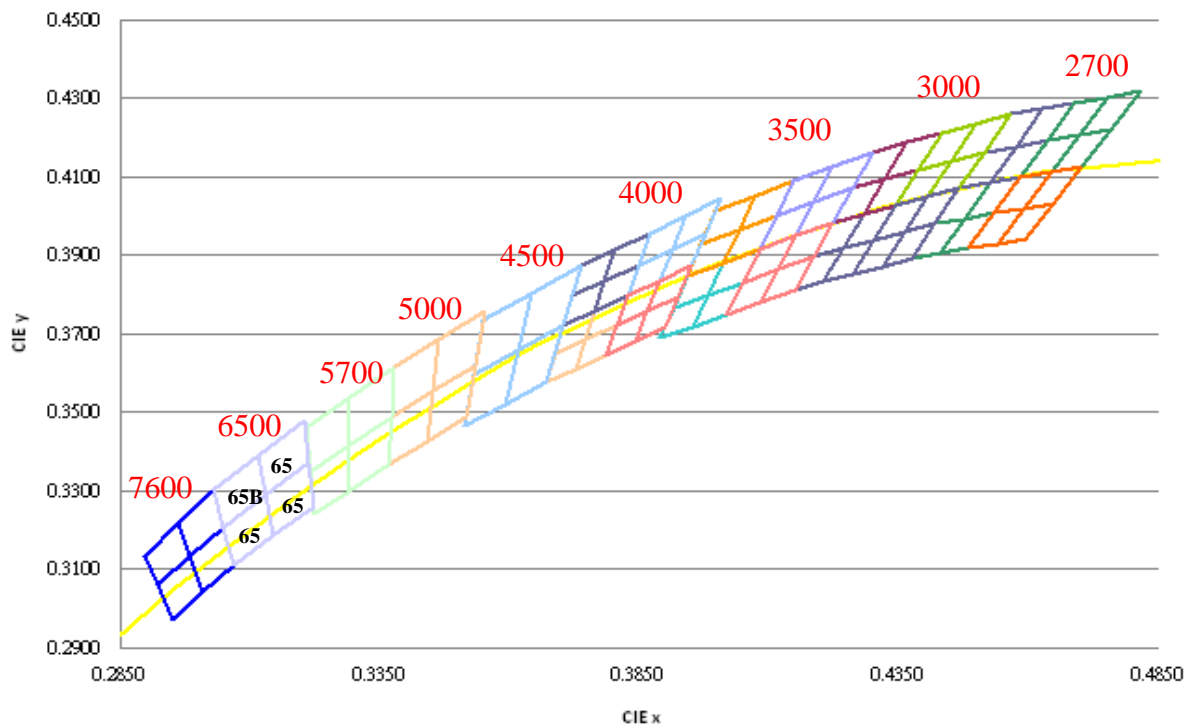
HCC S35-X Bin Table

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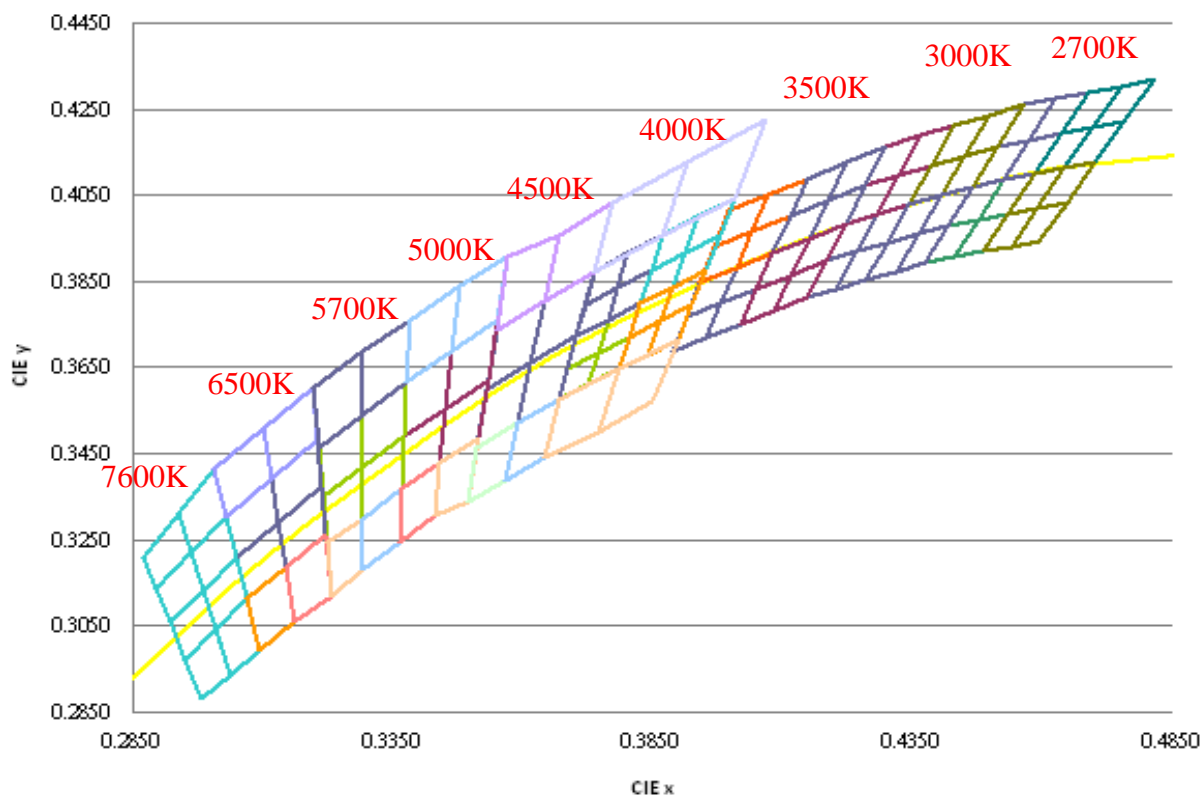
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HCC S35-X Bin Table

1. ANSI White Color Standard Bin Block



2. HCC S35-W White Color Bin Block



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S35 Bin Block Naming:

