Technical Data Sheet

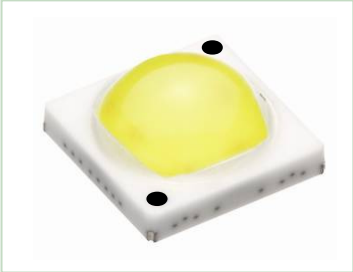
Acrich
semiconductor eco lighting

SEOUL SEMICONDUCTOR

Binning and Labeling

SAWX5X0X

Description



The Acrich series of devices are designed for ease of implementation and readily connect to AC sources emitting very high flux while avoiding power losses associated with AC to regulated DC conversion.

Acrich is a long-lasting, environmentally friendly semiconductor light source that can be attached either directly to AC voltages.

Acrich's thermal management exceeds other power LED solutions incorporating state-of-the-art SMD technology, thermal path design, and materials.
Whether designing a spot light or tiled array the Acrich A5 is an ideal light source for general purpose illumination applications.

This application note provides binning and labeling information of A5 series. It includes the A5 bins for luminous flux, color coordinates and correlated color temperature for White.

Features

- Connect directly in AC
- Power Saving
- Long Life Time
- Simple BOM
- Miniaturization
- Low thermal resistance
- SMT solderbility
- Lead Free product
- RoHS compliant

Applications

- Architectural lighting
- Task lighting
- Decorative / Pathway lighting
- Household appliances

	
100V / 110V / 120V	**220V / 230V**

* The appearance and specifications of the product can be changed for improvement without notice.

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Contents

Part number of Acriche Series

Part Number form : SA X_1 X_2 X_3 X_4 X_5X_6

1. Part Number

- SA : Acrich
- X_1X_2 : Color
- X_3 : Acrich series number
- X_4 : Voltage
- X_5 : PCB Type
- X_6 : Revision

X_1 X_2	Color
W0	Cool White
W8	Warm White

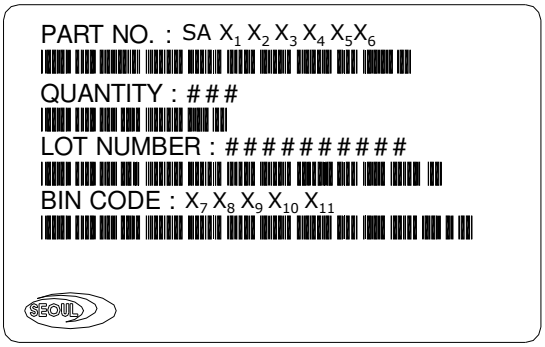
X_3	Acrich Series
5	A5

X_4	Voltage [V]
B	100 / 110 / 120
D	220 / 230

X_5	PCB Type
0	Emitter

X_6	Revision
A	Rev.0
B	Rev.1
C	Rev.2

2. Sticker Diagram on Reel & Aluminum Vinyl Bag



Code Labeling

1. Luminous Flux Bins

- Luminous flux bin structure for Cool White, Warm White

· **Example**
BIN CODE : **U2**A0C
→ Luminous Flux bin

Bin Code		Luminous Flux [lm]
S2		60.0 ~ 70.0
T	T1	70.0 ~ 80.0
	T2	80.0 ~ 91.0
U	U1	91.0 ~ 100.0
	U2	100.0 ~ 118.5
V		118.5 ~ 154.0
W		154.0 ~ 177.0

The list explains the photometric luminous flux bins for Acrich aeries. Acrich series are tested and binned by photometric luminous flux. Not all bins are available in all colors.

