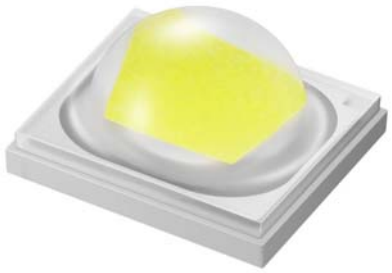
THE DATASHEET OF

SPHWH1L3D30ED4TMJ3

Rev: 003

CODE & BINNING

LH351B – 3535 Ceramic LED @85℃



Contents

SAMSUNG ELECTRONICS

95, Samsung2-Ro, Giheung-Gu,
Yongin-City, Gyeonggi-Do 446-711, KOREA

1. Product Code Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S	P	H	W	H	1	L	3	D	3	0	E	D	4	V	0	G	3

Code	PKG information	Specification		
1 2 3	Samsung Package High Power			
4 5	Color	WH	White	
6	Product Version			
7 8	Product	L3	LH351	
9	Lens type	D	Dome Lens	
10	Operating condition	3	Max 3 Watt	
11	Not defined	0	Default	
12	CRI	C	Min. 70+	
		D	Min. 75+	
		E	Min. 80+	
		G	Min. 90+	
13 14	V_F	D1	2.6~2.7 V	D4
		E1	2.7~2.8 V	
		F1	2.8~2.9 V	
		G1	2.9~3.0 V	
15 16	CCT	W0	2700K	
		V0	3000K	
		U0	3500K	
		T0	4000K	
		R0	5000K	
		Q0	5700K	
		P0	6500K	
		N0	7600K	
17 18	Luminous Flux	E1	80~90 lm	E8[1)]
		F1	90~100 lm	F7
		G1	100~110 lm	G6
		H1	110~120 lm	H5
		J1	120~130 lm	J4
		K1	130~140 lm	
		M1	140~150 lm	
		N1	150~160 lm	

1) Digit 17 : Min. spec.
Digit 18 : The number of high bin rank from Min. spec.
Ex) F1 = 90~100 lm, F7 = 90~160 lm

2. Luminous Flux Bins (T_j = 85℃)

Nominal CCT	Product Code	Flux Rank	Sorting Condition Flux @350mA	
			Flux Bin	Flux Range
2700K	SPHWH1L3D30ED4W0F3	F3	F1	90 ~ 100
			G1	100 ~ 110
			H1	110 ~ 120
	SPHWH1L3D30ED4WPF3	F3	F1	90 ~ 100
			G1	100 ~ 110
			H1	110 ~ 120
	SPHWH1L3D30ED4WMF3	F3	F1	90 ~ 100
			G1	100 ~ 110
			H1	110 ~ 120
	SPHWH1L3D30ED4W0G3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4WPG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4WMG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4W0H3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4WPH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4WMH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140

2. Luminous Flux Bins (T_j = 85℃)

Nominal CCT	Product Code	Flux Rank	Sorting Condition Flux @350mA	
			Flux Bin	Flux Range
3000K	SPHWH1L3D30ED4V0G3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4VPG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4VMG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4V0H3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4VPH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4VMH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
3500K	SPHWH1L3D30ED4U0G3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4UPG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4UMG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4U0H3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4UPH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4UMH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140

2. Luminous Flux Bins (T_j = 85℃) (Continued)

Nominal CCT	Product Code	Flux Rank	Sorting Condition Flux @350mA	
			Flux Bin	Flux Range
4000K	SPHWH1L3D30ED4T0G3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4TPG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4TMG3	G3	G1	100 ~ 110
			H1	110 ~ 120
			J1	120 ~ 130
	SPHWH1L3D30ED4T0H3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4TPH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4TMH3	H3	H1	110 ~ 120
			J1	120 ~ 130
			K1	130 ~ 140
	SPHWH1L3D30ED4T0J3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30ED4TPJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30ED4TMJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150