a. Warm White:2580K~3500K;Neutral White:3500K~5000K;Cool White:5000K~8200K.

b. Bin Block Naming:

A B C D

AB: for ANSI C78.377A standard 8 CCT range(2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K, 6500K).

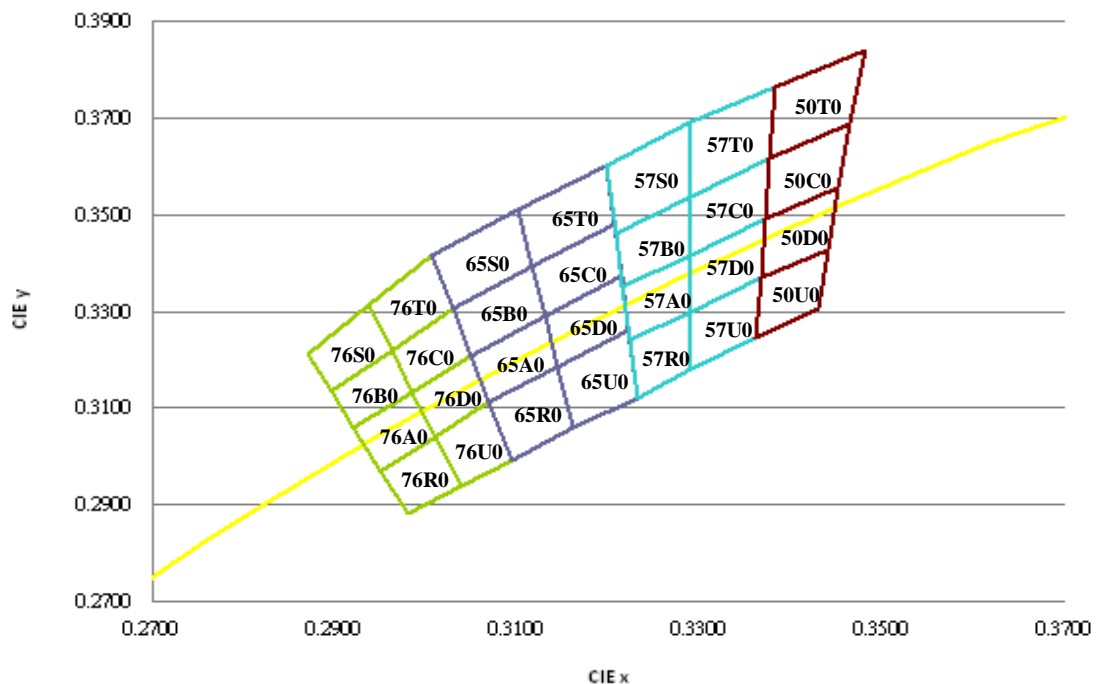
C: for the relative position within one CCT range(A,B,C,D,R,S,T,U).

