

Binning & Labeling

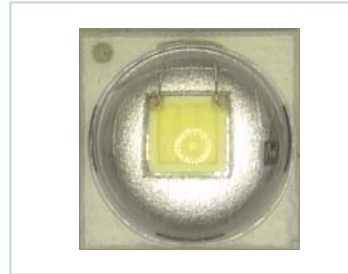
Z5

Description

The Z-Power series is designed for high current operation and high flux output applications.

It incorporates state of the art SMD design and low thermal resistant material.

The Z Power LED is ideal light sources for general illumination applications, custom designed solutions, automotive, large LCD backlights and high performance torches.



Features

- Super high Flux output and high Luminance
- Designed for high current operation
- SMT solderable
- Lead Free product
- RoHS compliant

Contents

1. **Part Number of Labeling**
2. **Code Labeling**
 - Flux Bins
 - Color Bins
 - Forward Voltage Bins
- **Order Code**

Applications

- Mobile phone flash
- Automotive interior / exterior lighting
- Automotive signal lighting
- Automotive forward lighting
- General Torch
- Architectural lighting
- LCD TV / Monitor Backlight
- Projector light source
- Traffic signals
- Task lighting
- Decorative / Pathway lighting
- Remote / Solar powered lighting

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

Part Number of Labeling

● Part Number

- X₁ : Company
- X₂ : Package series
- X₃ : Color
- X₄ : Z-Power LED series number
- X₅ : Lens type
- X₆ : PCB type
- X₇ : Revision No.

Rank :	X ₈ X ₉ X ₁₀
	
QUANTITY : 1000	
	
Lot No : #####	
	
SSC PART NUMBER : X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇	
	
X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇	
	

Part Number of Labeling

● Part Number

- Example : X₁X₂X₃X₄X₅X₆X₇

X ₁	Company
S	Seoul Semiconductor, Inc
C	Seoul Opto-Device Co., Ltd

X ₂	Package type
Z	Z-Power LED
A	Acriche
S	Side view LED
T	Top view LED
C	Chip LED
L	Lamp LED

X ₃	Color
WO	Pure White
WW	Warm White
WN	Neutral White
R	Red
G	Green
B	Blue
A	Amber

X ₄	Z-Power LED series
5	Z5

Part Number of Labeling

X ₅	Lens type
A	Dome-Wide
B	Dome-90°
C	Dome- 70°
D	Dome- 60°
F	Flat

X ₆	PCB type
0	Emitter
1	PCB

X ₇	Revision
A	Rev0
B	Rev1

Code Labeling

● Code Number

- X₈ : Flux
- X₉ : Color (CIE X,Y)
- X₁₀ : Forward Voltage

1. Flux Bins

1-1. Luminous flux bin structure for pure white, warm white, neutral white, blue , green, amber and red Z5 Package.

Bin Code		Luminous Flux [lm]
K		8.5 ~ 11.0
L		11.0 ~ 14.5
M		14.5 ~ 19.0
O		19.0 ~ 24.5
P		24.5 ~ 32.0
Q		32.0 ~ 41.5
R		41.5 ~ 54.0
S		54.0 ~ 70.0
T	T1	70.0 ~ 80.0
	T2	80.0 ~ 91.0
U	U1	91.0 ~ 100.0
	U2	100.0 ~ 109.0
	U3	109.0 ~ 118.5
V		118.5 ~ 154.0
W		154.0 ~ 200.0

Tolerance : ± 10% of Luminous flux value

2. Color Bins

Z5 packages are tested and binned for dominant wavelength (blue, green, amber, red) or x,y coordinates (pure, warm, neutral white)

2-1. Blue, Green, Amber, Red

Bin Code	Color	Dominant Wavelength [nm]	
		Min	Max
BB1	Blue	455	460
BB2		460	465
BB3		465	470
BB4		470	475
GG1	Green	520	525
GG2		525	530
GG3		530	535
AA1	Amber	585	587.5
AA2		587.5	590
AA3		590	592.5
AA4		592.5	595
RR1	Red	618	625
RR2		625	632

Tolerance

Dominant wavelength : ± 0.5 nm

2-2. Pure White CIE

Pure white product tested and binned by x,y coordinates and CCT

< IF=350mA, Ta=25°C >

	CIE X	CIE Y		CIE X	CIE Y
Z8	0.2969	0.2919	Z9	0.3025	0.2985
	0.2988	0.2860		0.3042	0.2922
	0.3042	0.2922		0.3096	0.2980
	0.3025	0.2985		0.3082	0.3046
	0.2969	0.2919		0.3025	0.2985
Z6	0.2950	0.2980	Z7	0.3009	0.3047
	0.2969	0.2919		0.3025	0.2985
	0.3025	0.2985		0.3082	0.3046
	0.3009	0.3047		0.3068	0.3113
	0.2950	0.2980		0.3009	0.3047
Z4	0.2930	0.3037	Z5	0.2993	0.3107
	0.2950	0.2980		0.3009	0.3047
	0.3009	0.3047		0.3068	0.3113
	0.2993	0.3107		0.3055	0.3177
	0.2930	0.3037		0.2993	0.3107
Z2	0.2910	0.3093	Z3	0.2976	0.3166
	0.2930	0.3037		0.2993	0.3107
	0.2993	0.3107		0.3055	0.3177
	0.2976	0.3166		0.3041	0.3240
	0.2910	0.3093		0.2976	0.3166
			Z1	0.2959	0.3227
				0.2976	0.3166
				0.3041	0.3240
				0.3028	0.3304
				0.2959	0.3227

* Measurement Uncertainty of the Color Coordinates : ± 0.01

<IF=350mA, Ta=25°C >

	CIE X	CIE Y		CIE X	CIE Y
A8	0.3082	0.3046	A9	0.3155	0.3120
	0.3096	0.2980		0.3164	0.3046
	0.3164	0.3046		0.3230	0.3110
	0.3155	0.3120		0.3225	0.3190
	0.3082	0.3046		0.3155	0.3120
A6	0.3068	0.3113	A7	0.3146	0.3187
	0.3082	0.3046		0.3155	0.3120
	0.3155	0.3120		0.3225	0.3190
	0.3146	0.3187		0.3221	0.3261
	0.3068	0.3113		0.3146	0.3187
A4	0.3055	0.3177	A5	0.3136	0.3256
	0.3068	0.3113		0.3146	0.3187
	0.3146	0.3187		0.3221	0.3261
	0.3136	0.3256		0.3216	0.3334
	0.3055	0.3177		0.3136	0.3256
A2	0.3041	0.3240	A3	0.3126	0.3324
	0.3055	0.3177		0.3136	0.3256
	0.3136	0.3256		0.3216	0.3334
	0.3126	0.3324		0.3210	0.3408
	0.3041	0.3240		0.3126	0.3324
A0	0.3028	0.3304	A1	0.3115	0.3393
	0.3041	0.3240		0.3126	0.3324
	0.3126	0.3324		0.3210	0.3408
	0.3115	0.3393		0.3205	0.3481
	0.3028	0.3304		0.3115	0.3393

