

Harvatek Surface Mount LEDs Approval Sheet Model No.: HT-T5301DND-A2

Acknowledged by

Section Manager

Production Engineering Dept.

Manager

Production Engineering Dept.

Official Product	HT Part No. HT-T5301DND	Your Part No.		Data Sheet No.
Tentative Product	*******	******		HT-F690
	ect to changes for improvement Proprietary data, drawings, company erved.	02/27/2012	Version of 1.0	Page 1/16



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Introduction

- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by HARVATEK for any infringements of intellectual property or other rights of the third parties which may result from it use.
- Harvatek is continually effort to improve the quality of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing HARVATEK products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such HARVATEK products cause loss of human life, bodily injury or damage to property.
- The HARVATEK products listed in this document are intended for usage in general electronics (computer, personal equipment, office equipment, industrial robotics, domestic, etc...) These products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury.
- In developing your designs, please ensure that HARVATEK products are used within specified operating ranges as set forth in the most recent HARVATEK products specifications.
- Also, please keep in mind the precautions listed in this document.

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Product Specification

	Specification	Material	Quantity
lv	42~55lm		
	@150mA / Ta= 25 ^o C		
	Tolerance±10%		
Chromaticity	Refer to page 6~7		
Coordinates			
(Correlated Color	@150mA / Ta= 25 ^o C		
Temperature)	Tolerance x, y± 0.005		
Vf	2.8-3.5V (0.1V/bin)		
	@150ma per chip / Ta= 25 ^o C		
	Tolerance±0.05V		
Color Rendering	Pure White: ≥80		
Index (CRI)	@150Ma/ Ta=25℃		
Resin	White	PPA	
Carrier tape	According to EIA 481-1A specs	Conductive black tape	2000pcs per reel
Reel	According to EIA 481-1A specs	Conductive black	
Label	HT standard	Paper	
Packing bag	220x240mm	Aluminum laminated bag/	One reel one bag
		no-zipper	
Carton	HT standard	Paper	Non-specified

Others:

Every mid-box will be loaded 5 reels. These 5 reels can be different in lot, lv, lambda, or Vf. Every reel will have an independent label to identify its specification and the mid-box there will have a corresponding label post on it.

ATTENTION: Electric static Discharge (ESD) protection



The symbol shown on the page herein to introduce 'Electro-Optical Characteristics'. ESD protection for GaP and AlGaAs is based chips is still necessary even though they are safe in low static-electric discharge. Material in AllnGaP, GaN, or/and InGaN based chips are **STATIC SENSITIVE devices**.

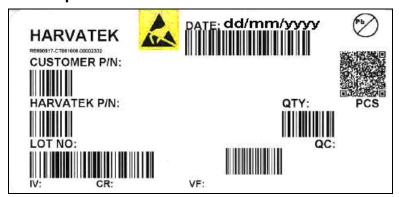
ESD protection has to considered and taken in the initial design stage.

If manual work/process is needed, please ensure the device is well protective from ESD during all the process.

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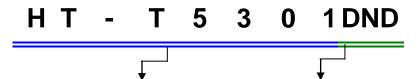


Label Spec.:



■Customer P/N: To Be Defined

Harvatek P/N



Series Name	Emitting Color		
HT-T5301: 5.7x3.0x0.9mm	CRI:		
	Pure White: ≧80		
Single chip	Each chip @ 150Ma		

Lot No.

1 2	3	4	5	6	7	8	9	10
E 1	Α	1	Α	2	2	L	1	2
Code 1 2	Code 3	Code 4	Code 5	Code 6	Code 7	Code 8	Code 9	Code 10
	Mfg. Year	Mfg. Month	Mfg. Date	Consecuti	ve number		Special code	
Internal Tracing Code	2010-A 2011-B 2012-C 2013-D	1:Jan. 2:Feb. A:Oct. B:Nov. C:Dec.	1:A 2:B 3:C 26:Z 27:7 28:8 29:9 30:3 31:4	01-	~ZZ		000~ZZZ	

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Bin Code.

■ Iv Bin:

Color	Bin Code	Spec. Range
	RA1	39.8~42.5lm
	RB1	42.5~45.3lm
White	RC2	45.3~48.4lm
	RD2	48.4~51.7lm
	SA3	51.7~55.21lm

Luminous Intensity Measurement Allowance is ±10%

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Color Rank:

