



Bin Table

C3535 Series Bin Table

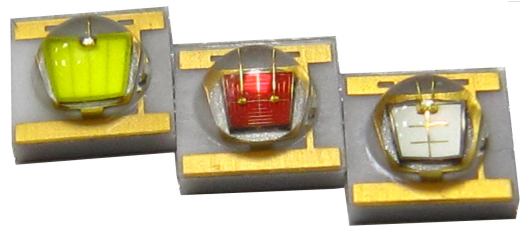


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RoHS Compliant

Product Nomenclature

C 3535 L – C0 L 1 - E1H11S

1 2~5 6 7~8 9 10 11~16

Code 1: Substrate composition, C: Ceramic Al₂O₃

Code 2.3.4.5: Package size, 3535: 3.5*3.5mm

Code 6: Product Class

Code 7.8: Wavelength/CCT Class



Code 6: Product Class	Code 7.8: Wavelength Class	Color rendering
L (Lighting)	C0	Cool White CRI typ. 70
	N1	Neutral white CRI typ. 75
	W2	Warm white CRI typ. 80
M (Pure color)	SN	Super red (650-670nm)
	RN	Red (620-635nm)
	AN	Amber (585-600nm)
	GN	Green (520-535nm)
	CN	Cyan (500-520nm)
	BN	Blue(460-475nm)
	DN	Royal blue (445-460nm)
X (IR)	FN	Far Red (720-750nm)
	IN	IR (840-870nm)
	JN	IR (925-955nm)
U (UV)	UN	UV (380-420nm)
	VN	Deep UV (365-380nm)

Code 9: Lens type, L: 140~125 degree, A: 90 degree, F: 65 degree

Code 10: Lens version

Code 11~16: Internal code



Group Code

$$Y_1 Y_2 Y_3 \quad Y_4 Y_5 Y_6 \quad Y_7 Y_8 Y_9$$

$Y_1 Y_2 Y_3$: Luminous Flux / Radiation Power Bin

$Y_4 Y_5 Y_6$: Color / Wavelength Bin

$Y_7 Y_8 Y_9$: Forward Voltage Bin

Luminous Flux Binning

Luminous Flux Abbreviation	Range(lm)	
	Min.	Max.
NIC	14	18
NJB	18	23.5
NJC	23.5	30.6
NKB	30.6	35.2
NKC	35.2	39.8
NMB	39.8	45.7
NMC	45.7	51.7
NNB	51.7	56.8
NNC	56.8	62
NND	62	67.2
NPB	67.2	73.9
NPC	73.9	80.6
NPD	80.6	87.4

Luminous Flux Abbreviation	Range(lm)	
	Min.	Max.
NQB	87.4	93.9
NQC	93.9	100
NQD	100	107
NQE	107	114
NRB	114	122
NRC	122	130
NRD	130	139
NRE	139	148
NSB	148	156
NSC	156	164
NSD	164	172
NSE	172	180



Radiation Power Binning

Radiation power for UV, IR and Royal Blue

Power	Range(mW)		Power	Range(mW)	
Abbreviation	Min.	Max.	Abbreviation	Min.	Max.
ND1	200	240	NE5	560	600
ND2	240	280	NF1	600	650
ND3	280	320	NF2	650	700
ND4	320	360	NF3	700	750
ND5	360	400	NF4	750	800
NE1	400	440	NF5	800	850
NE2	440	480	NG1	850	900
NE3	480	520	NG2	900	950
NE4	520	560	NG3	950	1000

Forward Voltage Binning

Forward voltage	Range (V)	
Abbreviation	Min.	Max.
V14	1.4	1.6
V16	1.6	1.8
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



