

Application Note 1-1

Z-POWER LED series

Binning and Labeling

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



Z-Power LED's thermal management perform exceeds other power LED solutions.

It incorporates state of the art SMD design and Thermal emission material.

Z Power LED is ideal light sources for general illumination applications, custom designed solutions, automotive large LCD backlights

This application note provides binning and labeling information of Z-Power LED series.

It includes the Z-Power LED bins for luminous flux, wavelength (or x,y coordinates), correlated color temperature (CCT) for white and forward voltage.

P4

Features

- Super high flux output and high luminance
- Designed for high current operation
- Low thermal resistance
- SMT solderability
- Lead free product
- RoHS compliant

Applications

- Mobile phone flash
- Automotive interior / Exterior lighting
- Automotive signal lighting
- Automotive forward lighting
- Torch
- Architectural lighting
- LCD TV / Monitor backlight
- Projector light source
- Traffic signals
- Task lighting
- Decorative / Pathway lighting
- Remote / Solar powered lighting
- Household appliances



Part Number

Part numbers specify color, Z-Power series, Lens type, P_d, size, PCB and Grade of characteristic code type of Z-Power LED.

- Example: X₁ X₂ X₃ X₄ X₅ X₆ X₇ -X₈ X₉ ¹⁾

X ₁	Color
W	Pure White
N	Warm White
S	Natural White
D	Royal Blue
B	Blue
C	Cyan
G	Green
A	Amber
R	Red
P	Photosynthetic Red
F	Full Color (7-color)

X ₂	Z-Power Series
S	P3-II
4	P4
5	P5-II
7	P7
9	P9

X ₃	LENS Type
0	P5-II Flat Type
2	P4,P7,P9 Dome Type ²⁾
9	P4 narrow Type ³⁾

Note:

- 1) X₈, X₉ is a internal code number
- 2) Hemispherical dome type
- 3) View angle : 93°



X₄	Chip Quantity (or Power Dissipation)
1	1 chip (1W)
2	2 chip (2.5W)
3	Full Color (7-color)
4	4 chip (5W)

X₅	Package Outline Size
9	9 X 9 mm
8	D 8 mm
6	5 X 6 mm
5	D 5 mm

X₆	Metal PCB Type
0	Emitter Only
2	Star

X₇	Grade of Characteristic Code
H	P4 Warm, Natural White Code
C	P9 Characteristic Code



Code Labeling

1. Flux Bins

1-1. Luminous flux bin structure for pure white, warm white, blue, cyan, green, amber and red Z-Power.

Bin Code		Luminous Flux [lm]
J		6 ~ 8.5
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	S1	54.0 ~ 60.0
	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 ~ 109.0
	U3	109.0 ~ 118.5
V		118.5 ~ 154.0
W		154.0 ~ 200.0
X		200.0 ~ 260.0
Y		260.0 ~ 340.0

1-2. Radiant flux bin structure for Photosynthetic red Z-Power

Bin Code	Radiant Flux [W]
A	0.15 ~ 0.30



Code Labeling

1. Flux Bins

1-3. Radiant flux bin structure for Royal blue Z-Power

Bin Code	Radiant Flux [W]
G	0.250 ~ 0.305
H	0.305 ~ 0.400
I	0.400 ~ 0.490
J	0.490 ~ 0.595

The list explains the photometric luminous flux bins for Z-Power LED. Z-Power LED are tested and binned by photometric luminous flux. Not all bins are available in all colors.

Tolerance : $\pm 10\%$ of Luminous flux value



2. Color Bins

Z-Power are tested and binned for dominant wavelength (blue, green, amber, red) or x,y coordinates (pure white, warm white)

2 -1 Blue, Green, Amber, Red

Bin Code	Color	Dominant Wavelength [nm]
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

2 -2 Photosynthetic Red

Bin Code	Color	Peak Wavelength [nm]
PR1	Red	655 ~ 665

2 -3 Royal Blue

Bin Code	Color	Dominant Wavelength [nm]
DD1	Blue	455 ~ 460
DD2		460 ~ 465

Tolerance

Dominant wavelength : ± 0.5 nm

Peak wavelength : ± 2.0 nm



2-3. Pure White CIE

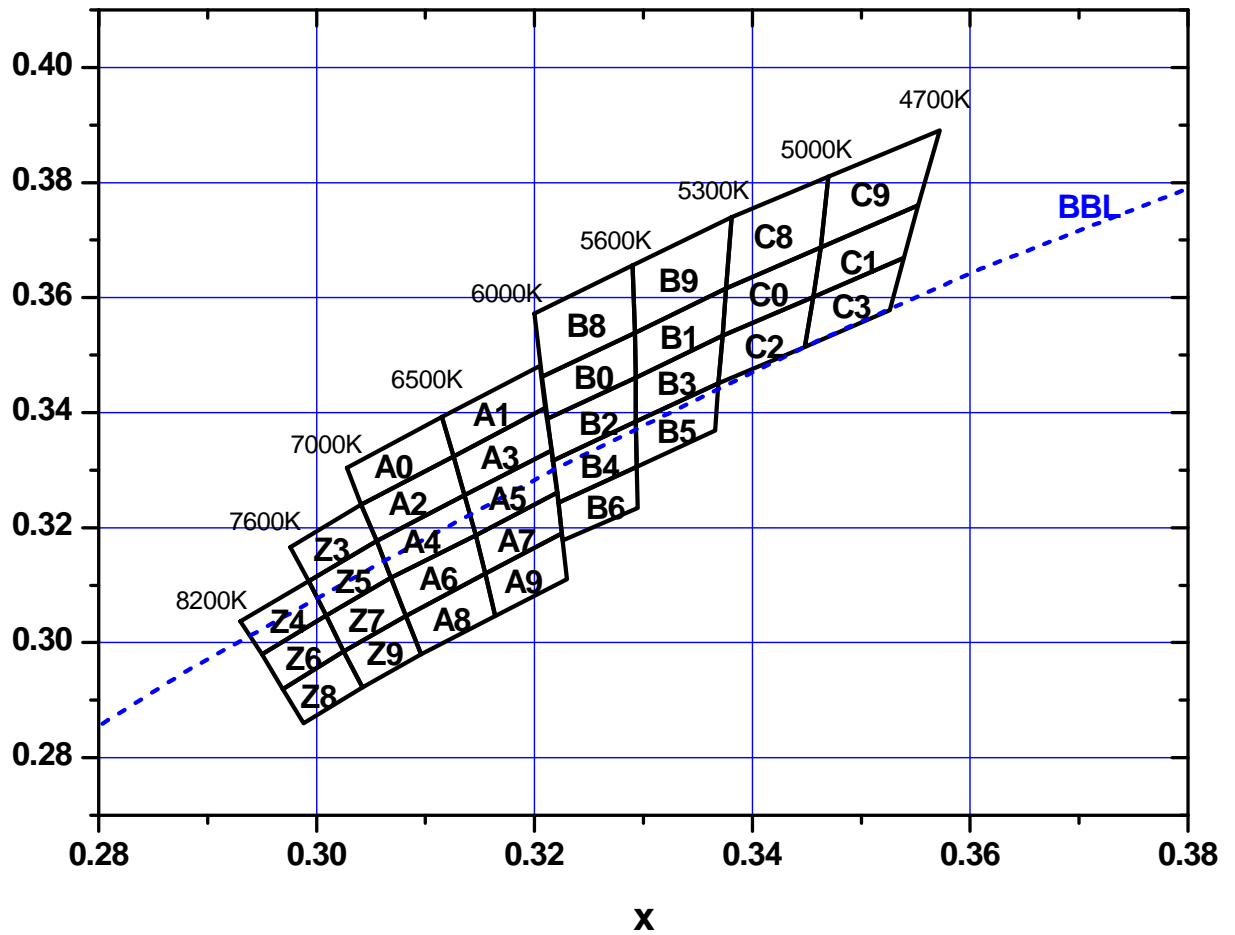
Pure white product tested and binned by x,y coordinates and CCT