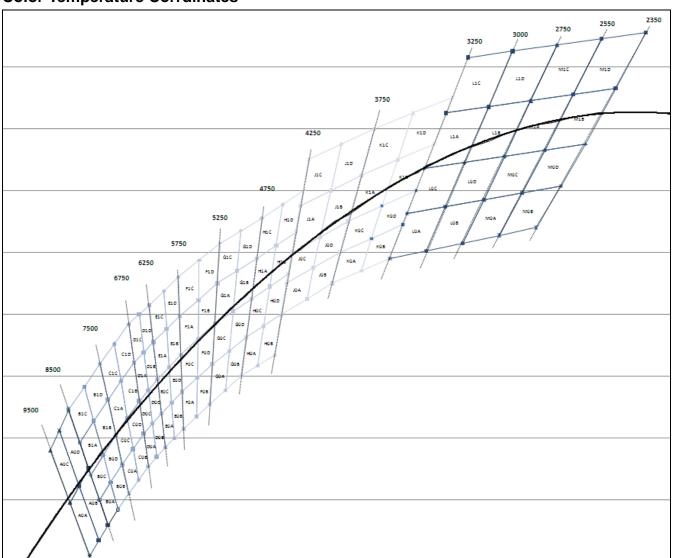
B0A	8000~8500K	B1A	8000~8500K	B0B	7500~8000k	B1B	7500~8000k	B0C	8000~8500k	B1C	8000~8500k	B0D	7500~8000k	B1D	7500~8000k
×	V	X	V	x	V	×	V	X	V	×	V	X	V	×	V
0.298	0.282	0.2915	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.292625	0.315565
0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.292625	0.315565	0.2915	0.298	0.283	0.31926	0.29625	0.3045	0.289	0.32663
0.299125	0.29575	0.292625	0.315565	0.3035	0.3015	0.298	0.3225	0.29625	0.3045	0.289	0.32663	0.301	0.311	0.295	0.334
0.302	0.287	0.29625	0.3045	0.306	0.292	0.301	0.311	0.299125	0.29575	0.292625	0.315565	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	0.30863	0.299125	0.29575	0.292625	0.315565
0.250	0.202	0.2313	0.250	0.302	0.201	0.25025	0.3043	0.2540	0.25	0.20123	0.30003	0.255125	0.25515	0.252025	0.515565
C0A	7000~7500K	C1A	7000~7500K	COB	6750~7000K	C1B	6750~7000K	COC	7000~7500K	C1C	7000~7500K	COD	6750~7000K	C1D	6750~7000K
×	V	х	v	х	у	x	У	х	V	x	V	x	V	х	V
													0.0005		_
0.306	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	0.307625	0.3065	0.303	0.3285	0.301	0.311	0.295	0.334	0.3055	0.3165	0.3005	0.3405
0.307625	0.3065	0.303	0.3285	0.31175	0.3115	0.308	0.3345	0.3055	0.3165	0.3005	0.3405	0.31	0.322	0.306	0.347
0.30975	0.2965	0.3055	0.3165	0.3135	0.301	0.31	0.322	0.307625	0.3065	0.303	0.3285	0.31175	0.3115	0.308	0.3345
0.306	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
D0A	6500~6750K	D1A	6500~6750K	D0B	6250~6500K	D1B	6250~6500K	D0C	6500~6750K	D1C	6500~6750K	DOD	6250~6500K	D1D	6250~6500K
×	У	Х	У	X	У	X	У	X	У	X	У	X	У	X	У
0.3135	0.301	0.31	0.322	0.3167	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	0.31	0.322	0.306	0.347	0.3135	0.3255	0.31	0.35
									0.3255				0.329	0.314	
0.3151	0.31475	0.31175	0.33775	0.3185	0.318	0.3155	0.341	0.3135		0.31	0.35	0.317			0.353
0.3167	0.304	0.3135	0.3255	0.32	0.307	0.317	0.329	0.3151	0.31475	0.31175	0.33775	0.3185	0.318	0.3155	0.341
0.3135	0.301	0.31	0.322	0.3167	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
E0.5	ennow encour	E47	ennow eccou	END	E7E0. 000010	E4D	E7E0. 000016	Enc	COUNTY COSCUL	E40	connic cocon	END	E7E0. 000010	E4P	E7E0- 000016
E0A	6000K~6250K	E1A	6000K~6250K	E0B	5750~6000K	E1B	5750~6000K	E0C	6000K~6250K	E1C	6000K~6250K	EOD	5750~6000K	E1D	5750~6000K
X	У	X	У	X	У	X	У	X	У	X	У	X	У	X	У
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	0.3155	0.341	0.3225	0.3215	0.3205	0.34525	0.317	0.329	0.314	0.353	0.3215	0.333	0.3195	0.3575
0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3255	0.3495	0.3215	0.333	0.3195	0.3575	0.326	0.337	0.325	0.362
0.3235	0.31	0.3215	0.333	0.327	0.313	0.326	0.337	0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3255	0.3495
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
		2.211		2.5200			2.200	2.3100		2.2100				2.0200	
F0A	5500~5750K	F1A	5500~5750K	FOB	5250~5500K	F1B	5250~5500K	F0C	5500~5750K	F1C	5500~5750K	FOD	5250~5500K	F1D	5250~5500K
X	у	Х	У	Х	у	X	у	Х	У	Х	у	X	У	Х	У
0.327	0.313	0.326	0.337	0.332	0.317	0.3325	0.342	0.3265	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475
0.3265	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475	0.326	0.337	0.325	0.362	0.3325	0.342	0.333	0.3675
0.33225	0.3295	0.33275	0.35475	0.338	0.334	0.34	0.36	0.3325	0.342	0.333	0.3675	0.339	0.347	0.341	0.373
0.332	0.317	0.3325	0.342	0.337	0.321	0.339	0.347	0.33225	0.3295	0.33275	0.35475	0.338	0.334	0.34	0.36
0.327	0.313	0.326	0.337	0.332	0.317	0.3325	0.342	0.3265	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475
0.327	0.313	0.326	0.331	0.332	0.317	0.3325	0.342	0.3263	0.323	0.3233	0.3483	0.33223	0.3283	0.33213	0.35475
G0A	5000K~5250K	G1A	5000K~5250K	G0B	4750~5000K	G1B	4750~5000K	G0C	5000K~5250K	G1C	5000K~5250K	G0D	4750~5000K	G1D	4750~5000K
x	У	х	У	х	У	X	У	х	V	X	У	X	У	X	У
0.337	0.321	0.339	0.347						0.334			0.3445			
0.337	0.321	0.339	0.347	0.343	0.3255	0.346	0.351	0.338	0.334	0.34	0.36	0.3445	0.33825	0.3475	0.364
0.338	0.334	0.34	0.36	0.343 0.3445	0.3255 0.33825	0.346 0.3475	0.351 0.364	0.338 0.339	0.347	0.34 0.341	0.36 0.373	0.346	0.33825 0.351	0.3475 0.349	0.364 0.377
				0.343	0.3255	0.346	0.351	0.338		0.34	0.36		0.33825	0.3475	0.364
0.338 0.3445	0.334 0.33825	0.34 0.3475	0.36 0.364	0.343 0.3445 0.351	0.3255 0.33825 0.3425	0.346 0.3475 0.355	0.351 0.364 0.368	0.338 0.339 0.346	0.347 0.351	0.34 0.341 0.349	0.36 0.373 0.377	0.346 0.353	0.33825 0.351 0.355	0.3475 0.349 0.357	0.364 0.377 0.381
0.338 0.3445 0.343	0.334 0.33825 0.3255	0.34 0.3475 0.346	0.36 0.364 0.351	0.343 0.3445 0.351 0.349	0.3255 0.33825 0.3425 0.33	0.346 0.3475 0.355 0.353	0.351 0.364 0.368 0.355	0.338 0.339 0.346 0.3445	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475	0.36 0.373 0.377 0.364	0.346 0.353 0.351	0.33825 0.351 0.355 0.3425	0.3475 0.349 0.357 0.355	0.364 0.377 0.381 0.368
0.338 0.3445	0.334 0.33825	0.34 0.3475	0.36 0.364	0.343 0.3445 0.351	0.3255 0.33825 0.3425	0.346 0.3475 0.355	0.351 0.364 0.368	0.338 0.339 0.346	0.347 0.351	0.34 0.341 0.349	0.36 0.373 0.377	0.346 0.353	0.33825 0.351 0.355	0.3475 0.349 0.357	0.364 0.377 0.381
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321	0.34 0.3475 0.346	0.36 0.364 0.351 0.347	0.343 0.3445 0.351 0.349	0.3255 0.33825 0.3425 0.33 0.3255	0.346 0.3475 0.355 0.353	0.351 0.364 0.368 0.355 0.351	0.338 0.339 0.346 0.3445	0.347 0.351 0.33825 0.334	0.34 0.341 0.349 0.3475 0.34	0.36 0.373 0.377 0.364 0.36	0.346 0.353 0.351	0.33825 0.351 0.355 0.3425 0.33825	0.3475 0.349 0.357 0.355	0.364 0.377 0.381 0.368 0.364
0.338 0.3445 0.343	0.334 0.33825 0.3255	0.34 0.3475 0.346	0.36 0.364 0.351	0.343 0.3445 0.351 0.349	0.3255 0.33825 0.3425 0.33	0.346 0.3475 0.355 0.353	0.351 0.364 0.368 0.355	0.338 0.339 0.346 0.3445	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475	0.36 0.373 0.377 0.364	0.346 0.353 0.351	0.33825 0.351 0.355 0.3425	0.3475 0.349 0.357 0.355	0.364 0.377 0.381 0.368
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321 4500~4750K	0.34 0.3475 0.346 0.339	0.36 0.364 0.351 0.347	0.343 0.3445 0.351 0.349 0.343	0.3255 0.33825 0.3425 0.33 0.3255 4250~4500K	0.346 0.3475 0.355 0.353 0.346	0.351 0.364 0.368 0.355 0.351 4250~4500K	0.338 0.339 0.346 0.3445 0.338	0.347 0.351 0.33825 0.334 4500~4750K	0.34 0.341 0.349 0.3475 0.34	0.36 0.373 0.377 0.364 0.36	0.346 0.353 0.351 0.3445	0.33825 0.351 0.355 0.3425 0.33825 4250~4500K	0.3475 0.349 0.357 0.355 0.3475	0.364 0.377 0.381 0.368 0.364
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321 4500~4750K	0.34 0.3475 0.346 0.339	0.36 0.364 0.351 0.347 4500~4750K	0.343 0.3445 0.351 0.349 0.343	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K	0.346 0.3475 0.355 0.353 0.346	0.351 0.364 0.368 0.355 0.351 4250~4500K	0.338 0.339 0.346 0.3445 0.338	0.347 0.351 0.33825 0.334 4500~4750K	0.34 0.341 0.349 0.3475 0.34	0.36 0.373 0.377 0.364 0.36 4500~4750K	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.33825 4250~4500K y	0.3475 0.349 0.357 0.355 0.3475 H1D	0.364 0.377 0.381 0.368 0.364 4250~4500K y