D: to divide one Bin block to more small pieces (1,2,3,4). 0 is means before divided.

Example: 65C0, 40A1,27B3

Detail Bin Location :

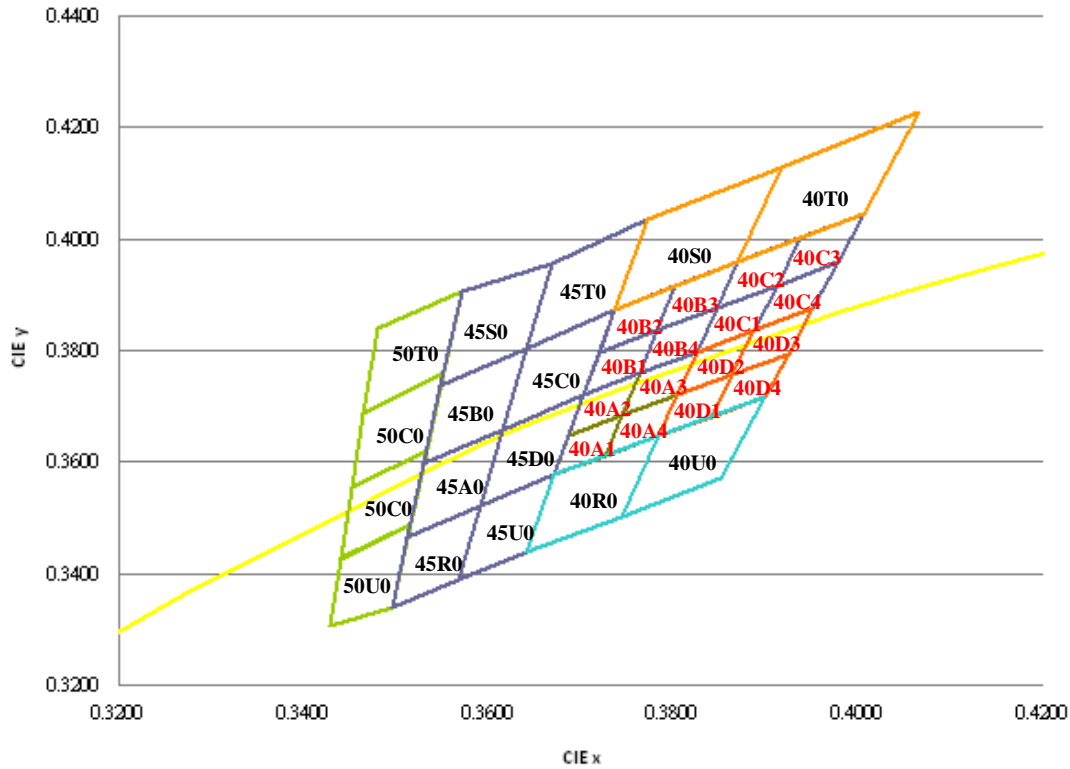
2.1 HCC S35-W Cool White Bin Location.