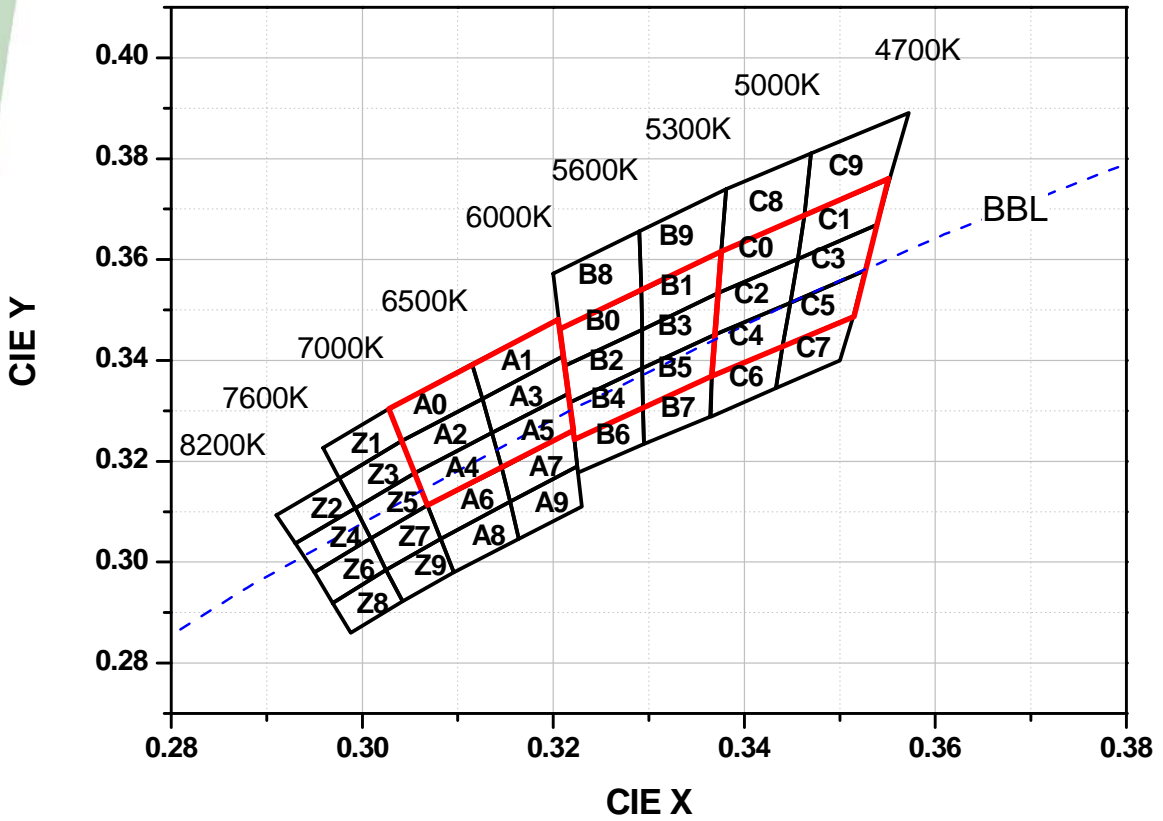
< IF=350mA, Ta=25°C >

	CIE X	CIE Y		CIE X	CIE Y
B6	0.3222	0.3243	B7	0.3294	0.3306
	0.3226	0.3178		0.3295	0.3234
	0.3295	0.3234		0.3364	0.3288
	0.3294	0.3306		0.3366	0.3369
	0.3222	0.3243		0.3294	0.3306
B4	0.3217	0.3316	B5	0.3293	0.3384
	0.3222	0.3243		0.3294	0.3306
	0.3294	0.3306		0.3366	0.3369
	0.3293	0.3384		0.3369	0.3451
	0.3217	0.3316		0.3293	0.3384
B2	0.3212	0.3389	B3	0.3293	0.3461
	0.3217	0.3316		0.3293	0.3384
	0.3293	0.3384		0.3369	0.3451
	0.3293	0.3461		0.3373	0.3534
	0.3212	0.3389		0.3293	0.3461
B0	0.3207	0.3462	B1	0.3292	0.3539
	0.3212	0.3389		0.3293	0.3461
	0.3293	0.3461		0.3373	0.3534
	0.3292	0.3539		0.3376	0.3616
	0.3207	0.3462		0.3292	0.3539
B8	0.3200	0.3572	B9	0.3290	0.3656
	0.3207	0.3462		0.3292	0.3539
	0.3292	0.3539		0.3376	0.3616
	0.3290	0.3656		0.3381	0.3740
	0.3200	0.3572		0.3290	0.3656

< IF=350mA, Ta=25°C >

	CIE X	CIE Y		CIE X	CIE Y
C6	0.3366	0.3369	C7	0.3440	0.3428
	0.3364	0.3288		0.3433	0.3345
	0.3433	0.3345		0.3500	0.3400
	0.3440	0.3428		0.3514	0.3487
	0.3366	0.3369		0.3440	0.3428
C4	0.3369	0.3451	C5	0.3448	0.3514
	0.3366	0.3369		0.3440	0.3428
	0.3440	0.3428		0.3514	0.3487
	0.3448	0.3514		0.3526	0.3578
	0.3369	0.3451		0.3448	0.3514
C2	0.3373	0.3534	C3	0.3456	0.3601
	0.3369	0.3451		0.3448	0.3514
	0.3448	0.3514		0.3526	0.3578
	0.3456	0.3601		0.3539	0.3669
	0.3373	0.3534		0.3456	0.3601
C0	0.3376	0.3616	C1	0.3463	0.3687
	0.3373	0.3534		0.3456	0.3601
	0.3456	0.3601		0.3539	0.3669
	0.3463	0.3687		0.3552	0.3760
	0.3376	0.3616		0.3463	0.3687
C8	0.3381	0.3740	C9	0.3470	0.3810
	0.3470	0.3810		0.3572	0.3891
	0.3463	0.3687		0.3552	0.3760
	0.3376	0.3616		0.3463	0.3687
	0.3381	0.3740		0.3470	0.3810

-. Pure White binning structure graphical representation



* Note

Red area is ANSI Pure White bin.

