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CATALOGUE 2014-2015

OPTOELECTRONIC COMPONENTS

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CONDITIONS OF RoHS

From July 1st, 2006, RoHS requires that all electrical equipment should not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) or poly brominated diphenyl ethers (PBDEs), and the elements are restricted to certain amount (such as mercury in a wound lighting tube <5 mg, lead in CRT glass, soldering tin, etc.). Before the date every member of European Union must obey of environment on chemical regulation.



- According to RoHS part, the norm of restrict and limit used substance adopted by EVERLIGHT AMERICAS.

Name	Description	Criteria
Cadmium	Cadmium and its compounds must not be present in parts, components, materials or products. Cadmium and its compounds must not used as stabilizers, coloring agent or as a surface coating treatment in parts, components, materials or products.	< 5 ppm (Plastics) < 75 ppm (Metals)
Lead restrictions	Lead and/or lead compounds shall not be present in hardware components or parts, however, except solder, electrical components and interconnect materials. Lead carbonates and sulfates must not be used in any paint applied to parts, component, or products.	< 100 ppm (Plastics) < 1000 ppm (Others)
Mercury restrictions	Mercury must not be contained in any part, material, components or product, including, but not limited to switches, relays or electrical contacts. This restriction does not apply to lamps with less than 10 mg if mercury.	< 5 ppm
Hexavalent chromium (chromium VI) and hexavalent chromium compounds	Hexavalent chromium (chromium VI) and hexavalent chromium compounds must not be present in parts, components, materials or products.	< 2 ppm
Polybrominated Biphenyls (PBBs)	Plastics parts, components, materials and products must not contain Polybrominated Biphenyls as flame retardants, specific PBBs, but are not limited to those listed in attachment item.	< 5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	Plastic parts, components, materials and products must not contain Polybrominated Diphenyl Ethers, known as flame retardants, specific PBBEs, including, but are not limited to, those listed in attachment item.	< 5 ppm

Compliant with the following condition :

- Please visit EVERLIGHT AMERICAS website for updated information about third party test reports and RoHS declarations.
(www.everlightamericas.com)

APPLICATION NOTICE

Since we are continuously improving all of our products, the information listed in this Catalogue, which includes specifications, characteristics, data, materials used, structure, etc., are subject to change without prior notice. It is necessary that you request the newest specification sheet from EVERLIGHT AMERICAS when you place any inquiry or purchase order.

Please carefully read the specification sheet, and confirm your acceptance of the content. EVERLIGHT AMERICAS does not accept any liabilities for damages occurred due to the customer's lack of confirming the newest product specification.

It is important to strictly follow the maximum limit and other important instructions listed on the specifications sheet when using EVERLIGHT AMERICAS's products. The following is a list of special notes for products used in specific applications. It is recommended that customers read the instructions carefully before installing the products. Again, EVERLIGHT AMERICAS does not accept any liabilities for any improper use of EVERLIGHT AMERICAS's product or failure to follow the instructions listed herein:

Special Instruction:

1. Products listed in this Catalogue are designed primarily for the application listed below:
A : Calculators
B : Measurement equipment
C : AV machines
D : QA machines
E : Operating machines
F : Consumer electronics
G : Telecommunications

While products meet the application listed above, additional attention is required when products are to be utilized in the instruments listed under Special Instruction Notes 2 and 3.

2. When high reliability and safety concerns are required, it is very important that the design be made to focus on safety and long term reliability. Special care should be given to assure that EVERLIGHT AMERICAS's products integrate and function properly with all other parts of the instrument. Instruments fall into these categories include:

A : Instruments attached to transportation tools
(aircraft, train, automobile)
B : Traffic signs
C : Gas leaking detectors and gas shutters
D : Fire detectors
E : Other safety detectors
3. When extremely high reliability and safety concerns are required, it is necessary that you contact EVERLIGHT AMERICAS for additional information before use. Instruments fall into these categories include:

A : Aerospace instruments
B : Telecommunication tools (main line)
C : Nuclear weapon controls
D : Medical instruments
4. Should you have any additional questions, please contact EVERLIGHT AMERICAS for details.

TECHNICAL DATA

HIGH POWER LED (EAHP3045 , EAHP3535, EAHP1215, EAHP2024, EAHP1313, EAHP1919)
A22, B05)

CIE BINNING RANKS

Cool-White Bin Coordinates

5000K				
Bin	50K-1	50K-2	50K-3	50K-4
CIE X	0.346	0.338	0.337	0.345
	0.345	0.337	0.337	0.344
	0.353	0.345	0.344	0.352
	0.355	0.346	0.345	0.353
CIE Y	0.369	0.362	0.349	0.356
	0.356	0.349	0.337	0.343
	0.362	0.356	0.343	0.349
	0.376	0.369	0.356	0.362

5700K				
Bin	57K-1	57K-2	57K-3	57K-4
CIE X	0.329	0.321	0.321	0.329
	0.329	0.321	0.322	0.329
	0.337	0.329	0.329	0.337
	0.338	0.329	0.329	0.337
CIE Y	0.354	0.346	0.335	0.342
	0.342	0.335	0.324	0.331
	0.349	0.342	0.331	0.337
	0.362	0.354	0.342	0.349

6500K				
Bin	65K-1	65K-2	65K-3	65K-4
CIE X	0.312	0.303	0.305	0.313
	0.313	0.305	0.307	0.315
	0.321	0.313	0.315	0.322
	0.321	0.312	0.313	0.321
CIE Y	0.339	0.330	0.321	0.329
	0.329	0.321	0.311	0.319
	0.337	0.329	0.319	0.326
	0.348	0.339	0.329	0.337

