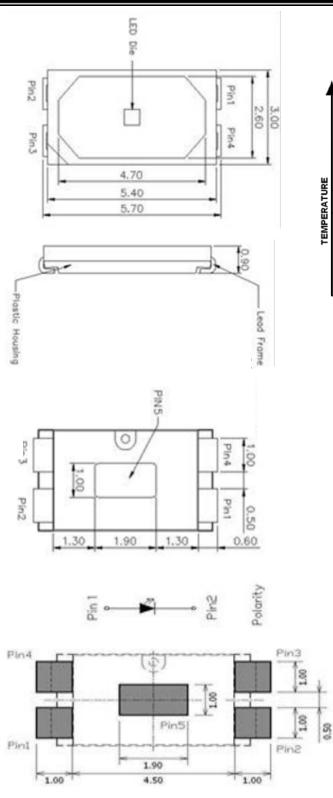
## A-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

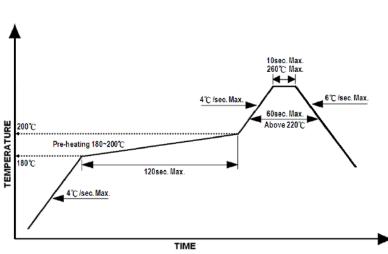
### 5630 Package Power Warm White Surface Mount Device

Part Number: 62-217BSW1C1

## Package outlines & Re-flow Profile



### ■Reflow Temp/Time



#### ■Soldering iron

Basic spec is  $\leq$  5sec when 260°C. If temperature is higher, time should be shorter (+10°C  $\rightarrow$  -1sec ). Power dissipation of iron should be smaller than 15W, and temperatures should be controllable . Surface temperature of the device should be under 230°C.

ITEM	MATERIALS
Resin (mold)	Ероху
Lens color	Yellow Diffused
Printed circuit board	BT
Emitted color	Warm White
Material	InGaN

### NOTES:

- 1. All dimensions are in millimeters (inches);
- 2. Tolerances are  $\pm 0.1$ mm (0.004inch) unless otherwise noted.
- 3. Polarity referring onto the cathode mark is reversed on the red.

## A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C1

(Pulse Width  $\leq$  10msec, and duty  $\leq$ 1/10)

#### **ELECTRO-OPTICAL CHARACTERISTICS** $(T_A=25^{\circ}C)$ **Value** Test **Symbol Parameter** Unit Condition MIN. TYP. MAX. 120 Viewing angle at 50% I<sub>V</sub> I<sub>F</sub>=60mA $2\theta 1/2$ Deg Forward voltage I<sub>F</sub>=60mA 2.8 ---3.5 V $V_{\mathsf{F}}$ **Color Temperature CCT** K 2750 3000 3250 I<sub>F</sub>=60mA I<sub>F</sub>=60mA Luminous Flux Flux 19 lm **Pulse Forward Current**

150

mΑ

 $I_{FP}$ 

Absolute maximum ratings (								
Parameter	Symbol	Value	Unit					
Forward current	lF	100	mA					
Reverse voltage	V <sub>R</sub>	5	V					
Reverse current	I <sub>R</sub>	1	μΑ					
Power dissipation	PD	235	mW					
Operating temperature range	Тор	-30 ~+80	$^{\circ}\!\mathbb{C}$					
Storage temperature range	Tstg	-40 ~+85	$^{\circ}$					

## A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C1

## Bin Code

### Iv Bin:

Color	Bin Code	Spec. Range			
	MC2	15.8~18.1lm			
	MD2	16.9 ~18.1lm			
	NA1	18.1~19.3lm			
	NB1	19.3~20.6lm			
	NC2	20.6~22.0lm			
	ND2	22.0~23.5lm			
	AP1	23.4~25.1lm			
	BP1	25.1~26.8m			
	CP2	26.8~28.6m			
	DP2	28.6~30.4m			
White	QA1	30.4~32.6m			
vviille	QB1	32.6~34.9m			
	QC2	34.9~37.2m			
	QD2	37.2~39.8m			
	RA1	39.8~42.5m			
	RB1	42.5~45.3m			
	RC2	45.3~48.4m			
	RD2	48.4~51.7m			
	SA3	51.7~55.2m			
	SB3	55.2~58.9m			
	SC4	58.9~62.4m			
	SD4	62.4~67.2m			

Luminous Intensity Measurement Allowance is ±7%

Color Ter	nperature	lv Bin				
Min.	Max.	Min.	Min. Typ.			
2750K	3250K	MD2	NA1	NB1		
3750K	4250K	NB1	NC2	ND2		
5250K	6250K	NA1	NB1	NC2		

#### Vf Bin

Bin Code	Spec. Range
H1	2.8-2.9V
H2	2.9-3.0V
Н3	3.0-3.1V
H4	3.1-3.2V
J1	3.2-3.3V
J2	3.3-3.4V
J3	3.4-3.5V