- Pure white bin structure

bin	CIE x	CIE y	bin	CIE x	CIE y	bin	CIE x	CIE y	bin	CIE x	CIE y
Z1	0.2959	0.3227	A0	0.3028	0.3304	B0	0.3207	0.3462	C0	0.3376	0.3616
	0.2976	0.3166		0.3041	0.3240		0.3212	0.3389		0.3373	0.3534
	0.3041	0.3240		0.3126	0.3324		0.3293	0.3461		0.3456	0.3601
	0.3028	0.3304		0.3115	0.3393		0.3292	0.3539		0.3463	0.3687
	0.2959	0.3227		0.3028	0.3304		0.3207	0.3462		0.3376	0.3616
Z2	0.2910	0.3093	A1	0.3115	0.3393	B1	0.3292	0.3539	C1	0.3463	0.3687
	0.2930	0.3037		0.3126	0.3324		0.3293	0.3461		0.3456	0.3601
	0.2993	0.3107		0.3210	0.3408		0.3373	0.3534		0.3539	0.3669
	0.2976	0.3166		0.3205	0.3481		0.3376	0.3616		0.3552	0.3760
	0.2910	0.3093		0.3115	0.3393		0.3292	0.3539		0.3463	0.3687
Z3	0.2976	0.3166	A2	0.3041	0.3240	B2	0.3212	0.3389	C2	0.3373	0.3534
	0.2993	0.3107		0.3055	0.3177		0.3217	0.3316		0.3369	0.3451
	0.3055	0.3177		0.3136	0.3256		0.3293	0.3384		0.3448	0.3514
	0.3041	0.3240		0.3126	0.3324		0.3293	0.3461		0.3456	0.3601
	0.2976	0.3166		0.3041	0.3240		0.3212	0.3389		0.3373	0.3534
Z4	0.2930	0.3037	A3	0.3126	0.3324	B3	0.3293	0.3461	C3	0.3456	0.3601
	0.2950	0.2980		0.3136	0.3256		0.3293	0.3384		0.3448	0.3514
	0.3009	0.3047		0.3216	0.3334		0.3369	0.3451		0.3526	0.3578
	0.2993	0.3107		0.3210	0.3408		0.3373	0.3534		0.3539	0.3669
	0.2930	0.3037		0.3126	0.3324		0.3293	0.3461		0.3456	0.3601
Z5	0.2993	0.3107	A4	0.3055	0.3177	B4	0.3217	0.3316	C4	0.3369	0.3451
	0.3009	0.3047		0.3068	0.3113		0.3222	0.3243		0.3366	0.3369
	0.3068	0.3113		0.3146	0.3187		0.3294	0.3306		0.3440	0.3428
	0.3055	0.3177		0.3136	0.3256		0.3293	0.3384		0.3448	0.3514
	0.2993	0.3107		0.3055	0.3177		0.3217	0.3316		0.3369	0.3451
Z6	0.2950	0.2980	A5	0.3136	0.3256	B5	0.3293	0.3384	C5	0.3448	0.3514
	0.2969	0.2919		0.3146	0.3187		0.3294	0.3306		0.3440	0.3428
	0.3025	0.2985		0.3221	0.3261		0.3366	0.3369		0.3514	0.3487
	0.3009	0.3047		0.3216	0.3334		0.3369	0.3451		0.3526	0.3578
	0.2950	0.2980		0.3136	0.3256		0.3293	0.3384		0.3448	0.3514
Z7	0.3009	0.3047	A6	0.3068	0.3113	B6	0.3222	0.3243	C6	0.3366	0.3369
	0.3025	0.2985		0.3082	0.3046		0.3226	0.3178		0.3364	0.3288
	0.3082	0.3046		0.3155	0.3120		0.3295	0.3234		0.3433	0.3345
	0.3068	0.3113		0.3146	0.3187		0.3294	0.3306		0.3440	0.3428
	0.3009	0.3047		0.3068	0.3113		0.3222	0.3243		0.3366	0.3369
Z8	0.2969	0.2919	A7	0.3146	0.3187	B7	0.3294	0.3306	C7	0.3440	0.3428
	0.2988	0.2860		0.3155	0.3120		0.3295	0.3234		0.3433	0.3345
	0.3042	0.2922		0.3225	0.3190		0.3364	0.3288		0.3500	0.3400
	0.3025	0.2985		0.3221	0.3261		0.3366	0.3369		0.3514	0.3487
	0.2969	0.2919		0.3146	0.3187		0.3294	0.3306		0.3440	0.3428
Z9	0.3025	0.2985	A8	0.3082	0.3046	B8	0.3200	0.3572	C8	0.3381	0.3740
	0.3042	0.2922		0.3096	0.2980		0.3207	0.3462		0.3470	0.3810
	0.3096	0.2980		0.3164	0.3046		0.3292	0.3539		0.3463	0.3687
	0.3082	0.3046		0.3155	0.3120		0.3290	0.3656		0.3376	0.3616
	0.3025	0.2985		0.3082	0.3046		0.3200	0.3572		0.3381	0.3740
Tolerance			A9	0.3155	0.3120	B9	0.3290	0.3656	C9	0.3470	0.3810
Color coordinate: ±0.005				0.3164	0.3046		0.3292	0.3539		0.3463	0.3687
CCT: ±5% of value				0.3230	0.3110		0.3376	0.3616		0.3552	0.3760
				0.3225	0.3190		0.3381	0.3740		0.3572	0.3891
				0.3155	0.3120		0.3290	0.3656		0.3470	0.3810



- Pure white binning structure graphical representation





2-4. Natural white

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

- Natural white bin structure

bin	CIE x	CIE y	bin	CIE x	CIE y	bin	CIE x	CIE y	bin	CIE x	CIE y
D0	0.3548	0.3736	D5	0.3608	0.3616	E0	0.3736	0.3874	E5	0.3813	0.3751
	0.3536	0.3646		0.3590	0.3521		0.3714	0.3775		0.3783	0.3646
	0.3625	0.3711		0.3670	0.3578		0.3842	0.3855		0.3898	0.3716
	0.3641	0.3804		0.3692	0.3677		0.3869	0.3958		0.3934	0.3825
	0.3548	0.3736		0.3608	0.3616		0.3736	0.3874		0.3813	0.3751
D1	0.3641	0.3804	D6	0.3512	0.3465	E1	0.3869	0.3958	E6	0.3670	0.3578
	0.3625	0.3711		0.3497	0.3385		0.3842	0.3855		0.3650	0.3489
	0.3714	0.3775		0.3575	0.3441		0.3970	0.3935		0.3758	0.3550
	0.3736	0.3874		0.3590	0.3521		0.4006	0.4044		0.3783	0.3646
	0.3641	0.3804		0.3512	0.3465		0.3869	0.3958		0.3670	0.3578
D2	0.3536	0.3646	D7	0.3590	0.3521	E2	0.3714	0.3775	E7	0.3783	0.3646
	0.3524	0.3555		0.3575	0.3441		0.3692	0.3677		0.3758	0.3550
	0.3608	0.3616		0.3650	0.3489		0.3813	0.3751		0.3863	0.3610
	0.3625	0.3711		0.3670	0.3578		0.3842	0.3855		0.3898	0.3716
	0.3536	0.3646		0.3590	0.3521		0.3714	0.3775		0.3783	0.3646
D3	0.3625	0.3711	D8	0.3562	0.3826	E3	0.3842	0.3855	E8	0.3760	0.3974
	0.3608	0.3616		0.3548	0.3736		0.3813	0.3751		0.3736	0.3874
	0.3692	0.3677		0.3641	0.3804		0.3934	0.3825		0.3869	0.3958
	0.3714	0.3775		0.3661	0.3900		0.3970	0.3935		0.3902	0.4067
	0.3625	0.3711		0.3562	0.3826		0.3842	0.3855		0.3760	0.3974
D4	0.3524	0.3555	D9	0.3661	0.3900	E4	0.3692	0.3677	E9	0.3902	0.4067
	0.3512	0.3465		0.3641	0.3804		0.3670	0.3578		0.3869	0.3958
	0.3590	0.3521		0.3736	0.3874		0.3783	0.3646		0.4006	0.4044
	0.3608	0.3616		0.3760	0.3974		0.3813	0.3751		0.4044	0.4160
	0.3524	0.3555		0.3661	0.3900		0.3692	0.3677		0.3902	0.4067