Warm-White Bin Coordinates

2700K				
Bin	27K-1	27K-2	27K-3	27K-4
CIE X	0.469	0.456	0.447	0.459
	0.459	0.447	0.437	0.448
	0.470	0.459	0.448	0.459
	0.481	0.469	0.459	0.470
CIE Y	0.429	0.426	0.408	0.410
	0.410	0.408	0.389	0.392
	0.413	0.410	0.392	0.394
	0.432	0.429	0.410	0.413

3000K				
Bin	30K-1	30K-2	30K-3	30K-4
CIE X	0.443	0.430	0.422	0.435
	0.435	0.422	0.415	0.426
	0.447	0.435	0.426	0.437
	0.456	0.443	0.435	0.447
CIE Y	0.421	0.417	0.399	0.403
	0.403	0.399	0.381	0.385
	0.408	0.403	0.385	0.389
	0.426	0.421	0.403	0.408

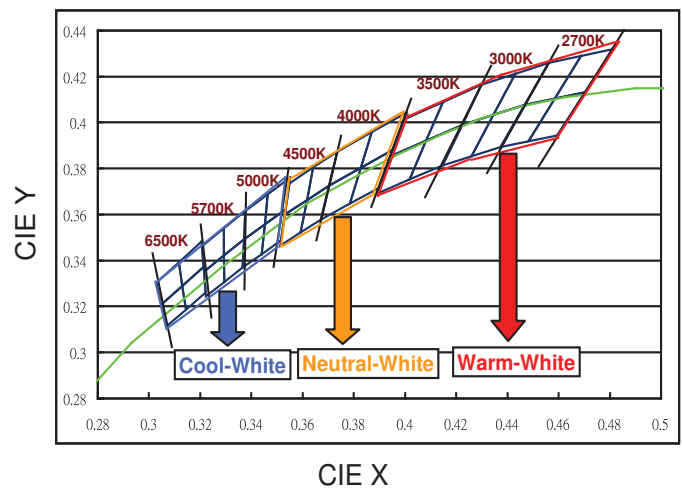
3500K				
Bin	35K-1	35K-2	35K-3	35K-4
CIE X	0.415	0.400	0.394	0.408
	0.408	0.394	0.389	0.402
	0.422	0.408	0.402	0.415
	0.430	0.415	0.408	0.422
CIE Y	0.409	0.402	0.385	0.392
	0.392	0.385	0.369	0.375
	0.399	0.392	0.375	0.381
	0.417	0.409	0.392	0.399

Natural-White Bin Coordinates

4000K				
Bin	40K-1	40K-2	40K-3	40K-4
CIE X	0.387	0.374	0.370	0.383
	0.383	0.370	0.367	0.378
	0.395	0.383	0.378	0.390
	0.401	0.387	0.383	0.395
CIE Y	0.396	0.387	0.373	0.380
	0.380	0.373	0.358	0.365
	0.388	0.380	0.365	0.372
	0.404	0.396	0.380	0.388

4500K				
Bin	45K-1	45K-2	45K-3	45K-4
CIE X	0.364	0.355	0.353	0.362
	0.362	0.353	0.351	0.359
	0.370	0.362	0.359	0.367
	0.374	0.364	0.362	0.370
CIE Y	0.381	0.374	0.360	0.366
	0.366	0.360	0.347	0.352
	0.373	0.366	0.352	0.358
	0.387	0.381	0.366	0.373

White Color Bin Structure



Chromaticity specification defined by ANSI

TECHNICAL DATA

HIGH POWER LED (EAHP3045 , EAHP1215, EAHP2024, EAHP1313, EAHP1919, EAHP3535 [COLOR])

BRIGHTNESS BINNING RANKS

EAHP3045/3535 (COLOR)

Wavelength (nm)

Group	Binning	Minimum Dominant	Maximum Dominant
		Wavelength (nm)	Wavelength (nm)
B Blue/ Royal- Blue	1	430	435
	2	435	440
	3	440	445
	4	445	450
	5	450	455
	6	455	460
	7	460	465
	8	465	470
G Green	1	520	525
	2	525	530
	3	530	535
	4	535	540
	5	540	545
	6	545	550
A Amber	1	580	582.5
	2	582.5	585
	3	585	587.5
	4	587.5	590
	5	590	592.5
	6	592.5	595
R Red	3	610	615
	4	615	620
	5	620	625
	6	625	630
D Deep- Red	7	630	635
	1	635	640
	2	640	645
	3	645	650
	4	650	655
	5	655	660
	6	660	665
	7	665	670
F Far- Red	8	670	675
	1	700	710
	2	710	715
	3	715	720
	4	720	725
	5	725	730
	6	730	735
	7	735	740
8	740	745	

EAHP1215, EAHP2024, EAHP1313, EAHP1919

Brightness (lm)

Luminous Flux Bins

Group	Binning	Minimum Photometric Flux (lm)	Maximum Photometric Flux (lm)
F	1	27	33
	2	33	39
	3	39	45
	4	45	52
	5	52	60
	6	60	70
	7	70	80
	8	80	90
	9	90	100
J	1	100	110
	2	110	120
	3	120	130
	4	130	140
	5	140	150
	6	150	160
	7	160	180
	8	180	200
	9	200	225
K	1	225	250
	2	250	275
	3	275	300
	4	300	325
	5	325	350
	6	350	375
	7	375	400
	8	400	425
	9	425	450
N	1	450	475
	2	475	500
	3	500	550
	4	550	600
	5	600	650
	6	650	700
	7	700	750
	8	750	800
	9	800	900
P	1	900	1000
	2	1000	1100
	3	1100	1200
	4	1200	1350
	5	1350	1500
	6	1500	1650
	7	1650	1800
	8	1800	2000
	9	2000	2200