2. Luminous Flux Bins (T_j = 85℃) (Continued)

Nominal CCT	Product Code	Flux Rank	Sorting Condition Flux @350mA	
			Flux Bin	Flux Range
4000K	SPHWH1L3D30CD4T0J3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4TPJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4TMJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4T0K3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
	SPHWH1L3D30CD4TPK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
	SPHWH1L3D30CD4TMK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
	SPHWH1L3D30CD4T0M3	M3	M1	140 ~ 150
			N1	150 ~ 160
			P1	160 ~ 170
	SPHWH1L3D30CD4TPM3	M3	M1	140 ~ 150
			N1	150 ~ 160
			P1	160 ~ 170
	SPHWH1L3D30CD4TMM3	M3	M1	140 ~ 150
			N1	150 ~ 160
			P1	160 ~ 170

2. Luminous Flux Bins (T_j = 85℃) (Continued)

Nominal CCT	Product Code	Flux Rank	Sorting Condition Flux @350mA	
			Flux Bin	Flux Range
5000K	SPHWH1L3D30CD4RTJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4RTK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
	SPHWH1L3D30CD4RTM3	M3	M1	140 ~ 150
			N1	150 ~ 160
			P1	160 ~ 170
	SPHWH1L3D30DD4RTJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30DD4RTK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
5700K	SPHWH1L3D30CD4QTJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4QTK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
	SPHWH1L3D30CD4QTM3	M3	M1	140 ~ 150
			N1	150 ~ 160
			P1	160 ~ 170
	SPHWH1L3D30DD4QTJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30DD4QTK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160
6500K	SPHWH1L3D30CD4PTJ3	J3	J1	120 ~ 130
			K1	130 ~ 140
			M1	140 ~ 150
	SPHWH1L3D30CD4PTK3	K3	K1	130 ~ 140
			M1	140 ~ 150
			N1	150 ~ 160

3. Color Bins (T_j = 85℃)

3-1) Color Binning

Nominal CCT	Product Code	Color Rank	Chromaticity Bins
2700K	SPHWH1L3D30ED4W0F3	W0 (Whole Bin)	W1,W2,W3,W4,W5,W6,W7,W8, W9,WA,WB,WC,WD,WE,WF,WG
	SPHWH1L3D30ED4WPF3	WP (Quarter Bin)	W6,W7,WA,WB
	SPHWH1L3D30ED4WMF3	WM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4W0G3	W0 (Whole Bin)	W1,W2,W3,W4,W5,W6,W7,W8, W9,WA,WB,WC,WD,WE,WF,WG
	SPHWH1L3D30ED4WPG3	WP (Quarter Bin)	W6,W7,WA,WB
	SPHWH1L3D30ED4WMG3	WM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4W0H3	W0 (Whole Bin)	W1,W2,W3,W4,W5,W6,W7,W8, W9,WA,WB,WC,WD,WE,WF,WG
	SPHWH1L3D30ED4WPH3	WP (Quarter Bin)	W6,W7,WA,WB
	SPHWH1L3D30ED4WMH3	WM (MacAdam 3-Step)	-
3000K	SPHWH1L3D30ED4V0G3	V0 (Whole Bin)	V1,V2,V3,V4,V5,V6,V7,V8, V9,VA,VB,VC,VD,VE,VF,VG
	SPHWH1L3D30ED4VPG3	VP (Quarter Bin)	V6,V7,VA,VB
	SPHWH1L3D30ED4VMG3	VM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4V0H3	V0 (Whole Bin)	V1,V2,V3,V4,V5,V6,V7,V8, V9,VA,VB,VC,VD,VE,VF,VG
	SPHWH1L3D30ED4VPH3	VP (Quarter Bin)	V6,V7,VA,VB
	SPHWH1L3D30ED4VMH3	VM (MacAdam 3-Step)	-