0.338 0.3445 0.343 0.337 H0A × 0.349	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33	0.34 0.3475 0.346 0.339 H1A × 0.353	0.36 0.364 0.351 0.347 4500~4750K y 0.355	0.343 0.3445 0.351 0.349 0.343 H0B X 0.3555	0.3255 0.33825 0.3425 0.33 0.3255 4250~4500K y 0.3335	0.346 0.3475 0.355 0.353 0.346 H1B X 0.36	0.351 0.364 0.368 0.355 0.351 4250~4500K y 0.359	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368	0.346 0.353 0.351 0.3445 H0D × 0.35775	0.33825 0.351 0.355 0.3425 0.33825 4250~4500K y 0.34625	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625	0.364 0.377 0.381 0.368 0.364 4250~4500K Y 0.37225
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425	0.34 0.3475 0.346 0.339	0.36 0.364 0.351 0.347 4500~4750K	0.343 0.3445 0.351 0.349 0.343 H0B x 0.3555 0.35775	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K	0.346 0.3475 0.355 0.353 0.346	0.351 0.364 0.368 0.355 0.351 4250~4500K y 0.359 0.37225	0.338 0.339 0.346 0.3445 0.338	0.347 0.351 0.33625 0.334 4500~4750K y 0.3425 0.355	0.34 0.341 0.349 0.3475 0.34 H1C X 0.355 0.357	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.33825 4250~4500K y	0.3475 0.349 0.357 0.355 0.3475 H1D	0.364 0.377 0.381 0.368 0.364 4250~4500K y
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425	0.34 0.3475 0.346 0.339 H1A x 0.353 0.355	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368	0.343 0.3445 0.351 0.349 0.343 H0B x 0.3555 0.35775	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36	0.351 0.364 0.368 0.355 0.351 4250~4500K y 0.359 0.37225	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353	0.347 0.351 0.33625 0.334 4500~4750K y 0.3425 0.355	0.34 0.341 0.349 0.3475 0.34 H1C X 0.355 0.357	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381	0.346 0.353 0.351 0.3445 HOD x 0.35775 0.36	0.33825 0.351 0.355 0.3425 0.33825 4250~4500K y 0.34625 0.359	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365	0.364 0.377 0.381 0.368 0.364 4250~4500K y 0.37225 0.3855
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425 0.34625	0.34 0.3475 0.346 0.339 H1A × 0.353 0.355 0.3625	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36 0.3625 0.37	0.351 0.364 0.368 0.355 0.351 4250~4500K y 0.359 0.37225 0.3765	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353	0.347 0.351 0.33625 0.334 4500~4750K y 0.3425 0.355 0.359	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355 0.357	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381 0.3855	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250~4500K y 0.34625 0.359 0.363	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373	0.364 0.377 0.381 0.368 0.364 4250~4500K Y 0.37225 0.3855 0.39
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775 0.3555	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425 0.34625 0.335	0.34 0.3475 0.346 0.339 H1A x 0.353 0.355 0.3625	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225 0.359	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775 0.3645	0.3255 0.33825 0.3425 0.3425 0.3255 4250~4500K y 0.335 0.34625 0.35 0.337	0.346 0.3475 0.355 0.353 0.346 H1B × 0.36 0.3625 0.37	0.351 0.364 0.368 0.355 0.351 4250-4500K y 0.37225 0.37225 0.3765 0.363	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.359 0.34625	0.34 0.341 0.349 0.3475 0.34 H1C × 0.355 0.357 0.365	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381 0.3855 0.37225	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367	0.33825 0.351 0.355 0.3425 0.3425 4250-4500K y 0.34625 0.359 0.359 0.363 0.35	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425 0.34625	0.34 0.3475 0.346 0.339 H1A × 0.353 0.355 0.3625	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36 0.3625 0.37	0.351 0.364 0.368 0.355 0.351 4250~4500K y 0.359 0.37225 0.3765	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353	0.347 0.351 0.33625 0.334 4500~4750K y 0.3425 0.355 0.359	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355 0.357	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381 0.3855	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250~4500K y 0.34625 0.359 0.363	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373	0.364 0.377 0.381 0.368 0.364 4250~4500K Y 0.37225 0.3855 0.39
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775 0.3555	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.3335 0.33	0.34 0.3475 0.346 0.339 H1A x 0.353 0.355 0.3625 0.36 0.353	0.36 0.364 0.351 0.347 4500~4750K Y 0.355 0.368 0.37225 0.359 0.355	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775 0.3645 0.3555	0.3255 0.33825 0.3425 0.33 0.3255 4250~4500K y 0.335 0.34625 0.35 0.35 0.337	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36 0.3625 0.37 0.367	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.3725 0.3765 0.363 0.359	0.338 0.339 0.346 0.3445 0.338 HOC × 0.351 0.353 0.36 0.35775 0.351	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.355 0.34625 0.34625	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355 0.357 0.365 0.365 0.365	0.36 0.373 0.377 0.364 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.368	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3645 0.35775	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.35 0.34625	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.373	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775 0.3555	0.334 0.33825 0.3255 0.321 4500~4750K y 0.33 0.3425 0.34625 0.335	0.34 0.3475 0.346 0.339 H1A x 0.353 0.355 0.3625	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225 0.359	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775 0.3645	0.3255 0.33825 0.3425 0.3425 0.3255 4250~4500K y 0.335 0.34625 0.35 0.337	0.346 0.3475 0.355 0.353 0.346 H1B × 0.36 0.3625 0.37	0.351 0.364 0.368 0.355 0.351 4250-4500K y 0.37225 0.37225 0.3765 0.363	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.359 0.34625	0.34 0.341 0.349 0.3475 0.34 H1C × 0.355 0.357 0.365	0.36 0.373 0.377 0.364 0.36 4500~4750K y 0.368 0.381 0.3855 0.37225	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367	0.33825 0.351 0.355 0.3425 0.3425 4250-4500K y 0.34625 0.359 0.359 0.363 0.35	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373	0.364 0.377 0.381 0.368 0.364 4250-4500K Y 0.37225 0.3855 0.389 0.3765
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775 0.3555	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.3335 0.33	0.34 0.3475 0.346 0.339 H1A x 0.353 0.355 0.3625 0.36 0.353	0.36 0.364 0.351 0.347 4500~4750K Y 0.355 0.368 0.37225 0.359 0.355	0.343 0.3445 0.351 0.349 0.343 H0B x 0.3555 0.35775 0.3645 0.362 0.3555	0.3255 0.33825 0.3425 0.33 0.3255 4250~4500K y 0.335 0.34625 0.35 0.35 0.337	0.346 0.3475 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.3725 0.3765 0.363 0.359	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.355 0.34625 0.34625	0.34 0.341 0.349 0.3475 0.34 H1C X 0.355 0.357 0.365 0.3625 0.3625	0.36 0.373 0.377 0.364 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.368	0.346 0.353 0.351 0.3445 H0D X 0.35775 0.36 0.367 0.3645 0.35775	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.35 0.34625	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225