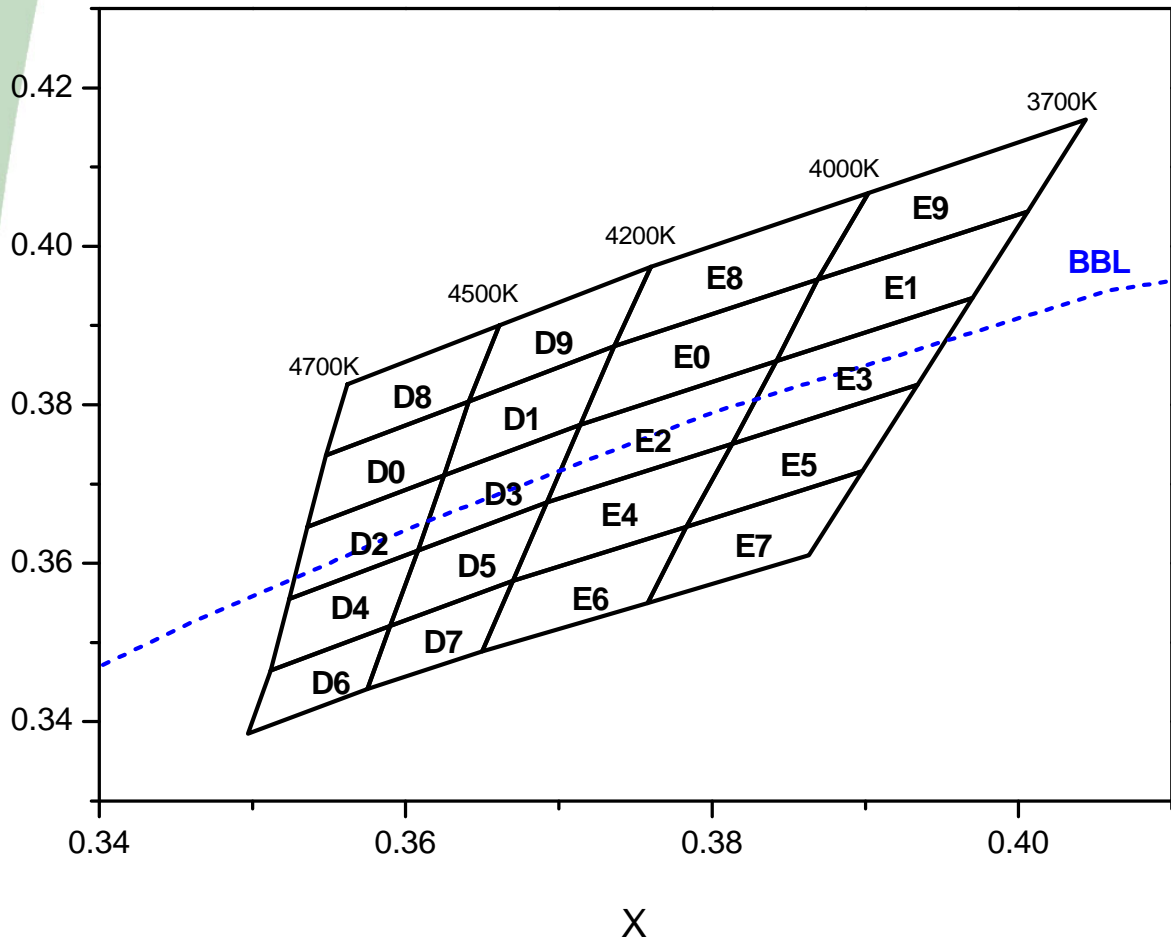
Tolerance

Color coordinate : ± 0.005

CCT : $\pm 5\%$ of value



- Natural white binning structure graphical representation





2-5. Warm White

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

- Warm white bin structure

	CIE x	CIE y		CIE x	CIE y		CIE x	CIE y		CIE x	CIE y
F0	0.3996	0.4015	F8	0.4037	0.4140	G6	0.4147	0.3814	H4	0.4436	0.4015
	0.3960	0.3907		0.3996	0.4015		0.4102	0.3710		0.4373	0.3893
	0.4104	0.3978		0.4146	0.4089		0.4207	0.3744		0.4483	0.3919
	0.4146	0.4089		0.4197	0.4217		0.4259	0.3853		0.4551	0.4042
	0.3996	0.4015		0.4037	0.4140		0.4147	0.3814		0.4436	0.4015
F1	0.4146	0.4089	F9	0.4197	0.4217	G7	0.4259	0.3853	H5	0.4551	0.4042
	0.4104	0.3978		0.4146	0.4089		0.4207	0.3744		0.4483	0.3919
	0.4248	0.4048		0.4299	0.4165		0.4312	0.3778		0.4593	0.3944
	0.4299	0.4165		0.4354	0.4288		0.4373	0.3893		0.4666	0.4069
	0.4146	0.4089		0.4197	0.4217		0.4259	0.3853		0.4551	0.4042
F2	0.3960	0.3907	G0	0.4299	0.4165	G8	0.4354	0.4288	H6	0.4373	0.3893
	0.3925	0.3798		0.4248	0.4048		0.4299	0.4165		0.4312	0.3778
	0.4062	0.3865		0.4374	0.4093		0.4430	0.4212		0.4422	0.3805
	0.4104	0.3978		0.4430	0.4212		0.4487	0.4333		0.4483	0.3919
	0.3960	0.3907		0.4299	0.4165		0.4354	0.4288		0.4373	0.3893
F3	0.4104	0.3978	G1	0.4430	0.4212	G9	0.4487	0.4333	H7	0.4483	0.3919
	0.4062	0.3865		0.4374	0.4093		0.4430	0.4212		0.4422	0.3805
	0.4198	0.3931		0.4499	0.4138		0.4562	0.4260		0.4527	0.3830
	0.4248	0.4048		0.4562	0.4260		0.4619	0.4378		0.4593	0.3944
	0.4104	0.3978		0.4430	0.4212		0.4487	0.4333		0.4483	0.3919
F4	0.3925	0.3798	G2	0.4248	0.4048	H0	0.4562	0.4260	H8	0.4619	0.4378
	0.3889	0.3690		0.4198	0.3931		0.4499	0.4138		0.4562	0.4260
	0.4017	0.3751		0.4317	0.3973		0.4620	0.4166		0.4687	0.4289
	0.4062	0.3865		0.4374	0.4093		0.4687	0.4289		0.4747	0.4410
	0.3925	0.3798		0.4248	0.4048		0.4562	0.4260		0.4619	0.4378
F5	0.4062	0.3865	G3	0.4374	0.4093	H1	0.4687	0.4289	H9	0.4747	0.4410
	0.4017	0.3751		0.4317	0.3973		0.4620	0.4166		0.4687	0.4289
	0.4147	0.3814		0.4436	0.4015		0.4740	0.4194		0.4810	0.4319
	0.4198	0.3931		0.4499	0.4138		0.4810	0.4319		0.4875	0.4435
	0.4062	0.3865		0.4374	0.4093		0.4687	0.4289		0.4747	0.4410
F6	0.3889	0.3690	G4	0.4198	0.3931	H2	0.4499	0.4138			
	0.3860	0.3600		0.4147	0.3814		0.4436	0.4015			
	0.3983	0.3660		0.4259	0.3853		0.4551	0.4042			
	0.4017	0.3751		0.4317	0.3973		0.4620	0.4166			
	0.3889	0.3690		0.4198	0.3931		0.4499	0.4138			
F7	0.4017	0.3751	G5	0.4317	0.3973	H3	0.4620	0.4166			
	0.3983	0.3660		0.4259	0.3853		0.4551	0.4042			
	0.4104	0.3715		0.4373	0.3893		0.4666	0.4069			
	0.4147	0.3814		0.4436	0.4015		0.4740	0.4194			
	0.4017	0.3751		0.4317	0.3973		0.4620	0.4166			