Wavelength Binning

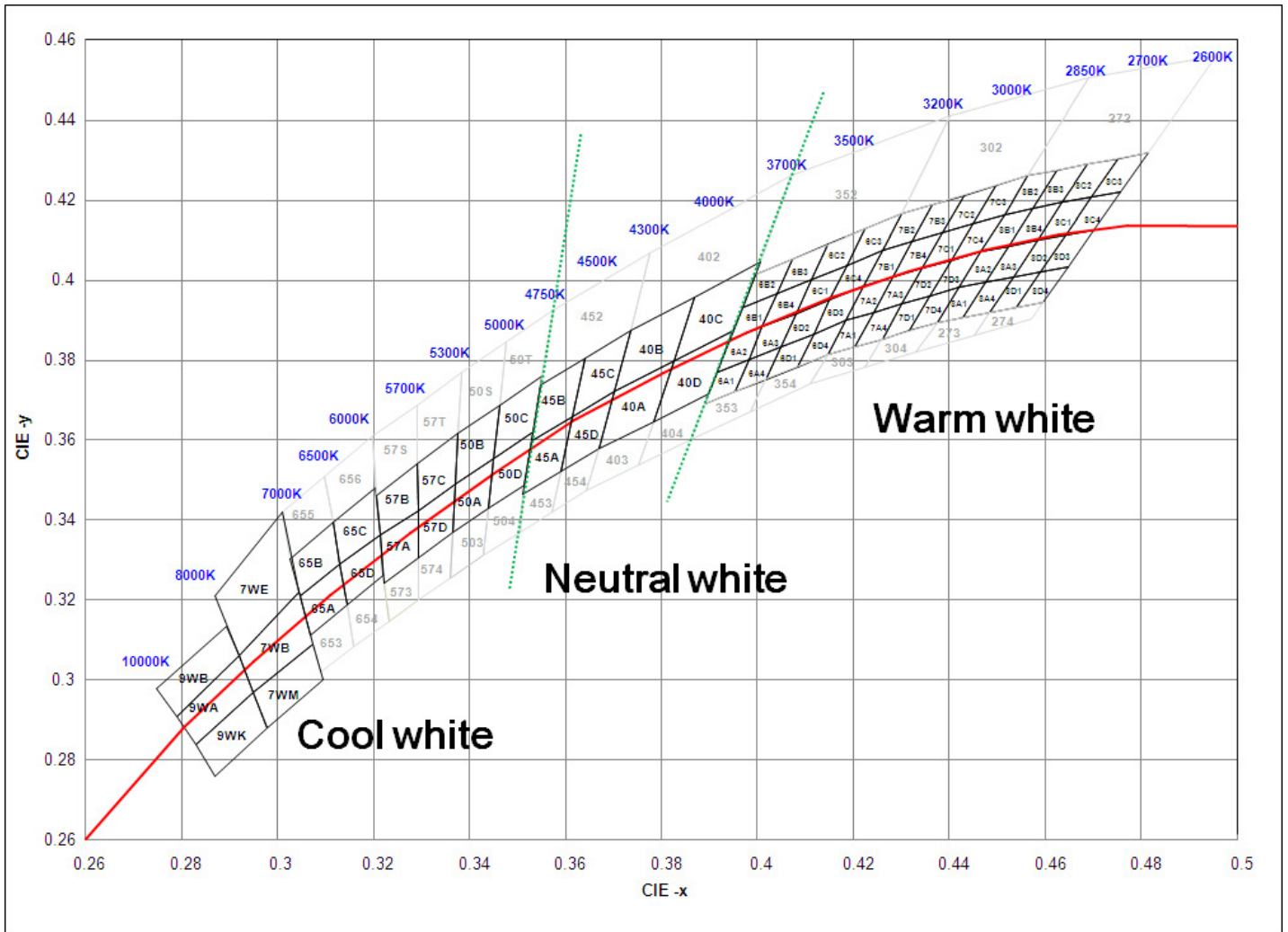
Color	Abbreviation	Min.	Max.
Green	G10	520	525
	G20	525	530
	G30	530	535
Cyan	C30	500	505
	C40	505	510
	C50	510	515
	C60	515	520
Blue	B10	460	465
	B20	465	470
	B30	470	475
Royal Blue	D20	445	450
	D30	450	455
	D40	455	460
UV	U40	380	390
	U50	390	400
	U60	400	410
	U70	410	420
	U80	420	430

Color	Abbreviation	Min.	Max.
Amber	A20	585	590
	A30	590	595
	A40	595	600
Red	R10	620	625
	R20	625	630
	R30	630	635
Super Red	S2X	650	670
Far Red	F3X	720	750
IR	I4X	840	870
	J5X	925	955