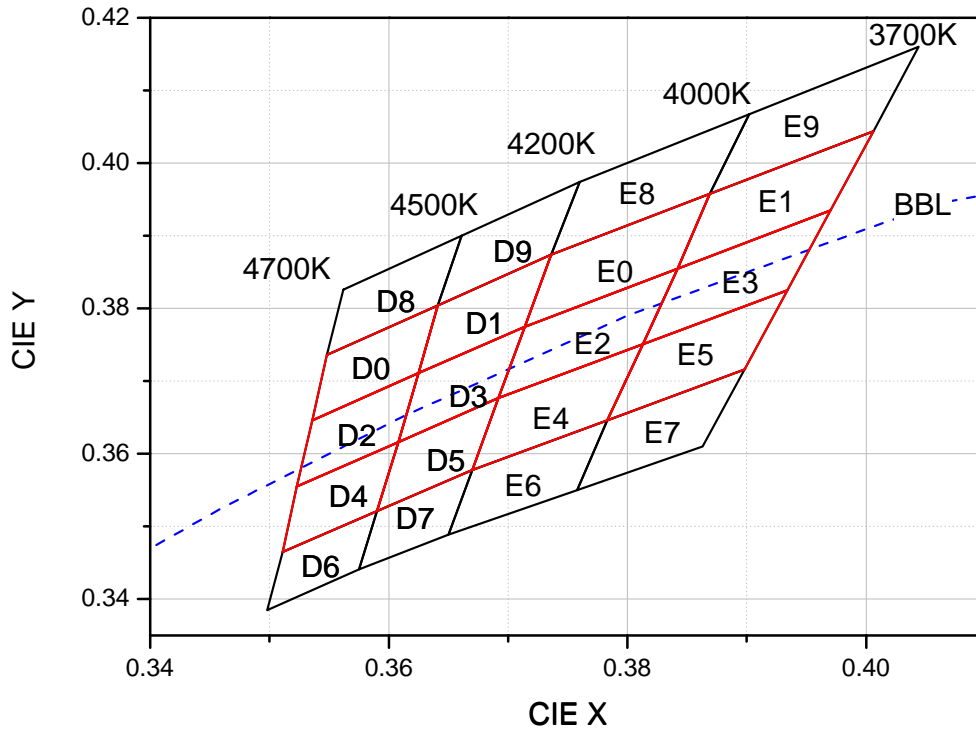
2-3. Neutral White CIE

Neutral white product tested and binned by x,y coordinates and CCT

	CIE X	CIE Y		CIE X	CIE Y
D8	0.3562	0.3826	D9	0.3661	0.39
	0.3548	0.3736		0.3641	0.3804
	0.3641	0.3804		0.3736	0.3874
	0.3661	0.39		0.376	0.3974
	0.3562	0.3826		0.3661	0.39
D0	0.3548	0.3736	D1	0.3641	0.3804
	0.3536	0.3646		0.3625	0.3711
	0.3625	0.3711		0.3714	0.3775
	0.3641	0.3804		0.3736	0.3874
	0.3548	0.3736		0.3641	0.3804
D2	0.3536	0.3646	D3	0.3625	0.3711
	0.3523	0.3555		0.3608	0.3616
	0.3608	0.3616		0.3692	0.3677
	0.3625	0.3711		0.3714	0.3775
	0.3536	0.3646		0.3625	0.3711
D4	0.3523	0.3555	D5	0.3608	0.3616
	0.3511	0.3465		0.359	0.3521
	0.359	0.3521		0.367	0.3578
	0.3608	0.3616		0.3692	0.3677
	0.3523	0.3555		0.3608	0.3616
D6	0.3511	0.3465	D7	0.359	0.3521
	0.3498	0.3385		0.3575	0.3441
	0.3575	0.3441		0.365	0.3489
	0.359	0.3521		0.367	0.3578
	0.3511	0.3465		0.359	0.3521

	CIE X	CIE Y		CIE X	CIE Y
E8	0.376	0.3974	E9	0.3902	0.4067
	0.3736	0.3874		0.3869	0.3958
	0.3869	0.3958		0.4006	0.4044
	0.3902	0.4067		0.4044	0.416
	0.376	0.3974		0.3902	0.4067
E0	0.3736	0.3874	E1	0.3869	0.3958
	0.3714	0.3775		0.3842	0.3855
	0.3841	0.3855		0.397	0.3935
	0.3869	0.3958		0.4006	0.4044
	0.3736	0.3874		0.3869	0.3958
E2	0.3714	0.3775	E3	0.3842	0.3855
	0.3692	0.3677		0.3813	0.3751
	0.3813	0.3751		0.3934	0.3825
	0.3842	0.3855		0.397	0.3935
	0.3714	0.3775		0.3842	0.3855
E4	0.3692	0.3677	E5	0.3813	0.3751
	0.367	0.3578		0.3783	0.3646
	0.3783	0.3646		0.3898	0.3716
	0.3813	0.3751		0.3934	0.3825
	0.3692	0.3677		0.3813	0.3751
E6	0.367	0.3578	E7	0.3783	0.3646
	0.365	0.3489		0.3758	0.355
	0.3758	0.355		0.3863	0.361
	0.3783	0.3646		0.3898	0.3716
	0.367	0.3578		0.3783	0.3646

- Neutral White binning structure graphical representation



* Note

Red area is ANSI Neutral White bin.

2-4. Warm White CIE

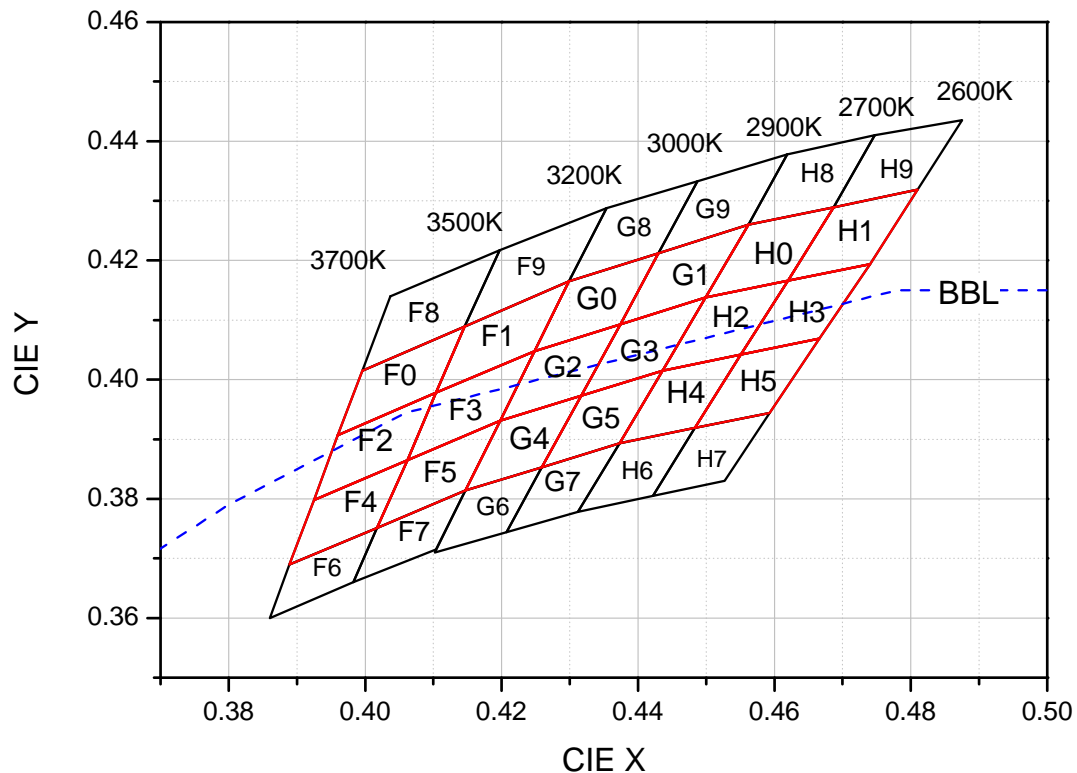
Warm white product tested and binned by x,y coordinates and CCT