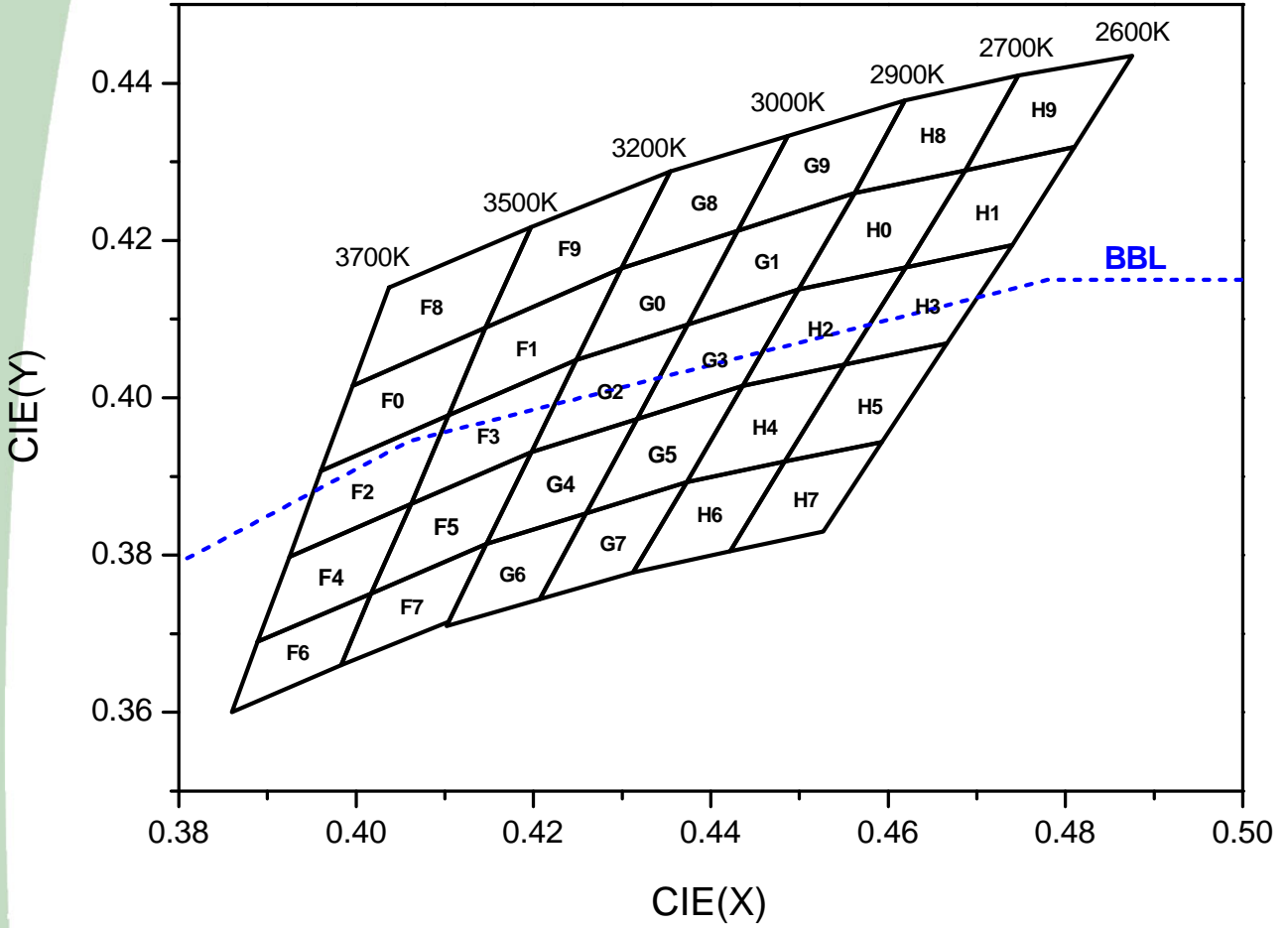
Tolerance

Color coordinate : ±0.005

CCT : ±5% of value



- Warm white binning structure graphical representation





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
L	4.00 ~ 4.25
M	4.25 ~ 4.50

Tolerance : $\pm 0.06V$



1W Order Code (P4)

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

- Example: W42180 – 1A
 - W42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

1. Pure White (1A,1B)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1A	T2	A2	H I J K	T2A2H~T2A2K
		A3		T2A3H~T2A3K
		A4		T2A4H~T2A4K
		A5		T2A5H~T2A5K
		A6		T2A6H~T2A6K
		A7		T2A7H~T2A7K
Part No. – 1B	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

* : Not yet available



1W Order Code (P4)

1. Pure White (1A,1B)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1B	V*	A2	H I J K	VA2H~VA2K
		A3		VA3H~VA3K
		A4		VA4H~VA4K
		A5		VA5H~VA5K
		A6		VA6H~VA6K
		A7		VA7H~VA7K

* : Not yet available



1W Order Code (P4)

1. Pure White (1C,1D)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	T2	A0	H I J K	T2A0H~T2A0K
		A1		T2A1H~T2A1K
		A2		T2A2H~T2A2K
		A3		T2A3H~T2A3K
		A4		T2A4H~T2A4K
		A5		T2A5H~T2A5K
Part No. – 1D	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
	V*	A0	H I J K	VA0H~VA0K
		A1		VA1H~VA1K
		A2		VA2H~VA2K
A3		VA3H~VA3K		
A4		VA4H~VA4K		
A5		VA5H~VA5K		

* : Not yet available



1W Order Code (P4)

1. Pure White (1E,1F)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	T2	A4	H I J K	T2A4H~T2A4K
		A5		T2A5H~T2A5K
		A6		T2A6H~T2A6K
		A7		T2A7H~T2A7K
		A8		T2A8H~T2A8K
		A9		T2A9H~T2A9K
Part No. – 1F	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
	V*	A4	H I J K	VA4H~VA4K
		A5		VA5H~VA5K
		A6		VA6H~VA6K
		A7		VA7H~VA7K
		A8		VA8H~VA8K
		A9		VA9H~VA9K

* : Not yet available



1W Order Code (P4)

1. Pure White (1G,1H)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	T2	B0	H I J K	T2B0H~T2B0K
		B1		T2B1H~T2B1K
		B2		T2B2H~T2B2K
		B3		T2B3H~T2B3K
		B8		T2B8H~T2B8K
		B9		T2B9H~T2B9K
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
	V*	B0	H I J K	VB0H~VB0K
		B1		VB1H~VB1K
		B2		VB2H~VB2K
		B3		VB3H~VB3K
		B8		VB8H~VB8K
		B9		VB9H~VB9K

* : Not yet available



1W Order Code (P4)

1. Pure White (1I,1J)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	T2	B0	H I J K	T2B0H~T2B0K
		B1		T2B1H~T2B1K
		B2		T2B2H~T2B2K
		B3		T2B3H~T2B3K
		B4		T2B4H~T2B4K
		B5		T2B5H~T2B5K
Part No. – 1J	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
	V*	B0	H I J K	VB0H~VB0K
		B1		VB1H~VB1K
		B2		VB2H~VB2K
		B3		VB3H~VB3K
		B4		VB4H~VB4K
		B5		VB5H~VB5K

* : Not yet available



1W Order Code (P4)

1. Pure White (1I,1J)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	T2	B0	H I J K	T2B0H~T2B0K
		B1		T2B1H~T2B1K
		B2		T2B2H~T2B2K
		B3		T2B3H~T2B3K
		B4		T2B4H~T2B4K
		B5		T2B5H~T2B5K
Part No. – 1J	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
	V*	B0	H I J K	VB0H~VB0K
		B1		VB1H~VB1K
		B2		VB2H~VB2K
		B3		VB3H~VB3K
		B4		VB4H~VB4K
		B5		VB5H~VB5K

* : Not yet available



1W Order Code (P4)

1. Pure White (1K,1L)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	T2	B2	H I J K	T2B2H~T2B2K
		B3		T2B3H~T2B3K
		B4		T2B4H~T2B4K
		B5		T2B5H~T2B5K
		B6		T2B6H~T2B6K
Part No. – 1L	U1	B2	H I J K	U1B2H~U1B2K
		B3		U1B3H~U1B3K
		B4		U1B4H~U1B4K
		B5		U1B5H~U1B5K
		B6		U1B6H~U1B6K
	U2	B2	H I J K	U2B2H~U2B2K
		B3		U2B3H~U2B3K
		B4		U2B4H~U2B4K
		B5		U2B5H~U2B5K
		B6		U2B6H~U2B6K
	U3	B2	H I J K	U3B2H~U3B2K
		B3		U3B3H~U3B3K
		B4		U3B4H~U3B4K
		B5		U3B5H~U3B5K
		B6		U3B6H~U3B6K
	V*	B2	H I J K	VB2H~VB2K
		B3		VB3H~VB3K
		B4		VB4H~VB4K
		B5		VB5H~VB5K
		B6		VB6H~VB6K

* : Not yet available



1W Order Code (P4)

1. Pure White (1M,1N)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1M	T2	Z4	H I J K	T2Z4H~T2Z4K
		Z5		T2Z5H~T2Z5K
		Z6		T2Z6H~T2Z6K
		Z7		T2Z7H~T2Z7K
		Z8		T2Z8H~T2Z8K
		Z9		T2Z9H~T2Z9K
Part No. – 1N	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
	V*	Z4	H I J K	VZ4H~VZ4K
		Z5		VZ5H~VZ5K
		Z6		VZ6H~VZ6K
		Z7		VZ7H~VZ7K
		Z8		VZ8H~VZ8K
		Z9		VZ9H~VZ9K

* : Not yet available



1W Order Code (P4)

1. Pure White (10,1P)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	T2	Z3	H I J K	T2Z3H~T2Z3K
		Z4		T2Z4H~T2Z4K
		Z5		T2Z5H~T2Z5K
		Z6		T2Z6H~T2Z6K
		Z7		T2Z7H~T2Z7K
Part No. – 1P	U1	Z3	H I J K	U1Z3H~U1Z3K
		Z4		U1Z4H~U1Z4K
		Z5		U1Z5H~U1Z5K
		Z6		U1Z6H~U1Z6K
		Z7		U1Z7H~U1Z7K
	U2	Z3	H I J K	U2Z3H~U2Z3K
		Z4		U2Z4H~U2Z4K
		Z5		U2Z5H~U2Z5K
		Z6		U2Z6H~U2Z6K
		Z7		U2Z7H~U2Z7K
	U3	Z3	H I J K	U3Z3H~U3Z3K
		Z4		U3Z4H~U3Z4K
		Z5		U3Z5H~U3Z5K
		Z6		U3Z6H~U3Z6K
		Z7		U3Z7H~U3Z7K
	V*	Z3	H I J K	VZ3H~VZ3K
		Z4		VZ4H~VZ4K
		Z5		VZ5H~VZ5K
		Z6		VZ6H~VZ6K
Z7		VZ7H~VZ7K		