Tolerance : ±10% of Luminous flux value

2. Cool White CIE

Cool White product tested and binned by x,y coordinates and CCT

- **Example**
  BIN CODE : U2**A0**C
  → Color bin

- A5 Cool White bin structure

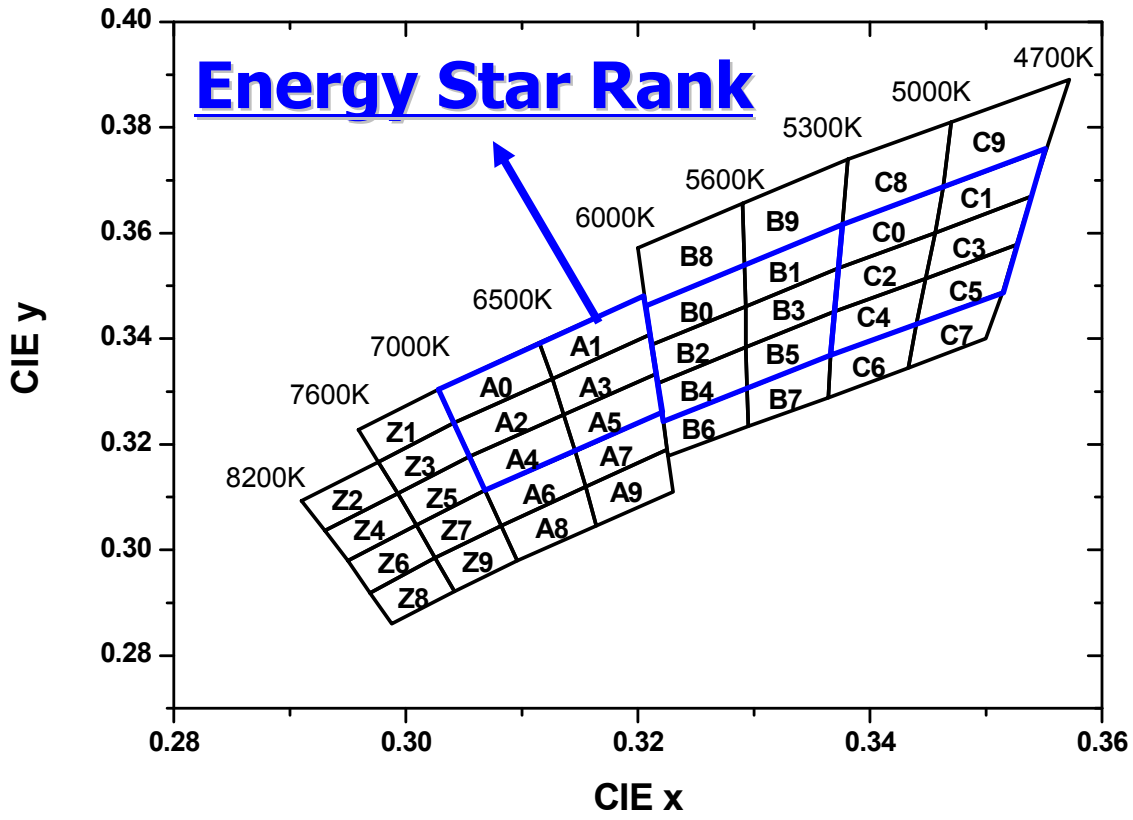
Bin	CHR_X	CHR_Y	CCT(K)	Bin	CHR_X	CHR_Y	CCT(K)	Bin	CHR_X	CHR_Y	CCT(K)	Bin	CHR_X	CHR_Y	CCT(K)
	0.2910	0.3093			0.3028	0.3304			0.3200	0.3572			0.3381	0.3740	
Z2	0.2930	0.3037	8200~	**A0**	0.3041	0.3240	7000~	**B8**	0.3207	0.3462	6000~	**C8**	0.3470	0.3810	5300~
	0.2993	0.3107	7600K		0.3126	0.3324	6500K		0.3292	0.3539	5600K		0.3463	0.3687	5000K
	0.2976	0.3166			0.3115	0.3393			0.3290	0.3656			0.3376	0.3616	
	0.2930	0.3037			0.3041	0.3240			0.3207	0.3462			0.3376	0.3616	
Z4	0.2950	0.2980	8200~	**A2**	0.3055	0.3177	7000~	**B0**	0.3212	0.3389	6000~	**C0**	0.3373	0.3534	5300~
	0.3009	0.3047	7600K		0.3136	0.3256	6500K		0.3293	0.3461	5600K		0.3456	0.3601	5000K
	0.2993	0.3107			0.3126	0.3324			0.3292	0.3539			0.3463	0.3687	
	0.2950	0.2980			0.3055	0.3177			0.3212	0.3389			0.3373	0.3534	
Z6	0.2969	0.2919	8200~	**A4**	0.3068	0.3113	7000~	**B2**	0.3217	0.3316	6000~	**C2**	0.3369	0.3451	5300~
	0.3025	0.2985	7600K		0.3146	0.3187	6500K		0.3293	0.3384	5600K		0.3448	0.3514	5000K
	0.3009	0.3047			0.3136	0.3256			0.3293	0.3461			0.3456	0.3601	
	0.2969	0.2919			0.3068	0.3113			0.3217	0.3316			0.3369	0.3451	
Z8	0.2988	0.2860	8200~	**A6**	0.3082	0.3046	7000~	**B4**	0.3222	0.3243	6000~	**C4**	0.3366	0.3369	5300~
	0.3042	0.2922	7600K		0.3155	0.3120	6500K		0.3294	0.3306	5600K		0.3440	0.3428	5000K
	0.3025	0.2985			0.3146	0.3187			0.3293	0.3384			0.3448	0.3514	
	0.2959	0.3227			0.3082	0.3046			0.3222	0.3243			0.3366	0.3369	