0.338 0.3445 0.343 0.337 HOA × 0.349 0.3575 0.3555 0.349 JOA ×	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.3335	0.34 0.3475 0.346 0.339 H1A × 0.353 0.355 0.3625 0.36 0.353	0.36 0.364 0.351 0.347 4500-4750K y 0.355 0.368 0.37225 0.359 0.355	0.343 0.3445 0.351 0.349 0.343 H0B x 0.3555 0.35775 0.3645 0.362 0.3555	0.3255 0.33825 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.337 0.3335	0.346 0.3475 0.355 0.353 0.346 H1B x 0.3625 0.367 0.367	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355 0.357 0.365 0.365 0.3625 0.365 0.365	0.36 0.373 0.377 0.364 0.36 4500-4750K Y 0.368 0.381 0.3855 0.37225 0.368 4000-4250K	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3645 0.35775 JOD	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.35 0.34625 3750-4000K	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.373 0.373 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225
0.338 0.3445 0.343 0.337 HOA X 0.349 0.3517 0.3555 0.349 JOA X	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34025 0.3305 0.33 4000-4250K y 0.35	0.34 0.3475 0.346 0.339 H1A x 0.355 0.3625 0.362 0.363 0.353	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225 0.359 0.355 4000~4250K y 0.37	0.343 0.3445 0.351 0.359 0.343 HOB X 0.3555 0.35775 0.3645 0.3625 0.3555	0.3255 0.33825 0.33425 0.33 0.3255 4250-4500K y 0.335 0.34625 0.35 0.337 0.337 0.3335	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36 0.3625 0.37 0.367 0.367	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.3725 0.3765 0.363 0.359 3750-4000K Y 0.375	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351	0.347 0.351 0.33825 0.334 4500~4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000~4250K <i>y</i>	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.3625 0.3625 0.355	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.368 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385	0.346 0.353 0.351 0.3445 H0D x 0.3575 0.367 0.367 0.3675 J0D x 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.35 0.34625 3750-4000K Y 0.365	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.3725 3750-4000K y 0.39
0.338 0.3445 0.343 0.337 H0A X 0.349 0.351 0.35775 0.3555 0.349 J0A X 0.3645 0.3665	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.3425 0.3425 0.3395 0.33 4000-4250K Y 0.35	0.34 0.3475 0.346 0.339 H1A X 0.353 0.355 0.3625 0.36 0.353 J1A X 0.3685 0.37175	0.36 0.384 0.351 0.347 4500-4750K y 0.355 0.368 0.37225 0.359 0.355 4000-4250K y 0.37 0.385	0.343 0.3445 0.351 0.351 0.349 0.343 HOB x 0.3555 0.36775 0.3645 0.362 0.3555 JOB x 0.37675	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.3750-4000K y 0.3355 0.355 0.365	0.346 0.3475 0.355 0.353 0.363 0.364 0.3625 0.37 0.367 0.367 0.367 0.367 0.367	0.351 0.364 0.368 0.388 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.375	0.338 0.339 0.346 0.3445 0.338 H0C x 0.351 0.353 0.36 0.35775 0.351 J0C x 0.3665 0.3685	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K y 0.36 0.37	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.365 0.3625 0.3625 0.37175	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.386 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385 0.385	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3675 0.3675 0.3775	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.363 0.363 0.34625 3750-4000K Y 0.365 0.375	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37 0.3625 x 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405
0.338 0.3445 0.343 0.337 HOA X 0.349 0.3517 0.3555 0.349 JOA X	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34025 0.3305 0.33 4000-4250K y 0.35	0.34 0.3475 0.346 0.339 H1A x 0.355 0.3625 0.362 0.363 0.353	0.36 0.364 0.351 0.347 4500~4750K y 0.355 0.368 0.37225 0.359 0.355 4000~4250K y 0.37	0.343 0.3445 0.351 0.359 0.343 HOB X 0.3555 0.35775 0.3645 0.3625 0.3555	0.3255 0.33825 0.33425 0.33 0.3255 4250-4500K y 0.335 0.34625 0.35 0.337 0.337 0.3335	0.346 0.3475 0.355 0.353 0.346 H1B x 0.36 0.3625 0.37 0.367 0.367	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.3725 0.3765 0.363 0.359 3750-4000K Y 0.375	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351	0.347 0.351 0.33825 0.334 4500~4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000~4250K <i>y</i>	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.3625 0.3625 0.355	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.368 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385	0.346 0.353 0.351 0.3445 H0D x 0.3575 0.367 0.367 0.3675 J0D x 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.35 0.34625 3750-4000K Y 0.365	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.3725 3750-4000K y 0.39
0.338 0.3445 0.343 0.337 H0A X 0.349 0.351 0.35775 0.3555 0.349 J0A X 0.3645 0.3665	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.3425 0.3425 0.3395 0.33 4000-4250K Y 0.35	0.34 0.3475 0.346 0.339 H1A × 0.353 0.355 0.3625 0.36 0.353 J1A × 0.3685 0.3685 0.37175 0.383375	0.36 0.384 0.351 0.347 4500-4750K y 0.355 0.368 0.37225 0.359 0.355 4000-4250K y 0.37 0.385	0.343 0.3445 0.351 0.351 0.349 0.343 HOB × 0.3555 0.3575 0.36745 0.362 0.3555 JOB × 0.37675 0.37675	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.3750-4000K y 0.3355 0.355 0.365	0.346 0.3475 0.353 0.353 0.346 H1B X 0.36 0.3625 0.367 0.367 0.367 0.367 0.367 0.367	0.351 0.364 0.368 0.388 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.375	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351 JOC x 0.3665 0.3665 0.3695	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K y 0.36 0.37	0.34 0.341 0.349 0.3475 0.3475 0.3475 0.3475 0.355 0.355 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.386 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385 0.385	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3675 0.3675 0.3775	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.363 0.363 0.34625 3750-4000K Y 0.365 0.375	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.373 0.37 0.3625 x 0.3625	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.38 0.39 0.39
0.338 0.3445 0.343 0.337 HDA x 0.349 0.351 0.3555 0.349 JOA x 0.3645 0.3665 0.37675 0.37725	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34625 0.3335 0.333 4000-4250K y 0.35 0.365 0.365	0.34 0.3475 0.348 0.339 H1A x 0.353 0.355 0.3625 0.3635 131A x 0.3685 0.37925 0.37925	0.36 0.364 0.351 0.347 4500~4750K 7 0.355 0.368 0.37225 0.359 4000~4250K 7 0.37 0.36 0.3725 0.37	0.343 0.3445 0.351 0.349 0.349 0.343 HOB x 0.3555 0.35775 0.3645 0.362 0.3555 JOB X 0.37425 0.3775 0.3645 0.362 0.37675 0.363	0.3255 0.33825 0.33425 0.33 0.3255 4250-4500K y 0.335 0.34625 0.35 0.337 0.3335 0.3375 0.355 0.355 0.355 0.355 0.355 0.365 0.365	0.346 0.3475 0.355 0.355 0.355 0.346 H1B	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.375 0.3765 0.3765 0.363 0.359 3750-4000K Y 0.375 0.395 0.395 0.395	0.338 0.339 0.346 0.346 0.345 0.338 H0C x 0.351 0.353 0.36 0.35775 0.351 J0C x 0.3685 0.3685 0.37925	0.347 0.351 0.33825 0.334 4500~4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000~4250K <i>y</i> 0.36 0.37 0.36	0.34 0.341 0.349 0.3475 0.34 H1C x 0.357 0.365 0.3625 0.3625 0.37175 0.37175 0.375 0.3875 0.3875	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.368 4000~4250K Y 0.385 0.368	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3645 0.3675 0.37675 0.37675 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 3750~4000K Y 0.365 0.375 0.385	0.3475 0.349 0.355 0.3475 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.37 0.3625 J1D X 0.383375 0.3875 0.3875	0.364 0.377 0.381 0.368 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.3725 3750-4000K y 0.39 0.405 0.405 0.41 0.395