Forward Voltage Measurement Allowance is ±0.005V

## **A-BRIGHT** A-BRIGHT INDUSTRIAL CO., LTD.

## SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C1

## Color Rank

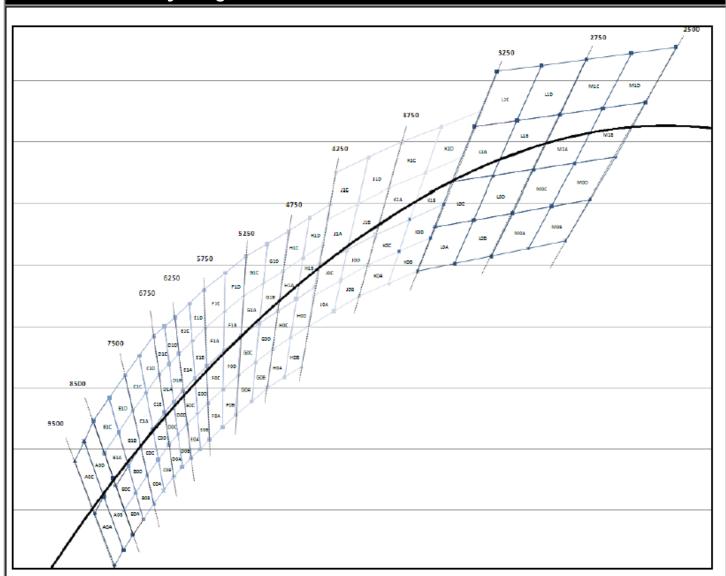
BOA	\$000~8500K	B1A	8000~8500K	808	7500~8000k	B1B	7500~8000k	B0C	8000~8500k	B1C	8:000~8500k	BOD	7500~9000k	B1D	7500~8000k
×	Y	X	y	ж	. V	ж	V	ж		ж	У.	ж	Y	×	Y
0.298	0.282	0.2916	0.298	0.302	0.287	0.29625	0.3045 0.315585	0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292825	0.315565
0.2948	0.29	0.28725	0.315585	0.3035	0.3015	0.292	0.319905	0.29625	0.3045	0.289	0.31926	0.29025	0.3045	0.289	0.33663
0.302	0.287	0.29825	0.3045	0.308	0.292	0.301	0.311	0.299125	0.29575	0.292825	0.315585	0.3035	0.3015	0.298	0.3225
0.298	0.282	0.2915	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292825	0.315585
COA	7000~7500K	C1A	7000~7500K	COB	8750~7000K	C1B	8750~7000K	COC	7000~7500K	C1C	7000~7500K	COD	8750~7000K	C1D	8750~7000K
x	y	X	V	×	V	×	V.	X	ν.	×	V.	×	V.	X	V
0.308	0.292	0.301	0.311	0.30975	0.2965	0.3055	0.3165	0.3035	0.3015	0.298	0.3225	0.307625	0.3065	0.303	0.3285
0.3035	0.3015	0.298	0.3225	0.307525	0.3065	0.303	0.3285	0.301	0.311	0.295	0.334	0.3055	0.3165 0.322	0.3005	0.3405
0.30975	0.2965	0.3055	0.3165	0.3135	0.301	0.31	0.322	0.307525	0.3005	0.303	0.3285	0.31175	0.3115	0.308	0.3345
0.300	0.292	0.301	0.311	0.30975	0.2905	0.3055	0.3105	0.3035	0.3015	0.298	0.3225	0.307025	0.3005	0.303	0.3285
DOA	6500~6750K	D1A	5500~5750K	D0B	5250~5500K	D18	5250~5500K	D0C	5500~5750K	DIC	5500~5750K	D0D	5250~5500K	DID	6250~6500K
X	y	Х	ν	X	V	X	V	X	V	Х	V	X	V	Х	v
0.3135	0.301	0.31	0.322	0.3107	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775 0.341	0.31	0.322	0.300	0.347	0.3135	0.3290	0.31	0.35
0.3157	0.304	0.3175	0.3255	0.3160	0.307	0.317	0.341	0.3151	0.31475	0.31175	0.33775	0.3185	0.325	0.3155	0.341
0.3135	0.301	0.31	0.322	0.3107	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
EDA	6000K-6250K	E1A	5000K-5250K	EOB	5750~5000K	E18	5750~5000K	E0C	5000K~5250K	E1G	5000K~5250K	E0D	5750~6000K	E1D	5750~5000K
X	Y	Х	. V	Х	y	X	y	Х	V.	Х	V.	Х	Y	Х	Y
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.34525
0.3185	0.318 0.3215	0.3155	0.341 0.34525	0.3225	0.3215 0.325	0.3205	0.34525 0.3455	0.317	0.329	0.314	0.353	0.3215	0.333	0.3195	0.3575 0.362
0.3235	0.3210	0.3200	0.34020 0.333	0.3205	0.323	0.3200	0.3485	0.3215	0.333	0.3190	0.3373	0.3265	0.337	0.325	0.302
0.32	0.307	0.3217	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.34525
FDA	5500~5750K	F1A	5500~5750K	FOB	5250~5500K	F18	5250~5500K	F0C	5500~5750K	F1C	5000~5750K	F0D	5250~5500K	F1D	5250~5500K
x	Y	X	y	X	y	x	y	X	y	X	Y	x	Y	×	Y
0.327	0.313	0.326	0.337	0.332	0.317	0.3325	0.342	0.3285	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475
0.3265	0.325 0.3295	0.3255	0.3495 0.35475	0.33225	0.3295 0.334	0.33275	0.35475	0.326	0.337	0.325	0.382	0.3325	0.342	0.333	0.3875
0.33225	0.317	0.3325	0.35476	0.337	0.331	0.339	0.347	0.33225	0.342	0.33275	0.35475	0.338	0.347	0.34	0.38
0.327	0.313	0.328	0.337	0.332	0.317	0.3325	0.342	0.3285	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475
GBA	5000K-5250K	G1A	5000K-5250K	G0B	4750-5000K	G1B	4750-5000K	G0C	5000K-5250K	G1C	5000K-5250K	G0D	4750-5000K	G1D	4750-5000K
X	0.321	х	0.347	ж	y	К	y.	Х		К	. Y	х	Y	ж	Y
0.337															
		0.339		0.343	0.3255	0.346	0.351	0.338	0.334	0.34	0.38	0.3445	0.33825	0.3475	0.364
0.338	0.334	0.34	0.38	0.3445	0.33826	0.3476	0.384	0.339	0.347	0.341	0.373	0.346	0.351	0.349	0.377
0.338	0.334 0.33825	0.34 0.3476	0.38 0.384	0.3445 0.351	0.33825 0.3425	0.3475 0.355	0.384 0.388	0.339 0.348	0.347 0.351	0.341 0.349	0.373 0.377	0.346 0.353	0.351 0.355	0.349 0.357	0.377 0.381
0.338 0.2445 0.343	0.334 0.33925 0.3256	0.34 0.3475 0.348	0.36 0.384 0.351	0.3445 0.351 0.349	0.33825 0.3425 0.33	0.3475 0.355 0.353	0.384 0.388 0.355	0.339 0.348 0.3445	0.347 0.351 0.33825	0.341 0.349 0.3475	0.373 0.377 0.384	0.346 0.353 0.351	0.351 0.355 0.3425	0.349 0.357 0.355	0.377 0.381 0.388
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3256 0.321	0.34 0.3476 0.348 0.339	0.38 0.384 0.351 0.347	0.3445 0.361 0.349 0.343	0.33825 0.3425 0.33 0.3265	0.3475 0.355 0.353 0.346	0.384 0.388 0.355 0.351	0.339 0.346 0.3445 0.338	0.347 0.361 0.33825 0.334	0.341 0.349 0.3475 0.34	0.373 0.377 0.384 0.36	0.348 0.353 0.351 0.3445	0.351 0.355 0.3425 0.33825	0.349 0.357 0.355 0.3475	0.377 0.381 0.368 0.364
0.338 0.2445 0.343	0.334 0.33925 0.3256	0.34 0.3475 0.348	0.36 0.384 0.351	0.3445 0.351 0.349	0.33825 0.3425 0.33	0.3475 0.355 0.353	0.384 0.388 0.355	0.339 0.348 0.3445	0.347 0.351 0.33825	0.341 0.349 0.3475	0.373 0.377 0.384	0.346 0.353 0.351	0.351 0.355 0.3425	0.349 0.357 0.355	0.377 0.381 0.388
0.338 0.2445 0.343 0.337	0.334 0.33825 0.3256 0.321	0.34 0.3475 0.348 0.339	0.36 0.384 0.351 0.347	0.3445 0.361 0.349 0.343	0.33825 0.3425 0.33 0.3255	0.3475 0.355 0.353 0.346	D.384 D.388 D.355 D.351	0.339 0.346 0.3445 0.338	0.347 0.351 0.33825 0.334	0.341 0.349 0.3475 0.34	0.373 0.377 0.384 0.36	0.346 0.353 0.351 0.3445	0.361 0.365 0.3425 0.33825	0.349 0.357 0.355 0.3475	0.377 0.381 0.368 0.364
0.338 0.2445 0.343 0.337 H0A × 0.349 0.351	0.334 0.33825 0.3256 0.321	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.355	0.36 0.384 0.351 0.347 4500-4750K V 0.355 0.388	0.3445 0.351 0.349 0.343 HOB × 0.3555 0.35775	0.33825 0.3425 0.33 0.3255 4250-4500K	0.3475 0.355 0.353 0.346 H1B	0.384 0.388 0.385 0.381 4250-4500K V 0.369 0.37225	0.339 0.346 0.3445 0.338 HDC	0.347 0.351 0.3325 0.334 4500-4750K V 0.3426 0.355	0.341 0.349 0.3475 0.34 H1C x 0.366 0.357	0.373 0.277 0.384 0.38 4500~4750K V 0.388 0.381	0.346 0.353 0.351 0.3445 HDD	0.351 0.355 0.3425 0.33826 4250-4500K V 0.34625 0.355	0.349 0.357 0.356 0.3475 H1D X 0.3625 0.365	0.377 0.381 0.388 0.384 4250~4500K
0.338 0.3445 0.343 0.337 H0A × 0.349 0.351 0.35775	0.334 0.33825 0.3255 0.321 4500~4750K V 0.33 0.3425 0.34025	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.355 0.3025	0.38 D.384 D.381 D.347 4500-4750K V 0.355 D.338	0.3445 0.351 0.349 0.343 H0B × 0.3565 0.35775 0.3045	0.33825 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34625 0.35	0.3475 0.385 0.346 0.346 H1B x 0.38 0.3825 0.37	0.384 0.388 0.355 0.351 4250-4500K V 0.359 0.37225 0.3705	0.339 0.346 0.3445 0.338 HDC x 0.361 0.353 0.30	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425 0.355 0.355	0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.305	0.373 0.377 0.384 0.38 4500~4750K V 0.388 0.381 0.3855	0.346 0.353 0.351 0.3445 HDD x 0.36776 0.39	0.381 0.385 0.3425 0.33825 4250~4500K V 0.34825 0.355 0.303	0.249 0.257 0.356 0.3475 H1D x 0.3625 0.305 0.373	0.377 0.381 0.388 0.384 4250-4500K V 0.37225 0.3855 0.39
0.338 0.2445 0.343 0.337 H0A x 0.249 0.351 0.35770 0.3568	0.334 0.33925 0.3255 0.321 4500~4750K V 0.33 0.3425 0.3425 0.3435	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.363 0.3025 0.38	0.36 0.384 0.351 0.347 4500-4750K V 0.355 0.388 0.37225 0.359	0.3445 0.351 0.349 0.343 HOB x 0.3655 0.35775 0.3045 0.362	0.33825 0.3425 0.32 0.3265 4250-4500K V 0.3335 0.34625 0.34625 0.35	0.3475 0.365 0.363 0.348 H1B × 0.38 0.3025 0.37 0.367	0.384 0.388 0.355 0.351 4250-4500K V 0.359 0.37225 0.3705 0.383	0.339 0.346 0.3445 0.338 HDC x 0.351 0.351 0.353 0.30	0.347 0.351 0.33925 0.334 4500~4750K V 0.3425 0.355 0.359 0.34925	0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.365 0.3825	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3850 0.37225	0.346 0.353 0.351 0.3445 HDD x 0.35776 0.38 0.307 0.3645	0.381 0.365 0.3425 0.33825 4250~4500K V 0.34825 0.359 0.303 0.35	0.349 0.357 0.358 0.3475 H1D x 0.3625 0.373	0.377 0.381 0.368 0.364 4250-4500K V 0.37225 0.3855 0.39