Region	x	y	Region	x	y
<u>76R0</u>	0.2980	0.2880	<u>65R0</u>	0.3068	0.3113
	0.2950	0.2970		0.3144	0.3186
	0.3009	0.3042		0.3161	0.3059
	0.3037	0.2937		0.3093	0.2993
<u>76A0</u>	0.2950	0.2970	<u>65A0</u>	0.3048	0.3207
	0.2920	0.3060		0.3130	0.3290
	0.2984	0.3133		0.3144	0.3186
	0.3009	0.3042		0.3068	0.3113
<u>76B0</u>	0.2920	0.3060	<u>65B0</u>	0.3028	0.3304
	0.2895	0.3135		0.3115	0.3391
	0.2962	0.3220		0.3130	0.3290
	0.2984	0.3133		0.3048	0.3207
<u>76S0</u>	0.2895	0.3135	<u>65S0</u>	0.3005	0.3415
	0.2870	0.3210		0.3099	0.3509
	0.2937	0.3312		0.3115	0.3391
	0.2962	0.3220		0.3028	0.3304
<u>76T0</u>	0.2962	0.3220	<u>65T0</u>	0.3099	0.3509
	0.2937	0.3312		0.3196	0.3602
	0.3005	0.3415		0.3205	0.3481
	0.3028	0.3304		0.3115	0.3391
<u>76C0</u>	0.2984	0.3133	<u>65C0</u>	0.3115	0.3391
	0.2962	0.3220		0.3205	0.3481
	0.3028	0.3304		0.3213	0.3373
	0.3048	0.3207		0.3130	0.3290
<u>76D0</u>	0.2984	0.3133	<u>65D0</u>	0.3130	0.3290
	0.3048	0.3207		0.3213	0.3373
	0.3068	0.3113		0.3221	0.3261
	0.3009	0.3042		0.3144	0.3186
<u>76U0</u>	0.3037	0.2937	<u>65U0</u>	0.3144	0.3186
	0.3009	0.3042		0.3221	0.3261
	0.3068	0.3113		0.3231	0.3120
	0.3093	0.2993		0.3161	0.3059

Region	x	y	Region	x	y
<u>57R0</u>	0.3222	0.3243	<u>50R0</u>	0.3366	0.3369
	0.3290	0.3300		0.3440	0.3428
	0.3290	0.3180		0.3429	0.3307
	0.3231	0.3120		0.3361	0.3245
<u>57A0</u>	0.3215	0.3350	<u>50A0</u>	0.3371	0.3490
	0.3290	0.3417		0.3451	0.3554
	0.3290	0.3300		0.3440	0.3427
	0.3222	0.3243		0.3366	0.3369
<u>57B0</u>	0.3207	0.3462	<u>50B0</u>	0.3376	0.3616
	0.3290	0.3538		0.3463	0.3687
	0.3290	0.3417		0.3451	0.3554
	0.3215	0.3350		0.3371	0.3490
<u>57S0</u>	0.3196	0.3602	<u>50S0</u>	0.3381	0.3762
	0.3290	0.3690		0.3480	0.3840
	0.3290	0.3538		0.3463	0.3687
	0.3207	0.3462		0.3376	0.3616
<u>57T0</u>	0.3290	0.3690	<u>50T0</u>	0.3480	0.3840
	0.3381	0.3762		0.3571	0.3907
	0.3376	0.3616		0.3551	0.3760
	0.3290	0.3538		0.3463	0.3687
<u>57C0</u>	0.3290	0.3538	<u>50C0</u>	0.3463	0.3687
	0.3376	0.3616		0.3551	0.3760
	0.3371	0.3490		0.3533	0.3620
	0.3290	0.3417		0.3451	0.3554
<u>57D0</u>	0.3290	0.3417	<u>50D0</u>	0.3451	0.3554
	0.3371	0.3490		0.3533	0.3620
	0.3366	0.3369		0.3515	0.3487
	0.3290	0.3300		0.3440	0.3427
<u>57U0</u>	0.3290	0.3300	<u>50U0</u>	0.3440	0.3428
	0.3366	0.3369		0.3515	0.3487
	0.3361	0.3245		0.3495	0.3339
	0.3290	0.3180		0.3429	0.3307