* : Not yet available



1W Order Code (P4)

1. Pure White (1Q,1R)

Standard Order Codes for pure white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1Q	T2	C0	H I J K	T2C0H~T2C0K
		C1		T2C1H~T2C1K
		C2		T2C2H~T2C2K
		C3		T2C3H~T2C3K
		C8		T2C8H~T2C8K
		C9		T2C9H~T2C9K
Part No. – 1R	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
	V*	C0	H I J K	VC0H~VC0K
		C1		VC1H~VC1K
		C2		VC2H~VC2K
		C3		VC3H~VC3K
		C8		VC8H~VC8K
		C9		VC9H~VC9K

* : Not yet available



1W Order Code (P4)

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

- Example: S42180 – 1A
 - S42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

2. Natural white - S42180 (1A,1B)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. - 1A	S1	D0	H I J K	S1D0H~S1D0K
		D1		S1D1H~S1D1K
		D2		S1D2H~S1D2K
		D3		S1D3H~S1D3K
		D8		S1D8H~S1D8K
		D9		S1D9H~S1D9K
	S2	D0	H I J K	S2D0H~S2D0K
		D1		S2D1H~S2D1K
		D2		S2D2H~S2D2K
		D3		S2D3H~S2D3K
		D8		S2D8H~S2D8K
		D9		S2D9H~S2D9K
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

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (1C,1D)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	S1	D1	H I J K	S1D1H~S1D1K
		D3		S1D3H~S1D3K
		D9		S1D9H~S1D9K
		E0		S1E0H~S1E0K
		E2		S1E2H~S1E2K
		E8		S1E8H~S1E8K
	S2	D1	H I J K	S2D1H~S2D1K
		D3		S2D3H~S2D3K
		D9		S2D9H~S2D9K
		E0		S2E0H~S2E0K
		E2		S2E2H~S2E2K
		E8		S2E8H~S2E8K
Part No. – 1D	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

* : Not yet available

1W Order Code (P4)

2. Natural white - S42180 (1E,1F)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	S1	E0	H I J K	S1E0H~S1E0K
		E1		S1E1H~S1E1K
		E2		S1E2H~S1E2K
		E3		S1E3H~S1E3K
		E8		S1E8H~S1E8K
		E9		S1E9H~S1E9K
	S2	E0	H I J K	S2E0H~S2E0K
		E1		S2E1H~S2E1K
		E2		S2E2H~S2E2K
		E3		S2E3H~S2E3K
		E8		S2E8H~S2E8K
		E9		S2E9H~S2E9K
Part No. – 1F	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

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (1G,1H)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	S1	D0	H I J K	S1D0H~S1D0K
		D1		S1D1H~S1D1K
		D2		S1D2H~S1D2K
		D3		S1D3H~S1D3K
		D4		S1D4H~S1D4K
		D5		S1D5H~S1D5K
	S2	D0	H I J K	S2D0H~S2D0K
		D1		S2D1H~S2D1K
		D2		S2D2H~S2D2K
		D3		S2D3H~S2D3K
		D4		S2D4H~S2D4K
		D5		S2D5H~S2D5K
Part No. – 1H	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

* : Not yet available

1W Order Code (P4)

2. Natural white - S42180 (1I,1J)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	S1	D1	H I J K	S1D1H~S1D1K
		D3		S1D3H~S1D3K
		D5		S1D5H~S1D5K
		E0		S1E0H~S1E0K
		E2		S1E2H~S1E2K
		E4		S1E4H~S1E4K
	S2	D1	H I J K	S2D1H~S2D1K
		D3		S2D3H~S2D3K
		D5		S2D5H~S2D5K
		E0		S2E0H~S2E0K
		E2		S2E2H~S2E2K
		E4		S2E4H~S2E4K
Part No. – 1J	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

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (1K,1L)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	S1	E0	H I J K	S1E0H~S1E0K
		E1		S1E1H~S1E1K
		E2		S1E2H~S1E2K
		E3		S1E3H~S1E3K
		E4		S1E4H~S1E4K
		E5		S1E5H~S1E5K
	S2	E0	H I J K	S2E0H~S2E0K
		E1		S2E1H~S2E1K
		E2		S2E2H~S2E2K
		E3		S2E3H~S2E3K
		E4		S2E4H~S2E4K
		E5		S2E5H~S2E5K
Part No. – 1L	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

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (1M,1N)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1M	S1	D2	H I J K	S1D2H~S1D2K	
		D3		S1D3H~S1D3K	
		D4		S1D4H~S1D4K	
		D5		S1D5H~S1D5K	
		D6		S1D6H~S1D6K	
		D7		S1D7H~S1D7K	
		S2		D2	H I J K
	D3		S2D3H~S2D3K		
	D4		S2D4H~S2D4K		
	D5		S2D5H~S2D5K		
	D6		S2D6H~S2D6K		
	D7		S2D7H~S2D7K		
	Part No. – 1N		T1	D2	
		D3		T1D3H~T1D3K	
D4		T1D4H~T1D4K			
D5		T1D5H~T1D5K			
D6		T1D6H~T1D6K			
D7		T1D7H~T1D7K			
T2		D2		H I J K	T2D2H~T2D2K
		D3	T2D3H~T2D3K		
		D4	T2D4H~T2D4K		
		D5	T2D5H~T2D5K		
		D6	T2D6H~T2D6K		
		D7	T2D7H~T2D7K		

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (10,1P)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	S1	D3	H I J K	S1D3H~S1D3K
		D5		S1D5H~S1D5K
		D7		S1D7H~S1D7K
		E2		S1E2H~S1E2K
		E4		S1E4H~S1E4K
		E6		S1E6H~S1E6K
	S2	D3	H I J K	S2D3H~S2D3K
		D5		S2D5H~S2D5K
		D7		S2D7H~S2D7K
		E2		S2E2H~S2E2K
		E4		S2E4H~S2E4K
		E6		S2E6H~S2E6K
Part No. – 1P	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

* : Not yet available



1W Order Code (P4)

2. Natural white - S42180 (1Q,1R)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1Q	S1	E2	H I J K	S1E2H~S1E2K	
		E3		S1E3H~S1E3K	
		E4		S1E4H~S1E4K	
		E5		S1E5H~S1E5K	
		E6		S1E6H~S1E6K	
		E7		S1E7H~S1E7K	
		S2		E2	H I J K
	E3		S2E3H~S2E3K		
	E4		S2E4H~S2E4K		
	E5		S2E5H~S2E5K		
	E6		S2E6H~S2E6K		
	E7		S2E7H~S2E7K		
	Part No. – 1R		T1	E2	
		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		

* : Not yet available



1W Order Code (P4)

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

- Example: S42180H – 1A
 - S42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

3. Natural white - S42180H (1A,1B)

Standard Order Codes for Natural 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
		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
Part No. - 1B*	U1	D0	H I J K	U1D0H~U1D0K
		D1		U1D1H~U1D1K
		D2		U1D2H~U1D2K
		D3		U1D3H~U1D3K
		D8		U1D8H~U1D8K
		D9		U1D9H~U1D9K
	U2	D0	H I J K	U2D0H~U2D0K
		D1		U2D1H~U2D1K
		D2		U2D2H~U2D2K
		D3		U2D3H~U2D3K
		D8		U2D8H~U2D8K
		D9		U2D9H~U2D9K

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1C,1D)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	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
Part No. – 1D	U1	D1	H I J K	U1D1H~U1D1K
		D3		U1D3H~U1D3K
		D9		U1D9H~U1D9K
		E0		U1E0H~U1E0K
		E2		U1E2H~U1E2K
		E8		U1E8H~U1E8K
	U2	D1	H I J K	U2D1H~U2D1K
		D3		U2D3H~U2D3K
		D9		U2D9H~U2D9K
		E0		U2E0H~U2E0K
		E2		U2E2H~U2E2K
		E8		U2E8H~U2E8K

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1E,1F)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	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
Part No. – 1F	U1	E0	H I J K	U1E0H~U1E0K
		E1		U1E1H~U1E1K
		E2		U1E2H~U1E2K
		E3		U1E3H~U1E3K
		E8		U1E8H~U1E8K
		E9		U1E9H~U1E9K
	U2	E0	H I J K	U2E0H~U2E0K
		E1		U2E1H~U2E1K
		E2		U2E2H~U2E2K
		E3		U2E3H~U2E3K
		E8		U2E8H~U2E8K
		E9		U2E9H~U2E9K