TECHNICAL DATA

HIGH POWER LED (EAHP3045, EAHP3535 [COLOR]) FORWARD VOLTAGE BINNING RANKS

EAHP3045, EAHP3535 [COLOR]

Forward Voltage Bins

Group Name	Bins	
A	U1+U2+U3	
B	U2+U3+U4	
C	V1+V2+V3	
D	V2+V3+V4	
E	V3+V4+V5	
F	V1+V2	
G	V1	
Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
U1	1.75	2.05
U2	2.05	2.35
U3	2.35	2.65
U4	2.65	2.95
V1	2.95	3.25
V2	3.25	3.55
V3	3.55	3.85
V4	3.85	4.15
V5	4.15	4.45

A22 (1W)

Forward Voltage Bins

Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)	
VD	13.5	14.7	
VE	14.7	15.9	
VF	VF-1	15.9	16.2
	VF-2	16.2	16.5
	VF-3	16.5	16.8
	VF-4	16.8	17.1
VG	VG-1	17.1	17.4
	VG-2	17.4	17.7
	VG-3	17.7	18.0
	VG-4	18.0	18.3

HIGH POWER LED (EAHP1215, EAHP2024 SERIES) FORWARD VOLTAGE BINNING RANKS

(EAHP1215, EAHP2024)

Forward Voltage Bins

Group	Binning	Minimum Forward Voltage(V)	Maximum Forward Voltage(V)
R	R1	9	10
	R2	10	11
	R3	11	12
	R4	12	13
	R5	13	14
	R6	14	15
	R7	15	16
	R8	16	17
	R9	17	18
T	T1	18	19
	T2	19	20
	T3	20	21
	T4	21	22
	T5	22	23
	T6	23	24
	T7	24	25
	T8	25	26
	T9	26	27
W	W1	27	29
	W2	29	31
	W3	31	33
	W4	33	35
	W5	35	37
	W6	37	39
	W7	39	41
	W8	41	43
	W9	43	45
X	X1	45	47
	X2	47	50
	X3	50	53
	X4	53	56
	X5	56	59
	X6	59	63
	X7	63	67
	X8	67	71
	X9	71	75
Y	Y1	75	79
	Y2	79	83
	Y3	83	88
	Y4	88	93
	Y5	93	98
	Y6	98	103
	Y7	103	108
	Y8	108	113

TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SMD TYPE CIE BINNING RANKS

Cool-White Bin Coordinates

5000K						
Bin	A	B	C	D	F	G
CIE X	0.3551	0.3464	0.3371	0.3533	0.3487	0.3482
	0.3464	0.3376	0.3366	0.3482	0.3425	0.3422
	0.3456	0.3371	0.3441	0.3477	0.3422	0.3418
	0.3487	0.3422	0.3448	0.3448	0.3482	0.3477
	0.3482	0.3425	0.3418	0.3441	--	--
	0.3533	0.3456	0.3422	0.3515	--	--
CIE Y	0.3760	0.3688	0.3493	0.3624	0.3629	0.3583
	0.3688	0.3616	0.3369	0.3583	0.3579	0.3533
	0.3604	0.3493	0.3428	0.3530	0.3533	0.3483
	0.3629	0.3533	0.3507	0.3507	0.3583	0.3530
	0.3583	0.3579	0.3483	0.3428	--	--
	0.3624	0.3604	0.3533	0.3487	--	--

5700K						
Bin	A	B	C	D	F	G
CIE X	0.3376	0.3292	0.3215	0.3371	0.3321	0.3321
	0.3292	0.3207	0.3222	0.3321	0.3261	0.3262
	0.3292	0.3215	0.3294	0.3320	0.3262	0.3263
	0.3321	0.3262	0.3293	0.3293	0.3321	0.3320
	0.3321	0.3261	0.3263	0.3294	--	--
	0.3371	0.3292	0.3262	0.3366	--	--
CIE Y	0.3616	0.3539	0.3353	0.3493	0.3490	0.3447
	0.3539	0.3462	0.3243	0.3447	0.3436	0.3395
	0.3464	0.3353	0.3306	0.3401	0.3395	0.3350
	0.3490	0.3395	0.3377	0.3377	0.3447	0.3401
	0.3447	0.3436	0.3350	0.3306	--	--
	0.3493	0.3464	0.3395	0.3369	--	--

6500K						
Bin	A	B	C	D	F	G
CIE X	0.3205	0.3117	0.3048	0.3213	0.3157	0.3161
	0.3117	0.3028	0.3068	0.3161	0.3093	0.3100
	0.3125	0.3048	0.3145	0.3166	0.3100	0.3106
	0.3157	0.3100	0.3136	0.3136	0.3161	0.3166
	0.3161	0.3093	0.3106	0.3145	--	--
	0.3213	0.3125	0.3100	0.3221	--	--
CIE Y	0.3481	0.3393	0.3209	0.3371	0.3360	0.3320
	0.3393	0.3304	0.3113	0.3320	0.3297	0.3259
	0.3328	0.3209	0.3187	0.3281	0.3259	0.3222
	0.3360	0.3259	0.3251	0.3251	0.3320	0.3281
	0.3320	0.3297	0.3222	0.3187	--	--
	0.3371	0.3328	0.3259	0.3261	--	--