0.338 0.3445 0.343 0.337 H0A × 0.349 0.351 0.35775	0.334 0.33825 0.3255 0.321 4500~4750K V 0.33 0.3425 0.34025	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.355 0.3025	0.38 D.384 D.381 D.347 4500-4750K V 0.355 D.338	0.3445 0.351 0.349 0.343 H0B × 0.3565 0.35775 0.3045	0.33825 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34625 0.35	0.3475 0.385 0.346 0.346 H1B x 0.38 0.3825 0.37	0.384 0.388 0.355 0.351 4250-4500K V 0.359 0.37225 0.3705	0.339 0.346 0.3445 0.338 HDC x 0.361 0.353 0.30	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425 0.355 0.355	0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.305	0.373 0.377 0.384 0.38 4500~4750K V 0.388 0.381 0.3855	0.346 0.353 0.351 0.3445 HDD x 0.36776 0.39	0.381 0.385 0.3425 0.33825 4250~4500K V 0.34825 0.355 0.303	0.249 0.257 0.356 0.3475 H1D x 0.3625 0.305 0.373	0.377 0.381 0.388 0.384 4250-4500K V 0.37225 0.3855 0.39
0.338 0.2445 0.343 0.337 H0A x 0.249 0.351 0.35770 0.3568	0.334 0.33825 0.3255 0.321 4500~4750K 7 0.32 0.3425 0.3425 0.3425 0.3425 0.3336	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.363 0.3025 0.38	0.36 0.384 0.351 0.347 4500-4750K V 0.355 0.388 0.37225 0.359	0.3445 0.351 0.349 0.343 HOB x 0.3655 0.35775 0.3045 0.362	0.33925 0.3425 0.3255 4250-4500K V 0.3335 0.34625 0.34625 0.35 0.327 0.3335	0.3475 0.365 0.363 0.348 H1B × 0.38 0.3025 0.37 0.367	0 384 0 388 0 385 0 351 4250-4500K V 0 369 0 37225 0 3700 0 383 0 395	0.339 0.346 0.3445 0.338 HDC x 0.351 0.351 0.353 0.30	0.347 0.351 0.33925 0.334 4500~4750K V 0.3425 0.355 0.359 0.34925	0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.365 0.3825	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3850 0.37225	0.346 0.353 0.351 0.3445 HDD x 0.35776 0.38 0.307 0.3645	0.351 0.355 0.3425 0.33825 4250-4500K V 0.34625 0.355 0.303 0.35 0.34625	0.349 0.357 0.358 0.3475 H1D x 0.3625 0.373	0.377 0.381 0.388 0.384 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3785 0.3785
0.338 0.3445 0.343 0.337 H0A x 0.349 0.351 0.30770 0.3555 0.349	0.334 0.33925 0.3255 0.321 4500~4750K V 0.33 0.3425 0.3425 0.3435	0.34 0.3475 0.348 0.339 H1A 2 0.353 0.355 0.3025 0.38 0.353	0.38 0.384 0.381 0.347 4500-4750K V 0.366 0.368 0.37225 0.369 0.355	0.3445 0.361 0.349 0.343 HDB × 0.3565 0.35775 0.3045 0.382 0.3555	0.33925 0.3425 0.3255 4250-4500K V 0.3336 0.34625 0.34625 0.35 0.327 0.3335 0.327 0.3335	0.3475 0.365 0.363 0.348 H1B x 0.38 0.3825 0.37 0.387 0.387	0.384 0.388 0.355 0.351 4250-4500K V 0.359 0.37225 0.3705 0.383	0.339 0.346 0.3445 0.338 HDC x 0.351 0.353 0.30 0.36776 0.35776	0.347 0.351 0.33825 0.334 4500-4750K V 0.3426 0.3426 0.3425 0.3425	0.341 0.349 0.3475 0.34 0.34 0.366 0.357 0.366 0.3857 0.3855	0.273 0.377 0.364 0.36 4500-4750K V 0.388 0.381 0.3845 0.37225 0.398	0.346 0.353 0.351 0.3445 HDD × 0.35775 0.36 0.36775 0.3845 0.35775	0.381 0.365 0.3425 0.33825 4250~4500K V 0.34825 0.359 0.303 0.35	0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37	0.377 0.381 0.368 0.364 4250-4500K V 0.37225 0.3855 0.39
0.338 0.3445 0.343 0.337 H0A x 0.349 0.351 0.30770 0.3555 0.349	0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3335 0.333	0.34 0.3475 0.348 0.339 H1A 2 0.353 0.355 0.3025 0.38 0.353	0.38 0.384 0.381 0.347 4500-4750K V 0.366 0.368 0.37225 0.369 0.355	0.3445 0.361 0.349 0.343 HDB × 0.3565 0.35775 0.3045 0.382 0.3555	0.33925 0.2425 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.34025 0.35 0.397 0.3335	0.3475 0.365 0.363 0.348 H1B x 0.38 0.3825 0.37 0.387 0.387	0 384 0 388 0 385 0 351 4250-4500K V 0 369 0 37225 0 3700 0 383 0 395	0.339 0.346 0.3445 0.338 HDC x 0.351 0.353 0.30 0.36776 0.351	0.347 0.351 0.33825 0.334 4500-4750K V 0.3426 0.3426 0.3425 0.3425	0.341 0.349 0.3475 0.34 0.34 0.366 0.357 0.366 0.3857 0.3855	0.273 0.377 0.364 0.36 4500-4750K V 0.388 0.381 0.3845 0.37225 0.398	0.346 0.253 0.3251 0.3445 0.3445 0.35776 0.36776 0.36775 0.3645 0.35775 0.3645 0.35775	0.351 0.355 0.3425 0.33825 4250-4500K V 0.34625 0.355 0.303 0.35 0.34625 3750-4000K	0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37	0.377 0.381 0.388 0.364 4250-4500K Y 0.37226 0.3855 0.3725 0.3755 0.37225
0 338 0 3445 0 3445 0 337 H0A x 0 .249 0 .351 0 .35775 0 .3565 0 .349	0.334 0.33925 0.3225 0.321 4500~4750K V 0.32 0.3425 0.3425 0.3425 0.3336 0.33 4000~4250K V 0.35 0.35	0.34 0.3475 0.339 0.339 H1A x 0.363 0.355 0.3027 0.38 0.355 J1A x 0.368 0.3776	0.38 0.384 0.385 0.385 0.347 V 0.385 0.398 0.37225 0.399 0.395 4000-4250K V 0.395	0.3445 0.381 0.343 0.343 0.343 HOB x 0.3555 0.35775 9.3040 0.362 0.3555 JOB x 0.37676	0.33925 0.3425 0.33 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.3425 0.357 0.3335 3750-4000K V 0.355 0.355	0.3475 0.355 0.355 0.346 0.346 H1B x 0.38 0.3025 0.3025 0.367 0.367 0.36 J1B x 0.383375	0 384 0 388 0 385 0 385 0 381 4259-4500K V 0 389 0 37225 0 3030 0 399 3750-4000K V 0 375 0 375	0.339 0.346 0.3465 0.3465 0.338 HDC x 0.355 0.35 0.35 0.35 0.351 JOC x 0.36176 0.351	0 347 0 351 0 33825 0 334 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 0 36 0 36 0 37	0.341 0.349 0.3475 0.3475 0.344 H1C x 0.357 0.357 0.3825 0.355 0.3825 0.355 0.365 0.3825 0.355	0.273 0.377 0.364 0.38 4500-4750K V 0.389 0.381 0.3855 0.37225 0.398 4000-4250K V 0.365 0.3725 0.398	0.346 0.383 0.381 0.3445 0.3445 0.3445 0.36776 0.390 0.307 0.3645 0.35775 0.3775 0.3775	0.361 0.355 0.3425 0.3325 4250-4500K V 0.3625 0.355 0.365 0.34625 3750-4000K V 0.365 0.3750-4000K	0.349 0.357 0.355 0.3475 0.3475 H1D x 0.3625 0.3475 0.3625 0.373 0.377 0.3625	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3750-4000K V V 0.37225
0.338 0.3445 0.343 0.327 H0A X 0.349 0.351 0.30770 0.3555 0.349 J0A X 0.3655 0.349 J0A	0.334 0.33825 0.3255 0.121 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.33 4000-4250K V 0.35 0.35	0.34 0.3475 0.3485 0.3398 H1A X 0.383 0.355 0.3027 0.38 0.355 J1A X 0.3885 0.3716 0.383375	0.38 0.384 0.385 0.387 0.347 4500-4750K V 0.385 0.388 0.37225 0.388 0.3725 0.386 4000-4250K V 0.395	0.3445 0.351 0.349 0.343 0.343 0.343 0.3555 0.35775 0.3642 0.3555 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655	0.33925 0.3425 0.3255 4250-4500K V 0.3336 0.34625 0.35 0.397 0.3335 3750-4000K V 0.365 0.397	0.3475 0.365 0.365 0.363 0.346 H1B X 0.38 0.3925 0.37 0.397 0.393 J18 X 0.393 0.393 0.393 0.393 0.393 0.393 0.393	0 384 0 388 0 385 0 385 0 381 4250-4500K V 0 389 0 37225 0 3760 0 389 0 355 0 3750-4000K V 0 375 0 3750-4000K	0.338 0.346 0.346 0.346 0.338 HOC 2 0.351 0.351 0.357 0.357 0.357 0.351 JOC X 0.389 0.3792 0.3895	0 347 0 351 0 33825 0 3384 4500-4750K V 0 3425 0 355 0 365 0 3425 4000-4250K 4000-4250K V 0 3425	0.341 0.3475 0.3475 0.3475 0.3475 0.344 H1C x 0.3557 0.3656	0.273 0.277 0.364 0.36 0.36 4500-4750K V 0.389 0.381 0.3845 0.37225 0.386 4000-4250K V 0.385 0.385	0.346 0.363 0.361 0.3445 HOD x 0.36776 0.367 0.36775 JOD x 0.3775 0.3775 0.3795 0.3795	0.361 0.365 0.3425 0.33925 4250-4500K V 0.36625 0.355 0.365	0.349 0.387 0.385 0.3475 0.3475 0.3475 0.3475 0.3625 0.3625 0.363 0.373 0.3625 0.373 0.3625 0.373 0.3625	0.377 0.381 0.388 0.364 4250-4500K V 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K V 0.39 0.406 0.41