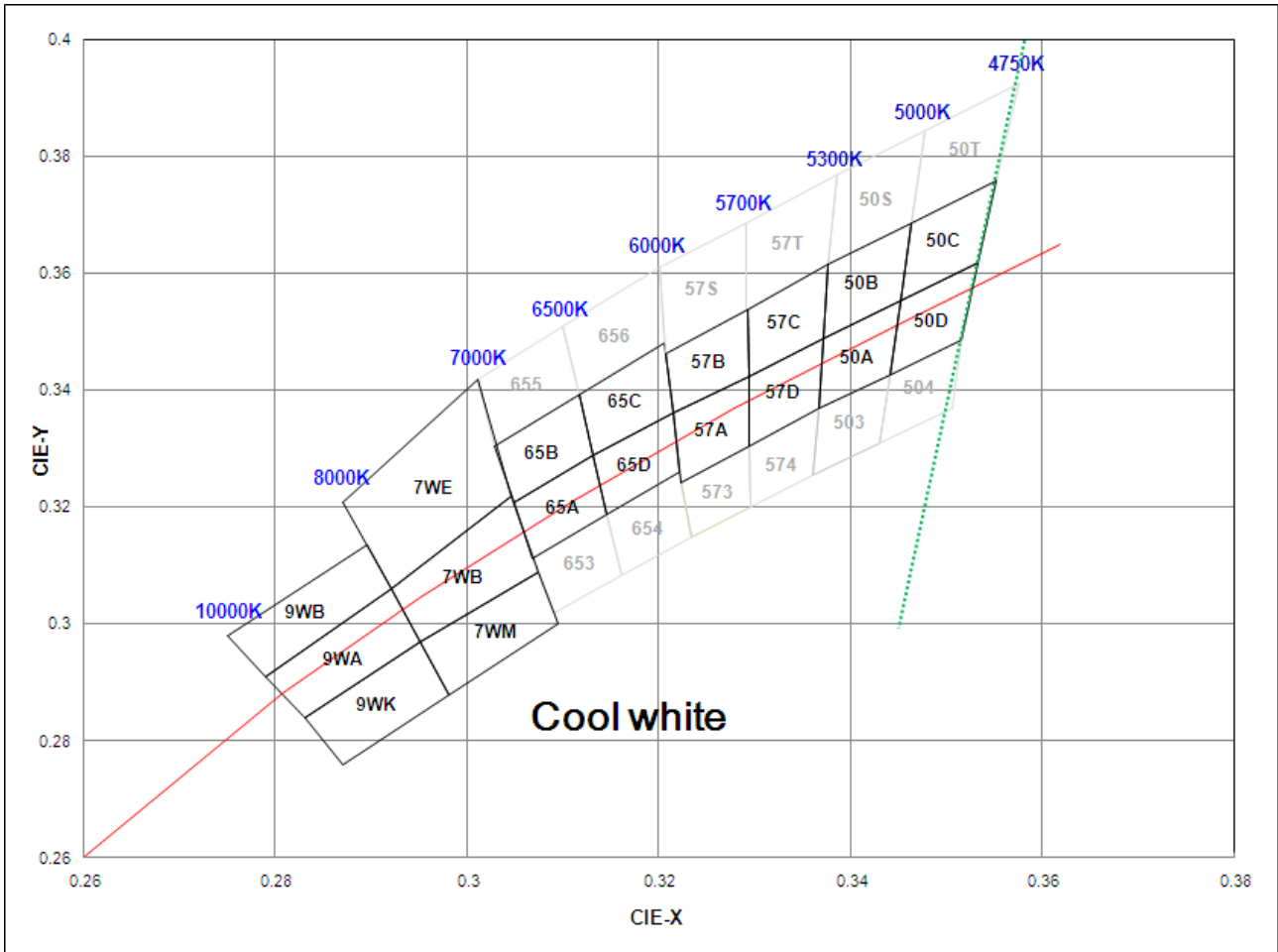


White Color Binning

ANSI White Overview



ANSI White – Cool white (4750-10000K)