Z1	0.2976	0.3166	7600~	**A8**	0.3096	0.2980	7000~	**B6**	0.3226	0.3178	6000~	**C6**	0.3364	0.3288	5300~
	0.3041	0.3240	7000K		0.3164	0.3046	6500K		0.3295	0.3234	5600K		0.3433	0.3345	5000K
	0.3028	0.3304			0.3155	0.3120			0.3294	0.3306			0.3440	0.3428	
	0.2976	0.3166			0.3115	0.3393			0.3290	0.3656			0.3470	0.3810	
Z3	0.2993	0.3107	7600~	**A1**	0.3126	0.3324	6500~	**B9**	0.3292	0.3539	5600~	**C9**	0.3572	0.3891	5000~
	0.3055	0.3177	7000K		0.3210	0.3408	6000K		0.3376	0.3616	5300K		0.3552	0.3760	4700K
	0.3041	0.3240			0.3205	0.3481			0.3381	0.3740			0.3463	0.3687	
	0.2993	0.3107			0.3126	0.3324			0.3292	0.3539			0.3463	0.3687	
Z5	0.3009	0.3047	7600~	**A3**	0.3136	0.3256	6500~	**B1**	0.3293	0.3461	5600~	**C1**	0.3456	0.3601	5000~
	0.3068	0.3113	7000K		0.3216	0.3334	6000K		0.3373	0.3534	5300K		0.3539	0.3669	4700K
	0.3055	0.3177			0.3210	0.3408			0.3376	0.3616			0.3552	0.3760	
	0.3009	0.3047			0.3136	0.3256			0.3293	0.3461			0.3456	0.3601	
Z7	0.3025	0.2985	7600~	**A5**	0.3146	0.3187	6500~	**B3**	0.3293	0.3384	5600~	**C3**	0.3448	0.3514	5000~
	0.3082	0.3046	7000K		0.3221	0.3261	6000K		0.3369	0.3451	5300K		0.3526	0.3578	4700K
	0.3068	0.3113			0.3216	0.3334			0.3373	0.3534			0.3539	0.3669	
	0.3025	0.2985			0.3146	0.3187			0.3293	0.3384			0.3448	0.3514	
Z9	0.3042	0.2922	7600~	**A7**	0.3155	0.3120	6500~	**B5**	0.3294	0.3306	5600~	**C5**	0.3440	0.3428	5000~
	0.3096	0.2980	7000K		0.3225	0.3190	6000K		0.3366	0.3369	5300K		0.3514	0.3487	4700K
	0.3082	0.3046			0.3221	0.3261			0.3369	0.3451			0.3526	0.3578	
					0.3155	0.3120			0.3294	0.3306			0.3440	0.3428	
				A9	0.3164	0.3046	6500~	**B7**	0.3295	0.3234	5600~	**C7**	0.3433	0.3345	5000~
					0.3230	0.3110	6000K		0.3364	0.3288	5300K		0.3500	0.3400	4700K
					0.3225	0.3190			0.3366	0.3369			0.3514	0.3487	