0 338 0.3445 0.3445 0.342 0.327 H0A × 0.249 0.351 0.35770 0.3555 0.349 J0A × 0.3665 0.37875 0.37875 0.37875 0.37875 0.37875	0.334 0.33925 0.3225 0.321 4500-4750K V 0.23 0.3425 0.3425 0.3425 0.3425 0.3325 0.333 4000-4250K V 0.28 0.28 0.35 0.35	0.24 0.2475 0.348 0.339 H1A x 0.363 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355	0.38 0.384 0.385 0.347 4500-4750K 0.366 0.398 0.37225 0.389 0.365 4000-4250K V 0.365 0.370 0.390 0.370 0.390 0.390 0.370	O 3445 O 3547 O 349 O 349 O 349 O 3656 O 35776 O 3662 O 357676 O 37676 O 387	0.33925 0.2425 0.3255 4250-4500K V 0.3336 0.34625 0.34625 0.34625 0.350 0.35	0.3475 0.365 0.365 0.346 H1B X 0.38 0.3825 0.37 0.367 0.38 J1B X 0.3825 0.37 0.387 0.387 0.383 0.393 0	0 384 0 389 0 386 0 386 0 381 4250-4500K V 0 389 0 37225 0 3706 0 383 0 369 0 3750-4000K V 0 390 0 390 0 390 0 390 0 390 0 395 0 395 0 395 0 395	0.339 0.3445 0.2445 0.238 HDC x 0.351 0.351 0.351 0.351 0.351 0.305 0.3055	0 347 0 351 0 33928 0 3394 4500-4750K V 0 3426 0 355 0 3425 0 342	0.341 0.347 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.365 0.355 0.355 0.355 0.365	0.273 0.277 0.384 0.38 4500-4750K V 0.388 0.381 0.3845 0.37225 0.388 4000-4250K V 0.385 0.44 0.405 0.39	0.348 0.353 0.351 0.3445 HDD x 0.35775 0.367 0.36775 0.36775 0.3775 0.3775 0.37925 0.37925	0.361 0.365 0.3425 0.33625 4250-4500K V 0.34625 0.365 0.363 0.3625 3750-4000K V 0.365 0.3750-4000K	0.349 0.357 0.355 0.3475  H1D x 0.3626 0.3475  0.3627 0.3625 0.377 0.3625  J1D x 0.363375 0.3676 0.3676 0.3676	0.377 0.381 0.388 0.364  4250-4500K V 0.37225 0.3855 0.3765 0.3765 0.57225  3750-4000K V 0.39 0.405 0.41 0.385
0.338 0.3445 0.343 0.327 H0A X 0.349 0.351 0.30770 0.3555 0.349 J0A X 0.3655 0.349 J0A	0.334 0.33825 0.3255 0.121 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.33 4000-4250K V 0.35 0.35	0.34 0.3475 0.3485 0.3398 H1A X 0.383 0.355 0.3027 0.38 0.355 J1A X 0.3885 0.3716 0.383375	0.38 0.384 0.385 0.347 4500-4750K 0.366 0.398 0.37225 0.389 0.365 4000-4250K V 0.365 0.370 0.390 0.370 0.390 0.390 0.370	0.3445 0.351 0.349 0.343 0.343 0.343 0.3555 0.35775 0.3642 0.3555 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655 0.3655	0.33925 0.2425 0.3255 4250-4500K V 0.3335 0.3255 0.34625 0.34625 0.34625 0.335 0.327 0.335 0.327 0.335 0.327 0.335 0.327 0.350 0.365 0.375 0.375	0.3475 0.365 0.365 0.363 0.346 H1B X 0.38 0.3925 0.37 0.397 0.393 J18 X 0.393 0.393 0.393 0.393 0.393 0.393 0.393	0 384 0 388 0 385 0 385 0 381 4250-4500K V 0 389 0 37225 0 3760 0 389 0 355 0 3750-4000K V 0 375 0 3750-4000K	0.338 0.346 0.346 0.346 0.338 HOC 2 0.351 0.351 0.357 0.357 0.357 0.351 JOC X 0.389 0.3792 0.3895	0 347 0 351 0 33825 0 3384 4500-4750K V 0 3425 0 355 0 365 0 3425 4000-4250K 4000-4250K V 0 3425	0.341 0.3475 0.3475 0.3475 0.3475 0.344 H1C x 0.3557 0.3656	0.273 0.277 0.364 0.36 0.36 4500-4750K V 0.389 0.381 0.3845 0.37225 0.386 4000-4250K V 0.385 0.385	0.346 0.363 0.361 0.3445 HOD x 0.36776 0.367 0.36775 JOD x 0.3775 0.3775 0.3795 0.3795	0.361 0.365 0.3425 0.33925 4250-4500K V 0.36625 0.355 0.365	0.349 0.387 0.385 0.3475 0.3475 0.3475 0.3475 0.3625 0.3625 0.363 0.373 0.3625 0.373 0.3625 0.373 0.3625	0.377 0.381 0.388 0.364 4250-4500K V 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K V 0.39 0.406 0.41
0 338 0.3445 0.3445 0.342 0.327 H0A × 0.249 0.351 0.35770 0.3555 0.349 J0A × 0.3665 0.37875 0.37875 0.37875 0.37875 0.37875	0.334 0.33925 0.3225 0.321 4500-4750K V 0.23 0.3425 0.3425 0.3425 0.3425 0.3325 0.333 4000-4250K V 0.28 0.28 0.35 0.35	0.24 0.2475 0.348 0.339 H1A x 0.363 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355	0.38 0.384 0.3851 0.347 4500-4750K V 0.365 0.398 0.37225 0.369 0.355 4900-4250K V 0.37 0.37 0.37 0.37 0.37 0.37	O 3445 O 3547 O 349 O 349 O 349 O 3656 O 35776 O 3662 O 357676 O 37676 O 387	0.33925 0.3425 0.3255 4250-4500K V 0.3336 0.34625 0.35 0.327 0.3335 3750-4000K V 0.3335 0.327 0.335 0.327 0.355 0.355	0.3475 0.365 0.365 0.346 H1B X 0.38 0.3825 0.37 0.367 0.38 J1B X 0.3825 0.37 0.387 0.387 0.383 0.393 0	0 384 0 389 0 386 0 386 0 381 4250-4500K V 0 389 0 37225 0 3706 0 383 0 369 0 3750-4000K V 0 390 0 390 0 390 0 390 0 390 0 395 0 395 0 395 0 395	0.339 0.3445 0.2445 0.238 HDC x 0.351 0.351 0.351 0.351 0.351 0.305 0.3055	0 347 0 351 0 33928 0 3394 4500-4750K V 0 3426 0 355 0 3425 0 342	0.341 0.347 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.365 0.355 0.355 0.355 0.365	0.273 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3855 0.3725 0.385 4000-4250K V 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385	0.348 0.353 0.351 0.3445 HDD x 0.35775 0.367 0.36775 0.36775 0.3775 0.3775 0.37925 0.37925	0.361 0.365 0.3425 0.33925 4250-4500K V 0.3626 0.355 0.3626 2.355 0.34025 2750-4000K V 0.3625 0.375 0.395	0.349 0.357 0.355 0.3475  H1D x 0.3626 0.3475  0.3627 0.3625 0.377 0.3625  J1D x 0.363375 0.3676 0.3676 0.3676	0.377 0.381 0.388 0.364  4250-4500K V 0.37225 0.3855 0.3765 0.3765 0.57225  3750-4000K V 0.39 0.405 0.41 0.385
0 338 0.3445 0 342 0 327 HOA × 0.249 0.351 0.35772 0.3556 0.349 JOA × 0.3645 0.37427 0.3645 0.37427 0.3645 0.37427 0.3645	0.334 0.33925 0.3225 0.321 4500-4750K V 0.32 0.3425 0.3425 0.3425 0.3425 0.333 4000-4250K V 0.35 0.35 0.35 0.35 0.35 0.35 0.350 0.35	0.34 0.347 0.376 0.339 H1A x 0.363 0.355 0.302 0.38 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383 0.383	0.38 0.384 0.3851 0.247 4500-4750K V 0.385 0.3725 0.399 0.3725 4000-4250K V 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.37 0.395 0.37 0.395	0.3445 0.351 0.349 0.349 0.343 0.342 0.35775 0.342 0.35775 0.342 0.3555 JUB 0.37676 0.367 0.367 0.367 0.37426	0.33925 0.3425 0.33 0.3255 4250-4500K V 0.3336 0.34225 0.35 0.34225 0.35 0.327 0.3335 3750-4000K V 0.355 0.365	0.3475 0.355 0.356 0.356 0.346  H1B  x 0.38 0.3825 0.377 0.39  J1B  x 0.3825 0.377 0.39  J1B  x 0.395 0.395 0.395 0.395 0.395	0 384 0 388 0 385 0 385 0 385 0 385 0 385 0 389 0 37225 0 303 0 389 0 375 0 375 0 39 0 39 0 39 0 39 0 375 0 39 0 39 0 375	0.339 0.346 0.3445 0.338  HOC x 0.361 0.355 0.367 0.357	0 347 0 351 0 33925 0 3394 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 0 36 0 37 0 37 0 37 0 37 0 37 0 37 0 37 0 37	0.341 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3556 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.36275	0.273 0.377 0.364 0.38 4500-4750K V 0.388 0.381 0.3855 0.3725 0.398 4000-4250K V 0.405 0.405 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	0.346 0.353 0.351 0.345 0.367 0.367 0.390 0.397 0.390 0.397 0.397 0.390 0.397	0.361 0.355 0.3425 0.33925 4250-4500K V 0.3625 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.355 0.35	0.349 0.357 0.355 0.3475 0.3475 0.3475 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225  3760-4000K V 0.41 0.39 0.408 0.41 0.385 0.39
0 338 0 3445 0 3445 0 3445 0 342 0 337  HIQA	0.334 0.33825 0.325 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.33 4000-4250K V 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.36 0.37 0.38	0.24 0.247 0.247 0.348 0.339 H1A x 0.363	0.38 0.384 0.385 0.347 4500-4750K V 0.355 0.365 0.365 0.37225 0.365 0.365 4000-4250K V 0.37 0.395 0.37 0.395 0.37 0.395 0.375 0.375 0.375 0.375	O 3445 O 3540 O 349 O 349 O 349 O 349	0.33925 0.2425 0.3256 4250-4500K V 0.3335 0.3255 0.34625 0.34625 0.350 0.350 0.350 0.350 0.350 0.355 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365	O 2475 O 3562 O 3563 O 346  H1B	0 384 0 385 0 385 0 385 0 385 0 385 0 3725 0 3725 0 3760 0 382 0 355 0 3750 0 393 0 375 0 395 0 375 0 395 0 375 0 395 0 375 0 395 0 375 0 395 0	0.339 0.346 0.346 0.338 HDC x 0.351	0 347 0 351 0 33928 0 3394 4590-4750K V 0 3425 0 355 0 34825 0 34825 0 3425 0 3	0.341 0.349 0.3475 0.3475 0.3476 0.3476 0.3476 0.3476 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355	0.273 0.277 0.364 0.38 4500-4750K V 0.288 0.381 0.3845 0.37228 0.386 0.37228 0.385 0.4 0.4 0.495 0.39 0.395 0.395 0.395 0.405 0.39 0.395 0.395	0.346 0.353 0.351 0.3445 HOD x 0.35776 0.367 0.36776 0.36775 0.36775 0.36775 0.37675 0.37675 0.37675 0.37675	0.361 0.365 0.3425 0.33625 4250-4500K V 0.34625 0.365 0.375 0.365 0.375 0.365 0.375 0.3	0.349 0.357 0.385 0.3475  H1D x 0.3626 0.3637 0.37 0.3625 0.373 0.37 0.3625 0.38376 0.44 0.395 0.363376 0.47 0.49 0.400	0.377 0.381 0.382 0.384  4250-4500K V 0.37226 0.3855 0.3786 0.37225  3750-4000K V 0.39 0.406 0.41 0.385 0.39 3250-3500K V 0.4