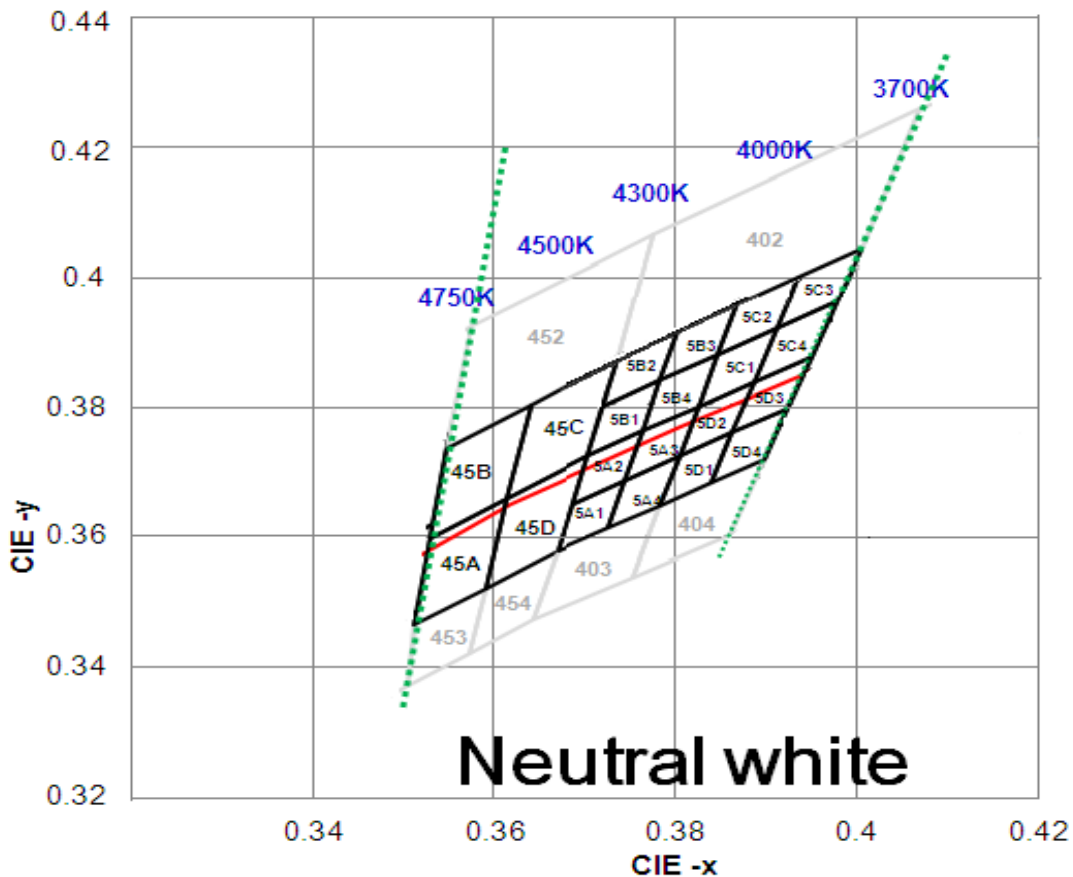
	x	y
7WE	0.292	0.306
	0.287	0.321
	0.301	0.342
	0.3046	0.3219
7WM	0.298	0.288
	0.295	0.297
	0.3074	0.309
	0.3095	0.3
7WB	0.295	0.297
	0.292	0.306
	0.3046	0.3219
	0.3074	0.309

	x	y
9WB	0.2895	0.3135
	0.275	0.298
	0.279	0.291
	0.292	0.306
9WA	0.283	0.284
	0.279	0.291
	0.292	0.306
	0.295	0.297
9WK	0.287	0.276
	0.283	0.284
	0.295	0.297
	0.298	0.288