Tolerance

Color coordinate : ± 0.005

CCT : ±5% of value

- Cool White binning structure graphical representation



3. Warm White CIE

Warm White product tested and binned by x,y coordinates and CCT

- A5 Warm White bin structure

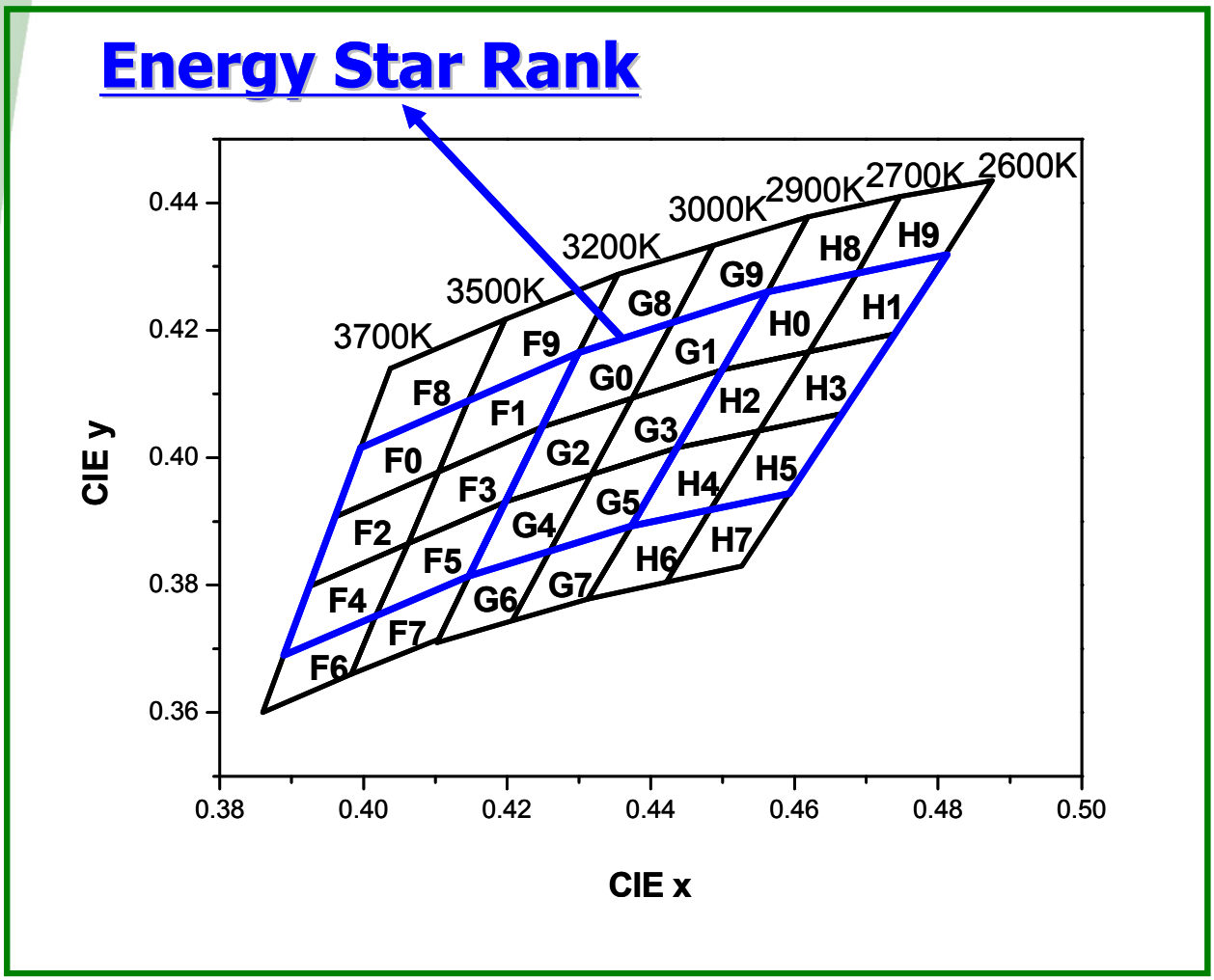
Bin	CHR_X	CHR_Y	CCT(K)	Bin	CHR_X	CHR_Y	CCT(K)	Bin	CHR_X	CHR_Y	CCT(K)
F8	0.4037	0.414	3700~ 3500K	G8	0.4354	0.4288	3200~ 3000K	H8	0.4619	0.4378	2900~ 2700K
	0.3996	0.4015			0.4299	0.4165			0.4562	0.426	
	0.4146	0.4089			0.443	0.4212			0.4687	0.4289	
	0.4197	0.4217			0.4487	0.4333			0.4747	0.441	
F0	0.3996	0.4015	3700~ 3500K	G0	0.4299	0.4165	3200~ 3000K	H0	0.4562	0.426	2900~ 2700K
	0.396	0.3907			0.4248	0.4048			0.4499	0.4138	
	0.4104	0.3978			0.4374	0.4093			0.462	0.4166	
	0.4146	0.4089			0.443	0.4212			0.4687	0.4289	
F2	0.396	0.3907	3700~ 3500K	G2	0.4248	0.4048	3200~ 3000K	H2	0.4499	0.4138	2900~ 2700K
	0.3925	0.3798			0.4198	0.3931			0.4436	0.4015	
	0.4062	0.3865			0.4317	0.3973			0.4551	0.4042	
	0.4104	0.3978			0.4374	0.4093			0.462	0.4166	
F4	0.3925	0.3798	3700~ 3500K	G4	0.4198	0.3931	3200~ 3000K	H4	0.4436	0.4015	2900~ 2700K
	0.3889	0.369			0.4147	0.3814			0.4373	0.3893	
	0.4017	0.3751			0.4259	0.3853			0.4483	0.3919	
	0.4062	0.3865			0.4317	0.3973			0.4551	0.4042	
F6	0.3889	0.369	3700~ 3500K	G6	0.4147	0.3814	3200~ 3000K	H6	0.4373	0.3893	2900~ 2700K
	0.386	0.36			0.4102	0.371			0.4312	0.3778	
	0.3983	0.366			0.4207	0.3744			0.4422	0.3805	
	0.4017	0.3751			0.4259	0.3853			0.4483	0.3919	
F9	0.4197	0.4217	3500~ 3200K	G9	0.4487	0.4333	3000~ 2900K	H9	0.4747	0.441	2700~ 2600K
	0.4146	0.4089			0.443	0.4212			0.4687	0.4289	
	0.4299	0.4165			0.4562	0.426			0.481	0.4319	
	0.4354	0.4288			0.4619	0.4378			0.4875	0.4435	
F1	0.4146	0.4089	3500~ 3200K	G1	0.443	0.4212	3000~ 2900K	H1	0.4687	0.4289	2700~ 2600K
	0.4104	0.3978			0.4374	0.4093			0.462	0.4166	
	0.4248	0.4048			0.4499	0.4138			0.474	0.4194	
	0.4299	0.4165			0.4562	0.426			0.481	0.4319	
F3	0.4104	0.3978	3500~ 3200K	G3	0.4374	0.4093	3000~ 2900K	H3	0.462	0.4166	2700~ 2600K
	0.4062	0.3865			0.4317	0.3973			0.4551	0.4042	
	0.4198	0.3931			0.4436	0.4015			0.4666	0.4069	
	0.4248	0.4048			0.4499	0.4138			0.474	0.4194	
F5	0.4062	0.3865	3500~ 3200K	G5	0.4317	0.3973	3000~ 2900K	H5	0.4551	0.4042	2700~ 2600K
	0.4017	0.3751			0.4259	0.3853			0.4483	0.3919	
	0.4147	0.3814			0.4373	0.3893			0.4593	0.3944	
	0.4198	0.3931			0.4436	0.4015			0.4666	0.4069	
F7	0.4017	0.3751	3500~ 3200K	G7	0.4259	0.3853	3000~ 2900K	H7	0.4483	0.3919	2700~ 2600K
	0.3983	0.366			0.4207	0.3744			0.4422	0.3805	
	0.4104	0.3715			0.4312	0.3778			0.4527	0.383	
	0.4147	0.3814			0.4373	0.3893			0.4593	0.3944	