	CIE X	CIE Y		CIE X	CIE Y
F8	0.4037	0.414	F9	0.4197	0.4217
	0.3996	0.4015		0.4146	0.4089
	0.4146	0.4089		0.4299	0.4165
	0.4197	0.4217		0.4354	0.4288
	0.4037	0.414		0.4197	0.4217
F0	0.3996	0.4015	F1	0.4146	0.4089
	0.396	0.3907		0.4104	0.3978
	0.4104	0.3978		0.4248	0.4048
	0.4146	0.4089		0.4299	0.4165
	0.3996	0.4015		0.4146	0.4089
F2	0.396	0.3907	F3	0.4104	0.3978
	0.3925	0.3798		0.4062	0.3865
	0.4062	0.3865		0.4198	0.3931
	0.4104	0.3978		0.4248	0.4048
	0.396	0.3907		0.4104	0.3978
F4	0.3925	0.3798	F5	0.4062	0.3865
	0.3889	0.369		0.4017	0.3751
	0.4017	0.3751		0.4147	0.3814
	0.4062	0.3865		0.4198	0.3931
	0.3925	0.3798		0.4062	0.3865
F6	0.3889	0.369	F7	0.4017	0.3751
	0.386	0.36		0.3983	0.366
	0.3983	0.366		0.4104	0.3715
	0.4017	0.3751		0.4147	0.3814
	0.3889	0.369		0.4017	0.3751

	CIE X	CIE Y		CIE X	CIE Y
G8	0.4354	0.4288	G9	0.4487	0.4333
	0.4299	0.4165		0.443	0.4212
	0.443	0.4212		0.4562	0.426
	0.4487	0.4333		0.4619	0.4378
	0.4354	0.4288		0.4487	0.4333
G0	0.4299	0.4165	G1	0.443	0.4212
	0.4248	0.4048		0.4374	0.4093
	0.4374	0.4093		0.4499	0.4138
	0.443	0.4212		0.4562	0.426
	0.4299	0.4165		0.443	0.4212
G2	0.4248	0.4048	G3	0.4374	0.4093
	0.4198	0.3931		0.4317	0.3973
	0.4317	0.3973		0.4436	0.4015
	0.4374	0.4093		0.4499	0.4138
	0.4248	0.4048		0.4374	0.4093
G4	0.4198	0.3931	G5	0.4317	0.3973
	0.4147	0.3814		0.4259	0.3853
	0.4259	0.3853		0.4373	0.3893
	0.4317	0.3973		0.4436	0.4015
	0.4198	0.3931		0.4317	0.3973
G6	0.4147	0.3814	G7	0.4259	0.3853
	0.4102	0.371		0.4207	0.3744
	0.4207	0.3744		0.4312	0.3778
	0.4259	0.3853		0.4373	0.3893
	0.4147	0.3814		0.4259	0.3853

	CIE X	CIE Y		CIE X	CIE Y
H8	0.4619	0.4378	H9	0.4747	0.441
	0.4562	0.426		0.4687	0.4289
	0.4687	0.4289		0.481	0.4319
	0.4747	0.441		0.4875	0.4435
	0.4619	0.4378		0.4747	0.441
H0	0.4562	0.426	H1	0.4687	0.4289
	0.4499	0.4138		0.462	0.4166
	0.462	0.4166		0.474	0.4194
	0.4687	0.4289		0.481	0.4319
	0.4562	0.426		0.4687	0.4289
H2	0.4499	0.4138	H3	0.462	0.4166
	0.4436	0.4015		0.4551	0.4042
	0.4551	0.4042		0.4666	0.4069
	0.462	0.4166		0.474	0.4194
	0.4499	0.4138		0.462	0.4166
H4	0.4436	0.4015	H5	0.4551	0.4042
	0.4373	0.3893		0.4483	0.3919
	0.4483	0.3919		0.4593	0.3944
	0.4551	0.4042		0.4666	0.4069
	0.4436	0.4015		0.4551	0.4042
H6	0.4373	0.3893	H7	0.4483	0.3919
	0.4312	0.3778		0.4422	0.3805
	0.4422	0.3805		0.4527	0.383
	0.4483	0.3919		0.4593	0.3944
	0.4373	0.3893		0.4483	0.3919

-. Warm White binning structure graphical representation



* Note

Red area is ANSI Warm White bin.

3. Forward Voltage Bins

Bin code	Forward Voltage [V]
D	2.00 ~ 2.25
E	2.25 ~ 2.50
F	2.50 ~ 2.75
G	2.75 ~ 3.00
H	3.00 ~ 3.25
I	3.25 ~ 3.50
J	3.50 ~ 3.75
K	3.75 ~ 4.00

Order code

Z Power LED has an order code, use it as follows to purchase.

- Example: SZW05A0A – 1A
 - SZW05A0A : Part Number
 - 1A : Order code

1. Pure White (1A)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1A	U1	A2	H I J K	U1A2H~U1A2K
		A3		U1A3H~U1A3K
		A4		U1A4H~U1A4K
		A5		U1A5H~U1A5K
		A6		U1A6H~U1A6K
		A7		U1A7H~U1A7K
	U2	A2	H I J K	U2A2H~U2A2K
		A3		U2A3H~U2A3K
		A4		U2A4H~U2A4K
		A5		U2A5H~U2A5K
		A6		U2A6H~U2A6K
		A7		U2A7H~U2A7K
	U3	A2	H I J K	U3A2H~U3A2K
		A3		U3A3H~U3A3K
		A4		U3A4H~U3A4K
		A5		U3A5H~U3A5K
		A6		U3A6H~U3A6K
		A7		U3A7H~U3A7K

Order code

1. Pure White (1B)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1B	U1	A0	H I J K	U1A0H~U1A0K
		A1		U1A1H~U1A1K
		A2		U1A2H~U1A2K
		A3		U1A3H~U1A3K
		A4		U1A4H~U1A4K
		A5		U1A5H~U1A5K
	U2	A0	H I J K	U2A0H~U2A0K
		A1		U2A1H~U2A1K
		A2		U2A2H~U2A2K
		A3		U2A3H~U2A3K
		A4		U2A4H~U2A4K
		A5		U2A5H~U2A5K
	U3	A0	H I J K	U3A0H~U3A0K
		A1		U3A1H~U3A1K
		A2		U3A2H~U3A2K
		A3		U3A3H~U3A3K
		A4		U3A4H~U3A4K
		A5		U3A5H~U3A5K