	x	y		x	y		x	y
50A	0.3366	0.3369	57A	0.3222	0.3243	65A	0.3068	0.3113
	0.3371	0.349		0.3214	0.3362		0.3048	0.3209
	0.3451	0.3554		0.3293	0.3424		0.3131	0.329
	0.344	0.3428		0.3294	0.3306		0.3145	0.3187
50B	0.3371	0.349	57B	0.3214	0.3362	65B	0.3048	0.3209
	0.3376	0.3616		0.3207	0.3462		0.3028	0.3304
	0.3463	0.3687		0.3292	0.3539		0.3117	0.3393
	0.3451	0.3554		0.3293	0.3424		0.3131	0.329
50C	0.3451	0.3554	57C	0.3293	0.3424	65C	0.3131	0.329
	0.3463	0.3687		0.3292	0.3539		0.3117	0.3393
	0.3551	0.376		0.3376	0.3616		0.3205	0.3481
	0.3533	0.362		0.3371	0.349		0.3214	0.3362
50D	0.344	0.3428	57D	0.3294	0.3306	65D	0.3145	0.3187
	0.3451	0.3554		0.3293	0.3424		0.3131	0.329
	0.3533	0.362		0.3371	0.349		0.3214	0.3362
	0.3515	0.3487		0.3366	0.3369		0.3221	0.3261