0.338 0.3445 0.343 0.337 H0A X 0.349 0.3517 0.3575 0.3575 0.3575 0.3645 0.3665 0.3665 0.3665	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34625 0.3335 0.3335 0.335 0.36 0.36 0.36	0.34 0.3475 0.346 0.339 H1A × 0.353 0.355 0.3625 0.36 0.353 J1A × 0.3685 0.3685 0.37175 0.383375	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.37	0.343 0.3445 0.351 0.351 0.349 0.343 HOB × 0.3555 0.3575 0.36745 0.362 0.3555 JOB × 0.37675 0.37675	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.3935 0.3935 0.3935 0.3935 0.3935	0.346 0.3475 0.353 0.353 0.346 H1B X 0.36 0.3625 0.367 0.367 0.367 0.367 0.367 0.367	0.351 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.383 0.359 3750-4000K Y 0.375 0.39 0.395	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.353 0.36 0.35775 0.351 JOC x 0.3665 0.3665 0.3695	0.347 0.351 0.33825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K Y 0.36 0.37 0.37	0.34 0.341 0.349 0.3475 0.3475 0.3475 0.3475 0.355 0.355 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.385 0.381 0.3855 0.37225 0.388 4000~4250K Y 0.385	0.346 0.353 0.351 0.351 0.351 0.35775 0.36 0.3677 0.3645 0.35775 JOD x 0.37675 0.37925	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.359 0.363 0.34625 3750-4000K Y 0.365 0.365 0.375 0.385	0.3475 0.349 0.357 0.349 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 J1D x 0.383375 0.3878 0.3878 0.3878	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.405 0.41
0.338 0.345 0.343 0.337 H0A × 0.349 0.351 0.35775 0.3555 0.3645 0.3645 0.37675 0.37425 0.3645	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.3335 0.33 4000-4250K Y 0.35 0.36 0.365 0.365	0.34 0.3475 0.3465 0.3496 0.339 H1A × 0.353 0.355 0.365 0.362 0.363 J1A × 0.363 0.353 0.353 0.353	0.36 0.364 0.361 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.359 0.375 4000-4250K Y 0.37 0.37 0.37	0.343 0.3445 0.351 0.351 0.349 0.343 H0B	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.397 0.3335	0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.38375 0.3995 0.3995 0.3995	0.351 0.364 0.368 0.365 0.351 4250~4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750~4000K Y 0.375 0.375 0.375 0.375	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.357 0.351 JOC x 0.3665 0.3685 0.37675 0.3665	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.355 0.359 0.34625 0.3425 4000-4250K y 0.36 0.36 0.37 0.375 0.365 0.365	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C X 0.355 0.355 0.355 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.36375 0.3675 0.3675	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3825 0.37225 0.37225 0.368 4000~4250K Y 0.385 0.4 0.4 0.405 0.39	0.346 0.353 0.351 0.3445 H0D X 0.35775 0.36 0.3677 0.3645 0.35775 J0D X 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250~4500K Y 0.34625 0.359 0.363 0.34625 3750~4000K Y 0.365 0.375 0.383 0.375 0.385	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.3625 J1D X 0.3625 0.373 0.3625 0.373 0.3625 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.3875 0.	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.41 0.39 0.41 0.395 0.395
0.338 0.3445 0.343 0.337 HDA x 0.349 0.351 0.3555 0.349 JOA x 0.3645 0.3665 0.37675 0.37725	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34625 0.3335 0.333 4000-4250K y 0.35 0.365 0.365	0.34 0.3475 0.348 0.339 H1A x 0.353 0.355 0.3625 0.3635 131A x 0.3685 0.37925 0.37925	0.36 0.364 0.351 0.347 4500~4750K 7 0.355 0.368 0.37225 0.359 4000~4250K 7 0.37 0.36 0.3725 0.37	0.343 0.3445 0.351 0.349 0.349 0.343 HOB x 0.3555 0.35775 0.3645 0.362 0.3555 JOB X 0.37425 0.3775 0.3645 0.362 0.37675 0.363	0.3255 0.33825 0.33425 0.33 0.3255 4250-4500K y 0.335 0.34625 0.35 0.337 0.3335 0.3375 0.355 0.355 0.355 0.355 0.355 0.365 0.365	0.346 0.3475 0.355 0.355 0.355 0.346 H1B X 0.36 0.3625 0.37 0.367 J1B X 0.37925 0.383375 0.395	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.375 0.3765 0.3765 0.363 0.359 3750-4000K Y 0.375 0.395 0.395 0.395	0.338 0.339 0.346 0.346 0.345 0.338 H0C x 0.351 0.353 0.36 0.35775 0.351 J0C x 0.3685 0.3685 0.37925	0.347 0.351 0.33825 0.334 4500~4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000~4250K <i>y</i> 0.36 0.37 0.36	0.34 0.341 0.349 0.3475 0.34 H1C x 0.357 0.365 0.3625 0.3625 0.37175 0.37175 0.375 0.3875 0.3875	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.368 4000~4250K Y 0.385 0.368	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3645 0.3675 0.37675 0.37675 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 3750~4000K Y 0.365 0.375 0.385	0.3475 0.349 0.355 0.3475 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.37 0.3625 J1D X 0.383375 0.3875 0.3875	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.3725 0.3725 0.395 0.400K y 0.3725
0.338 0.345 0.343 0.337 H0A × 0.349 0.351 0.35775 0.3555 0.3645 0.3645 0.37675 0.37425 0.3645	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.3335 0.33 4000-4250K Y 0.35 0.36 0.365 0.365	0.34 0.3475 0.3465 0.3496 0.339 H1A × 0.353 0.355 0.365 0.362 0.363 J1A × 0.363 0.353 0.353 0.353	0.36 0.364 0.361 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.359 0.375 4000-4250K Y 0.37 0.37 0.37	0.343 0.3445 0.351 0.351 0.349 0.343 H0B	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.397 0.3335	0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.38375 0.3995 0.3995 0.3995	0.351 0.364 0.368 0.365 0.351 4250~4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750~4000K Y 0.375 0.375 0.375 0.375	0.338 0.339 0.346 0.3445 0.338 HOC x 0.351 0.357 0.351 JOC x 0.3665 0.3685 0.37675 0.3665	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.355 0.359 0.34625 0.3425 4000-4250K y 0.36 0.36 0.37 0.375 0.365 0.365	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C X 0.355 0.355 0.355 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.36375 0.3675 0.3675	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3825 0.37225 0.37225 0.368 4000~4250K Y 0.385 0.4 0.4 0.405 0.39	0.346 0.353 0.351 0.3445 H0D X 0.35775 0.36 0.3677 0.3645 0.35775 J0D X 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.33825 4250~4500K Y 0.34625 0.359 0.363 0.34625 3750~4000K Y 0.365 0.375 0.383 0.375 0.385	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.3625 J1D X 0.3625 0.373 0.3625 0.373 0.3625 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.363 0.373 0.3625 0.3875 0.	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.41 0.39 0.41 0.395 0.395