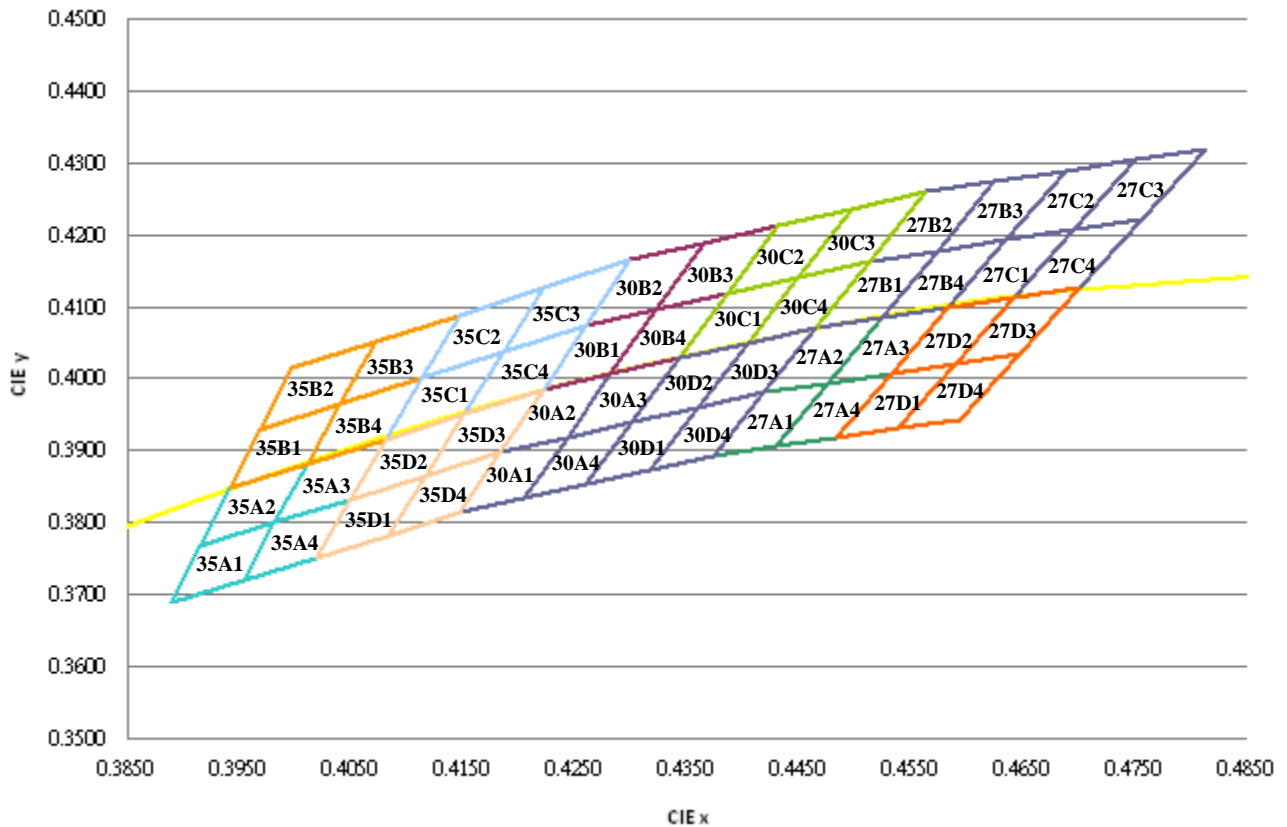
2.2 HCC S35-W Neutral White Bin Location.