0 338 0 3445 0 3445 0 342 0 337 H0A X 0 349 0 351 0 30770 0 3555 0 345 0 345 0 3885 0 37425 0 3845 K0A X 0 3845 K0A X 0 387	0.334 0.33825 0.32525 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3235 0.333 4000-4250K V 0.35 0.3	0.24 0.247 0.248 0.348 0.339  H1A  x 0.363 0.355	0.38 0.384 0.385 0.347 4500-4750K V 0.365 0.338 0.37225 0.355 4000-4250K V 0.355 4000-4250K V 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37	0.3445 0.349 0.349 0.349 0.349 0.349 0.3655 0.35775 0.362 0.362 0.3656 0.37675 0.37675 0.37425 0.	0.33925 0.3425 0.3425 0.3255  4250-4500K V 0.3335 0.34025 0.34025 0.34025 0.34025 0.350 0.327 0.3335 0.325 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.364 0.3740	0.3475 0.3563 0.346  H1B	0 384 0 389 0 385 0 385 0 385 0 385 0 387 0 389 0 37225 0 3704 0 383 0 385 0 395 0 395 0 395 0 385	0.339 0.3445 0.3445 0.338  HDC x 0.351 0.351 0.352 0.35776 0.351 0.352 0.3505 0.3625	0 347 0 351 0 33925 0 3394 4500-4750K V 0 3426 0 355 0 375 0 3425 0 3425 1 300-4250K V 0 38 0 375 0	0.341 0.349 0.3475 0.3475 0.34  H1C x 0.365 0.357 0.365 0.357 0.365 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176	0.273 0.277 0.364 0.38 4500-4750K Y 0.388 0.381 0.3840 0.37225 0.388 4000-4250K Y 0.385 0.4 0.405 0.395 0.385	0.346 0.353 0.351 0.345 0.36776 0.36776 0.36776 0.36776 0.3776 0.37775 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776 0.37776	0.361 0.365 0.3425 0.33925 4250-4500K V 0.34625 0.355 0.365 0.34625 3750-4000K V 0.365 0.375 0.365 0.375 0.365 0.3745 0.3355	0.349 0.357 0.355 0.3475 0.3475 0.3475 0.3625 0.3475 0.370 0.3625 0.371 0.370 0.383375 0.383375 0.40 0.383375 0.40 0.40 0.40 0.410	0.377 0.381 0.388 0.364  4250-4500K Y 0.37226 0.3855 0.3765 0.37225  3750-4000K Y 0.39 0.406 0.41 0.385 0.39
0 338 0 3445 0 3445 0 342 0 327 HOA × 0 .249 0 .351 0 .35775 0 .3565 0 .349 JOA × 0 .3645 0 .37425 0 .3845 KOA × 0 .3845 KOA × 0 .3845	0.334 0.33925 0.3225 0.321 4500~4750K V 0.32 0.3425 0.3425 0.3425 0.3425 0.333 4000~4250K V 0.35 0.	0.34 0.347 0.376 0.376 0.376 0.339  H1A  2 0.363 0.355 0.3025 0.3025 0.325 0.325 0.3776 0.383375 0.37826 0.3896  K1A  x 0.390 0.391 0.393 0.395 0.395	0.38 0.384 0.3851 0.247 4500-4750K V 0.385 0.3725 0.399 0.3755 4000-4250K Y 0.37 0.395 0.375	0.3445 0.351 0.349 0.349 0.343 0.342 0.35775 0.342 0.35775 0.342 0.35775 0.342 0.37676 0.387 0.37426 0.37426 0.37426 0.395 0	0.33925 0.3425 0.3425 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.3425 0.355 0.397 0.3335 3750-4000K V 0.355 0.365 0.365 0.365 0.365 0.365 0.365 0.370 0.365 0.370 0.370 0.365 0.370 0.37	0.3475 0.355 0.356 0.356 0.346  H1B  x 0.38 0.3825 0.377 0.39  J1B  x 0.3925 0.377 0.39  X 925 0.379 0.395 0.395 0.37925	0 384 0 388 0 385 0 385 0 385 0 385 0 385 0 385 0 37225 0 37225 0 37225 0 37225 0 37225 0 3725 0 375 0 375 0 375 0 39 0 39 0 39 0 39 0 375 0 39 0 39 0 375 0 39 0 39	0.339 0.346 0.3445 0.338  HOC  x 0.361 0.355 0.367 0.3555 0.3675 0.3685 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695	0 347 0 351 0 33825 0 3394 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 0 36 0 37 0 37 0 37 0 37 0 37 0 37 0 37 0 37	0.341 0.347 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3556 0.3557 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.36275	0.273 0.377 0.364 0.38 4500-4750K V 0.388 0.381 0.3855 0.3725 0.398 4000-4250K V 0.405 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	0.346 0.353 0.351 0.345 0.361 0.345 0.36775 0.38 0.36775 0.3966 0.35775  JOD  K 0.37675 0.39725 0.397 0.37675 0.399 0.403 0.410	0.361 0.355 0.3425 0.33925 4250-4500K V 0.3625 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.355 0.35	0.249 0.357 0.355 0.3475 0.3475 0.3475 0.3475 0.3475 0.3626 0.3626 0.3626 0.3627 0.3627 0.3627 0.3627 0.3627 0.3627 0.3627 0.4 0.363276 0.4 0.363276 0.4 0.400	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3760-4000K V 0.41 0.385 0.39 3250-8500K 0.41 0.415 0.42
0 338 0.3445 0.3445 0.342 0.337  HIGA  x 0.249 0.351 0.35770 0.3555 0.349  JOA  x 0.3645 0.37975 0.3645 0.37975 0.3645 0.37975 0.3846  KIOA  x 0.3847 0.387 0.3994 0.387	0.334 0.33825 0.325 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.36 0.37 0.37 0.37 0.37 0.3745 0.3445 0.38 0.3745 0.38 0.3745 0.38	0.24 0.247 0.2476 0.348 0.339 H1A x 0.363 0.363 0.365 0.3626 0.363 0.3637 0.36300 0.36300 0	0.38 0.384 0.385 0.347 4500-4750K V 0.355 0.398 0.37225 0.389 0.355 4000-4250K V 0.398 0.37 0.395 0.37 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.395 0.37 0.395 0.3	O 3445 O 3540 O 349 O 349 O 349 O 3656 O 35776 O 3602 O 3655 JOB K O 37426 O 384 O 37426 KOB K O 389 O 389	0.33925 0.2425 0.3425 0.3256  4250-4500K V 0.3335 0.3255 0.34625 0.34625 0.350 0.327 0.3335 0.327 0.350 0.365 0.365 0.365 0.365 0.365 0.37 0.36 0.365 0.365 0.37 0.37 0.36 0.365 0.365 0.37 0.37 0.36 0.365 0.365 0.37 0.36	0.3475 0.355 0.353 0.346  H1B	0 384 0 385 0 386 0 386 0 386 0 386 0 386 0 386 0 387 0 389 0 3725 0 3706 0 383 0 380 0 375 0 39 0 395 0 395 0 395 0 396 0 3975 0 396 0 3975 0 3975 0 398 0 3975	0.339 0.346 0.346 0.338  HDC x 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.352 0.3525 0.3	0 347 0 355 0 33928 0 3394 4500-4750K V 0 3425 0 355 0 3455 0 3425 0 3425 0 3425 0 3425 0 3425 0 370 0 37 0 37 0 38 0 37 0 38 0 37 0 38 0 38 0 38 0 38 0 38 0 38 0 38 0 38	0.341 0.349 0.3475 0.3475 0.3475 0.345 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176	0.273 0.277 0.364 0.38 4500-4750K V 0.289 0.381 0.3845 0.37225 0.388 4000-4250K V 0.385 0.4 0.405 0.39 0.385 3500-3750K V 0.395 0.41 0.415 0.45	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.35 0.35775 0.35775 0.35775 0.3775 0.3775 0.3775 0.3775 0.3775 0.3775 0.37925 0.3775 0.37925 0.3	0.361 0.365 0.3425 0.33625 4250-4500K V 0.34625 0.365 0.365 0.365 0.34625 3750-4000K V 0.365 0.375 0.375 0.365 0.375 0.365 0.375	0.349 0.355 0.3475  H1D x 0.3626 0.3475  0.3627 0.3627 0.3627 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.377 0.3628 0.3628 0.470 0.470 0.470 0.470 0.470 0.470 0.470 0.470 0.470 0.470	0.377 0.381 0.382 0.364  4250-4500K V 0.37225 0.3855 0.3765 0.37225  3750-4000K V 0.39 0.405 0.39 0.405 0.39 0.405 0.39 0.405 0.41 0.385 0.39
0 338 0 3445 0 3445 0 342 0 327 HOA × 0 .249 0 .351 0 .35775 0 .3565 0 .349 JOA × 0 .3645 0 .37425 0 .3845 KOA × 0 .3845 KOA × 0 .3845	0.334 0.33925 0.3225 0.321 4500~4750K V 0.32 0.3425 0.3425 0.3425 0.3425 0.333 4000~4250K V 0.35 0.	0.34 0.347 0.376 0.376 0.376 0.339  H1A  2 0.363 0.355 0.3025 0.3025 0.325 0.325 0.3776 0.383375 0.37826 0.3896  K1A  x 0.390 0.391 0.393 0.395 0.395	0.38 0.384 0.3851 0.247 4500-4750K V 0.385 0.3725 0.399 0.3755 4000-4250K Y 0.37 0.395 0.375	0.3445 0.351 0.349 0.349 0.343 0.342 0.35775 0.342 0.35775 0.342 0.35775 0.342 0.37676 0.387 0.37426 0.37426 0.37426 0.395 0	0.33925 0.3425 0.3425 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.3425 0.355 0.397 0.3335 3750-4000K V 0.355 0.365 0.365 0.365 0.365 0.365 0.365 0.370 0.365 0.370 0.370 0.365 0.370 0.37	0.3475 0.355 0.356 0.356 0.346  H1B  x 0.38 0.3825 0.377 0.39  J1B  x 0.3925 0.377 0.39  X 925 0.379 0.395 0.395 0.37925	0 384 0 388 0 385 0 385 0 385 0 385 0 385 0 385 0 37225 0 37225 0 37225 0 37225 0 37225 0 3725 0 375 0 375 0 375 0 39 0 39 0 39 0 39 0 375 0 39 0 39 0 375 0 39 0 39	0.339 0.346 0.3445 0.338  HOC  x 0.361 0.355 0.367 0.3555 0.3675 0.3685 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695 0.3695	0 347 0 351 0 33825 0 3394 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 0 36 0 37 0 37 0 37 0 37 0 37 0 37 0 37 0 37	0.341 0.347 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3556 0.3557 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.36275	0.273 0.377 0.364 0.38 4500-4750K V 0.388 0.381 0.3855 0.3725 0.398 4000-4250K V 0.405 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	0.346 0.353 0.351 0.345 0.361 0.345 0.36775 0.38 0.36775 0.3966 0.35775  JOD  K 0.37675 0.39725 0.397 0.37675 0.399 0.403 0.410	0.361 0.355 0.3425 0.33925 4250-4500K V 0.3625 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.353 0.355 0.35	0.249 0.357 0.355 0.3475 0.3475 0.3475 0.3475 0.3475 0.3626 0.3626 0.3626 0.3627 0.3627 0.3627 0.3627 0.3627 0.3627 0.3627 0.4 0.363276 0.4 0.363276 0.4 0.400	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3760-4000K V 0.41 0.385 0.39 3250-8500K 0.41 0.415 0.42