Natural-White Bin Coordinates

4000K						
Bin	A	B	C	D	F	G
CIE X	0.4006	0.3871	0.3703	0.3952	0.3890	0.3873
	0.3871	0.3736	0.3670	0.3873	0.3793	0.3779
	0.3843	0.3703	0.3784	0.3854	0.3779	0.3764
	0.3890	0.3779	0.3810	0.3810	0.3873	0.3854
	0.3873	0.3793	0.3764	0.3784	--	--
	0.3952	0.3843	0.3779	0.3898	--	--
CIE Y	0.4044	0.3959	0.3726	0.3880	0.3887	0.3831
	0.3959	0.3874	0.3578	0.3831	0.3828	0.3773
	0.3858	0.3726	0.3647	0.3768	0.3773	0.3713
	0.3887	0.3773	0.3741	0.3741	0.3831	0.3768
	0.3831	0.3828	0.3713	0.3647	--	--
	0.3880	0.3858	0.3773	0.3716	--	--

4500K						
Bin	A	B	C	D	F	G
CIE X	0.3736	0.3642	0.3530	0.3703	0.3658	0.3648
	0.3642	0.3548	0.3512	0.3648	0.3592	0.3584
	0.3626	0.3530	0.3591	0.3637	0.3584	0.3575
	0.3658	0.3584	0.3607	0.3607	0.3648	0.3637
	0.3648	0.3592	0.3575	0.3591	--	--
	0.3703	0.3626	0.3584	0.3670	--	--
CIE Y	0.3874	0.3805	0.3601	0.3726	0.3738	0.3686
	0.3805	0.3736	0.3465	0.3686	0.3689	0.3640
	0.3714	0.3601	0.3522	0.3630	0.3640	0.3585
	0.3738	0.3640	0.3608	0.3608	0.3686	0.3630
	0.3686	0.3689	0.3585	0.3522	--	--
	0.3726	0.3714	0.3640	0.3578	--	--

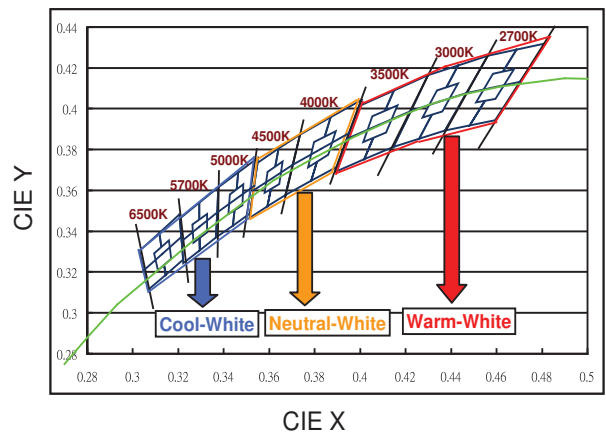
Warm-White Bin Coordinates

2700K						
Bin	A	B	C	D	F	G
CIE X	0.4813	0.4687	0.4465	0.4700	0.4667	0.4627
	0.4687	0.4562	0.4373	0.4627	0.4576	0.4539
	0.4621	0.4465	0.4483	0.4588	0.4539	0.4502
	0.4667	0.4539	0.4544	0.4544	0.4627	0.4588
	0.4627	0.4576	0.4502	0.4483	--	--
	0.4700	0.4621	0.4539	0.4593	--	--
CIE Y	0.4319	0.4289	0.4071	0.4126	0.4180	0.4109
	0.4289	0.4260	0.3893	0.4109	0.4158	0.4088
	0.4169	0.4071	0.3919	0.4041	0.4088	0.4020
	0.4180	0.4088	0.4030	0.4030	0.4109	0.4041
	0.4109	0.4158	0.4020	0.3919	--	--
	0.4126	0.4169	0.4088	0.3944	--	--

3000K						
Bin	A	B	C	D	F	G
CIE X	0.4562	0.4430	0.4221	0.4465	0.4422	0.4388
	0.4430	0.4299	0.4147	0.4388	0.4328	0.4297
	0.4375	0.4221	0.4259	0.4355	0.4297	0.4267
	0.4422	0.4297	0.4311	0.4311	0.4388	0.4355
	0.4388	0.4328	0.4267	0.4259	--	--
	0.4465	0.4375	0.4297	0.4373	--	--
CIE Y	0.4260	0.4212	0.3984	0.4071	0.4113	0.4043
	0.4212	0.4165	0.3814	0.4043	0.4079	0.4011
	0.4096	0.3984	0.3853	0.3977	0.4011	0.3946
	0.4113	0.4011	0.3962	0.3962	0.4043	0.3977
	0.4043	0.4079	0.3946	0.3853	--	--
	0.4071	0.4096	0.4011	0.3893	--	--

3500K						
Bin	A	B	C	D	F	G
CIE X	0.4299	0.4148	0.3943	0.4221	0.4159	0.4134
	0.4148	0.3996	0.3889	0.4134	0.4051	0.4029
	0.4106	0.3943	0.4018	0.4108	0.4029	0.4006
	0.4159	0.4029	0.4057	0.4057	0.4134	0.4108
	0.4134	0.4051	0.4006	0.4018	--	--
	0.4221	0.4106	0.4029	0.4147	--	--
CIE Y	0.4165	0.4090	0.3853	0.3984	0.4007	0.3943
	0.4090	0.4015	0.3690	0.3943	0.3954	0.3893
	0.3981	0.3853	0.3752	0.3878	0.3893	0.3829
	0.4007	0.3893	0.3853	0.3853	0.3943	0.3878
	0.3943	0.3954	0.3829	0.3752	--	--
	0.3984	0.3981	0.3893	0.3814	--	--