Region	x	y	Region	x	y	Region	x	y
50T0	0.3480	0.3840	45R0	0.3512	0.3465	45T0	0.3668	0.3957
	0.3571	0.3907		0.3590	0.3521		0.3771	0.4034
	0.3551	0.3760		0.3567	0.3389		0.3736	0.3874
	0.3463	0.3687		0.3495	0.3339		0.3641	0.3804
50C0	0.3463	0.3687	45A0	0.3530	0.3597	45C0	0.3641	0.3804
	0.3551	0.3760		0.3615	0.3659		0.3736	0.3874
	0.3533	0.3620		0.3590	0.3521		0.3702	0.3722
	0.3451	0.3554		0.3512	0.3465		0.3615	0.3659
50D0	0.3451	0.3554	45B0	0.3548	0.3736	45D0	0.3615	0.3659
	0.3533	0.3620		0.3641	0.3804		0.3702	0.3722
	0.3515	0.3487		0.3615	0.3659		0.3670	0.3578
	0.3440	0.3427		0.3530	0.3597		0.3590	0.3521
50U0	0.3440	0.3428	45S0	0.3571	0.3907	45U0	0.3590	0.3521
	0.3515	0.3487		0.3668	0.3957		0.3670	0.3578
	0.3495	0.3339		0.3641	0.3804		0.3640	0.3440
	0.3429	0.3307		0.3548	0.3736		0.3567	0.3389

Region	x	y	Region	x	y	Region	x	y
<u>40A1</u>	0.3670	0.3578	<u>40C1</u>	0.3825	0.3798	<u>40R0</u>	0.3670	0.3578
	0.3686	0.3649		0.3847	0.3877		0.3783	0.3646
	0.3744	0.3685		0.3912	0.3917		0.3743	0.3502
	0.3726	0.3612		0.3887	0.3836		0.3640	0.3440
<u>40A2</u>	0.3686	0.3649	<u>40C2</u>	0.3847	0.3877	<u>40S0</u>	0.3771	0.4034
	0.3702	0.3722		0.3869	0.3958		0.3916	0.4127
	0.3763	0.3760		0.3937	0.4001		0.3869	0.3958
	0.3744	0.3685		0.3912	0.3917		0.3736	0.3874
<u>40A3</u>	0.3744	0.3685	<u>40C3</u>	0.3912	0.3917	<u>40T0</u>	0.3916	0.4127
	0.3763	0.3760		0.3937	0.4001		0.4066	0.4228
	0.3825	0.3798		0.4006	0.4044		0.4006	0.4044
	0.3804	0.3721		0.3978	0.3958		0.3869	0.3958
<u>40A4</u>	0.3726	0.3612	<u>40C4</u>	0.3887	0.3836	<u>40U0</u>	0.3783	0.3646
	0.3744	0.3685		0.3912	0.3917		0.3898	0.3716
	0.3804	0.3721		0.3978	0.3958		0.3850	0.3572
	0.3783	0.3646		0.3950	0.3875		0.3743	0.3502
<u>40B1</u>	0.3702	0.3722	<u>40D1</u>	0.3783	0.3646			
	0.3719	0.3797		0.3804	0.3721			
	0.3782	0.3837		0.3863	0.3758			
	0.3763	0.3760		0.3840	0.3681			
<u>40B2</u>	0.3719	0.3797	<u>40D2</u>	0.3804	0.3721			
	0.3736	0.3874		0.3825	0.3798			
	0.3802	0.3916		0.3887	0.3836			
	0.3782	0.3837		0.3863	0.3758			
<u>40B3</u>	0.3782	0.3837	<u>40D3</u>	0.3863	0.3758			
	0.3802	0.3916		0.3887	0.3836			
	0.3869	0.3958		0.3950	0.3875			
	0.3847	0.3877		0.3924	0.3794			
<u>40B4</u>	0.3763	0.3760	<u>40D4</u>	0.3840	0.3681			
	0.3782	0.3837		0.3863	0.3758			
	0.3847	0.3877		0.3924	0.3794			
	0.3825	0.3798		0.3898	0.3716			