Tolerance

Color coordinate : ± 0.005

CCT : ±5% of value

- A5 Warm White binning structure graphical representation



4. RMS Voltage Bins (emitter)

· **Example**
BIN CODE : U2A0**C**
↳ VF bin

4-1 Voltage Range

* Part Number: SAWX5B0X (AX5200-01)
SAWX5D0X (AX5220-01)

Bin Code	Voltage [V,RMS]	
A	98.0 ~ 102.0	195.0 ~ 202.0
B	102.0 ~ 104.0	202.0 ~ 206.0
C	104.0 ~ 106.0	206.0 ~ 210.0
D	106.0 ~ 109.0	210.0 ~ 215.0

4-2 External resistor table

* Part Number: SAWX5B0X (AX5200-01)
SAWX5D0X (AX5220-01)

Operating voltage [V,RMS]	VF bins			
	A	**B**	**C**	**D**
100	640	580	540	420
110	1120	1020	980	850
120	1550	1470	1430	1330
220	4500	4230	3890	3490
230	5430	4850	4830	4250

Unit [ohm]

Notes :
* The tolerance of current is ±10% on each resistance rank.
* Resistor power value must be taken into consideration when choosing the type of resistor.
[rated power = operating current² X resistance]

Order Code

A5 series has an order code, use it as follows to purchase.

· Example : SAWX5X0X (AX52X0-01) - 1A

Order code

Part Number

1. Cool White

Standard Order Codes for Cool White						
Order Code	LF	CC	VF	Bin Codes		
Part No. – 1A	U2 V W	Z2	A B C D	U2Z2A~U2Z2D	VZ2A~VZ2D	WZ2A~WZ2D
		Z4		U2Z4A~U2Z4D	VZ4A~VZ4D	WZ4A~WZ4D
		Z1		U2Z1A~U2Z1D	VZ1A~VZ1D	WZ1A~WZ1D
		Z3		U2Z3A~U2Z3D	VZ3A~VZ3D	WZ3A~WZ3D
		Z5		U2Z5A~U2Z5D	VZ5A~VZ5D	WZ5A~WZ5D
Part No. – 1B	U2 V W	Z1	A B C D	U2Z1A~U2Z1D	VZ1A~VZ1D	WZ1A~WZ1D
		Z3		U2Z3A~U2Z3D	VZ3A~VZ3D	WZ3A~WZ3D
		Z5		U2Z5A~U2Z5D	VZ5A~VZ5D	WZ5A~WZ5D
		A0		U2A0A~U2A0D	VA0A~VA0D	WA0A~WA0D
		A2		U2A2A~U2A2D	VA2A~VA2D	WA2A~WA2D
		A4		U2A4A~U2A4D	VA4A~VA4D	WA4A~WA4D
Part No. – 1C	U2 V W	A0	A B C D	U2A0A~U2A0D	VA0A~VA0D	WA0A~WA0D
		A2		U2A2A~U2A2D	VA2A~VA2D	WA2A~WA2D
		A4		U2A4A~U2A4D	VA4A~VA4D	WA4A~WA4D
		A1		U2A1A~U2A1D	VA1A~VA1D	WA1A~WA1D
		A3		U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
Part No. – 1D	U2 V W	A1	A B C D	U2A1A~U2A1D	VA1A~VA1D	WA1A~WA1D
		A3		U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
		B0		U2B0A~U2B0D	VB0A~VB0D	WB0A~WB0D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
		B4		U2B4A~U2B4D	VB4A~VB4D	WB4A~WB4D
Part No. – 1E	U2 V W	B0	A B C D	U2B0A~U2B0D	VB0A~VB0D	WB0A~WB0D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
		B4		U2B4A~U2B4D	VB4A~VB4D	WB4A~WB4D
		B1		U2B1A~U2B1D	VB1A~VB1D	WB1A~WB1D
		B3		U2B3A~U2B3D	VB3A~VB3D	WB3A~WB3D
		B5		U2B5A~U2B5D	VB5A~VB5D	WB5A~WB5D
Part No. – 1F	U2 V W	B1	A B C D	U2B1A~U2B1D	VB1A~VB1D	WB1A~WB1D
		B3		U2B3A~U2B3D	VB3A~VB3D	WB3A~WB3D
		B5		U2B5A~U2B5D	VB5A~VB5D	WB5A~WB5D
		C0		U2C0A~U2C0D	VC0A~VC0D	WC0A~WC0D
		C2		U2C2A~U2C2D	VC2A~VC2D	WC2A~WC2D
		C4		U2C4A~U2C4D	VC4A~VC4D	WC4A~WC4D
Part No. – 1G	U2 V W	C0	A B C D	U2C0A~U2C0D	VC0A~VC0D	WC0A~WC0D
		C2		U2C2A~U2C2D	VC2A~VC2D	WC2A~WC2D
		C4		U2C4A~U2C4D	VC4A~VC4D	WC4A~WC4D
		C1		U2C1A~U2C1D	VC1A~VC1D	WC1A~WC1D
		C3		U2C3A~U2C3D	VC3A~VC3D	WC3A~WC3D
		C5		U2C5A~U2C5D	VC5A~VC5D	WC5A~WC5D