3. Color Bins (T_j = 85℃)

3-1) Color Binning

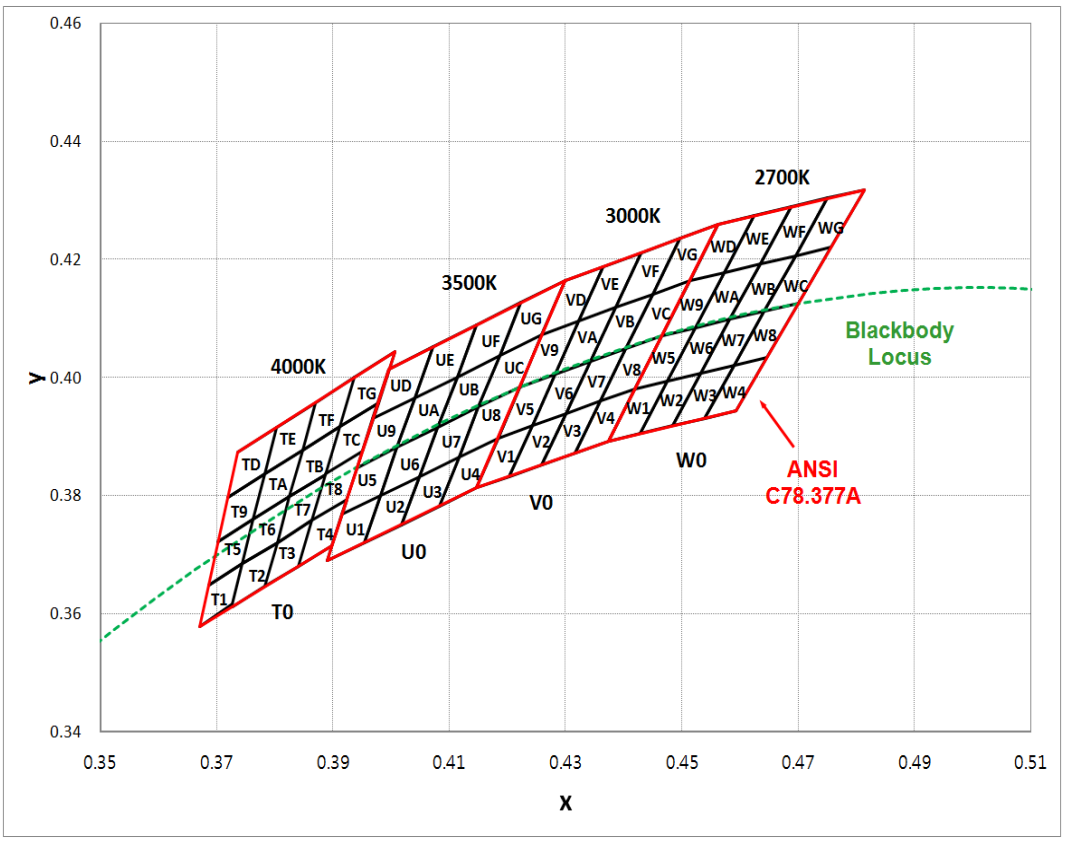
Nominal CCT	Product Code	Color Rank	Chromaticity Bins
3500K	SPHWH1L3D30ED4U0G3	U0 (Whole Bin)	U1,U2,U3,U4,U5,U6,U7,U8, U9,UA,UB,UC,UD,UE,UF,UG
	SPHWH1L3D30ED4UPG3	UP (Quarter Bin)	U6,U7,UA,UB
	SPHWH1L3D30ED4UMG3	UM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4U0H3	U0 (Whole Bin)	U1,U2,U3,U4,U5,U6,U7,U8, U9,UA,UB,UC,UD,UE,UF,UG
	SPHWH1L3D30ED4UPH3	UP (Quarter Bin)	U6,U7,UA,UB
	SPHWH1L3D30ED4UMH3	UM (MacAdam 3-Step)	-
4000K	SPHWH1L3D30ED4T0G3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30ED4TPG3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30ED4TMG3	TM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4T0H3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30ED4TPH3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30ED4TMH3	TM (MacAdam 3-Step)	-
	SPHWH1L3D30ED4T0J3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30ED4TPJ3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30ED4TMJ3	TM (MacAdam 3-Step)	-