0.338 0.345 0.343 0.337 HOA × 0.349 0.351 0.35775 0.35575 0.349 JOA × 0.3665 0.37675 0.37425 0.3645 0.3645	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.3425 0.34625 0.34625 0.3335 0.33 4000-4250K Y 0.35 0.35 0.35 0.36 0.365 0.355 0.355 0.355	0.34 0.3475 0.346 0.339 H1A X 0.355 0.3625 0.3717 0.37175 0.383375 0.3625 0.3625 0.37175 0.3625 0.37175 0.3625 0.3625 0.37175 0.3625 0.3625 0.37175 0.3625 0.3625 0.37175 0.3625 0.3625 0.3625 0.37175 0.3625 0.3625 0.37175 0.37175 0.3625 0.3625 0.3625 0.37175	0.36 0.364 0.351 0.347 4500-4750K Y 0.368 0.37225 0.368 0.37225 0.355 4000-4250K Y 0.37	0.343 0.3445 0.351 0.361 0.349 0.343 H0B X 0.3555 0.3575 0.3645 0.3625 0.3625 0.3675 0.362 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745	0.3255 0.3325 0.3425 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.355 0.355 0.355 0.355 0.356 0.360 0.3625 0.37 0.360 J1B	0.351 0.364 0.368 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.395 0.375 0.395 0.395 0.375 0.395 0.375 0.375 0.395 0.375 0.375 0.395 0.375 0.375 0.375	0.338 0.339 0.346 0.345 0.345 0.381 0.351 0.351 0.353 0.36 0.36775 0.351 J0C x 0.365 0.3685 0.37675 0.3665 KOC x	0.347 0.351 0.3825 0.334 4500-4750K y 0.3425 0.355 0.359 0.3425 4000-4250K y 0.36 0.37 0.37 0.365 0.365 0.37 0.365	0.34 0.341 0.349 0.3475 0.34 H1C X 0.355 0.357 0.3625 0.3625 0.3625 0.3625 0.3715 0.3715 0.3875 0.3875 0.3875 0.3875 0.37175	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.386 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.405 0.405 0.39 0.385	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.367 0.3625 0.35775 JOD X 0.37675 0.37925 0.39 0.387 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 4250-4500K Y 0.34625 0.359 0.363 0.34625 3750-4000K Y 0.365 0.375 0.38 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.386 0.375 0.386 0.375 0.386	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.3625 J1D X 0.3625 0.38375 0.3625 VID X V VID X	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.405 0.41 0.395 0.395 0.395 0.393 0.3
0.338 0.345 0.343 0.337 H0A × 0.349 0.351 0.35775 0.3555 0.349 J0A × 0.3645 0.37425 0.37425 0.3645 K0A ×	0.334 0.33825 0.3255 0.321 4500-4750K	0.34 0.3476 0.346 0.346 0.339 H1A x 0.355 0.355 0.3625 0.36 0.353 J1A x 0.3685 0.3715 0.3715 0.3925 0.3685 0.3715 0.3715 0.383375 0.37925 0.3685	0.36 0.384 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.375 4000-4250K Y 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.343 0.3445 0.3445 0.351 0.351 0.349 0.343 H0B	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.397 0.3335 0.3355 0.34505 0.355 0.365 0.37 0.365 0.37 0.365 0.37 0.365	0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.397 0.38375 0.399 0.39925 0.399 0.39925	0.351 0.364 0.368 0.365 0.351 4250~4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750~4000K Y 0.375 0.375 0.375 0.375 0.375 0.375 0.383 0.375	0.338 0.339 0.346 0.345 0.345 0.387	0.347 0.351 0.33825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K Y 0.36 0.37 0.375 0.365 0.365 0.375 0.365	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.37225 0.37225 0.368 4000~4250K Y 0.385 0.4 0.405 0.39 0.385 0.39 0.385	0.346 0.353 0.351 0.3445 HOD X 0.3577 0.367 0.367 0.367 0.367 0.3675 0.37675 0.37675 0.387 0.37675	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.3625 0.359 0.363 0.34625 3750-4000K y 0.365 0.375 0.365 0.375 0.385 0.375 0.365	0.3475 0.349 0.357 0.355 0.3475 0.365 0.3475 H1D X 0.3625 0.365 0.373 0.3625 J1D X 0.383375 0.3875 0.3873 0.3873 0.3873 0.3875 0.3873	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.3725 0.3855 0.39 0.3765 0.3725 3750-4000K y 0.39 0.405 0.41 0.395 0.39 3250-3500K y 0.41
0.338 0.3445 0.3445 0.337 HOA X 0.349 0.35775 0.3555 0.349 JOA X 0.3645 0.3665 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37425 0.3645	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34625 0.3335 0.33 4000-4250K y 0.35 0.365 0.365 0.365 0.355	0.34 0.3475 0.346 0.339 H1A X 0.353 0.3625 0.36 0.353 J1A X 0.3685 0.37175 0.389375 0.37925 0.3685 K1A X 0.393	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.368 0.37225 0.359 0.375 0.37 0.37 0.37 0.37 0.37 0.39 0.375 0.37	0.343 0.3445 0.3445 0.351 0.362 0.351 0.362 0.3555 0.35775 0.362 0.3555 0.37725 0.37425 0.37425 0.37425 0.37425	0.3255 0.3325 0.3425 0.3325 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.355 0.355 0.355 0.356 0.360 0.360 0.360 0.3625 0.367 0.36 0.37925 0.383375 0.395 0.37925 KIB x 0.409	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.375 0.39 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.395 0.375 0.395	0.338 0.338 0.339 0.346 0.3445 0.338 HOC X 0.351 0.353 0.36 0.35775 0.351 JOC X 0.3665 0.37675 0.3665 X 0.3665 0.37675 0.3665 KCC X 0.387	0.347 0.351 0.33825 0.334 4500-4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000-4250K <i>y</i> 0.36 0.37 0.365 0.36 3500-3750K <i>y</i>	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.376	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 0.359 0.363 0.35 0.34625 0.375 0.365 0.375 0.385 0.375 0.385	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 0.365 0.377 0.3625 0.378 0.378 0.379 0.383375 0.3875 0.4 0.383375 KID x 0.409 0.415	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.41 0.415
0.338 0.345 0.343 0.337 HOA X 0.349 0.351 0.35775 0.3557 0.35775 0.3565 0.349 JOA X 0.3645 0.37425 0.3645 0.3645 0.3844 0.384 0.384 0.384	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.333 0.33 0.335 0.33 4000-4250K Y 0.35 0.36 0.365 0.355 0.355 0.355 0.357 0.37 0.3745	0.34 0.3476 0.346 0.346 0.339 H1A x 0.355 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3635 X 0.37175 0.37925 0.3685 K1A x 0.399	0.38 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.37 3500-3750K Y 0.38 0.39 0.375 0.39	0.343 0.3445 0.3445 0.351 0.361 0.349 0.343 H0B X 0.3555 0.3575 0.3645 0.3625 0.3625 0.3625 0.3625 0.3625 0.37625 0.387 0.384 0.37425 K0B X 0.37425 0.37635 0.3765 0.37	0.3255 0.33825 0.3425 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.355 0.355 0.355 0.355 0.356 0.3625 0.37 0.36 J1B	0.351 0.364 0.368 0.368 0.355 0.351 4250-4500K	0.338 0.339 0.346 0.3445 0.338 H0C x 0.351 0.353 0.36 0.35775 0.351 J0C x 0.3685 0.37925 0.37675 0.3685 K0C x 0.3687 0.3685	0.347 0.351 0.3825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.3425 0.3425 4000-4250K Y 0.36 0.37 0.37 0.36 0.36 3500-3750K Y 0.37 0.38 0.38 0.39	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C X 0.355 0.357 0.3625 0.3625 0.3625 0.3625 0.3715 0.3875	0.36 0.373 0.377 0.384 0.36 4500-4750K Y 0.386 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385 0.4 0.405 0.39 0.395 0.395 0.395 0.405 0.405 0.395 0.395 0.405 0.405 0.405 0.395 0.395 0.395 0.405 0.	0.346 0.353 0.351 0.3445 HOD X 0.3575 0.367 0.367 0.368 0.35775 JOD X 0.37675 0.37925 0.39 0.387 0.37675 0.39 0.390 0.406	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.3625 0.359 0.3625 0.375 0.386 0.375 0.386 3250~3500K	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.365 0.373 0.3625 J1D X 0.3625 J1D X 0.38375 0.38375 0.4 0.38375 0.4 0.409 0.409 0.415	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.41 0.395 0.39 3250-3500K y 0.41 0.395 0.39