1. Cool White

Standard Order Codes for Cool White						
Order Code	LF	CC	VF	Bin Codes		
Part No. – 2A	U2 V W	A1	A B C D	U2A1A~U2A1D	VA1A~VA1D	WA1A~WA1D
		A3		U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
		B8		U2B8A~U2B8D	VB8A~VB8D	WB8A~WB8D
		B0		U2B0A~U2B0D	VB0A~VB0D	WB0A~WB0D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
Part No. – 2B	U2 V W	B8	A B C D	U2B8A~U2B8D	VB8A~VB8D	WB8A~WB8D
		B0		U2B0A~U2B0D	VB0A~VB0D	WB0A~WB0D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
		B9		U2B9A~U2B9D	VB9A~VB9D	WB9A~WB9D
		B1		U2B1A~U2B1D	VB1A~VB1D	WB1A~WB1D
		B3		U2B3A~U2B3D	VB3A~VB3D	WB3A~WB3D
Part No. – 2C	U2 V W	B9	A B C D	U2B9A~U2B9D	VB9A~VB9D	WB9A~WB9D
		B1		U2B1A~U2B1D	VB1A~VB1D	WB1A~WB1D
		B3		U2B3A~U2B3D	VB3A~VB3D	WB3A~WB3D
		C8		U2C8A~U2C8D	VC8A~VC8D	WC8A~WC8D
		C0		U2C0A~U2C0D	VC0A~VC0D	WC0A~WC0D
		C2		U2C2A~U2C2D	VC2A~VC2D	WC2A~WC2D
Part No. – 2D	U2 V W	C8	A B C D	U2C8A~U2C8D	VC8A~VC8D	WC8A~WC8D
		C0		U2C0A~U2C0D	VC0A~VC0D	WC0A~WC0D
		C2		U2C2A~U2C2D	VC2A~VC2D	WC2A~WC2D
		C9		U2C9A~U2C9D	VC9A~VC9D	WC9A~WC9D
		C1		U2C1A~U2C1D	VC1A~VC1D	WC1A~WC1D
		C3		U2C3A~U2C3D	VC3A~VC3D	WC3A~WC3D

1. Cool White

Standard Order Codes for Cool White						
Order Code	LF	CC	VF	Bin Codes		
Part No. – 3A	U2 V W	Z2	A B C D	U2Z2A~U2Z2D	VZ2A~VZ2D	WZ2A~WZ2D
		Z4		U2Z4A~U2Z4D	VZ4A~VZ4D	WZ4A~WZ4D
		Z6		U2Z6A~U2Z6D	VZ6A~VZ6D	WZ6A~WZ6D
		Z3		U2Z3A~U2Z3D	VZ3A~VZ3D	WZ3A~WZ3D
		Z5		U2Z5A~U2Z5D	VZ5A~VZ5D	WZ5A~WZ5D
		Z7		U2Z7A~U2Z7D	VZ7A~VZ7D	WZ7A~WZ7D
Part No. – 3B	U2 V W	Z3	A B C D	U2Z3A~U2Z3D	VZ3A~VZ3D	WZ3A~WZ3D
		Z5		U2Z5A~U2Z5D	VZ5A~VZ5D	WZ5A~WZ5D
		Z7		U2Z7A~U2Z7D	VZ7A~VZ7D	WZ7A~WZ7D
		A2		U2A2A~U2A2D	VA2A~VA2D	WA2A~WA2D
		A4		U2A4A~U2A4D	VA4A~VA4D	WA4A~WA4D
		A6		U2A6A~U2A6D	VA6A~VA6D	WA6A~WA6D
Part No. – 3C	U2 V W	A2	A B C D	U2A2A~U2A2D	VA2A~VA2D	WA2A~WA2D
		A4		U2A4A~U2A4D	VA4A~VA4D	WA4A~WA4D
		A6		U2A6A~U2A6D	VA6A~VA6D	WA6A~WA6D
		A3		U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
		A7		U2A7A~U2A7D	VA7A~VA7D	WA7A~WA7D
Part No. – 3D	U2 V W	A3	A B C D	U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
		A7		U2A7A~U2A7D	VA7A~VA7D	WA7A~WA7D
		B0		U2B0A~U2B0D	VB0A~VB0D	WB0A~WB0D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
		B4		U2B4A~U2B4D	VB4A~VB4D	WB4A~WB4D
Part No. – 3E	U2 V W	A3	A B C D	U2A3A~U2A3D	VA3A~VA3D	WA3A~WA3D
		A5		U2A5A~U2A5D	VA5A~VA5D	WA5A~WA5D
		A7		U2A7A~U2A7D	VA7A~VA7D	WA7A~WA7D
		B2		U2B2A~U2B2D	VB2A~VB2D	WB2A~WB2D
		B4		U2B4A~U2B4D	VB4A~VB4D	WB4A~WB4D
		B6		U2B6A~U2B6D	VB6A~VB6D	WB6A~WB6D