ANSI White – Neutral white (3700-4750K) 1/16 fine bin

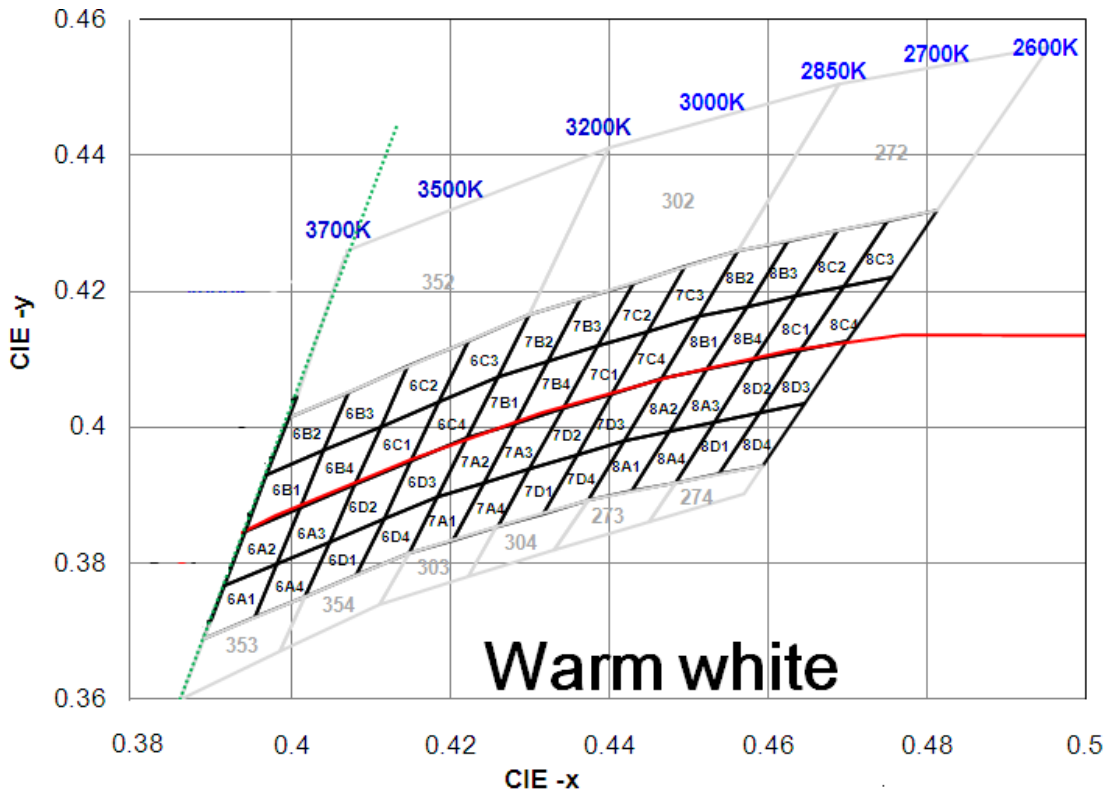


	x	y		x	y		x	y
5A1	0.367	0.3578	5B1	0.3702	0.3722	5C1	0.3825	0.3798
	0.3686	0.3649		0.3719	0.3797		0.3847	0.3877
	0.3744	0.3685		0.3782	0.3837		0.3912	0.3917
	0.3726	0.3612		0.3763	0.376		0.3887	0.3836
5A2	0.3686	0.3649	5B2	0.3719	0.3797	5C2	0.3847	0.3877
	0.3702	0.3722		0.3736	0.3874		0.3869	0.3958
	0.3763	0.376		0.3802	0.3916		0.3937	0.4001
	0.3744	0.3685		0.3782	0.3837		0.3912	0.3917
5A3	0.3744	0.3685	5B3	0.3782	0.3837	5C3	0.3912	0.3917
	0.3763	0.376		0.3802	0.3916		0.3937	0.4001
	0.3825	0.3798		0.3869	0.3958		0.4006	0.4044
	0.3804	0.3721		0.3847	0.3877		0.3978	0.3958
5A4	0.3726	0.3612	5B4	0.3763	0.376	5C4	0.3887	0.3836
	0.3744	0.3685		0.3782	0.3837		0.3912	0.3917
	0.3804	0.3721		0.3847	0.3877		0.3978	0.3958
	0.3783	0.3646		0.3825	0.3798		0.395	0.3875

	x	y		x	y
5D1	0.3783	0.3646	45A	0.3512	0.3465
	0.3804	0.3721		0.3529	0.3597
	0.3863	0.3758		0.3615	0.3659
	0.384	0.3681		0.359	0.3521
5D2	0.3804	0.3721	45B	0.3529	0.3597
	0.3825	0.3798		0.3548	0.3736
	0.3887	0.3836		0.3641	0.3804
	0.3863	0.3758		0.3615	0.3659
5D3	0.3863	0.3758	45C	0.3615	0.3659
	0.3887	0.3836		0.3641	0.3804
	0.395	0.3875		0.3736	0.3874
	0.3924	0.3794		0.3702	0.3722
5D4	0.384	0.3681	45D	0.359	0.3521
	0.3863	0.3758		0.3615	0.3659
	0.3924	0.3794		0.3702	0.3722
	0.3898	0.3716		0.367	0.3578



ANSI White – Warm white (2600-3700K) 1/16 fine bin



ANSI White - CCT 4000K 1/16 fine bin

	x	y		x	y		x	y
6A1	0.3889	0.3690	6B1	0.3941	0.3848	6C1	0.4080	0.3916
	0.3915	0.3768		0.3968	0.3930		0.4113	0.4001
	0.3981	0.3800		0.4040	0.3966		0.4186	0.4037
	0.3953	0.3720		0.4010	0.3882		0.4150	0.3950
6A2	0.3915	0.3768	6B2	0.3968	0.3930	6C2	0.4113	0.4001
	0.3941	0.3848		0.3996	0.4015		0.4146	0.4089
	0.4010	0.3882		0.4071	0.4052		0.4222	0.4127
	0.3981	0.3800		0.4040	0.3966		0.4186	0.4037
6A3	0.3981	0.3800	6B3	0.4040	0.3966	6C3	0.4186	0.4037
	0.4010	0.3882		0.4071	0.4052		0.4222	0.4127
	0.4080	0.3916		0.4146	0.4089		0.4299	0.4165
	0.4048	0.3832		0.4113	0.4001		0.4259	0.4073
6A4	0.3953	0.3720	6B4	0.4010	0.3882	6C4	0.4150	0.3950
	0.3981	0.3800		0.4040	0.3966		0.4186	0.4037
	0.4048	0.3832		0.4113	0.4001		0.4259	0.4073
	0.4017	0.3751		0.4080	0.3916		0.4221	0.3984