Order code

1. Pure White (1C)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	U1	A4	H I J K	U1A4H~U1A4K
		A5		U1A5H~U1A5K
		A6		U1A6H~U1A6K
		A7		U1A7H~U1A7K
		A8		U1A8H~U1A8K
		A9		U1A9H~U1A9K
	U2	A4	H I J K	U2A4H~U2A4K
		A5		U2A5H~U2A5K
		A6		U2A6H~U2A6K
		A7		U2A7H~U2A7K
		A8		U2A8H~U2A8K
		A9		U2A9H~U2A9K
	U3	A4	H I J K	U3A4H~U3A4K
		A5		U3A5H~U3A5K
		A6		U3A6H~U3A6K
		A7		U3A7H~U3A7K
		A8		U3A8H~U3A8K
		A9		U3A9H~U3A9K

Order code

1. Pure White (1D)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1D	U1	Z2	H I J K	U1Z2H~U1Z2K
		Z3		U1Z3H~U1Z3K
		Z4		U1Z4H~U1Z4K
		Z5		U1Z5H~U1Z5K
		Z6		U1Z6H~U1Z6K
		Z7		U1Z7H~U1Z7K
	U2	Z2	H I J K	U2Z2H~U2Z2K
		Z3		U2Z3H~U2Z3K
		Z4		U2Z4H~U2Z4K
		Z5		U2Z5H~U2Z5K
		Z6		U2Z6H~U2Z6K
		Z7		U2Z7H~U2Z7K
	U3	Z2	H I J K	U3Z2H~U3Z2K
		Z3		U3Z3H~U3Z3K
		Z4		U3Z4H~U3Z4K
		Z5		U3Z5H~U3Z5K
		Z6		U3Z6H~U3Z6K
		Z7		U3Z7H~U3Z7K

Order code

1. Pure White (1E)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	U1	Z1	H I J K	U1Z1H~U1Z1K
		Z2		U1Z2H~U1Z2K
		Z3		U1Z3H~U1Z3K
		Z4		U1Z4H~U1Z4K
		Z5		U1Z5H~U1Z5K
	U2	Z1	H I J K	U2Z1H~U2Z1K
		Z2		U2Z2H~U2Z2K
		Z3		U2Z3H~U2Z3K
		Z4		U2Z4H~U2Z4K
		Z5		U2Z5H~U2Z5K
	U3	Z1	H I J K	U3Z1H~U3Z1K
		Z2		U3Z2H~U3Z2K
		Z3		U3Z3H~U3Z3K
		Z4		U3Z4H~U3Z4K
		Z5		U3Z5H~U3Z5K

Order code

1. Pure White (1F)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1F	U1	Z4	H I J K	U1Z4H~U1Z4K
		Z5		U1Z5H~U1Z5K
		Z6		U1Z6H~U1Z6K
		Z7		U1Z7H~U1Z7K
		Z8		U1Z8H~U1Z8K
		Z9		U1Z9H~U1Z9K
	U2	Z4	H I J K	U2Z4H~U2Z4K
		Z5		U2Z5H~U2Z5K
		Z6		U2Z6H~U2Z6K
		Z7		U2Z7H~U2Z7K
		Z8		U2Z8H~U2Z8K
		Z9		U2Z9H~U2Z9K
	U3	Z4	H I J K	U3Z4H~U3Z4K
		Z5		U3Z5H~U3Z5K
		Z6		U3Z6H~U3Z6K
		Z7		U3Z7H~U3Z7K
		Z8		U3Z8H~U3Z8K
		Z9		U3Z9H~U3Z9K

Order code

1. Pure White (1G)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	U1	B0	H I J K	U1B0H~U1B0K
		B1		U1B1H~U1B1K
		B2		U1B2H~U1B2K
		B3		U1B3H~U1B3K
		B4		U1B4H~U1B4K
		B5		U1B5H~U1B5K
	U2	B0	H I J K	U2B0H~U2B0K
		B1		U2B1H~U2B1K
		B2		U2B2H~U2B2K
		B3		U2B3H~U2B3K
		B4		U2B4H~U2B4K
		B5		U2B5H~U2B5K
	U3	B0	H I J K	U3B0H~U3B0K
		B1		U3B1H~U3B1K
		B2		U3B2H~U3B2K
		B3		U3B3H~U3B3K
		B4		U3B4H~U3B4K
		B5		U3B5H~U3B5K

Order code

1. Pure White (1H)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1H	U1	B0	H I J K	U1B0H~U1B0K
		B1		U1B1H~U1B1K
		B2		U1B2H~U1B2K
		B3		U1B3H~U1B3K
		B8		U1B8H~U1B8K
		B9		U1B9H~U1B9K
	U2	B0	H I J K	U2B0H~U2B0K
		B1		U2B1H~U2B1K
		B2		U2B2H~U2B2K
		B3		U2B3H~U2B3K
		B8		U2B8H~U2B8K
		B9		U2B9H~U2B9K
	U3	B0	H I J K	U3B0H~U3B0K
		B1		U3B1H~U3B1K
		B2		U3B2H~U3B2K
		B3		U3B3H~U3B3K
		B8		U3B8H~U3B8K
		B9		U3B9H~U3B9K

Order code

1. Pure White (11)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 11	U1	B2	H I J K	U1B2H~U1B2K
		B3		U1B3H~U1B3K
		B4		U1B4H~U1B4K
		B5		U1B5H~U1B5K
		B6		U1B6H~U1B6K
		B7		U1B7H~U1B7K
		U2		B2
	B3		U2B3H~U2B3K	
	B4		U2B4H~U2B4K	
	B5		U2B5H~U2B5K	
	B6		U2B6H~U2B6K	
	B7		U2B7H~U2B7K	
	U3		B2	H I J K
		B3	U3B3H~U3B3K	
		B4	U3B4H~U3B4K	
		B5	U3B5H~U3B5K	
		B6	U3B6H~U3B6K	
		B7	U3B7H~U3B7K	

Order code

1. Pure White (1J)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1J	U1	C0	H I J K	U1C0H~U1C0K
		C1		U1C1H~U1C1K
		C2		U1C2H~U1C2K
		C3		U1C3H~U1C3K
		C4		U1C4H~U1C4K
		C5		U1C5H~U1C5K
	U2	C0	H I J K	U2C0H~U2C0K
		C1		U2C1H~U2C1K
		C2		U2C2H~U2C2K
		C3		U2C3H~U2C3K
		C4		U2C4H~U2C4K
		C5		U2C5H~U2C5K
	U3	C0	H I J K	U3C0H~U3C0K
		C1		U3C1H~U3C1K
		C2		U3C2H~U3C2K
		C3		U3C3H~U3C3K
		C4		U3C4H~U3C4K
		C5		U3C5H~U3C5K