White Color Bin Structure



Chromaticity specification defined by ANSI

TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SURFACE MOUNT PLCC TYPE LED
BRIGHTNESS BINNING RANKS

Luminous Flux Bins

Unit : lm

Bin code	Range	
	Min.	Max.
D1	0.5	1.0
D2	1.0	1.5
D3	1.5	2.0
D4	2.0	2.5
D5	2.5	3.0
D6	3.0	3.5
D7	3.5	4.0
D8	4.0	4.5
D9	4.5	5.0
BA	5.0	5.5
B1	5.5	6.0
B2	6.0	6.5
B3	6.5	7.0
B4	7.0	7.5
B5	7.5	8.0
B6	8.0	8.5
B7	8.5	9.0
B8	9.0	9.5
B9	9.5	10.0
L1	10.0	11.0
L2	11.0	12.0
L3	12.0	13.0
L4	13.0	14.0
L5	14.0	15.0
L6	15.0	16.0
L7	16.0	17.0
L8	17.0	18.0
L9	18.0	19.0
M3	19.0	21.0
M4	21.0	24.0
N3	24.0	27.0
N4	27.0	33.0
P3	33.0	39.0
P4	39.0	45.0
Q3	45.0	52.0
NB	32.0	36.0
PA	36.0	40.0
PB	40.0	45.0
QA	45.0	50.0
R1	50.0	55.0
R2	55.0	60.0
R3	60.0	65.0
R4	65.0	70.0
R5	70.0	76.0
R6	76.0	83.0
R7	83.0	90.0
R8	90.0	100.0
S1	100.0	110.0
S2	110.0	120.0
S3	120.0	130.0

VF Group Bin Code

Unit : V

Forward Voltage Group	Bin	Min.	Max.	
B2	B42	35	2.80	2.90
		36	2.90	3.00
		37	3.00	3.10
		38	3.10	3.20
		39	3.20	3.30
		40	3.30	3.40
		41	3.40	3.50
		42	3.50	3.60

TECHNICAL DATA

SMD LED : SURFACE MOUNT CHIP LED (PCB TYPE) BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

	C0: 0.28 ... 0.45	Q ▶	Q1: 72.0 ... 90.0
	D0: 0.45 ... 0.70		Q2: 90.0 ... 112
	E0: 0.70 ... 1.1	R ▶	R1: 112 ... 140
	F0: 1.1 ... 1.8		R2: 140 ... 180
	G0: 1.8 ... 2.8	S ▶	S1: 180 ... 225
	H0: 2.8 ... 4.5		S2: 225 ... 285
	J0: 4.5 ... 7.2	T ▶	T1: 285 ... 360
	K0: 7.2 ... 11.5		T2: 360 ... 450
L ▶	L1: 11.5 ... 14.5	U ▶	U1: 450 ... 565
	L2: 14.5 ... 18.0		U2: 565 ... 715
M ▶	M1: 18.0 ... 22.5		V0: 715 ... 1120
	M2: 22.5 ... 28.5		W0: 1120 ... 1800
N ▶	N1: 28.5 ... 36.0		X0: 1800 ... 2850
	N2: 36.0 ... 45.0		Y0: 2850 ... 4500
P ▶	P1: 45.0 ... 57.0		
	P2: 57.0 ... 72.0		

Note: The luminous intensity data did not include $\pm 15\%$ testing tolerance.

V_F (Forward Voltage Spec. Setup)

Unit : V

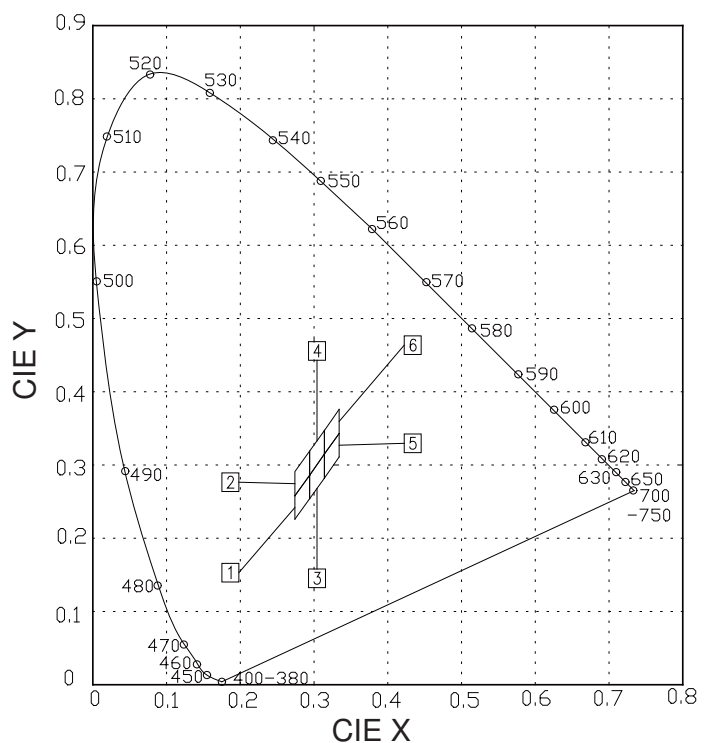
Forward Voltage Groups	Bin	Min.	Max.
	00	1.55	1.75
	0	1.75	1.95
	1	1.95	2.15
	2	2.15	2.35
	3	2.35	2.55
	4	2.55	2.75
	5	2.75	3.05
	6	3.05	3.35
	7	3.35	3.65
	8	3.65	3.95
	10	2.70	2.90
	11	2.90	3.10
	12	3.10	3.30
	13	3.30	3.50
	14	3.50	3.70
	15	2.70	2.85
	16	2.85	3.00
	17	3.00	3.15
	18	3.15	3.30

Note: The forward voltage data did not include $\pm 0.1V$ testing tolerance.