C3535 Series Bin Table

	x	y		x	y		x	y
6D1	0.4017	0.3751	7A1	0.4147	0.3814	7B1	0.4221	0.3984
	0.4048	0.3832		0.4183	0.3898		0.4259	0.4073
	0.4116	0.3865		0.4242	0.3919		0.4322	0.4096
	0.4082	0.3782		0.4203	0.3833		0.4281	0.4006
6D2	0.4048	0.3832	7A2	0.4183	0.3898	7B2	0.4259	0.4073
	0.4080	0.3916		0.4221	0.3984		0.4299	0.4165
	0.4150	0.3950		0.4281	0.4006		0.4364	0.4188
	0.4116	0.3865		0.4242	0.3919		0.4322	0.4096
6D3	0.4116	0.3865	7A3	0.4242	0.3919	7B3	0.4322	0.4096
	0.4150	0.3950		0.4281	0.4006		0.4364	0.4188
	0.4221	0.3984		0.4342	0.4028		0.4430	0.4212
	0.4183	0.3898		0.4300	0.3939		0.4385	0.4119
6D4	0.4082	0.3782	7A4	0.4203	0.3833	7B4	0.4281	0.4006
	0.4116	0.3865		0.4242	0.3919		0.4322	0.4096
	0.4183	0.3898		0.4300	0.3939		0.4385	0.4119
	0.4147	0.3814		0.4259	0.3853		0.4342	0.4028

	x	y		x	y		x	y
7C1	0.4342	0.4028	7D1	0.4259	0.3853	8A1	0.4373	0.3893
	0.4385	0.4119		0.4300	0.3939		0.4418	0.3981
	0.4449	0.4141		0.4359	0.3960		0.4475	0.3994
	0.4403	0.4049		0.4316	0.3873		0.4428	0.3906
7C2	0.4385	0.4119	7D2	0.4300	0.3939	8A2	0.4418	0.3981
	0.4430	0.4212		0.4342	0.4028		0.4465	0.4071
	0.4496	0.4236		0.4403	0.4049		0.4523	0.4085
	0.4449	0.4141		0.4359	0.3960		0.4475	0.3994
7C3	0.4449	0.4141	7D3	0.4359	0.3960	8A3	0.4475	0.3994
	0.4496	0.4236		0.4403	0.4049		0.4523	0.4085
	0.4562	0.4260		0.4465	0.4071		0.4582	0.4099
	0.4513	0.4164		0.4418	0.3981		0.4532	0.4008
7C4	0.4403	0.4049	7D4	0.4316	0.3873	8A4	0.4428	0.3906
	0.4449	0.4141		0.4359	0.3960		0.4475	0.3994
	0.4513	0.4164		0.4418	0.3981		0.4532	0.4008
	0.4465	0.4071		0.4373	0.3893		0.4483	0.3919



C3535 Series Bin Table

	x	y		x	y		x	y
8B1	0.4465	0.4071	8C1	0.4582	0.4099	8D1	0.4483	0.3919
	0.4513	0.4164		0.4634	0.4193		0.4532	0.4008
	0.4573	0.4178		0.4695	0.4207		0.4589	0.4021
	0.4523	0.4085		0.4641	0.4112		0.4538	0.3931
8B2	0.4513	0.4164	8C2	0.4634	0.4193	8D2	0.4532	0.4008
	0.4562	0.4260		0.4687	0.4289		0.4582	0.4099
	0.4624	0.4274		0.4750	0.4304		0.4641	0.4112
	0.4573	0.4178		0.4695	0.4207		0.4589	0.4021
8B3	0.4573	0.4178	8C3	0.4695	0.4207	8D3	0.4589	0.4021
	0.4624	0.4274		0.4750	0.4304		0.4641	0.4112
	0.4687	0.4289		0.4813	0.4319		0.4700	0.4126
	0.4634	0.4193		0.4756	0.4221		0.4646	0.4034
8B4	0.4523	0.4085	8C4	0.4641	0.4112	8D4	0.4538	0.3931
	0.4573	0.4178		0.4695	0.4207		0.4589	0.4021
	0.4634	0.4193		0.4756	0.4221		0.4646	0.4034
	0.4582	0.4099		0.4700	0.4126		0.4593	0.3944



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TSLC Corporation is the leader in LED solutions. Unlimited design flexibility for interior and exterior spaces with high-end lighting effect; energy-efficient for UV curing to improve the quality of medical care; horticulture solutions create a better environment for everyone; high-intensity rotatable lightings for the entertainment industry, TSLC is always there for your lighting needs.

For further company or product information, please visit us at www.tslc.com.tw or please contact sales@tslc.com.tw.



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