0 338 0 3445 0 342 0 327 HOA × 0 .249 0 .351 0 .35772 0 .3555 0 .349 JOA × 0 .3645 0 .37975 0 .37425 0 .37426 NOA × 0 .3845 NOA × 0 .3845 NOA NOA NOA NOA NOA NOA NOA NOA	0.334 0.33925 0.3225 0.321 4500-4750K V 0.32 0.3425 0.3425 0.3425 0.3425 0.3425 0.333 4000-4250K V 0.35	0.34 0.347 0.376 0.376 0.339  H1A  2 0.363 0.355 0.3025 0.3025 0.3035 0.355 0.3025 0.3886  K1A  2 0.389 0.389 0.389 0.389 0.38375	0.38 0.384 0.385 0.386 0.386 0.347  4500-4750K V 0.386 0.398 0.37225 0.389 0.395 4000-4250K V 0.386 0.37 0.386 0.37 0.386 0.37 0.386 0.37 0.386 0.37 0.386 0.37 0.386 0.37 0.386 0.39 0.375 0.386 0.39 0.375 0.387	0.3445 0.351 0.349 0.349 0.343 0.343 0.3555 0.35775 0.302 0.3555 0.37676 0.387 0.37426 0.389	0.33925 0.3425 0.33 0.3255 4250-4500K V 0.3336 0.3425 0.34 0.3425 0.35 0.327 0.3335 3750-4000K V 0.355 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.37 0.36 0.37 0.36 0.37 0.37 0.36 0.37	0.3475 0.355 0.355 0.346  H1B	0 384 0 389 0 385 0 385 0 385 0 385 0 385 0 389 0 37225 0 3100 0 389 0 375 0 375 0 375 0 39 0	0.339 0.346 0.3445 0.338 0.346 0.338 0.350 0.351 0.350 0.35776 0.350 0.35076 0.3505 0.3605 0.	0 347 0 351 0 33925 0 3394 4500-4750K V 0 3426 0 355 0 3425 0 3425 4000-4250K V 0 34 0 35 0 3425 0 3	0.341 0.349 0.3475 0.3475 0.3475 0.345 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176	0.273 0.377 0.364 0.38 4500-4750K V 0.388 0.381 0.3855 0.3725 0.398 4000-4250K V 0.405 0.39 0.395 0.395 0.41 0.415 0.4 0.385	0.346 0.363 0.361 0.361 0.3645 0.36776 0.30 0.30776 0.308 0.30776 0.309 0.30776 0.309 0.30776 0.309 0.30776 0.309 0.30976 0.30	0.361 0.355 0.3425 0.3425 0.33825  4250-4500K V 0.34625 0.355 0.365 0.365 0.365 0.365 0.3750-4000K V 0.365 0.3750-4000K V 0.3750-4000K 0.375 0.390 0.3745 0.391 0.3745 0.399 0.3745	0.349 0.357 0.355 0.3475 0.3475 0.3475 0.3475 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.40 0.3625 0.40 0.3625 0.40 0.3625 0.40 0.400 0.400 0.400 0.400 0.400 0.400 0.400 0.400	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225  3750-4000K V 0.41 0.385 0.39 0.406 0.41 0.385 0.39 0.406 0.41 0.410 0.42 0.405 0.4
0 338 0.3445 0.3445 0.342 0.327  H0A  X 0.249 0.351 0.36770 0.3555 0.349  JOA  X 0.3865 0.37972 0.37420 0.3845  M0A  X 0.2847 0.387 0.37420 0.3845  LOA  X 0.387	0.334 0.33925 0.321  4500-4750K 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.3	0.34 0.347 0.348 0.339  H1A x 0.363 0.353 0.355 0.352 0.352 0.353  J1A x 0.3685 0.37176 0.388975 0.3885 0.37176 0.388975 0.3885 0.37176 0.388975 0.3885	0.38 0.384 0.3851 0.347 4500-4750K V 0.385 0.398 0.37225 0.389 0.355 4000-4250K V 0.389 0.37235 0.399 0.355 4000-4250K V 0.37 0.385 0.39 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.385 0.385 0.385 0.385	0.3445 0.349 0.349 0.349 0.349 0.349 0.349 0.3656 0.35775 0.362 0.3656 0.35765 0.37676 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.382 0.37425 0.383 0.343 0.37425 0.384 0.37425 0.385 0.4111 0.408	0.33925 0.2425 0.3425 0.3255 4250-4500K V 0.3335 0.34625 0.34625 0.34625 0.34625 0.34625 0.355 0.365 0.375 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.37 0.37 0.385 0.37 0.37 0.37 0.37 0.385 0.37 0.37 0.37 0.37 0.35 0.37 0.35 0.37 0.35 0.37 0.35 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.364 0.37 0.37 0.364 0.37 0.364 0.37 0.37 0.37 0.364 0.37	0.2475 0.355 0.353 0.346  H1B	0 384 0 385 0 386 0 386 0 386 0 386 0 386 0 386 0 387 0 389 0 3725 0 3706 0 383 0 380 0 375 0 39 0 395 0 395 0 395 0 396 0 3975 0 396 0 3975 0 3975 0 398 0 3975	0.339 0.346 0.346 0.338  HDC x 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.352 0.3525 0.3	0 347 0 351 0 33925 0 3394 4500-4750K V 0 3426 0 355 0 359 0 3425 0 3425 0 3425 0 3425 0 335 0 3425 0 3425	0.341 0.347 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3575 0.3575 0.3575 0.3575 0.3575 0.37176 0.387375 0.387375 0.387375 0.37176  K1C  x 0.391375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375 0.387375	0.273 0.377 0.364 0.38 4500-4750K V 0.389 0.381 0.3845 0.391 0.3855 0.40 0.405 0.49 0.395 0.395 0.49 0.495 0	0.346 0.353 0.351 0.3445 HOD x 0.35776 0.367 0.36776 0.36775 0.36775 0.36775 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675	0.361 0.365 0.3425 0.33925 4259-4500K V 0.34625 0.355 0.365 0.365 0.365 0.365 0.3750-4000K V 0.365 0.3750-4000K V 0.365 0.375 0.385 0.375 0.385 0.3745	0.349 0.357 0.365 0.3475  H1D x 0.3625 0.3475 0.373 0.377 0.3625  J1D x 0.383375 0.470 0.490 0.490 0.490 0.493 0.493 0.493	0.377 0.381 0.388 0.384 0.388 0.364  4250-4500K V 0.37225 0.3835 0.3765 0.37225  3750-4000K V 0.39 0.405 0.39 0.405 0.39 0.405 0.39 0.405 0.41 0.385 0.39
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0 338 0.3445 0.3445 0.342 0.337  HIGA	0.334 0.33825 0.2255 0.321 4500-4750K Y 0.23 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.33 4000-4250K Y 0.35	0.24 0.2475 0.348 0.348 0.339  H1A  x 0.363 0.355 0.352 0.382 0.383 0.353  J1A  x 0.3686 0.37178 0.38372 0.3885 0.38375 0.3885 0.3885 0.3885 0.3885 0.3885 0.3885 0.3885	0.38 0.384 0.385 0.387 0.347  4500-4750K Y 0.355 0.338 0.37225 0.355 4000-4250K Y 0.355 4000-4250K Y 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.39 0.37 0.37 0.385 0.39 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.3445 0.349 0.349 0.349 0.349 0.349 0.349 0.3656 0.35775 0.362 0.362 0.37676 0.37676 0.362 0.37425 0.37425 0.37425 0.37425 0.37425 0.3850 0.37425 0.3850 0.3850 0.3850 0.3850 0.406 0.3850 0.406 0.3850 0.406 0.3850 0.406 0.3850 0.406 0.3850	0.33925 0.2425 0.3425 0.3255 0.3255  4250-4500K V 0.3335 0.3265 0.34625 0.34625 0.335 0.327 0.3335 0.327 0.3335 0.327 0.3355 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.370 0.365 0.370 0.365 0.370 0.365 0.370 0.365 0.370 0.365 0.370 0.365 0.370 0.365 0.3745 0.379 0.366 0.3745 0.379 0.368 0.368	0.3475 0.3563 0.346  H1B	0 384 0 389 0 386 0 387 0 389 0 386 0 375 0 389 0 386 0 375 0 389 0 386 0 375 0 389 0 386 0 375 0 389 0 386	0.339 0.346 0.346 0.2445 0.338  HDC x 0.351	0 347 0 351 0 33928 0 3394 4500-4750K V 0 3426 0 355 0 3425 0 345 0	0.341 0.347 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.355 0.3557 0.3556 0.3557 0.3556 0.3557 0.37176	0.273 0.277 0.364 0.38 4500-4750K V 0.388 0.381 0.3855 0.37225 0.398 4000-4250K V 0.385 0.4 0.405 0.395 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.435 0.41700	0.346 0.353 0.381 0.345 0.361 0.345 0.36776 0.36 0.36776 0.36 0.36775 0.37926 0.37926 0.37926 0.37926 0.37926 0.387 0.37676 0.3999 0.403 0.416 0.3999 0.403 0.411 0.3999 0.403 0.411 0.3999	0.361 0.355 0.3425 0.3425 0.33625  4250-4500K V 0.34625 0.355 0.363 0.35 0.3625 0.3625 0.3625 0.365 0.365 0.3750-4000K V 0.365 0.370 0.38 0.37 0.365 0.3745 0.385 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745	0.249 0.257 0.257 0.257 0.257 0.257 0.257 0.257 0.257 0.257 0.367 0.367 0.37 0.367 0.37 0.367 0.37 0.387 0.37 0.387 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.3765 0.3765 0.37225  3750-4000K V 0.39 0.405 0.41 0.415 0.42 0.405 0.4  2750-3000K V 0.47 0.43500