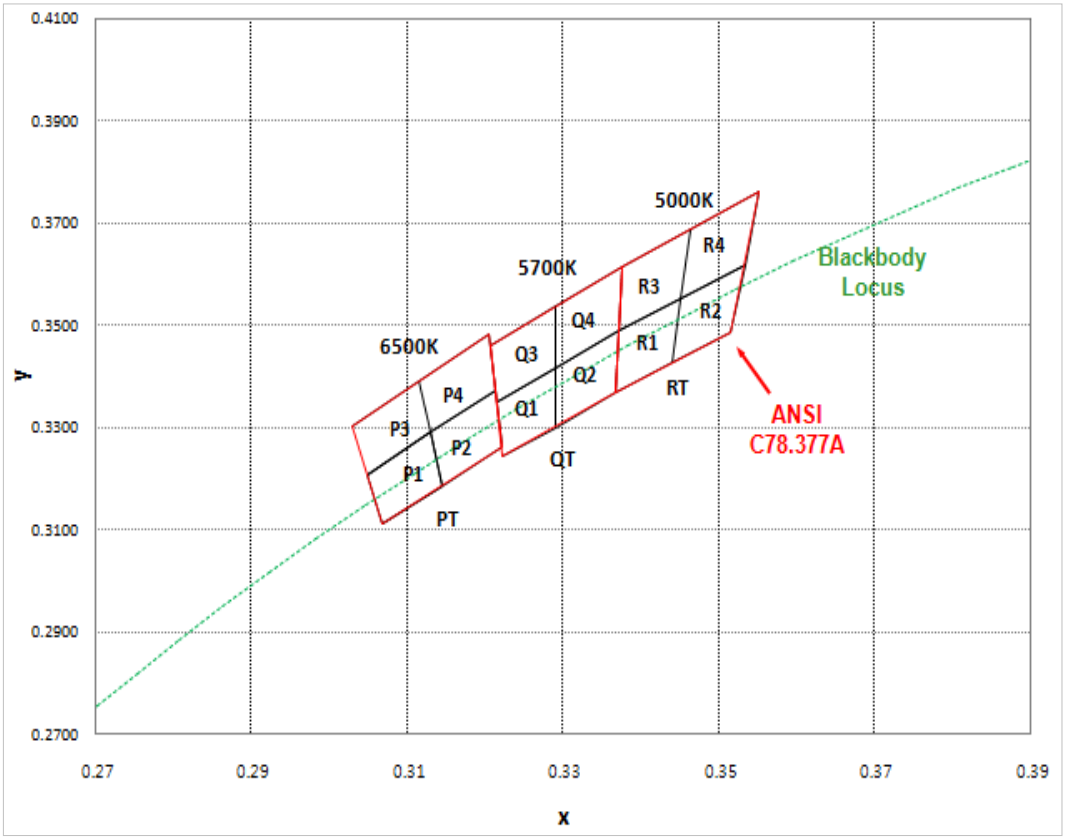
3. Color Bins (T_j = 85℃)

3-1) Color Binning

Nominal CCT	Product Code	Color Rank	Chromaticity Bins
4000K	SPHWH1L3D30CD4T0J3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30CD4TPJ3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30CD4TMJ3	TM (MacAdam 3-Step)	-
	SPHWH1L3D30CD4T0K3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30CD4TPK3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30CD4TMK3	TM (MacAdam 3-Step)	-
	SPHWH1L3D30CD4T0M3	T0 (Whole Bin)	T1,T2,T3,T4,T5,T6,T7,T8, T9,TA,TB,TC,TD,TE,TF,TG
	SPHWH1L3D30CD4TPM3	TP (Quarter Bin)	T6,T7,TA,TB
	SPHWH1L3D30CD4TMM3	TM (MacAdam 3-Step)	-
5000K	SPHWH1L3D30CD4RTJ3	RT (Half Bin)	R1,R2,R3,R4
	SPHWH1L3D30CD4RTK3		
	SPHWH1L3D30CD4RTM3		
	SPHWH1L3D30DD4RTJ3		
	SPHWH1L3D30DD4RTK3		
5700K	SPHWH1L3D30CD4QTJ3	QT (Half Bin)	Q1,Q2,Q3,Q4
	SPHWH1L3D30CD4QTK3		
	SPHWH1L3D30CD4QTM3		
	SPHWH1L3D30DD4QTJ3		
	SPHWH1L3D30DD4QTK3		
6500K	SPHWH1L3D30CD4PTJ3	PT (Half Bin)	P1,P2,P3,P4
	SPHWH1L3D30CD4PTK3		