Bin Coordinate

Group	Bin Code	CIE_X	CIE_Y
A	1	0.274	0.226
		0.274	0.258
		0.294	0.286
		0.294	0.254
	2	0.274	0.258
		0.274	0.291
		0.294	0.319
		0.294	0.286
	3	0.294	0.254
		0.294	0.286
		0.314	0.315
		0.314	0.282
	4	0.294	0.286
		0.294	0.319
		0.314	0.347
		0.314	0.315
	5	0.314	0.282
		0.314	0.315
		0.334	0.343
		0.334	0.311
	6	0.314	0.315
		0.314	0.347
		0.334	0.376
		0.334	0.343

Bin Structure (White Light)



TECHNICAL DATA

For Lighting Application Only

SMD LED : SURFACE MOUNT PLCC LED (REFLECTOR) / LOW POWER LED
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

Bin Code	Min.	Max.	Bin Code	Min.	Max.
D1	0.5	1.0	NB	32.0	36.0
D2	1.0	1.5	PA	36.0	40.0
D3	1.5	2.0	PB	40.0	45.0
D4	2.0	2.5	QA	45.0	50.0
D5	2.5	3.0	R1	50.0	55.0
D6	3.0	3.5	R2	55.0	60.0
D7	3.5	4.0	R3	60.0	65.0
D8	4.0	4.5	R4	65.0	70.0
D9	4.5	5.0	R5	70.0	76.0
BA	5.0	5.5	R6	76.0	83.0
B1	5.5	6.0	R7	83.0	90.0
B2	6.0	6.5	R8	90.0	100.0
B3	6.5	7.0	S1	100.0	110.0
B4	7.0	7.5	S2	110.0	120.0
B5	7.5	8.0	S3	120.0	130.0
B6	8.0	8.5	S4	130.0	140.0
B7	8.5	9.0	S5	140.0	150.0
B8	9.0	9.5	S6	150.0	160.0
B9	9.5	10.0	S7	160.0	170.0
L1	10.0	11.0	S8	170.0	180.0
L2	11.0	12.0	T1	180.0	190.0
L3	12.0	13.0	T2	190.0	200.0
L4	13.0	14.0	T3	200.0	220.0
L5	14.0	15.0	T4	220.0	240.0
L6	15.0	16.0	T5	240.0	260.0
L7	16.0	17.0	T6	260.0	280.0
L8	17.0	18.0	T7	280.0	300.0
L9	18.0	19.0	T8	300.0	320.0
M3	19.0	21.0			
M4	21.0	24.0			
N3	24.0	27.0			
N4	27.0	33.0			
P3	33.0	39.0			
P4	39.0	45.0			
Q3	45.0	52.0			

V_F (Forward Voltage Spec. Setup)

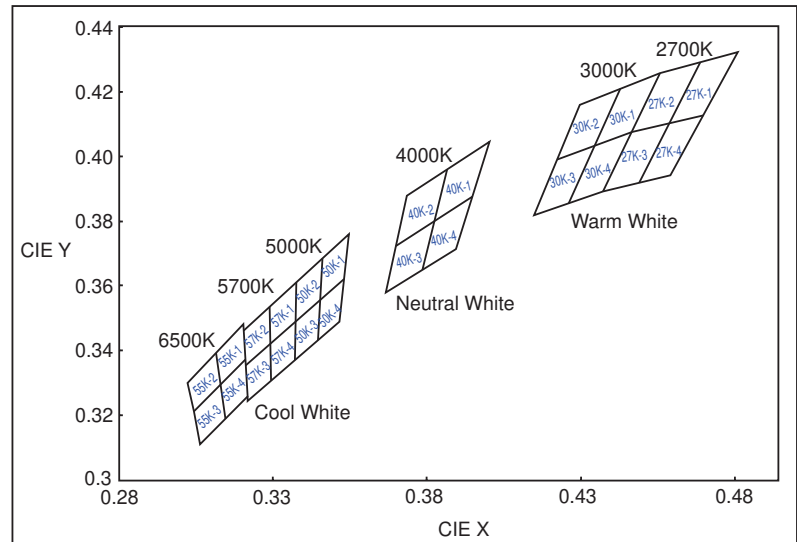
Unit : V (I_F=150mA)

Bin Group	Bin Code	Min.	Max.	
B42	B2	35	2.8	2.9
		36	2.9	3.0
		37	3.0	3.1
		38	3.1	3.2
		39	3.2	3.3
		40	3.3	3.4
		41	3.4	3.5
		42	3.5	3.6

Table of Color Rendering Index

Symbol	Description
M	CRI(Min.) : 60
N	CRI(Min.) : 65
L	CRI(Min.) : 70
Q	CRI(Min.) : 75
K	CRI(Min.) : 80
P	CRI(Min.) : 85
H	CRI(Min.) : 90