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1G,1H)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	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
Part No. – 1H	U1	D0	H I J K	U1D0H~U1D0K
		D1		U1D1H~U1D1K
		D2		U1D2H~U1D2K
		D3		U1D3H~U1D3K
		D4		U1D4H~U1D4K
		D5		U1D5H~U1D5K
	U2	D0	H I J K	U2D0H~U2D0K
		D1		U2D1H~U2D1K
		D2		U2D2H~U2D2K
		D3		U2D3H~U2D3K
		D4		U2D4H~U2D4K
		D5		U2D5H~U2D5K

* : Not yet available



1W Order Code (P4)

3. Natural white - S42180H (1I,1J)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	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
Part No. – 1J	U1	D1	H I J K	U1D1H~U1D1K
		D3		U1D3H~U1D3K
		D5		U1D5H~U1D5K
		E0		U1E0H~U1E0K
		E2		U1E2H~U1E2K
		E4		U1E4H~U1E4K
	U2	D1	H I J K	U2D1H~U2D1K
		D3		U2D3H~U2D3K
		D5		U2D5H~U2D5K
		E0		U2E0H~U2E0K
		E2		U2E2H~U2E2K
		E4		U2E4H~U2E4K

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1K,1L)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	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
Part No. – 1L	U1	E0	H I J K	U1E0H~U1E0K
		E1		U1E1H~U1E1K
		E2		U1E2H~U1E2K
		E3		U1E3H~U1E3K
		E4		U1E4H~U1E4K
		E5		U1E5H~U1E5K
	U2	E0	H I J K	U2E0H~U2E0K
		E1		U2E1H~U2E1K
		E2		U2E2H~U2E2K
		E3		U2E3H~U2E3K
		E4		U2E4H~U2E4K
		E5		U2E5H~U2E5K

* : Not yet available



1W Order Code (P4)

3. Natural white - S42180H (1M,1N)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1M	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	H I J K
	D3		T2D3H~T2D3K		
	D4		T2D4H~T2D4K		
	D5		T2D5H~T2D5K		
	D6		T2D6H~T2D6K		
	D7		T2D7H~ST2D7K		
	Part No. – 1N		U1	D2	
		D3		U1D3H~U1D3K	
D4		U1D4H~U1D4K			
D5		U1D5H~U1D5K			
D6		U1D6H~U1D6K			
D7		U1D7H~U1D7K			
U2		D2		H I J K	U2D2H~U2D2K
		D3	U2D3H~U2D3K		
		D4	U2D4H~U2D4K		
		D5	U2D5H~U2D5K		
		D6	U2D6H~U2D6K		
		D7	U2D7H~U2D7K		

* : Not yet available



1W Order Code (P4)

3. Natural white - S42180H (10,1P)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	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
Part No. – 1P	U1	D3	H I J K	U1D3H~U1D3K
		D5		U1D5H~U1D5K
		D7		U1D7H~U1D7K
		E2		U1E2H~U1E2K
		E4		U1E4H~U1E4K
		E6		U1E6H~U1E6K
	U2	D3	H I J K	U2D3H~U2D3K
		D5		U2D5H~U2D5K
		D7		U2D7H~U2D7K
		E2		U2E2H~U2E2K
		E4		U2E4H~U2E4K
		E6		U2E6H~U2E6K

* : Not yet available



1W Order Code (P4)

3. Natural white - S42180H (1Q,1R)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1Q	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
	E3		T2E3H~T2E3K		
	E4		T2E4H~T2E4K		
	E5		T2E5H~T2E5K		
	E6		T2E6H~T2E6K		
	E7		T2E7H~T2E7K		
	Part No. – 1R		U1	E2	
		E3		U1E3H~U1E3K	
E4		U1E4H~U1E4K			
E5		U1E5H~U1E5K			
E6		U1E6H~U1E6K			
E7		U1E7H~U1E7K			
U2		E2		H I J K	U2E2H~U2E2K
		E3	U2E3H~U2E3K		
		E4	U2E4H~U2E4K		
		E5	U2E5H~U2E5K		
		E6	U2E6H~U2E6K		
		E7	U2E7H~U2E7K		

* : Not yet available



1W Order Code (P4)

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

- Example: N42180 – 1A
 - N42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

4. Warm White - N42180 (1A,1B)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. - 1A	S1	F0	H I J K	S1F0H~S1F0K
		F1		S1F1H~S1F1K
		F2		S1F2H~S1F2K
		F3		S1F3H~S1F3K
		F8		S1F8H~S1F8K
		F9		S1F9H~S1F9K
	S2	F0	H I J K	S2F0H~S2F0K
		F1		S2F1H~S2F1K
		F2		S2F2H~S2F2K
		F3		S2F3H~S2F3K
		F8		S2F8H~S2F8K
		F9		S2F9H~S2F9K
Part No. - 1B*	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1C,1D)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	S1	F1	H I J K	S1F1H~S1F1K
		F3		S1F3H~S1F3K
		F9		S1F9H~S1F9K
		G0		S1G0H~S1G0K
		G2		S1G2H~S1G2K
		G8		S1G8H~S1G8K
	S2	F1	H I J K	S2F1H~S2F1K
		F3		S2F3H~S2F3K
		F9		S2F9H~S2F9K
		G0		S2G0H~S2G0K
		G2		S2G2H~S2G2K
		G8		S2G8H~S2G8K
Part No. – 1D	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1E,1F)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	S1	G0	H I J K	S1G0H~S1G0K
		G1		S1G1H~S1G1K
		G2		S1G2H~S1G2K
		G3		S1G3H~S1G3K
		G8		S1G8H~S1G8K
		G9		S1G9H~S1G9K
	S2	G0	H I J K	S2G0H~S2G0K
		G1		S2G1H~S2G1K
		G2		S2G2H~S2G2K
		G3		S2G3H~S2G3K
		G8		S2G8H~S2G8K
		G9		S2G9H~S2G9K
Part No. – 1F	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1G,1H)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	S1	G1	H I J K	S1G1H~S1G1K
		G3		S1G3H~S1G3K
		G9		S1G9H~S1G9K
		H0		S1H0H~S1H0K
		H2		S1H2H~S1H2K
		H8		S1H8H~S1H8K
	S2	G1	H I J K	S2G1H~S2G1K
		G3		S2G3H~S2G3K
		G9		S2G9H~S2G9K
		H0		S2H0H~S2H0K
		H2		S2H2H~S2H2K
		H8		S2H8H~S2H8K
Part No. – 1H	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1I,1J)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	S1	H0	H I J K	S1H0H~S1H0K
		H1		S1H1H~S1H1K
		H2		S1H2H~S1H2K
		H3		S1H3H~S1H3K
		H8		S1H8H~S1H8K
		H9		S1H9H~S1H9K
	S2	H0	H I J K	S2H0H~S2H0K
		H1		S2H1H~S2H1K
		H2		S2H2H~S2H2K
		H3		S2H3H~S2H3K
		H8		S2H8H~S2H8K
		H9		S2H9H~S2H9K
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

* : Not yet available

1W Order Code (P4)

4. Warm White - N42180 (1K,1L)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	S1	F0	H I J K	S1F0H~S1F0K
		F1		S1F1H~S1F1K
		F2		S1F2H~S1F2K
		F3		S1F3H~S1F3K
		F4		S1F4H~S1F4K
		F5		S1F5H~S1F5K
	S2	F0	H I J K	S2F0H~S2F0K
		F1		S2F1H~S2F1K
		F2		S2F2H~S2F2K
		F3		S2F3H~S2F3K
		F4		S2F4H~S2F4K
		F5		S2F5H~S2F5K
Part No. – 1L	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1M,1N)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1M	S1	F1	H I J K	S1F1H~S1F1K
		F3		S1F3H~S1F3K
		F5		S1F5H~S1F5K
		G0		S1G0H~S1G0K
		G2		S1G2H~S1G2K
		G4		S1G4H~S1G4K
	S2	F1	H I J K	S2F1H~S2F1K
		F3		S2F3H~S2F3K
		F5		S2F5H~S2F5K
		G0		S2G0H~S2G0K
		G2		S2G2H~S2G2K
		G4		S2G4H~S2G4K
Part No. – 1N	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

* : Not yet available

1W Order Code (P4)