2.3 HCC S35-W Warm White Bin Location.



Region	x	y	Region	x	y
<u>35A1</u>	0.3889	0.3690	<u>35B1</u>	0.3941	0.3848
	0.3915	0.3768		0.3968	0.3930
	0.3981	0.3800		0.4040	0.3966
	0.3953	0.3720		0.4010	0.3882
<u>35A2</u>	0.3915	0.3768	<u>35B2</u>	0.3968	0.3930
	0.3941	0.3848		0.3996	0.4015
	0.4010	0.3882		0.4071	0.4052
	0.3981	0.3800		0.4040	0.3966
<u>35A3</u>	0.3981	0.3800	<u>35B3</u>	0.4040	0.3966
	0.4010	0.3882		0.4071	0.4052
	0.4080	0.3916		0.4146	0.4089
	0.4048	0.3832		0.4113	0.4001
<u>35A4</u>	0.3953	0.3720	<u>35B4</u>	0.4010	0.3882
	0.3981	0.3800		0.4040	0.3966
	0.4048	0.3832		0.4113	0.4001
	0.4017	0.3751		0.4080	0.3916

Region	x	y	Region	x	y	Region	x	y
<u>35C1</u>	0.4080	0.3916	<u>30A1</u>	0.4147	0.3814	<u>30C1</u>	0.4342	0.4028
	0.4113	0.4001		0.4183	0.3898		0.4385	0.4119
	0.4186	0.4037		0.4242	0.3919		0.4449	0.4141
	0.4150	0.3950		0.4203	0.3833		0.4403	0.4049
<u>35C2</u>	0.4113	0.4001	<u>30A2</u>	0.4183	0.3898	<u>30C2</u>	0.4385	0.4119
	0.4146	0.4089		0.4221	0.3984		0.4430	0.4212
	0.4222	0.4127		0.4281	0.4006		0.4496	0.4236
	0.4186	0.4037		0.4242	0.3919		0.4449	0.4141
<u>35C3</u>	0.4186	0.4037	<u>30A3</u>	0.4242	0.3919	<u>30C3</u>	0.4449	0.4141
	0.4222	0.4127		0.4281	0.4006		0.4496	0.4236
	0.4299	0.4165		0.4342	0.4028		0.4562	0.4260
	0.4259	0.4073		0.4300	0.3939		0.4513	0.4164
<u>35C4</u>	0.4150	0.3950	<u>30A4</u>	0.4203	0.3833	<u>30C4</u>	0.4403	0.4049
	0.4186	0.4037		0.4242	0.3919		0.4449	0.4141
	0.4259	0.4073		0.4300	0.3939		0.4513	0.4164
	0.4221	0.3984		0.4259	0.3853		0.4465	0.4071
<u>35D1</u>	0.4017	0.3751	<u>30B1</u>	0.4221	0.3984	<u>30D1</u>	0.4259	0.3853
	0.4048	0.3832		0.4259	0.4073		0.4300	0.3939
	0.4116	0.3865		0.4322	0.4096		0.4359	0.3960
	0.4082	0.3782		0.4281	0.4006		0.4316	0.3873
<u>35D2</u>	0.4048	0.3832	<u>30B2</u>	0.4259	0.4073	<u>30D2</u>	0.4300	0.3939
	0.4080	0.3916		0.4299	0.4165		0.4342	0.4028
	0.4150	0.3950		0.4364	0.4188		0.4403	0.4049
	0.4116	0.3865		0.4322	0.4096		0.4359	0.3960
<u>35D3</u>	0.4116	0.3865	<u>30B3</u>	0.4322	0.4096	<u>30D3</u>	0.4359	0.3960
	0.4150	0.3950		0.4364	0.4188		0.4403	0.4049
	0.4221	0.3984		0.4430	0.4212		0.4465	0.4071
	0.4183	0.3898		0.4385	0.4119		0.4418	0.3981
<u>35D4</u>	0.4082	0.3782	<u>30B4</u>	0.4281	0.4006	<u>30D4</u>	0.4316	0.3873
	0.4116	0.3865		0.4322	0.4096		0.4359	0.3960
	0.4183	0.3898		0.4385	0.4119		0.4418	0.3981
	0.4147	0.3814		0.4342	0.4028		0.4373	0.3893