3-2) Chromaticity Region & Coordinates





3-2) Chromaticity Region & Coordinates (Continued)

Region	CIE X	CIE Y	Region	CIE X	CIE Y
W rank (2700K)					
W1	0.4373	0.3893	W9	0.4465	0.4071
	0.4418	0.3981		0.4513	0.4164
	0.4475	0.3994		0.4573	0.4178
	0.4428	0.3906		0.4523	0.4085
W2	0.4428	0.3906	WA	0.4523	0.4085
	0.4475	0.3994		0.4573	0.4178
	0.4532	0.4008		0.4634	0.4193
	0.4483	0.3919		0.4582	0.4099
W3	0.4483	0.3919	WB	0.4582	0.4099
	0.4532	0.4008		0.4634	0.4193
	0.4589	0.4021		0.4695	0.4207
	0.4538	0.3931		0.4641	0.4112
W4	0.4538	0.3931	WC	0.4641	0.4112
	0.4589	0.4021		0.4695	0.4207
	0.4646	0.4034		0.4756	0.4221
	0.4593	0.3944		0.4700	0.4126
W5	0.4418	0.3981	WD	0.4513	0.4164
	0.4465	0.4071		0.4562	0.4260
	0.4523	0.4085		0.4624	0.4274
	0.4475	0.3994		0.4573	0.4178
W6	0.4475	0.3994	WE	0.4573	0.4178
	0.4523	0.4085		0.4624	0.4274
	0.4582	0.4099		0.4687	0.4289
	0.4532	0.4008		0.4634	0.4193
W7	0.4532	0.4008	WF	0.4634	0.4193
	0.4582	0.4099		0.4687	0.4289
	0.4641	0.4112		0.4750	0.4304
	0.4589	0.4021		0.4695	0.4207
W8	0.4589	0.4021	WG	0.4695	0.4207
	0.4641	0.4112		0.4750	0.4304
	0.4700	0.4126		0.4813	0.4319
	0.4646	0.4034		0.4756	0.4221

Region	CIE X	CIE Y	Region	CIE X	CIE Y
V rank (3000K)					
V1	0.4147	0.3814	V9	0.4221	0.3984
	0.4183	0.3898		0.4259	0.4073
	0.4242	0.3919		0.4322	0.4096
	0.4203	0.3833		0.4281	0.4006
V2	0.4203	0.3833	VA	0.4281	0.4006
	0.4242	0.3919		0.4322	0.4096
	0.4300	0.3939		0.4385	0.4119
	0.4259	0.3853		0.4342	0.4028
V3	0.4259	0.3853	VB	0.4342	0.4028
	0.4300	0.3939		0.4385	0.4119
	0.4359	0.3960		0.4449	0.4141
	0.4316	0.3873		0.4403	0.4049
V4	0.4316	0.3873	VC	0.4403	0.4049
	0.4359	0.3960		0.4449	0.4141
	0.4418	0.3981		0.4513	0.4164
	0.4373	0.3893		0.4465	0.4071
V5	0.4183	0.3898	VD	0.4259	0.4073
	0.4221	0.3984		0.4299	0.4165
	0.4281	0.4006		0.4364	0.4188
	0.4242	0.3919		0.4322	0.4096
V6	0.4242	0.3919	VE	0.4322	0.4096
	0.4281	0.4006		0.4364	0.4188
	0.4342	0.4028		0.4430	0.4212
	0.4300	0.3939		0.4385	0.4119
V7	0.4300	0.3939	VF	0.4385	0.4119
	0.4342	0.4028		0.4430	0.4212
	0.4403	0.4049		0.4496	0.4236
	0.4359	0.3960		0.4449	0.4141
V8	0.4359	0.3960	VG	0.4449	0.4141
	0.4403	0.4049		0.4496	0.4236
	0.4465	0.4071		0.4562	0.4260
	0.4418	0.3981		0.4513	0.4164