Order code

1. Pure White (1K)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	U1	C0	H I J K	U1C0H~U1C0K
		C1		U1C1H~U1C1K
		C2		U1C2H~U1C2K
		C3		U1C3H~U1C3K
		C8		U1C8H~U1C8K
		C9		U1C9H~U1C9K
	U2	C0	H I J K	U2C0H~U2C0K
		C1		U2C1H~U2C1K
		C2		U2C2H~U2C2K
		C3		U2C3H~U2C3K
		C8		U2C8H~U2C8K
		C9		U2C9H~U2C9K
	U3	C0	H I J K	U3C0H~U3C0K
		C1		U3C1H~U3C1K
		C2		U3C2H~U3C2K
		C3		U3C3H~U3C3K
		C8		U3C8H~U3C8K
		C9		U3C9H~U3C9K

Order code

1. Pure White (1L)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1L	U1	C2	H I J K	U1C2H~U1C2K
		C3		U1C3H~U1C3K
		C4		U1C3H~U1C3K
		C5		U1C4H~U1C4K
		C6		U1C5H~U1C5K
		C7		U1C6H~U1C6K
	U2	C2	H I J K	U2C2H~U2C2K
		C3		U2C3H~U2C3K
		C4		U2C3H~U2C3K
		C5		U24H~U2C4K
		C6		U2C5H~U2C5K
		C7		U2C6H~U2C6K
	U3	C2	H I J K	U3C2H~U3C2K
		C3		U3C3H~U3C3K
		C4		U3C3H~U3C3K
		C5		U3C4H~U3C4K
		C6		U3C5H~U3C5K
		C7		U3C6H~U3C6K

Order code

Z Power LED has an order code, use it as follows to purchase.

- Example: SZWN5A0A – 1A
 - SZWN5A0A : Part Number
 - 1A : Order code

2. Neutral White (1A)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1A	T1	D0	H I J K	T1D0H~T1D0K
		D1		T1D1H~T1D1K
		D2		T1D2H~T1D2K
		D3		T1D3H~T1D3K
		D4		T1D4H~T1D4K
		D5		T1D5H~T1D5K
	T2	D0	H I J K	T2D0H~T2D0K
		D1		T2D1H~T2D1K
		D2		T2D2H~T2D2K
		D3		T2D3H~T2D3K
		D4		T2D4H~T2D4K
		D5		T2D5H~T2D5K
	U1	D0	H I J K	U1D0H~U1D0K
		D1		U1D1H~U1D1K
		D2		U1D2H~U1D2K
		D3		U1D3H~U1D3K
		D4		U1D4H~U1D4K
		D5		U1D5H~U1D5K

Order code

2. Neutral White (1B)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1B	T1	D0	H I J K	T1D0H~T1D0K
		D1		T1D1H~T1D1K
		D2		T1D2H~T1D2K
		D3		T1D3H~T1D3K
		D8		T1D8H~T1D8K
		D9		T1D9H~T1D9K
	T2	D0	H I J K	T2D0H~T2D0K
		D1		T2D1H~T2D1K
		D2		T2D2H~T2D2K
		D3		T2D3H~T2D3K
		D8		T2D8H~T2D8K
		D9		T2D9H~T2D9K
	U1	D0	H I J K	U1D0H~U1D0K
		D1		U1D1H~U1D1K
		D2		U1D2H~U1D2K
		D3		U1D3H~U1D3K
		D8		U1D8H~U1D8K
		D9		U1D9H~U1D9K

Order code

2. Neutral White (1C)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	T1	D2	H I J K	T1D2H~T1D2K
		D3		T1D3H~T1D3K
		D4		T1D4H~T1D4K
		D5		T1D5H~T1D5K
		D6		T1D6H~T1D6K
		D7		T1D7H~T1D7K
		T2		D2
	D3		T2D3H~T2D3K	
	D4		T2D4H~T2D4K	
	D5		T2D5H~T2D5K	
	D6		T2D6H~T2D6K	
	D7		T2D7H~T2D7K	
	U1	D2	H I J K	U1D2H~U1D2K
		D3		U1D3H~U1D3K
		D4		U1D4H~U1D4K
		D5		U1D5H~U1D5K
		D6		U1D6H~U1D6K
		D7		U1D7H~U1D7K

Order code

2. Neutral White (1D)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1D	T1	D1	H I J K	T1D1H~T1D1K
		D3		T1D3H~T1D3K
		D5		T1D5H~T1D5K
		E0		T1E0H~T1E0K
		E2		T1E2H~T1E2K
		E4		T1E4H~T1E4K
	T2	D1	H I J K	T2D1H~T2D1K
		D3		T2D3H~T2D3K
		D5		T2D5H~T2D5K
		E0		T2E0H~T2E0K
		E2		T2E2H~T2E2K
		E4		T2E4H~T2E4K
	U1	D1	H I J K	U1D1H~U1D1K
		D3		U1D3H~U1D3K
		D5		U1D5H~U1D5K
		E0		U1E0H~U1E0K
		E2		U1E2H~U1E2K
		E4		U1E4H~U1E4K

Order code

2. Neutral White (1E)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	T1	D1	H I J K	T1D1H~T1D1K
		D3		T1D3H~T1D3K
		D9		T1D9H~T1D9K
		E0		T1E0H~T1E0K
		E2		T1E2H~T1E2K
		E8		T1E8H~T1E8K
	T2	D1	H I J K	T2D1H~T2D1K
		D3		T2D3H~T2D3K
		D9		T2D9H~T2D9K
		E0		T2E0H~T2E0K
		E2		T2E2H~T2E2K
		E8		T2E8H~T2E8K
	U1	D1	H I J K	U1D1H~U1D1K
		D3		U1D3H~U1D3K
		D9		U1D9H~U1D9K
		E0		U1E0H~U1E0K
		E2		U1E2H~U1E2K
		E8		U1E8H~U1E8K

Order code

2. Neutral White (1F)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1F	T1	D3	H I J K	T1D3H~T1D3K
		D5		T1D5H~T1D5K
		D7		T1D7H~T1D7K
		E2		T1E2H~T1E2K
		E4		T1E4H~T1E4K
		E6		T1E6H~T1E6K
	T2	D3	H I J K	T2D3H~T2D3K
		D5		T2D5H~T2D5K
		D7		T2D7H~T2D7K
		E2		T2E2H~T2E2K
		E4		T2E4H~T2E4K
		E6		T2E6H~T2E6K
	U1	D3	H I J K	U1D3H~U1D3K
		D5		U1D5H~U1D5K
		D7		U1D7H~U1D7K
		E2		U1E2H~U1E2K
		E4		U1E4K~U1E4K
		E6		U1E6H~U1E6K