2. Warm White

Standard Order Codes for Warm white							
Order Code	LF	CC	VF	Bin Codes			
Part No. – 1A	T1 T2 U V	F0	A B C D	T1F0A~T1F0D	T2F0A~T2F0D	UF0A~UF0D	VF0A~VF0D
		F2		T1F2A~T1F2D	T2F2A~T2F2D	UF2A~UF2D	VF2A~VF2D
		F4		T1F4A~T1F4D	T2F4A~T2F4D	UF4A~UF4D	VF4A~VF4D
		F1		T1F1A~T1F1D	T2F1A~T2F1D	UF1A~UF1D	VF1A~VF1D
		F3		T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
		F5		T1F5A~T1F5D	T2F5A~T2F5D	UF5A~UF5D	VF5A~VF5D
Part No. – 1B	T1 T2 U V	F1	A B C D	T1F1A~T1F1D	T2F1A~T2F1D	UF1A~UF1D	VF1A~VF1D
		F3		T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
		F5		T1F5A~T1F5D	T2F5A~T2F5D	UF5A~UF5D	VF5A~VF5D
		G0		T1G0A~T1G0D	T2G0A~T2G0D	UG0A~UG0D	VG0A~VG0D
		G2		T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
		G4		T1G4A~T1G4D	T2G4A~T2G4D	UG4A~UG4D	VG4A~VG4D
Part No. – 1C	T1 T2 U V	G0	A B C D	T1G0A~T1G0D	T2G0A~T2G0D	UG0A~UG0D	VG0A~VG0D
		G2		T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
		G4		T1G4A~T1G4D	T2G4A~T2G4D	UG4A~UG4D	VG4A~VG4D
		G1		T1G1A~T1G1D	T2G1A~T2G1D	UG1A~UG1D	VG1A~VG1D
		G3		T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
		G5		T1G5A~T1G5D	T2G5A~T2G5D	UG5A~UG5D	VG5A~VG5D
Part No. – 1D	T1 T2 U V	G1	A B C D	T1G1A~T1G1D	T2G1A~T2G1D	UG1A~UG1D	VG1A~VG1D
		G3		T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
		G5		T1G5A~T1G5D	T2G5A~T2G5D	UG5A~UG5D	VG5A~VG5D
		H0		T1H0A~T1H0D	T2H0A~T2H0D	UH0A~UH0D	VH0A~VH0D
		H2		T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
		H4		T1H4A~T1H4D	T2H4A~T2H4D	UH4A~UH4D	VH4A~VH4D
Part No. – 1E	T1 T2 U V	H0	A B C D	T1H0A~T1H0D	T2H0A~T2H0D	UH0A~UH0D	VH0A~VH0D
		H2		T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
		H4		T1H4A~T1H4D	T2H4A~T2H4D	UH4A~UH4D	VH4A~VH4D
		H1		T1H1A~T1H1D	T2H1A~T2H1D	UH1A~UH1D	VH1A~VH1D
		H3		T1H3A~T1H3D	T2H3A~T2H3D	UH3A~UH3D	VH3A~VH3D
		H5		T1H5A~T1H5D	T2H5A~T2H5D	UH5A~UH5D	VH5A~VH5D

2. Warm White

Standard Order Codes for Warm white							
Order Code	LF	CC	VF	Bin Codes			
Part No. - 2A	T1 T2 U V	F8	A B C D	T1F8A~T1F8D	T2F8A~T2F8D	UF8A~UF8D	VF8A~VF8D
		F0		T1F0A~T1F0D	T2F0A~T2F0D	UF0A~UF0D	VF0A~VF0D
		F2		T1F2A~T1F2D	T2F2A~T2F2D	UF2A~UF2D	VF2A~VF2D
		F9		T1F9A~T1F9D	T2F9A~T2F9D	UF9A~UF9D	VF9A~VF9D
		F1		T1F1A~T1F1D	T2F1A~T2F1D	UF1A~UF1D	VF1A~VF1D
		F3		T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
Part No. - 2B	T1 T2 U V	F9	A B C D	T1F9A~T1F9D	T2F9A~T2F9D	UF9A~UF9D	VF9A~VF9D
		F1		T1F1A~T1F1D	T2F1A~T2F1D	UF1A~UF1D	VF1A~VF1D
		F3		T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
		G8		T1G8A~T1G8D	T2G8A~T2G8D	UG8A~UG8D	VG8A~VG8D
		G0		T1G0A~T1G0D	T2G0A~T2G0D	UG0A~UG0D	VG0A~VG0D
		G2		T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
Part No. - 2C	T1 T2 U V	G8	A B C D	T1G8A~T1G8D	T2G8A~T2G8D	UG8A~UG8D	VG8A~VG8D
		G0		T1G0A~T1G0D	T2G0A~T2G0D	UG0A~UG0D	VG0A~VG0D
		G2		T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
		G9		T1G9A~T1G9D	T2G9A~T2G9D	UG9A~UG9D	VG9A~VG9D
		G1		T1G1A~T1G1D	T2G1A~T2G1D	UG1A~UG1D	VG1A~VG1D
		G3		T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
Part No. - 2D	T1 T2 U V	G9	A B C D	T1G9A~T1G9D	T2G9A~T2G9D	UG9A~UG9D	VG9A~VG9D
		G1		T1G1A~T1G1D	T2G1A~T2G1D	UG1A~UG1D	VG1A~VG1D
		G3		T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
		H8		T1H8A~T1H8D	T2H8A~T2H8D	UH8A~UH8D	VH8A~VH8D
		H0		T1H0A~T1H0D	T2H0A~T2H0D	UH0A~UH0D	VH0A~VH0D
		H2		T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
Part No. - 2E	T1 T2 U V	H8	A B C D	T1H8A~T1H8D	T2H8A~T2H8D	UH8A~UH8D	VH8A~VH8D
		H0		T1H0A~T1H0D	T2H0A~T2H0D	UH0A~UH0D	VH0A~VH0D
		H2		T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
		H9		T1H9A~T1H9D	T2H9A~T2H9D	UH9A~UH9D	VH9A~VH9D
		H1		T1H1A~T1H1D	T2H1A~T2H1D	UH1A~UH1D	VH1A~VH1D
		H3		T1H3A~T1H3D	T2H3A~T2H3D	UH3A~UH3D	VH3A~VH3D