3-2) Chromaticity Region & Coordinates (Continued)

Region	CIE X	CIE Y	Region	CIE X	CIE Y
U rank (3500K)					
U1	0.3889	0.3690	U9	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
U2	0.3953	0.3720	UA	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
U3	0.4017	0.3751	UB	0.4080	0.3916
	0.4048	0.3832		0.4113	0.4001
	0.4116	0.3865		0.4186	0.4037
	0.4082	0.3782		0.4150	0.3950
U4	0.4082	0.3782	UC	0.4150	0.3950
	0.4116	0.3865		0.4186	0.4037
	0.4183	0.3898		0.4259	0.4073
	0.4147	0.3814		0.4221	0.3984
U5	0.3915	0.3768	UD	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
U6	0.3981	0.3800	UE	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
U7	0.4048	0.3832	UF	0.4113	0.4001
	0.4080	0.3916		0.4146	0.4089
	0.4150	0.3950		0.4222	0.4127
	0.4116	0.3865		0.4186	0.4037
U8	0.4116	0.3865	UG	0.4186	0.4037
	0.4150	0.3950		0.4222	0.4127
	0.4221	0.3984		0.4299	0.4165
	0.4183	0.3898		0.4259	0.4073

Region	CIE X	CIE Y	Region	CIE X	CIE Y
T rank (4000K)					
T1	0.367	0.3578	T9	0.3702	0.3722
	0.3726	0.3612		0.3763	0.376
	0.3744	0.3685		0.3782	0.3837
	0.3686	0.3649		0.3719	0.3797
T2	0.3726	0.3612	TA	0.3763	0.376
	0.3783	0.3646		0.3825	0.3798
	0.3804	0.3721		0.3847	0.3877
	0.3744	0.3685		0.3782	0.3837
T3	0.3783	0.3646	TB	0.3825	0.3798
	0.384	0.3681		0.3887	0.3836
	0.3863	0.3758		0.3912	0.3917
	0.3804	0.3721		0.3847	0.3877
T4	0.384	0.3681	TC	0.3887	0.3837
	0.3898	0.3716		0.395	0.3875
	0.3924	0.3794		0.3978	0.3958
	0.3863	0.3758		0.3912	0.3917
T5	0.3686	0.3649	TD	0.3719	0.3797
	0.3744	0.3685		0.3782	0.3837
	0.3763	0.376		0.3802	0.3916
	0.3702	0.3722		0.3736	0.3874
T6	0.3744	0.3685	TE	0.3782	0.3837
	0.3804	0.3721		0.3847	0.3877
	0.3825	0.3798		0.3869	0.3958
	0.3763	0.376		0.3802	0.3916
T7	0.3804	0.3721	TF	0.3847	0.3877
	0.3863	0.3758		0.3912	0.3917
	0.3887	0.3836		0.3937	0.4001
	0.3825	0.3798		0.3869	0.3958
T8	0.3863	0.3758	TG	0.3912	0.3917
	0.3924	0.3794		0.3978	0.3958
	0.395	0.3875		0.4006	0.4044
	0.3887	0.3836		0.3937	0.4001