Order code

2. Neutral White (1G)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	T1	E0	H I J K	T1E0H~T1E0K
		E1		T1E1H~T1E1K
		E2		T1E2H~T1E2K
		E3		T1E3H~T1E3K
		E4		T1E4H~T1E4K
		E5		T1E5H~T1E5K
	T2	E0	H I J K	T2E0H~T2E0K
		E1		T2E1H~T2E1K
		E2		T2E2H~T2E2K
		E3		T2E3H~T2E3K
		E4		T2E4H~T2E4K
		E5		T2E5H~T2E5K
	U1	E0	H I J K	U1E0H~U1E0K
		E1		U1E1H~U1E1K
		E2		U1E2H~U1E2K
		E3		U1E3H~U1E3K
		E4		U1E4H~U1E4K
		E5		U1E5H~U1E5K

Order code

2. Neutral White (1H)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1H	T1	E0	H I J K	T1E0H~T1E0K
		E1		T1E1H~T1E1K
		E2		T1E2H~T1E2K
		E3		T1E3H~T1E3K
		E8		T1E8H~T1E8K
		E9		T1E9H~T1E9K
	T2	E0	H I J K	T2E0H~T2E0K
		E1		T2E1H~T2E1K
		E2		T2E2H~T2E2K
		E3		T2E3H~T2E3K
		E8		T2E8H~T2E8K
		E9		T2E9H~T2E9K
	U1	E0	H I J K	U1E0H~U1E0K
		E1		U1E1H~U1E1K
		E2		U1E2H~U1E2K
		E3		U1E3H~U1E3K
		E8		U1E8H~U1E8K
		E9		U1E9H~U1E9K

Order code

2. Neutral White (1I)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	T1	E2	H I J K	T1E2H~T1E2K
		E3		T1E3H~T1E3K
		E4		T1E4H~T1E4K
		E5		T1E5H~T1E5K
		E6		T1E6H~T1E6K
		E7		T1E7H~T1E7K
	T2	E2	H I J K	T2E2H~T2E2K
		E3		T2E3H~T2E3K
		E4		T2E4H~T2E4K
		E5		T2E5H~T2E5K
		E6		T2E6H~T2E6K
		E7		T2E7H~T2E7K
	U1	E2	H I J K	U1E2H~U1E2K
		E3		U1E3H~U1E3K
		E4		U1E4H~U1E4K
		E5		U1E5H~U1E5K
		E6		U1E6H~U1E6K
		E7		U1E7H~U1E7K

Order code

Z Power LED has an order code, use it as follows to purchase.

- Example: SZWW5A0A – 1A
 - SZWW5A0A : Part Number
 - 1A : Order code

3. Warm White (1A, 1B)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1A	T1	F0	H I J K	T1F0H~T1F0K
		F1		T1F1H~T1F1K
		F2		T1F2H~T1F2K
		F3		T1F3H~T1F3K
		F4		T1F4H~T1F4K
		F5		T1F5H~T1F5K
	T2	F0	H I J K	T2F0H~T2F0K
		F1		T2F1H~T2F1K
		F2		T2F2H~T2F2K
		F3		T2F3H~T2F3K
		F4		T2F4H~T2F4K
		F5		T2F5H~T2F5K
Part No. – 1B	T1	F1	H I J K	T1F1H~T1F1K
		F3		T1F3H~T1F3K
		F5		T1F5H~T1F5K
		G0		T1G0H~T1G0K
		G2		T1G2H~T1G2K
		G4		T1G4H~T1G4K
	T2	F1	H I J K	T2F1H~T2F1K
		F3		T2F3H~T2F3K
		F5		T2F5H~T2F5K
		G0		T2G0H~T2G0K
		G2		T2G2H~T2G2K
		G4		T2G4H~T2G4K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1C, 1D)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	T1	G0	H I J K	T1G0H~T1G0K
		G1		T1G1H~T1G1K
		G2		T1G2H~T1G2K
		G3		T1G3H~T1G3K
		G4		T1G4H~T1G4K
		G5		T1G5H~T1G5K
	T2	G0	H I J K	T2G0H~T2G0K
		G1		T2G1H~T2G1K
		G2		T2G2H~T2G2K
		G3		T2G3H~T2G3K
		G4		T2G4H~T2G4K
		G5		T2G5H~T2G5K
Part No. – 1D	T1	G1	H I J K	T1G1H~T1G1K
		G3		T1G3H~T1G3K
		G5		T1G5H~T1G5K
		H0		T1H0H~T1H0K
		H2		T1H2H~T1H2K
		H4		T1H4H~T1H4K
	T2	G1	H I J K	T2G1H~T2G1K
		G3		T2G3H~T2G3K
		G5		T2G5H~T2G5K
		H0		T2H0H~T2H0K
		H2		T2H2H~T2H2K
		H4		T2H4H~T2H4K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1E, 1F)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	T1	H0	H I J K	T1H0H~T1H0K
		H1		T1H1H~T1H1K
		H2		T1H2H~T1H2K
		H3		T1H3H~T1H3K
		H4		T1H4H~T1H4K
		H5		T1H5H~T1H5K
	T2	H0	H I J K	T2H0H~T2H0K
		H1		T2H1H~T2H1K
		H2		T2H2H~T2H2K
		H3		T2H3H~T2H3K
		H4		T2H4H~T2H4K
		H5		T2H5H~T2H5K
Part No. – 1F	T1	F0	H I J K	T1F0H~T1F0K
		F1		T1F1H~T1F1K
		F2		T1F2H~T1F2K
		F3		T1F3H~T1F3K
		F8		T1F8H~T1F8K
		F9		T1F9H~T1F9K
	T2	F0	H I J K	T2F0H~T2F0K
		F1		T2F1H~T2F1K
		F2		T2F2H~T2F2K
		F3		T2F3H~T2F3K
		F8		T2F8H~T2F8K
		F9		T2F9H~T2F9K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1G, 1H)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	T1	F1	H I J K	T1F1H~T1F1K
		F3		T1F3H~T1F3K
		F9		T1F9H~T1F9K
		G0		T1G0H~T1G0K
		G2		T1G2H~T1G2K
		G8		T1G8H~T1G8K
	T2	F1	H I J K	T2F1H~T2F1K
		F3		T2F3H~T2F3K
		F9		T2F9H~T2F9K
		G0		T2G0H~T2G0K
		G2		T2G2H~T2G2K
		G8		T2G8H~T2G8K
Part No. – 1H	T1	G0	H I J K	T1G0H~T1G0K
		G1		T1G1H~T1G1K
		G2		T1G2H~T1G2K
		G3		T1G3H~T1G3K
		G8		T1G8H~T1G8K
		G9		T1G9H~T1G9K
	T2	G0	H I J K	T2G0H~T2G0K
		G1		T2G1H~T2G1K
		G2		T2G2H~T2G2K
		G3		T2G3H~T2G3K
		G8		T2G8H~T2G8K
		G9		T2G9H~T2G9K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1I, 1J)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	T1	G1	H I J K	T1G1H~T1G1K
		G3		T1G3H~T1G3K
		G9		T1G9H~T1G9K
		H0		T1H0H~T1H0K
		H2		T1H2H~T1H2K
		H8		T1H8H~T1H8K
	T2	G1	H I J K	T2G1H~T2G1K
		G3		T2G3H~T2G3K
		G9		T2G9H~T2G9K
		H0		T2H0H~T2H0K
		H2		T2H2H~T2H2K
		H8		T2H8H~T2H8K
Part No. – 1J	T1	H0	H I J K	T1H0H~T1H0K
		H1		T1H1H~T1H1K
		H2		T1H2H~T1H2K
		H3		T1H3H~T1H3K
		H8		T1H8H~T1H8K
		H9		T1H9H~T1H9K
	T2	H0	H I J K	T2H0H~T2H0K
		H1		T2H1H~T2H1K
		H2		T2H2H~T2H2K
		H3		T2H3H~T2H3K
		H8		T2H8H~T2H8K
		H9		T2H9H~T2H9K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1K, 1L)