4. Warm White - N42180 (10,1P)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	S1	G0	H I J K	S1G0H~S1G0K
		G1		S1G1H~S1G1K
		G2		S1G2H~S1G2K
		G3		S1G3H~S1G3K
		G4		S1G4H~S1G4K
		G5		S1G5H~S1G5K
	S2	G0	H I J K	S2G0H~S2G0K
		G1		S2G1H~S2G1K
		G2		S2G2H~S2G2K
		G3		S2G3H~S2G3K
		G4		S2G4H~S2G4K
		G5		S2G5H~S2G5K
Part No. – 1P	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1Q,1R)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1Q	S1	G1	H I J K	S1G1H~S1G1K
		G3		S1G3H~S1G3K
		G5		S1G5H~S1G5K
		H0		S1H0H~S1H0K
		H2		S1H2H~S1H2K
		H4		S1H4H~S1H4K
	S2	G1	H I J K	S2G1H~S2G1K
		G3		S2G3H~S2G3K
		G5		S2G5H~S2G5K
		H0		S2H0H~S2H0K
		H2		S2H2H~S2H2K
		H4		S2H4H~S2H4K
Part No. – 1R	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1S,1T)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1S	S1	H0	H I J K	S1H0H~S1H0K
		H1		S1H1H~S1H1K
		H2		S1H2H~S1H2K
		H3		S1H3H~S1H3K
		H4		S1H4H~S1H4K
		H5		S1H5H~S1H5K
	S2	H0	H I J K	S2H0H~S2H0K
		H1		S2H1H~S2H1K
		H2		S2H2H~S2H2K
		H3		S2H3H~S2H3K
		H4		S2H4H~S2H4K
		H5		S2H5H~S2H5K
Part No. – 1T	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

* : Not yet available

1W Order Code (P4)

4. Warm White - N42180 (1U,1V)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1U	S1	F2	H I J K	S1F2H~S1F2K	
		F3		S1F3H~S1F3K	
		F4		S1F4H~S1F4K	
		F5		S1F5H~S1F5K	
		F6		S1F6H~S1F6K	
		F7		S1F7H~S1F7K	
		S2		F2	H I J K
	F3		S2F3H~S2F3K		
	F4		S2F4H~S2F4K		
	F5		S2F5H~S2F5K		
	F6		S2F6H~S2F6K		
	F7		S2F7H~S2F7K		
	Part No. – 1V		T1	F2	
		F3		T1F3H~T1F3K	
F4		T1F4H~T1F4K			
F5		T1F5H~T1F5K			
F6		T1F6H~T1F6K			
F7		T1F7H~T1F7K			
T2		F2		H I J K	T2F2H~T2F2K
		F3	T2F3H~T2F3K		
		F4	T2F4H~T2F4K		
		F5	T2F5H~T2F5K		
		F6	T2F6H~T2F6K		
		F7	T2F7H~T2F7K		

* : Not yet available

1W Order Code (P4)

4. Warm White - N42180 (1W,1X)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1W	S1	F3	H I J K	S1F3H~S1F3K
		F5		S1F5H~S1F5K
		F7		S1F7H~S1F7K
		G2		S1G2H~S1G2K
		G4		S1G4H~S1G4K
		G6		S1G6H~S1G6K
	S2	F3	H I J K	S2F3H~S2F3K
		F5		S2F5H~S2F5K
		F7		S2F7H~S2F7K
		G2		S2G2H~S2G2K
		G4		S2G4H~S2G4K
		G6		S2G6H~S2G6K
Part No. – 1X	T1	F3	H I J K	T1F3H~T1F3K
		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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (1Y,1Z)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1Y	S1	G2	H I J K	S1G2H~S1G2K	
		G3		S1G3H~S1G3K	
		G4		S1G4H~S1G4K	
		G5		S1G5H~S1G5K	
		G6		S1G6H~S1G6K	
		G7		S1G7H~S1G7K	
		S2		G2	H I J K
	G3		S2G3H~S2G3K		
	G4		S2G4H~S2G4K		
	G5		S2G5H~S2G5K		
	G6		S2G6H~S2G6K		
	G7		S2G7H~S2G7K		
	Part No. – 1Z		T1	G2	
		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		

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (2A,2B)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 2A	S1	G3	H I J K	S1G3H~S1G3K
		G5		S1G5H~S1G5K
		G7		S1G7H~S1G7K
		H2		S1H2H~S1H2K
		H4		S1H4H~S1H4K
		H6		S1H6H~S1H6K
	S2	G3	H I J K	S2G3H~S2G3K
		G5		S2G5H~S2G5K
		G7		S2G7H~S2G7K
		H2		S2H2H~S2H2K
		H4		S2H4H~S2H4K
		H6		S2H6H~S2H6K
Part No. – 2B	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

* : Not yet available



1W Order Code (P4)

4. Warm White - N42180 (2C,2D)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 2C	S1	H2	H I J K	S1H2H~S1H2K	
		H3		S1H3H~S1H3K	
		H4		S1H4H~S1H4K	
		H5		S1H5H~S1H5K	
		H6		S1H6H~S1H6K	
		H7		S1H7H~S1H7K	
		S2		H2	H I J K
	H3		S2H3H~S2H3K		
	H4		S2H4H~S2H4K		
	H5		S2H5H~S2H5K		
	H6		S2H6H~S2H6K		
	H7		S2H7H~S2H7K		
	Part No. – 2D		T1	H2	
		H3		T1H3H~T1H3K	
H4		T1H4H~T1H4K			
H5		T1H5H~T1H5K			
H6		T1H6H~T1H6K			
H7		T1H7H~T1H7K			
T2		H2		H I J K	T2H2H~T2H2K
		H3	T2H3H~T2H3K		
		H4	T2H4H~T2H4K		
		H5	T2H5H~T2H5K		
		H6	T2H6H~T2H6K		
		H7	T2H7H~T2H7K		

* : Not yet available



1W Order Code (P4)

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

- Example: N42180H – 1A
 - N42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

5. Warm White - N42180H (1A,1B)

Standard Order Codes for Natural 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
		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
Part No. - 1B*	U1	F0	H I J K	U1F0H~U1F0K
		F1		U1F1H~U1F1K
		F2		U1F2H~U1F2K
		F3		U1F3H~U1F3K
		F8		U1F8H~U1F8K
		F9		U1F9H~U1F9K
	U2	F0	H I J K	U2F0H~U2F0K
		F1		U2F1H~U2F1K
		F2		U2F2H~U2F2K
		F3		U2F3H~U2F3K
		F8		U2F8H~U2F8K
		F9		U2F9H~U2F9K

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (1C,1D)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1C	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. – 1D	U1	F1	H I J K	U1F1H~U1F1K
		F3		U1F3H~U1F3K
		F9		U1F9H~U1F9K
		G0		U1G0H~U1G0K
		G2		U1G2H~U1G2K
		G8		U1G8H~U1G8K
	U2	F1	H I J K	U2F1H~U2F1K
		F3		U2F3H~U2F3K
		F9		U2F9H~U2F9K
		G0		U2G0H~U2G0K
		G2		U2G2H~U2G2K
		G8		U2G8H~U2G8K

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (1E,1F)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1E	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
Part No. – 1F	U1	G0	H I J K	U1G0H~U1G0K
		G1		U1G1H~U1G1K
		G2		U1G2H~U1G2K
		G3		U1G3H~U1G3K
		G8		U1G8H~U1G8K
		G9		U1G9H~U1G9K
	U2	G0	H I J K	U2G0H~U2G0K
		G1		U2G1H~U2G1K
		G2		U2G2H~U2G2K
		G3		U2G3H~U2G3K
		G8		U2G8H~U2G8K
		G9		U2G9H~U2G9K