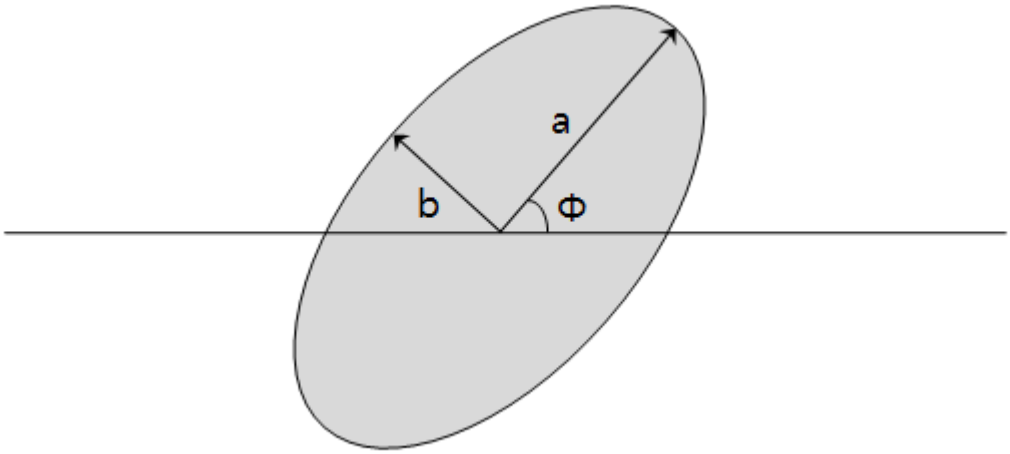
3-2) Chromaticity Region & Coordinates (Continued)

Region	CIE X	CIE Y	Region	CIE X	CIE Y	Region	CIE X	CIE Y
R rank (5000K)			Q rank (5700K)			P rank (6500K)		
R1	0.3371	0.3490	Q1	0.3215	0.3350	P1	0.3068	0.3113
	0.3451	0.3554		0.3290	0.3417		0.3144	0.3186
	0.3440	0.3427		0.3290	0.3300		0.3130	0.3290
	0.3366	0.3369		0.3222	0.3243		0.3048	0.3207
R2	0.3451	0.3554	Q2	0.3290	0.3417	P2	0.3144	0.3186
	0.3533	0.3620		0.3371	0.3490		0.3221	0.3261
	0.3515	0.3487		0.3366	0.3369		0.3213	0.3373
	0.3440	0.3427		0.3290	0.3300		0.3130	0.3290
R3	0.3376	0.3616	Q3	0.3207	0.3462	P3	0.3048	0.3207
	0.3463	0.3687		0.3290	0.3538		0.3130	0.3290
	0.3451	0.3554		0.3290	0.3417		0.3115	0.3391
	0.3371	0.3490		0.3215	0.3350		0.3028	0.3304
R4	0.3463	0.3687	Q4	0.3290	0.3538	P4	0.3130	0.3290
	0.3551	0.3760		0.3376	0.3616		0.3213	0.3373
	0.3533	0.3620		0.3371	0.3490		0.3205	0.3481
	0.3451	0.3554		0.3290	0.3417		0.3115	0.3391

Notes:

SAMSUNG ELECTRONICS maintains ±0.005 tolerance of CCx, CCy

3-3) MacAdam 3-step Ellipse



Nominal CCT	Center		Rotation Angle	a	b
	CIE X	CIE Y			
2700K	0.4578	0.4101	53.70	0.0081	0.0042
3000K	0.4338	0.4030	53.22	0.0083	0.0041
3500K	0.4073	0.3917	54.00	0.0093	0.0041
4000K	0.3818	0.3797	53.72	0.0094	0.0040

Notes:

SAMSUNG ELECTRONICS maintains ±0.005 tolerance of CCx, CCy

Revision History

Date	Revision History	Writer	
		Drawn	Approved
2013.12.03	New version	I.J.PYEON	Y.T.KIM
2013.12.19	- Added New Flux Rank · 2700K (CRI80) G3 rank · 4000K (CRI70) K3 rank	I.J.PYEON	Y.T.KIM
2014.04.02	- Added New Flux Rank · 2700K (CRI80) H3 rank · 3000K (CRI80) H3 rank · 3500K (CRI80) H3 rank · 4000K (CRI80) H3, J3 rank · 4000K (CRI70) M3 rank · 5000K (CRI70) M3 rank · 5700K (CRI70) M3 rank · 6500K (CRI70) K3 rank	G.E.CHO	M.Y.SONE

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View SPHWH1L3D30ED4TMJ3 on WIN SOURCE
- Samsung Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management