Standard Order Codes for pure white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1K	T1	F2	H I J K	T1F2H~T1F2K	
		F3		T1F3H~T1F3K	
		F4		T1F4H~T1F4K	
		F5		T1F5H~T1F5K	
		F6		T1F6H~T1F6K	
		F7		T1F7H~T1F7K	
		T2		F2	H I J K
	F3		T2F3H~T2F3K		
	F4		T2F4H~T2F4K		
	F5		T2F5H~T2F5K		
	F6		T2F6H~T2F6K		
	F7		T2F7H~T2F7K		
	Part No. – 1L		T1	F3	
		F5		T1F5H~T1F5K	
F7		T1F7H~T1F7K			
G2		T1G2H~T1G2K			
G4		T1G4H~T1G4K			
G6		T1G6H~T1G6K			
T2		F3		H I J K	T2F3H~T2F3K
		F5	T2F5H~T2F5K		
		F7	T2F7H~T2F7K		
		G2	T2G2H~T2G2K		
		G4	T2G4H~T2G4K		
		G6	T2G6H~T2G6K		

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (1M, 1N)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1M	T1	G2	H I J K	T1G2H~T1G2K
		G3		T1G3H~T1G3K
		G4		T1G4H~T1G4K
		G5		T1G5H~T1G5K
		G6		T1G6H~T1G6K
		G7		T1G7H~T1G7K
	T2	G2	H I J K	T2G2H~T2G2K
		G3		T2G3H~T2G3K
		G4		T2G4H~T2G4K
		G5		T2G5H~T2G5K
		G6		T2G6H~T2G6K
		G7		T2G7H~T2G7K
Part No. – 1N	T1	G3	H I J K	T1G3H~T1G3K
		G5		T1G5H~T1G5K
		G7		T1G7H~T1G7K
		H2		T1H2H~T1H2K
		H4		T1H4H~T1H4K
		H6		T1H6H~T1H6K
	T2	G3	H I J K	T2G3H~T2G3K
		G5		T2G5H~T2G5K
		G7		T2G7H~T2G7K
		H2		T2H2H~T2H2K
		H4		T2H4H~T2H4K
		H6		T2H6H~T2H6K

Order code

Z Power LED has an order code, use it as follows to purchase.

3. Warm White (10)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	T1	H2	H I J K	T1H2H~T1H2K
		H3		T1H3H~T1H3K
		H4		T1H4H~T1H4K
		H5		T1H5H~T1H5K
		H6		T1H6H~T1H6K
		H7		T1H7H~T1H7K
		T2		H2
	H3		T2H3H~T2H3K	
	H4		T2H4H~T2H4K	
	H5		T2H5H~T2H5K	
	H6		T2H6H~T2H6K	
	H7		T2H7H~T2H7K	

Order code

4. Blue – SZB05A0A

Standard Order Codes for Blue				
Order Code	Luminous Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	L	BB1	H I J K	LBB1H~LBB1K
		BB2		LBB2H~LBB2K
	M	BB1		MBB1H~MBB1K
		BB2		MBB2H~MBB2K
Part No. - 1B	O	BB1	H I J K	OBB1H~OBB1K
		BB2		OBB2H~OBB2K
	P*	BB1		PBB1H~PBB1K
		BB2		PBB2H~PBB2K
Part No. - 1C	L	BB3	H I J K	LBB3H~LBB3K
		BB4		LBB4H~LBB4K
	M	BB3		MBB3H~MBB3K
		BB4		MBB4H~MBB4K
Part No. - 1D	O	BB3	H I J K	OBB3H~OBB3K
		BB4		OBB4H~OBB4K
	P*	BB3		PBB3H~PBB3K
		BB4		PBB4H~PBB4K

* : Not yet available

Order code

5. Green –SZG05A0A

Standard Order Codes for Green				
Order Code	Luminous Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	S	GG1	H,I,J,K,L	SGG1H~SGG1L
Part No. - 1B	T		H,I,J,K,L	TGG1H~TGG1L
	U			UGG1H~UGG1L
Part No. - 1C	S	GG2	H,I,J,K,L	SGG2H~SGG2L
Part No. - 1D	T		H,I,J,K,L	TGG2H~TGG2L
	U			UGG2H~UGG2L
Part No. - 1E	S	GG3	H,I,J,K,L	SGG3H~SGG3L
Part No. - 1F	T		H,I,J,K,L	TGG3H~TGG3L
	U			UGG3H~UGG3L

Order code

6. Amber – SZA05A0A

Standard Order Codes for Amber				
Order Code	Luminous Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	Q	AA1	D E F G	QAA1D~QAA1G
		AA2		QAA1D~QAA1G
	R	AA1		RAA1D~RAA1G
		AA2		RAA2D~RAA2G
	S*	AA1		SAA1D~SAA1G
		AA2		SAA1D~SAA1G
Part No.– 1B	Q	AA3	D E F G	QAA3D~QAA3G
		AA4		QAA4D~QAA4G
	R	AA3		RAA3D~RAA3G
		AA4		RAA4D~RAA4G
	S*	AA3		SAA3D~SAA3G
		AA4		SAA4D~SAA4G

* : Not yet available

Order code

7. Red – SZR05A0A

Standard Order Codes for Red				
Order Code	Luminous Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	Q	RR1	D,E,F,G	QRR1D~QRR1G
Part No. - 1B	R		D,E,F,G	RRR1D~RRR1G
	S		D,E,F,G	SRR1D~SRR1G
Part No. - 1C	Q	RR2*	D,E,F,G	QRR2D~QRR2G
Part No. - 1D	R		D,E,F,G	RRR2D~RRR2G
	S		D,E,F,G	SRR2D~SRR2G

0

* : Not yet available

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