0.338 0.3445 0.3445 0.337 HOA X 0.349 0.35775 0.3555 0.349 JOA X 0.3645 0.3665 0.37675 0.37675 0.37675 0.37675 0.37675 0.37675 0.37425 0.3645	0.334 0.33825 0.3255 0.321 4500-4750K y 0.33 0.3425 0.34625 0.3335 0.33 4000-4250K y 0.35 0.365 0.365 0.365 0.355	0.34 0.3475 0.346 0.339 H1A X 0.353 0.3625 0.36 0.353 J1A X 0.3685 0.37175 0.389375 0.37925 0.3685 K1A X 0.393	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.368 0.37225 0.359 0.375 0.37 0.37 0.37 0.37 0.37 0.39 0.375 0.37	0.343 0.3445 0.3445 0.351 0.362 0.351 0.362 0.3555 0.35775 0.362 0.3555 0.37725 0.37425 0.37425 0.37425 0.37425	0.3255 0.3325 0.3425 0.3325 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.355 0.355 0.355 0.356 0.360 0.360 0.360 0.3625 0.367 0.36 0.37925 0.383375 0.395 0.37925 KIB x 0.409	0.351 0.364 0.368 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.375 0.39 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.395 0.375 0.395 0.395 0.395 0.375 0.395	0.338 0.338 0.339 0.346 0.3445 0.338 HOC X 0.351 0.353 0.36 0.35775 0.351 JOC X 0.3665 0.37675 0.3665 X 0.3665 0.37675 0.3665 KCC X 0.387	0.347 0.351 0.33825 0.334 4500-4750K <i>y</i> 0.3425 0.355 0.355 0.34625 0.3425 4000-4250K <i>y</i> 0.36 0.37 0.365 0.36 3500-3750K <i>y</i>	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.376	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 0.359 0.363 0.35 0.34625 0.375 0.365 0.375 0.385 0.375 0.385	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 0.365 0.377 0.3625 0.378 0.378 0.379 0.383375 0.3875 0.4 0.383375 KID x 0.409 0.415	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.41 0.415
0.338 0.345 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555 0.349 J0A x 0.3845 0.3665 0.37425 0.3645 K0A x 0.3847 0.387 0.399 0.399	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.334625 0.3335 0.365 0.365 0.365 0.365 0.365 0.3750K Y 0.37 0.3745 0.3745 0.384	0.34 0.3476 0.346 0.346 0.339 H1A x 0.353 0.355 0.3625 0.360 0.353 J1A x 0.3685 0.37925 0.3685 0.37925 0.3685 0.3995 0.403	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.37 0.385 0.39 0.375 0.37 0.37 0.37 0.37	0.343 0.3445 0.3445 0.351 0.351 0.349 0.343 H0B	0.3255 0.33825 0.3425 0.3425 0.333 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.395 0.395 0.395 0.395 0.395 0.395 0.375 0.365 0.375 0.365 0.375 0.366 0.377 0.366 0.379 0.364 0.3745	0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.397 0.390 0.37925 0.397 0.390 0.4028	0.351 0.364 0.368 0.365 0.351 4250~4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750~4000K Y 0.375 0.383 0.375 0.385 0.38 0.375	0.338 0.339 0.346 0.346 0.3465 0.380 0.351 0.351 0.357 0.351 0.3575 0.3571 0.3665 0.37675 0.3665 0.37675 0.3665	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 4000-4250K y 0.36 0.37 0.365 0.365 0.375 0.365 0.375 0.385 0.385 0.385	0.34 0.341 0.349 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 4500~4750K Y 0.368 0.381 0.3855 0.37225 0.385 0.37225 0.385 0.4 0.405 0.395 0.405 0.395 0.415 0.415 0.415 0.415 0.415	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.3625 0.3625 0.3750-4000K 0.365 0.375 0.365 0.375 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385	0.3475 0.349 0.357 0.355 0.3475 0.365 0.3475 H1D	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.41 0.395 0.39 3250-3500K y 0.41 0.415 0.415 0.415 0.415
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0.338 0.345 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555 0.349 JOA x 0.3845 0.3665 0.37675 0.37425 0.3645 K0A x 0.384 0.387 0.399 0.395 0.384	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.3335 0.36 0.36 0.36 0.365 0.355 0.36 0.37 0.3745 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.3745 0.36 0.3745 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	0.34 0.3475 0.346 0.339 H1A	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.385 0.39 0.375 0.37 3500-3750K Y 0.38 0.39 0.37 3500-3750K Y 0.37 0.385 0.39 0.37	0.343 0.3445 0.3445 0.351 0.351 0.349 0.343 H0B	0.3255 0.3325 0.3425 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.3750~4000K Y 0.355 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.3745 0.364 0.3745 0.364 0.3745 0.364 0.3745 0.368 0.364 0.3745 0.368 0.3745 0.368 0.3745 0.388	0.346 0.3475 0.3455 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.387 0.39 0.399 0.39925 0.399 0.39925 0.403 0.403 0.409 0.4225 0.403 LOD X 0.42725 0.4345	0.351 0.364 0.368 0.365 0.351 4250~4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750~4000K Y 0.375 0.385 0.375 0.385 0.38 0.375 2750~3000K Y 0.385 0.4 0.4047 0.39 0.385 0.4 0.4047 0.39 0.385	0.338 0.339 0.346 0.3445 0.338 0.357 0.360 0.3575 0.351 JOC x 0.3665 0.37675 0.3665 KOC x 0.387 0.39 0.403 0.399 0.387	0.347 0.351 0.33825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34625 0.3425 0.3425 0.365 0.37 0.37 0.365 0.36 3500-3750K Y 0.37 0.38 0.37 0.38 0.37 0.38 0.37 0.385 0.3745 0.37 0.385 0.3745 0.37	0.34 0.341 0.349 0.349 0.3475 0.340 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.37225 0.37225 0.368 0.381 0.385 0.37225 0.3725 0.385 0.40 0.405 0.39 0.385 0.41 0.405 0.39 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395	0.346 0.353 0.351 0.3445 HOD	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 0.359 0.363 0.35 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.365	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 0.365 0.377 0.3625 0.38375 0.400 0.400 0.415 0.43 0.423 0.423 0.409 L1D x 0.4375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.41 0.395 0.39 3250-3500K y 0.4 0.415 0.42 0.405 0.4 2750-3000K y 0.42 0.405 0.4
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0.338 0.345 0.343 0.337 H0A	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.34625 0.335 0.33 4000-4250K Y 0.35 0.36 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 0.365 0.365 0.360 0.364 0.366 0.364 0.366 0.366 0.366 0.366 0.368	0.34 0.3475 0.346 0.339 H1A	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.385 0.39 0.375 0.37 3500-3750K Y 0.38 0.39 0.37 3500-3750K Y 0.37 0.385 0.39 0.37	0.343 0.3445 0.3445 0.351 0.361 0.349 0.343 H0B X 0.3555 0.35775 0.3642 0.3555 0.37675 0.37425 X 0.37425 KOB X 0.37425 LOC X 0.41250 0.41250 0.41250 0.43450	0.3255 0.3325 0.3425 0.3425 0.3425 0.33 0.3255 4250~4500K Y 0.3335 0.34625 0.35 0.34625 0.35 0.3750~4000K Y 0.355 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.3745 0.364 0.3745 0.364 0.3745 0.364 0.3745 0.368 0.364 0.3745 0.368 0.3745 0.368 0.3745 0.388	0.346 0.3475 0.3455 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.387 0.39 0.399 0.39925 0.399 0.39925 0.403 0.403 0.409 0.4225 0.403 LOD X 0.42725 0.4345	0.351 0.364 0.368 0.368 0.355 0.351 4250-4500K	0.338 0.339 0.346 0.3445 0.338 H0C	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.355 0.359 0.3425 4000~4250K y 0.36 0.37 0.375 0.365 0.385 0.3745 0.37 0.373 0.373 0.373 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.377 0.41500 0.41700	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.37225 0.37225 0.368 0.381 0.385 0.37225 0.3725 0.385 0.40 0.405 0.39 0.385 0.41 0.405 0.39 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.395	0.346 0.353 0.351 0.3445 H0D	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 0.359 0.363 0.35 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.365	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 0.365 0.377 0.3625 0.38375 0.400 0.400 0.415 0.43 0.423 0.423 0.409 L1D x 0.4375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.39 0.405 0.41 0.395 0.39 3250-3500K y 0.4 0.415 0.42 0.405 0.4 2750-3000K y 0.42 0.405 0.4