Bin Structure



TECHNICAL DATA

SMD LED (EAPL3810, EAPL4210, EAPL3020) BRIGHTNESS BIN SELECTION

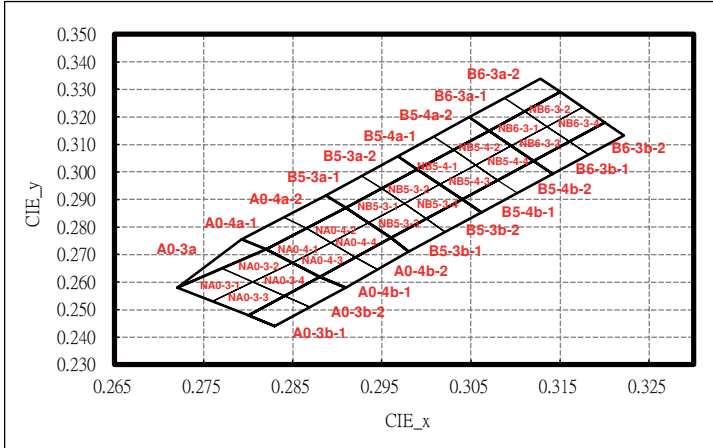
Bin Coordinate

CCT	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y
6500K	65K-1	0.3205	0.3481	65K-3	0.3131	0.3290
		0.3117	0.3393		0.3048	0.3209
		0.3131	0.3290		0.3068	0.3113
		0.3213	0.3371		0.3145	0.3187
	65K-2	0.3117	0.3393	65K-4	0.3213	0.3371
		0.3028	0.3304		0.3131	0.3290
		0.3048	0.3209		0.3145	0.3187
		0.3131	0.3290		0.3221	0.3261
5700K	57K-1	0.3376	0.3616	57K-3	0.3293	0.3423
		0.3292	0.3539		0.3215	0.3353
		0.3293	0.3423		0.3222	0.3243
		0.3371	0.3493		0.3294	0.3306
	57K-2	0.3292	0.3539	57K-4	0.3371	0.3493
		0.3207	0.3462		0.3293	0.3423
		0.3215	0.3353		0.3294	0.3306
		0.3293	0.3423		0.3366	0.3369
5000K	50K-1	0.3551	0.3760	50K-3	0.3452	0.3558
		0.3464	0.3688		0.3371	0.3493
		0.3452	0.3558		0.3366	0.3369
		0.3533	0.3624		0.3441	0.3428
	50K-2	0.3464	0.3688	50K-4	0.3533	0.3624
		0.3376	0.3616		0.3452	0.3558
		0.3371	0.3493		0.3441	0.3428
		0.3452	0.3558		0.3515	0.3487
4000K	40K-1	0.4006	0.4044	40K-3	0.3828	0.3803
		0.3871	0.3959		0.3703	0.3726
		0.3828	0.3803		0.3670	0.3578
		0.3952	0.3880		0.3784	0.3647
	40K-2	0.3871	0.3959	40K-4	0.3952	0.3880
		0.3736	0.3874		0.3828	0.3803
		0.3703	0.3726		0.3784	0.3647
		0.3828	0.3803		0.3898	0.3716
3000K	30K-1	0.4562	0.4260	30K-3	0.4345	0.4033
		0.4431	0.4213		0.4223	0.3990
		0.4345	0.4033		0.4147	0.3814
		0.4468	0.4077		0.4260	0.3854
	30K-2	0.4431	0.4213	30K-4	0.4468	0.4077
		0.4299	0.4165		0.4345	0.4033
		0.4223	0.3990		0.4260	0.3854
		0.4345	0.4033		0.4373	0.3893
2700K	27K-1	0.4813	0.4319	27K-3	0.4585	0.4104
		0.4688	0.4290		0.4468	0.4077
		0.4585	0.4104		0.4373	0.3893
		0.4703	0.4132		0.4483	0.3919
	27K-2	0.4688	0.4290	27K-4	0.4703	0.4132
		0.4562	0.4260		0.4585	0.4104
		0.4468	0.4077		0.4483	0.3919
			0.4104			0.3944

TECHNICAL DATA

SMD LED (EAPL3810, EAPL4210, EAPL3020) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y		
NA0-3-1	0.2760	0.2530	NA0-3-2	0.2805	0.2600	NA0-4-1	0.2850	0.2670	NA0-4-2	0.2893	0.2743		
	0.2720	0.2580		0.2770	0.2650		0.2820	0.2720		0.2865	0.2795	0.2910	0.2870
	0.2770	0.2650		0.2805	0.2600		0.2850	0.2670		0.2893	0.2743	0.2935	0.2815
NA0-3-3	0.2800	0.2480	NA0-3-4	0.2840	0.2550	NA0-4-3	0.2880	0.2620	NA0-4-4	0.2920	0.2690		
	0.2760	0.2530		0.2805	0.2600		0.2850	0.2670		0.2893	0.2743	0.2935	0.2815
	0.2805	0.2600		0.2850	0.2670		0.2880	0.2620		0.2920	0.2690	0.2960	0.2760
A0-3b-1	0.2830	0.2440	A0-3b-2	0.2870	0.2510	A0-4b-1	0.2910	0.2580	A0-4b-2	0.2945	0.2645		
	0.2800	0.2480		0.2840	0.2550		0.2880	0.2620		0.2920	0.2690	0.2960	0.2760
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2945	0.2645	0.2980	0.2710
A0-4a-1	0.2820	0.2720	A0-4a-2	0.2865	0.2795	B5-3a-1	0.2910	0.2870	B5-3a-2	0.2950	0.2940		
	0.2793	0.2755		0.2840	0.2836		0.2887	0.2916		0.2928	0.2987	0.2928	0.2987
	0.2840	0.2836		0.2887	0.2916		0.2950	0.2940		0.2990	0.3010	0.2990	0.3010
A0-3a	0.2720	0.2580	NB5-3-1	0.2935	0.2815	NB5-3-2	0.2975	0.2885	NB5-3-3	0.3015	0.2955		
	0.2793	0.2755		0.2910	0.2870		0.2950	0.2940		0.2975	0.2885	0.2975	0.2885
	0.2820	0.2720		0.2950	0.2940		0.2990	0.3010		0.3015	0.2955	0.2990	0.3010
NB5-3-3	0.2960	0.2760	NB5-3-4	0.3000	0.2830	B5-4b-1	0.3062	0.2853	B5-4b-2	0.3102	0.2923		
	0.2935	0.2815		0.2975	0.2885		0.3040	0.2900		0.3080	0.2970	0.3080	0.2970
	0.2975	0.2885		0.3015	0.2955		0.3080	0.2970		0.3102	0.2923	0.3120	0.3040
B5-3b-1	0.3000	0.2830	B5-3b-2	0.3040	0.2900	B6-3a-1	0.3102	0.2923	B6-3a-2	0.3142	0.2993		
	0.2980	0.2710		0.3021	0.2782		0.3070	0.3150		0.3070	0.3150	0.3110	0.3220
	0.2960	0.2760		0.3000	0.2830		0.3048	0.3198		0.3048	0.3198	0.3088	0.3268
B5-4a-1	0.3000	0.2830	B5-4a-2	0.3040	0.2900	NB6-3-1	0.3088	0.3268	NB6-3-2	0.3128	0.3338		
	0.3021	0.2782		0.3062	0.2853		0.3110	0.3220		0.3110	0.3220	0.3150	0.3290
	0.2990	0.3010		0.3030	0.3080		0.3095	0.3095		0.3095	0.3095	0.3135	0.3165
NB5-4-1	0.2968	0.3058	NB5-4-2	0.3008	0.3128	NB6-3-3	0.3070	0.3150	NB6-3-4	0.3110	0.3220		
	0.3008	0.3128		0.3048	0.3198		0.3110	0.3220		0.3110	0.3220	0.3150	0.3290
	0.3030	0.3080		0.3070	0.3150		0.3135	0.3165		0.3135	0.3165	0.3175	0.3235
NB5-4-3	0.3015	0.2955	NB5-4-4	0.3055	0.3025	B6-3b-1	0.3120	0.3040	B6-3b-2	0.3160	0.3110		
	0.2990	0.3010		0.3030	0.3080		0.3095	0.3095		0.3095	0.3095	0.3135	0.3165
	0.3030	0.3080		0.3070	0.3150		0.3160	0.3110		0.3160	0.3110	0.3175	0.3235
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.3055	0.3025	NB5-4-4	0.3095	0.3095	NB5-4-4	0.3160	0.3110	NB5-4-4	0.3200	0.3180		
	0.3080	0.2970		0.3080	0.2970		0.3142	0.2993		0.3142	0.2993	0.3182	0.3063
	0.3015	0.2955		0.3055	0.3025		0.3120	0.3040		0.3120	0.3040	0.3160	0.3110
NB5-4-4	0.												