Region	x	y	Region	x	y
<u>27A1</u>	0.4373	0.3893	<u>27C1</u>	0.4582	0.4099
	0.4418	0.3981		0.4634	0.4193
	0.4475	0.3994		0.4695	0.4207
	0.4428	0.3906		0.4641	0.4112
<u>27A2</u>	0.4418	0.3981	<u>27C2</u>	0.4634	0.4193
	0.4465	0.4071		0.4687	0.4289
	0.4523	0.4085		0.4750	0.4304
	0.4475	0.3994		0.4695	0.4207
<u>27A3</u>	0.4475	0.3994	<u>27C3</u>	0.4695	0.4207
	0.4523	0.4085		0.4750	0.4304
	0.4582	0.4099		0.4813	0.4319
	0.4532	0.4008		0.4756	0.4221
<u>27A4</u>	0.4428	0.3906	<u>27C4</u>	0.4641	0.4112
	0.4475	0.3994		0.4695	0.4207
	0.4532	0.4008		0.4756	0.4221
	0.4483	0.3919		0.4700	0.4126
<u>27B1</u>	0.4465	0.4071	<u>27D1</u>	0.4483	0.3919
	0.4513	0.4164		0.4532	0.4008
	0.4573	0.4178		0.4589	0.4021
	0.4523	0.4085		0.4538	0.3931
<u>27B2</u>	0.4513	0.4164	<u>27D2</u>	0.4532	0.4008
	0.4562	0.4260		0.4582	0.4099
	0.4624	0.4274		0.4641	0.4112
	0.4573	0.4178		0.4589	0.4021
<u>27B3</u>	0.4573	0.4178	<u>27D3</u>	0.4589	0.4021
	0.4624	0.4274		0.4641	0.4112
	0.4687	0.4289		0.4700	0.4126
	0.4634	0.4193		0.4646	0.4034
<u>27B4</u>	0.4523	0.4085	<u>27D4</u>	0.4538	0.3931
	0.4573	0.4178		0.4589	0.4021
	0.4634	0.4193		0.4646	0.4034
	0.4582	0.4099		0.4593	0.3944

3. Luminous Flux Binning

Bin Code	Min.	Max.
I2	12.0	16.0
I3	16.0	20.0
J2	20.0	25.0
J3	25.0	30.0
K2	30.0	35.0
K3	35.0	40.0
M2	40.0	45.5
M3	45.5	51.0
N2	51.0	57.0
N3	57.0	63.0
N4	63.0	69.0
P2	69.0	75.0
P3	75.0	81.0
P4	81.0	87.0
Q2	87.0	93.5
Q3	93.5	100.0
Q4	100.0	107.0
Q5	107.0	114.0
R2	114.0	122.0
R3	122.0	130.0
R4	130.0	138.0
R5	138.0	146.0
S2	146.0	155.0
S3	155.0	164.0

4. Forward Voltage(V_F) Binning

	Min.	Max.
V18	1.8	2.0
V20	2.0	2.2
V22	2.2	2.4
V24	2.4	2.6
V26	2.6	2.8
V28	2.8	3.0
V30	3.0	3.2
V32	3.2	3.4
V34	3.4	3.6
V36	3.6	3.8

5. Wavelength Binning

Color		Min.	Max.
Dental Blue	D3	450	455
	D4	455	460
	D5	460	465
Blue	B3	465	470
	B4	470	475
	B5	475	480
	B6	480	485
Green	G2	520	525
	G3	525	530
	G4	5330	535
Amber	A2	585	590
	A3	590	595
Red-Orange	O3	610	615
	O4	615	620
Red	R2	620	625
	R3	625	630