2. Warm White

Standard Order Codes for Warm white							
Order Code	LF	CC	VF	Bin Codes			
Part No. - 3A	T1 T2 U V	F2	A B C D	T1F2A~T1F2D	T2F2A~T2F2D	UF2A~UF2D	VF2A~VF2D
		F4		T1F4A~T1F4D	T2F4A~T2F4D	UF4A~UF4D	VF4A~VF4D
		F6		T1F6A~T1F6D	T2F6A~T2F6D	UF6A~UF6D	VF6A~VF6D
		F3		T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
		F5		T1F5A~T1F5D	T2F5A~T2F5D	UF5A~UF5D	VF5A~VF5D
		F7		T1F7A~T1F7D	T2F7A~T2F7D	UF7A~UF7D	VF7A~VF7D
Part No. - 3B	T1 T2 U V	F3	A B C D	T1F3A~T1F3D	T2F3A~T2F3D	UF3A~UF3D	VF3A~VF3D
		F5		T1F5A~T1F5D	T2F5A~T2F5D	UF5A~UF5D	VF5A~VF5D
		F7		T1F7A~T1F7D	T2F7A~T2F7D	UF7A~UF7D	VF7A~VF7D
		G2		T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
		G4		T1G4A~T1G4D	T2G4A~T2G4D	UG4A~UG4D	VG4A~VG4D
		G6		T1G6A~T1G6D	T2G6A~T2G6D	UG6A~UG6D	VG6A~VG6D
Part No. - 3C	T1 T2 U V	G2	A B C D	T1G2A~T1G2D	T2G2A~T2G2D	UG2A~UG2D	VG2A~VG2D
		G4		T1G4A~T1G4D	T2G4A~T2G4D	UG4A~UG4D	VG4A~VG4D
		G6		T1G6A~T1G6D	T2G6A~T2G6D	UG6A~UG6D	VG6A~VG6D
		G3		T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
		G5		T1G5A~T1G5D	T2G5A~T2G5D	UG5A~UG5D	VG5A~VG5D
		G7		T1G7A~T1G7D	T2G7A~T2G7D	UG7A~UG7D	VG7A~VG7D
Part No. - 3D	T1 T2 U V	G3	A B C D	T1G3A~T1G3D	T2G3A~T2G3D	UG3A~UG3D	VG3A~VG3D
		G5		T1G5A~T1G5D	T2G5A~T2G5D	UG5A~UG5D	VG5A~VG5D
		G7		T1G7A~T1G7D	T2G7A~T2G7D	UG7A~UG7D	VG7A~VG7D
		H2		T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
		H4		T1H4A~T1H4D	T2H4A~T2H4D	UH4A~UH4D	VH4A~VH4D
		H6		T1H6A~T1H6D	T2H6A~T2H6D	UH6A~UH6D	VH6A~VH6D
Part No. - 3E	T1 T2 U V	H2	A B C D	T1H2A~T1H2D	T2H2A~T2H2D	UH2A~UH2D	VH2A~VH2D
		H4		T1H4A~T1H4D	T2H4A~T2H4D	UH4A~UH4D	VH4A~VH4D
		H6		T1H6A~T1H6D	T2H6A~T2H6D	UH6A~UH6D	VH6A~VH6D
		H3		T1H3A~T1H3D	T2H3A~T2H3D	UH3A~UH3D	VH3A~VH3D
		H5		T1H5A~T1H5D	T2H5A~T2H5D	UH5A~UH5D	VH5A~VH5D
		H7		T1H7A~T1H7D	T2H7A~T2H7D	UH7A~UH7D	VH7A~VH7D