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (1G,1H)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1G	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. – 1H	U1	G1	H I J K	U1G1H~U1G1K
		G3		U1G3H~U1G3K
		G9		U1G9H~U1G9K
		H0		U1H0H~U1H0K
		H2		U1H2H~U1H2K
		H8		U1H8H~U1H8K
	U2	G1	H I J K	U2G1H~U2G1K
		G3		U2G3H~U2G3K
		G9		U2G9H~U2G9K
		H0		U2H0H~U2H0K
		H2		U2H2H~U2H2K
		H8		U2H8H~U2H8K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1I,1J)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1I	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
Part No. – 1J	U1	H0	H I J K	U1H0H~U1H0K
		H1		U1H1H~U1H1K
		H2		U1H2H~U1H2K
		H3		U1H3H~U1H3K
		H8		U1H8H~U1H8K
		H9		U1H9H~U1H9K
	U2	H0	H I J K	U2H0H~U2H0K
		H1		U2H1H~U2H1K
		H2		U2H2H~U2H2K
		H3		U2H3H~U2H3K
		H8		U2H8H~U2H8K
		H9		U2H9H~U2H9K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1K,1L)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1K	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. – 1L	U1	F0	H I J K	U1F0H~U1F0K
		F1		U1F1H~U1F1K
		F2		U1F2H~U1F2K
		F3		U1F3H~U1F3K
		F4		U1F4H~U1F4K
		F5		U1F5H~U1F5K
	U2	F0	H I J K	U2F0H~U2F0K
		F1		U2F1H~U2F1K
		F2		U2F2H~U2F2K
		F3		U2F3H~U2F3K
		F4		U2F4H~U2F4K
		F5		U2F5H~U2F5K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1M,1N)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1M	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
Part No. – 1N	U1	F1	H I J K	U1F1H~U1F1K
		F3		U1F3H~U1F3K
		F5		U1F5H~U1F5K
		G0		U1G0H~U1G0K
		G2		U1G2H~U1G2K
		G4		U1G4H~U1G4K
	U2	F1	H I J K	U2F1H~U2F1K
		F3		U2F3H~U2F3K
		F5		U2F5H~U2F5K
		G0		U2G0H~U2G0K
		G2		U2G2H~U2G2K
		G4		U2G4H~U2G4K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (10,1P)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 10	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. – 1P	U1	G0	H I J K	U1G0H~U1G0K
		G1		U1G1H~U1G1K
		G2		U1G2H~U1G2K
		G3		U1G3H~U1G3K
		G4		U1G4H~U1G4K
		G5		U1G5H~U1G5K
	U2	G0	H I J K	U2G0H~U2G0K
		G1		U2G1H~U2G1K
		G2		U2G2H~U2G2K
		G3		U2G3H~U2G3K
		G4		U2G4H~U2G4K
		G5		U2G5H~U2G5K

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (1Q,1R)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1Q	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
Part No. – 1R	U1	G1	H I J K	U1G1H~U1G1K
		G3		U1G3H~U1G3K
		G5		U1G5H~U1G5K
		H0		U1H0H~U1H0K
		H2		U1H2H~U1H2K
		H4		U1H4H~U1H4K
	U2	G1	H I J K	U2G1H~U2G1K
		G3		U2G3H~U2G3K
		G5		U2G5H~U2G5K
		H0		U2H0H~U2H0K
		H2		U2H2H~U2H2K
		H4		U2H4H~U2H4K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1S,1T)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1S	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. – 1T	U1	H0	H I J K	U1H0H~U1H0K
		H1		U1H1H~U1H1K
		H2		U1H2H~U1H2K
		H3		U1H3H~U1H3K
		H4		U1H4H~U1H4K
		H5		U1H5H~U1H5K
	U2	H0	H I J K	U2H0H~U2H0K
		H1		U2H1H~U2H1K
		H2		U2H2H~U2H2K
		H3		U2H3H~U2H3K
		H4		U2H4H~U2H4K
		H5		U2H5H~U2H5K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1U,1V)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1U	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. – 1V		U1	F2	
		F3		U1F3H~U1F3K	
F4		U1F4H~U1F4K			
F5		U1F5H~U1F5K			
F6		U1F6H~U1F6K			
F7		U1F7H~U1F7K			
U2		F2		H I J K	U2F2H~U2F2K
		F3	U2F3H~U2F3K		
		F4	U2F4H~U2F4K		
		F5	U2F5H~U2F5K		
		F6	U2F6H~U2F6K		
		F7	U2F7H~U2F7K		

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1W,1X)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 1W	T1	F3	H I J K	T1F3H~T1F3K
		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
Part No. – 1X	U1	F3	H I J K	U1F3H~U1F3K
		F5		U1F5H~U1F5K
		F7		U1F7H~U1F7K
		G2		U1G2H~U1G2K
		G4		U1G4H~U1G4K
		G6		U1G6H~U1G6K
	U2	F3	H I J K	U2F3H~U2F3K
		F5		U2F5H~U2F5K
		F7		U2F7H~U2F7K
		G2		U2G2H~U2G2K
		G4		U2G4H~U2G4K
		G6		U2G6H~U2G6K

* : Not yet available

1W Order Code (P4)

5. Warm White - N42180H (1Y,1Z)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 1Y	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
	G3		T2G3H~T2G3K		
	G4		T2G4H~T2G4K		
	G5		T2G5H~T2G5K		
	G6		T2G6H~T2G6K		
	G7		T2G7H~T2G7K		
	Part No. – 1Z		U1	G2	
		G3		U1G3H~U1G3K	
G4		U1G4H~U1G4K			
G5		U1G5H~U1G5K			
G6		U1G6H~U1G6K			
G7		U1G7H~U1G7K			
U2		G2		H I J K	U2G2H~U2G2K
		G3	U2G3H~U2G3K		
		G4	U2G4H~U2G4K		
		G5	U2G5H~U2G5K		
		G6	U2G6H~U2G6K		
		G7	U2G7H~U2G7K		

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (2A,2B)

Standard Order Codes for Natural white				
Order Code	LF	CC	V _F	Bin Codes
Part No. – 2A	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
Part No. – 2B	U1	G3	H I J K	U1G3H~U1G3K
		G5		U1G5H~U1G5K
		G7		U1G7H~U1G7K
		H2		U1H2H~U1H2K
		H4		U1H4H~U1H4K
		H6		U1H6H~U1H6K
	U2	G3	H I J K	U2G3H~U2G3K
		G5		U2G5H~U2G5K
		G7		U2G7H~U2G7K
		H2		U2H2H~U2H2K
		H4		U2H4H~U2H4K
		H6		U2H6H~U2H6K

* : Not yet available



1W Order Code (P4)

5. Warm White - N42180H (2C,2D)

Standard Order Codes for Natural white					
Order Code	LF	CC	V _F	Bin Codes	
Part No. – 2C	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	H I J K
	H3		T2H3H~T2H3K		
	H4		T2H4H~T2H4K		
	H5		T2H5H~T2H5K		
	H6		T2H6H~T2H6K		
	H7		T2H7H~T2H7K		
	Part No. – 2D		U1	H2	
		H3		U1H3H~U1H3K	
H4		U1H4H~U1H4K			
H5		U1H5H~U1H5K			
H6		U1H6H~U1H6K			
H7		U1H7H~U1H7K			
U2		H2		H I J K	U2H2H~U2H2K
		H3	U2H3H~U2H3K		
		H4	U2H4H~U2H4K		
		H5	U2H5H~U2H5K		
		H6	U2H6H~U2H6K		
		H7	U2H7H~U2H7K		

* : Not yet available



1W Order Code (P4)

6. Blue - B42180

Standard Order Codes for Blue				
Order Code	Luminous Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	M	BB1	H I J K	MBB1H~MBB1K
		BB2		MBB2H~MBB2K
	O*	BB1		OBB1H~OBB1K
		BB2		OBB2H~OBB2K
Part No. - 1B	P*	BB1	H I J K	PBB1H~PBB1K
		BB2		PBB2H~PBB2K
	Q*	BB1		QBB1H~QBB1K
		BB2		QBB2H~QBB2K
Part No. - 1C	M	BB3	H I J K	MBB3H~MBB3K
		BB4		MBB4H~MBB4K
	O	BB3		OBB3H~OBB3K
		BB4		OBB4H~OBB4K
Part No. - 1D	P	BB3	H I J K	PBB3H~PBB3K
		BB4		PBB4H~PBB4K
	Q*	BB3		QBB3H~QBB3K
		BB4		QBB4H~QBB4K

* : Not yet available



1W Order Code (P4)

7. Green - G42180

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

* : Not yet available



1W Order Code (P4)

8. Amber - A42180

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



1W Order Code (P4)

9. Red - R42180

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*			SRR1D~SRR1G
Part No. - 1C	Q	RR2*	D,E,F,G	QRR2D~QRR2G
Part No. - 1D	R		D,E,F,G	RRR2D~RRR2G
	S			SRR2D~SRR2G

* : Not yet available



1W Order Code (P4)

10. Photosynthetic Red - P42180

Standard Order Codes for Red				
Order Code	Radiant Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	A	PR1	D,E,F,G	APR1D~APR1G



1W Order Code (P4)

11. Royal Blue - D42180

Standard Order Codes for Blue				
Order Code	Radiant Flux	Color Coordinate	Forward Voltage	Bin Codes
Part No. - 1A	G	DD1	H,I,J,K	GDD1H~GDD1K
		DD2		GDD2H~GDD2K
Part No. - 1B	H	DD1	H,I,J,K	HDD1H~HDD1K
		DD2		HDD2H~HDD2K
Part No. - 1C	I	DD1	H,I,J,K	IDD1H~IDD1K
		DD2	H,I,J,K	IDD2H~IDD2K
Part No. - 1D	J	DD1	H,I,J,K	JDD1H~JDD1K
		DD2	H,I,J,K	JDD2H~JDD2K

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