TECHNICAL DATA

SMD LED (EAPL3810, EAPL4210, EAPL3020) BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

Bin	Min.	Max.	Bin	Min.	Max.	Bin	Min.	Max.
01	500	600	23	1250	1300	45	2500	2600
02	600	630	24	1300	1350	46	2600	2700
03	630	660	25	1350	1400	47	2700	2800
04	660	690	26	1400	1450	48	2800	2900
05	690	720	27	1450	1500	49	2900	3000
06	720	750	28	1500	1550	50	3000	3100
07	750	780	29	1550	1600	51	3100	3200
08	780	810	30	1600	1650			
09	810	840	31	1650	1700			
10	840	870	32	1700	1750			
11	870	900	33	1750	1800			
12	900	930	34	1800	1850			
13	930	960	35	1850	1900	H42	2200	2250
14	960	990	36	1900	1950	H43	2250	2300
15	990	1020	37	1950	2000	H44	2300	2350
16	1020	1050	38	2000	2050	H45	2350	2400
17	1050	1080	39	2050	2100	H46	2400	2450
18	1080	1110	40	2100	2150	H47	2450	2500
19	1110	1140	41	2150	2200	H48	2500	2550
20	1140	1170	42	2200	2300	H49	2550	2600
21	1170	1200	43	2300	2400	H50	2600	2650
22	1200	1250	44	2400	2500	H51	2650	2700

Note: Tolerance of Luminous Intensity: $\pm 7\%$.

Luminous Flux

Unit : lm

Bin	Min.	Max.
40	4.00	4.25
42	4.25	4.50
45	4.50	4.75
47	4.75	5.00
50	5.00	5.25
52	5.25	5.50
55	5.50	5.75
57	5.75	6.00
60	6.00	6.25
62	6.25	6.50
65	6.50	6.75
67	6.75	7.00
70	7.00	7.25
72	7.25	7.50
75	7.50	7.75
77	7.75	8.00
80	8.00	8.25
82	8.25	8.50

V_F (Forward Voltage Spec. Setup)

Unit : V

Groups								Bin	Min.	Max.	Groups			Bin	Min.	Max.	Groups			Bin	Min.	Max.			
0	1	2	3	4	5	6	7	8	D	P	A	G	9	6-1	2.95	3.05	6-1-1	2.95	3.00	6-11	3.00	3.05			
														6-2	3.05	3.15	6-1-2	3.00	3.05	6-2	3.05	3.15			
	7-1	3.15	3.25	6-2-1	3.05	3.10	7-1	3.15						3.25											
	7-2	3.25	3.35	6-2-2	3.10	3.15	7-2	3.25						3.35											
	8-1	3.35	3.45	7-1-1	3.15	3.20	8-1	3.35						3.45											
	8-2	3.45	3.55	7-1-2	3.20	3.25	8-2	3.45						3.50											
	9-1	3.55	3.65	7-2-1	3.25	3.30	9-1	3.55						3.65											
	9-2	3.65	3.75	7-2-2	3.30	3.35	9-2	3.65						3.75											
																				8-1-1	3.35	3.40			
																				8-1-2	3.40	3.45			

Groups												Bin	Min.	Max.	
W	S	R	L	N	B	C	K	H	E	Q	F	Y	4-2-3	2.7	2.8
													5-1-3	2.8	2.9
													5-2-3	2.9	3.0
													6-1-3	3.0	3.1
													6-2-3	3.1	3.2
													7-1-3	3.2	3.3
													7-2-3	3.3	3.4
													8-1-3	3.4	3.5

Note: Tolerance of Forward Voltage: $\pm 0.05V$.