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0 338 0 3445 0 3445 0 3445 0 3445 0 348 0 327  HIQA	0.334 0.33825 0.321  4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3325 0.335 0.35 0.35 0.35 0.35 0.35 0.36 0.37 0.37 0.3745 0.38 0.37 0.37 0.37 0.37 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38	0.24 0.247 0.2478 0.348 0.339  H1A  x 0.363 0.36	0.38 0.384 0.385 0.347  4500-4750K V 0.355 0.368 0.37225 0.259 0.355 0.355 0.355 0.3700 0.371 0.380 0.375 0.381 0.382 0.375 0.388 0.388 0.375 0.388	O 3445 O 3549 O 349 O 349 O 349 O 349 O 3655 O 35775 O 362 O 3655 O 357676 O 362 O 37425 O 37425 O 37426 O 398 O 37426 O 398 O 398 O 399 O 411 O 406 O 398 O 411 O 406 O 398 O 412 O 0 4120 O 0 4120 O 0 4120 O 0 42720	0.33925 0.2425 0.3425 0.3256 0.3256 0.3256 0.3256 0.3325 0.34625 0.34625 0.34625 0.350 0.327 0.335 0.365 0.365 0.365 0.366 0.366 0.366 0.374	O 2475 O 3562 O 3563 O 3563 O 346  H1B	0 384 0 289 0 365 0 365 0 365 0 365 0 3725 0 3700 0 382 0 3750 0 376 0 383 0 376 0 397 0 398 0 376 0 398 0 376 0 398 0 388 0 388 0 3	0.339 0.346 0.346 0.348 0.348 0.351	0 347 0 351 0 33928 0 3394 4500-4750K V 0 3426 0 355 0 3425 0 345 0	0.341 0.349 0.3475 0.3475 0.3475 0.3475 0.3476 0.3476 0.3550 0.35	0.273 0.277 0.364 0.38 4500-4750K V 0.389 0.381 0.3855 0.385 0.41 0.4950 0.41 0.385 0.41 0.385 0.41 0.385 0.41 0.385 0.41 0.385 0.41 0.385 0.41 0.415 0.41 0.385 0.41 0.415 0.41 0.385	0.346 0.353 0.381 0.3445  HOD  X 0.35776 0.390 0.36775 0.390 0.36775 0.37926 0.37675 0.37926 0.403 0.411 0.339  L1C  X 0.42760 0.44375	0.361 0.365 0.3425 0.3425 0.33825  4250-4500K V 0.34625 0.355 0.34625 0.355 0.34625 2750-4000K V 0.376 0.365 0.376 0.365 0.377 0.366 0.377 0.366 0.377 0.367 0.3745 0.383 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749 0.3749	0.349 0.355 0.3475  H1D x 0.3626 0.3475  0.3637 0.377 0.3625 0.377 0.3625 0.377 0.3625 0.377 0.3625 0.475 0.475 0.475 0.475 0.475 0.475 0.495 0.	0.377 0.381 0.382 0.384 0.388 0.384  4250-4500K V 0.37225 0.3855 0.3785 0.3785 0.37225  3750-4000K V 0.39 0.405 0.39 0.405 0.39 3250-3500K V 0.415 0.42 0.405 0.4  2750-3000K V 0.417 0.42500 0.43700 0.43700 0.43700 0.41700 0.41700
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0 338 0.3445 0.3445 0.342 0.327  H0A x 0.249 0.351 0.37770 0.3555 0.349  J0A x 0.3665 0.37875 0.37875 0.37875 0.37875 0.37875 0.37875 0.37875 0.37875 0.37875 0.37875 0.3884  K0A x 0.3884 L0A x 0.49000 0.41250 0.40500 0.40500	0.334 0.3325 0.321  4500-4750K  V 0.23 0.3425 0.3425 0.3425 0.3425 0.3425 0.333  4000-4250K V 0.33 0.365 0.36 0.365	0.34 0.347 0.346 0.339  H1A x 0.368 0.339  J1A x 0.368 0.355 0.3027 0.388 0.357 0.3889 0.357 0.3889 0.3589	0.38 0.384 0.385 0.387 0.347  4500-4750K V 0.385 0.398 0.37225 0.389 0.37225 0.389 0.355  4000-4250K V 0.385 0.395 0.3725 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.387 0.37050 0.37050 0.37050 0.37050	0.3445 0.361 0.349 0.343 0.343 0.343 0.343 0.3656 0.35775 0.3042 0.362 0.3555  JOB  X 0.37425 0.37676 0.337 0.384 0.37426 0.37676 0.385 0.37426 0.385 0.411 0.408 0.395 0.411 0.408 0.408 0.408 0.41250 0.41250 0.41250 0.41250	0.3325 0.2425 0.3425 0.3425 0.3255  4250-4500K V 0.3336 0.34625 0.34625 0.34625 0.34625 0.34625 0.34625 0.365 0.365 0.375 0.365 0.375 0.365 0.3740 0.3740 0.3740 0.379 0.368 0.3740 0.3740 0.379 0.369 0.364 0.3745 0.379 0.365 0.3745 0.379 0.365 0.3745 0.379 0.365 0.3745 0.3750 0.38475 0.38250 0.387700 0.38475 0.38250	0.2475 0.365 0.365 0.365 0.346  H1B	0 384 75 0 38475 0 38475 0 38475 0 38475 0 38475 0 38475	0.339 0.346 0.3465 0.3465 0.338  HDC x 0.351 0.351 0.352 0.357 0.351 0.352 0.362 0.3637 0.3636 0.3637 0.3637 0.3636 0.3637 0.3637 0.3636 0.3637 0.363	0 347 0 351 0 33925 0 3394 4500-4750K 0 3426 0 355 0 3425	0.341 0.349 0.3475 0.3475 0.347 0.346 0.3575 0.357 0.355 0.355 0.355 0.355 0.355 0.3575 0.365 0.38375 0.37176 0.37176 0.3875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875 0.4875	0.273 0.377 0.384 0.38 0.384 0.38 0.381 0.385 0.381 0.3850 0.37225 0.398 0.391 0.3850 0.4 0.405 0.495 0.395 0.41 0.415 0.4 0.415 0.4 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395 0.4100 0.399	0.346 0.353 0.351 0.345  0.361 0.36776 0.36 0.36776 0.368 0.36775 0.368 0.36775 0.37926 0.3792	0.361 0.365 0.3425 0.3425 0.3325  4250-4500K V 0.34625 0.355 0.355 0.34625 3750-4000K V 0.365 0.376 0.38 0.376 0.38 0.376 0.38 0.376 0.39 0.3745 0.390 0.3745 0.390 0.3745 0.385 0.39 0.3745 0.390 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500	0.249 0.257 0.255 0.2475 0.265 0.3475 0.265 0.365 0.365 0.373 0.372 0.3625 0.373 0.3875 0.4 0.383375 0.4 0.490 0.493 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.4375	0.377 0.381 0.388 0.364  4250-4500K V 0.37226 0.3855 0.37225 0.3855 0.37225  3750-4000K V 0.410 0.406 0.41 0.42 0.406 0.41 0.42 0.406 0.41 0.42 0.406 0.41 0.415 0.42 0.406 0.41 0.417 0.435700 0.417 0.435700 0.417
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0 338 0.3445 0.3445 0.342 0.337  HIQA  X 0.249 0.357 0.3555 0.345 0.3655 0.345 0.3685 0.37972 0.3845  MOA  X 0.3845  MOA  X 0.40000 0.41250 0.42725 0.42000 0.40000 0.40000 0.40000	0.334 0.33925 0.32125 0.321  4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.3	0.34 0.346 0.339  H1A x 0.368 0.339  H1A x 0.363 0.355 0.3521 0.382 0.3521 0.382 0.3021 0.383 0.353  J1A x 0.3686 0.37176 0.383375 0.3886 0.37176 0.3887 0.3886 0.3981 0.4000 0.40000 0.40000 0.40000 0.40000 0.40000 0.40000	0.38 0.384 0.385 0.387 0.347  4500-4750K 0.365 0.338 0.37225 0.355 4000-4250K V 0.355 4000-4250K V 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385	0.3445 0.349 0.349 0.349 0.349 0.349 0.349 0.3656 0.35775 0.362 0.35656 0.35775 0.362 0.37676 0.37425 0.37425 0.37425 0.37425 0.37425 0.37426 0.3850 0.411 0.406 0.406 0.4120 0.4120 0.4120 0.4120 0.4120 0.4120 0.4120 0.4120	0.33925 0.2425 0.3425 0.3425 0.3255  4250-4500K V 0.3336 0.34925 0.34925 0.34925 0.34925 0.350 0.327 0.3335 0.3250 0.370 0.364 0.3740 0.379 0.364 0.3740 0.379 0.380 0.364 0.3740 0.379 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250 0.38475 0.38250	0.2475 0.355 0.355 0.346  H1B	0 384 75 0 38475 0 38325 0 40300 0 403	0.339 0.346 0.346 0.2445 0.338  HDC x 0.351 0.351 0.355 0.350 0.35776 0.351 0.3525 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.37925 0.3895 0.4793 0.4890 0.4897 0.4797 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890 0.4890	0 347 0 351 0 33925 0 3394 4500-4750K V 0 3425 0 3355 0 3425 0 34525 0 3425 0 3425 0 3425 0 3425 0 3425 0 3425 0 3425 0 3425 0 34525 0 3425 0 3475 0 38 0 37 0 37 0 375 0 38 0 37 0 37 0 375 0 38 0 37 0 37 0 37 0 37 0 37 0 37 0 37 0 37	0.341 0.349 0.3475 0.3475 0.3476 0.3476 0.3476 0.3476 0.3656 0.3576 0.3576 0.3576 0.37176 0.37	0.273 0.277 0.364 0.38 0.381 0.385 0.381 0.385 0.381 0.3850 0.37226 0.388 4000-4250K Y 0.385 0.40 0.405 0.395 0.41 0.415	0.346 0.353 0.381 0.345 0.36776 0.30 0.36776 0.30 0.36776 0.30 0.36776 0.37926 0.37926 0.37926 0.37926 0.37926 0.37926 0.389 0.37676 0.389 0.493 0.416 0.411 0.399 0.493 0.416 0.411 0.399 0.493 0.416 0.417 0.4570 0.45700 0.45700 0.45700	0.361 0.355 0.3425 0.3425 0.33825  4250-4500K V 0.34625 0.355 0.365 0.365 0.365 0.365 0.375 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.385 0.3745 0.41500 0.41500 0.41500 0.43700 0.43700 0.43700 0.43700 0.43700 0.43700	0.249 0.257 0.257 0.257 0.257 0.257 0.267 0.2475 0.3625 0.373 0.377 0.3625 0.373 0.377 0.3625 0.470 0.490 0.490 0.490 0.490 0.490 0.49370 0.49	0.377 0.381 0.368 0.364  4250-4500K Y 0.37225 0.3855 0.37225 0.3855 0.37225  3750-4000K Y 0.39 0.405 0.41 0.42 0.405 0.4 0.410 0.42 0.405 0.4 0.417 0.43500 0.4170 0.4270 0.43900 0.4170 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.4110 0.421 0.43900 0.44100 0.4410
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Note: It maintains a tolerance of x, y ±0.005



Part Number: 62-217BSW1C1

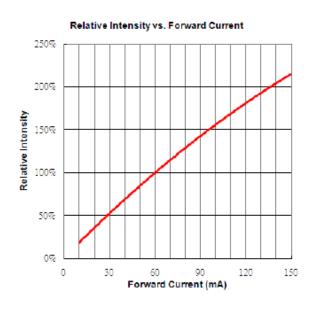
## **CIE Chromaticity Diagram**

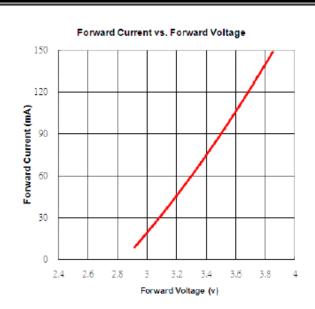


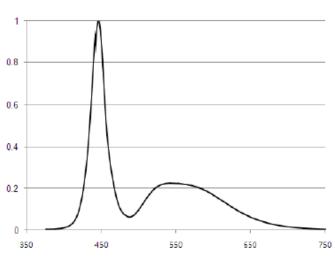
## 4-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

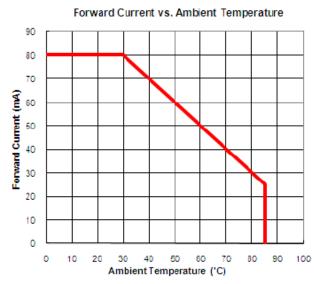
Part Number: 62-217BSW1C1

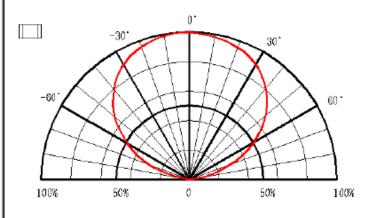
## Typical Electro-Optical Characteristic Curves

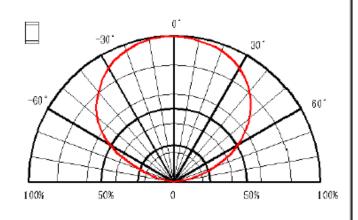










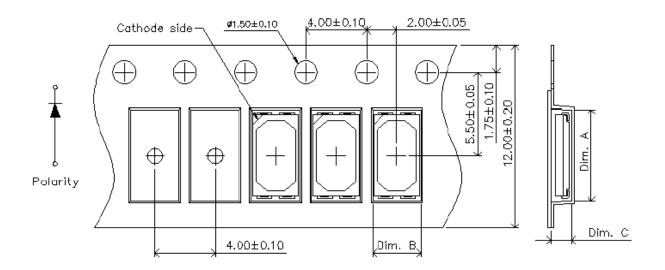


# A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C1

## Packaging Tape, Reel, and Packing Model

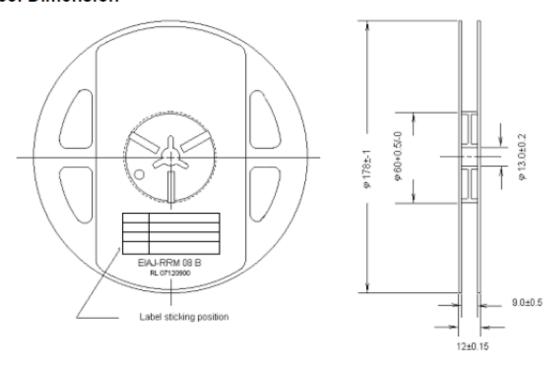
### **Tape Dimension**



Part No.	Dim. A	Dim. B	Dim. C	Q'ty/Reel
HT-T5301	6.0±0.1	3.2±0.1	1.1±0.1	2K

Unit: mm

#### **Reel Dimension**



## A-BRIGHT INDUSTRIAL CO., LTD. SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C1

#### **Precautions For Use**

#### 1. Over-current proof

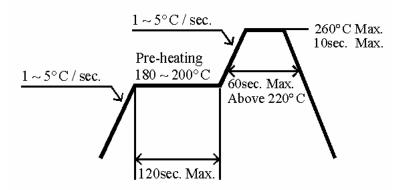
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

#### 2. Storage

- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the LEDs should be kept at 30°C or less and 90%RH or less.
- 2.3 The LEDs should be used within a year.
- 2.4 After opening the package, the LEDs should be kept at 30°C or less and 70%RH or less.
- 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
- 2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment : 60±5°C for 24 hours.

### 3. Soldering Condition

3.1 Pb-free solder temperature profile



- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

#### 4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280°C for 3 seconds within once in less than soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.