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0.338 0.345 0.343 0.337 H0A	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.34625 0.335 0.33 4000-4250K Y 0.35 0.36 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 0.365 0.365 0.360 0.364 0.366 0.364 0.366 0.366 0.366 0.366 0.368	0.34 0.347 0.346 0.346 0.346 0.339 H1A	0.38 0.364 0.351 0.347 4500-4750K Y 0.3355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.39 0.375 0.39 0.375 0.39 0.375 0.39 0.375 0.38 0.39 0.375 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38 0.39 0.38	0.343 0.3445 0.3445 0.351 0.361 0.349 0.343 H0B X 0.3555 0.35775 0.3642 0.3555 0.37675 0.37425 X 0.37425 KOB X 0.37425 LOC X 0.41250 0.41250 0.41250 0.43450	0.3255 0.3425 0.3425 0.3425 0.333 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.35 0.35 0.365 0.35 0.365 0.37 0.335 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.385 0.365 0.37 0.386 0.37 0.389 0.384	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 H1B X 0.36 0.3625 0.37 0.367 0.36 J1B X 0.37925 0.383375 0.395 0.37925 X 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403	0.351 0.364 0.368 0.368 0.355 0.351 4250-4500K	0.338 0.339 0.346 0.3445 0.338 H0C	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.355 0.359 0.3425 4000~4250K y 0.36 0.37 0.375 0.365 0.385 0.3745 0.37 0.373 0.373 0.373 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.3745 0.377 0.41500 0.41700	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.405 0.4 0.405 0.39 0.385 0.41 0.415 0.4 0.415 0.4 0.395 0.41 0.415 0.4 0.399 0.399 0.41700 0.41900	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.38775 0.36 0.38775 JOD X 0.37755 0.3645 0.37755 JOD X 0.37675 LT 0.37925 0.39 0.387 0.37675 KOD X 0.399 0.416 0.411 0.399 LTC X 0.42750 0.42750 0.436300	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.362 0.359 0.363 0.363 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.3745 0.3745 0.385 0.379 0.3745	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.4 0.4 0.4 0.43 0.423 0.409 L1D X 0.44375 0.44750 0.4475300	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.405 0.41 0.395 0.39 0.405 0.41 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.4 2750-3000K y 0.417 0.43500 0.43700
0.338 0.345 0.343 0.337 H0A	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.3425 0.34625 0.34625 0.335 0.33 4000-4250K Y 0.35 0.36 0.365 0.365 0.365 0.365 0.365 0.366 0.366 0.364 0.368 0.368	0.34 0.3476 0.3476 0.3486 0.3496 0.3399 H1A	0.38 0.364 0.351 0.347 4500-4750K Y 0.3355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.39 0.375 0.39 0.375 0.39 0.375 0.39 0.375 0.38 0.39 0.375 0.38 0.39 0.38 0.39 0.375 0.37 0.38 0.39 0.38 0.39 0.375 0.37 0.38 0.395 0.4 0.385 0.38 0.395 0.4 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.343 0.3445 0.3445 0.355 0.351 0.349 0.343 H0B X 0.3555 0.35775 0.3645 0.37675 0.37425 0.37425 K0B X 0.37425 L0C X 0.41250 0.41250 0.41250	0.3255 0.3425 0.3425 0.3425 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.35 0.35 0.365 0.37 0.335 0.365 0.37 0.365 0.37 0.365 0.37 0.364 0.379 0.364 0.379 0.364 0.379 0.364 0.379 0.368 0.379 0.368 0.379 0.38250 0.39700 0.39700 0.39700 0.39700 0.39700 0.38475 0.38250	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 H1B X 0.3625 0.37 0.367 0.36 J1B X 0.37925 0.383375 0.395 0.37925 KIB X 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.395 0.395 0.395 0.395 0.395 0.385 0.404 0.4047 0.39 0.385 0.4047 0.39 0.385 0.385 0.4047 0.39 0.385 0.385 0.4047 0.399 0.38475	0.338 0.339 0.346 0.3445 0.338 H0C	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.355 0.359 0.3425 0.3425 0.3425 0.3425 0.365 0.36 3.37 0.375 0.365 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.381 0.3825 0.368 0.381 0.3855 0.4 0.405 0.4 0.405 0.39 0.385 0.41 0.415 0.4 0.405 0.39 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.399 0.399	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.38775 0.3645 0.35775 JOD X 0.37755 0.3645 0.37755 JOD X 0.37675 LT 0.37925 0.39 0.387 0.37675 KOD X 0.399 0.403 0.416 0.411 0.399 LTC X 0.42750 0.45300 0.44375 0.442750	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.363 0.363 0.363 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.385 0.3745 0.3745 0.385 0.399 0.3745 0.385 0.399 0.3745 0.385 0.390 0.43500 0.43500 0.43500 0.43500 0.41500	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.377 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.373 0.3625 0.373 0.3625 0.403 0.403 0.403 0.403 0.403 0.403 0.409 0.415 0.43 0.409 0.4175 0.43 0.409 0.4000 0.44375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.37225 0.3855 0.37225 3750-4000K y 0.405 0.41 0.399 0.405 0.41 0.399 0.405 0.41 0.490 0.41 0.41 0.42 0.405 0.4 2750-3000K y 0.417 0.43500 0.417 0.43500 0.417 0.43500 0.417
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0.338 0.345 0.343 0.337 H0A	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.3425 0.34625 0.34625 0.335 0.33 4000-4250K Y 0.35 0.36 0.365 0.365 0.365 0.365 0.365 0.366 0.366 0.364 0.368 0.368	0.34 0.3476 0.3476 0.3486 0.3496 0.3399 H1A	0.38 0.364 0.351 0.347 4500-4750K Y 0.3355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.39 0.375 0.39 0.375 0.39 0.375 0.39 0.375 0.38 0.39 0.375 0.38 0.39 0.38 0.39 0.375 0.37 0.38 0.39 0.38 0.39 0.375 0.37 0.38 0.395 0.4 0.385 0.38 0.395 0.4 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.343 0.3445 0.3445 0.355 0.351 0.349 0.343 H0B X 0.3555 0.35775 0.3645 0.37675 0.37425 0.37425 K0B X 0.37425 L0C X 0.41250 0.41250 0.41250	0.3255 0.3425 0.3425 0.3425 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.35 0.35 0.365 0.37 0.335 0.365 0.37 0.365 0.37 0.365 0.37 0.364 0.379 0.364 0.379 0.364 0.379 0.364 0.379 0.368 0.379 0.368 0.379 0.38250 0.39700 0.39700 0.39700 0.39700 0.39700 0.38475 0.38250	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 H1B X 0.3625 0.37 0.367 0.36 J1B X 0.37925 0.383375 0.395 0.37925 KIB X 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.395 0.395 0.395 0.395 0.395 0.385 0.404 0.4047 0.39 0.385 0.4047 0.39 0.385 0.385 0.4047 0.39 0.385 0.385 0.4047 0.399 0.38475	0.338 0.339 0.346 0.3445 0.338 H0C	0.347 0.351 0.33825 0.334 4500~4750K y 0.3425 0.355 0.355 0.359 0.3425 0.3425 0.3425 0.3425 0.365 0.36 3.37 0.375 0.365 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.381 0.3825 0.368 0.381 0.3855 0.4 0.405 0.4 0.405 0.39 0.385 0.41 0.415 0.4 0.405 0.39 0.395 0.41 0.415 0.4 0.395 0.41 0.415 0.4 0.399 0.399	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.38775 0.3645 0.35775 JOD X 0.37755 0.3645 0.37755 JOD X 0.37675 LT 0.37925 0.39 0.387 0.37675 KOD X 0.399 0.403 0.416 0.411 0.399 LTC X 0.42750 0.45300 0.44375 0.442750	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.363 0.363 0.363 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.385 0.3745 0.3745 0.385 0.399 0.3745 0.385 0.399 0.3745 0.385 0.390 0.43500 0.43500 0.43500 0.43500 0.41500	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.377 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.365 0.373 0.3625 0.373 0.3625 0.373 0.3625 0.403 0.403 0.403 0.403 0.403 0.403 0.409 0.415 0.43 0.409 0.4175 0.43 0.409 0.4000 0.44375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.37225 0.3855 0.37225 3750-4000K y 0.405 0.41 0.399 0.405 0.41 0.399 0.405 0.41 0.490 0.41 0.41 0.42 0.405 0.4 2750-3000K y 0.417 0.43500 0.417 0.43500 0.417 0.43500 0.417
0.338 0.345 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555 0.349 JOA x 0.3645 0.3665 0.37675 0.37425 0.3645 0.3687 0.399 0.3984 LOA x 0.40800 0.41250 0.42725 0.42000 0.40800 0.40800	0.334 0.33825 0.3255 0.321 4500-4750K	0.34 0.3475 0.346 0.339 H1A	0.36 0.364 0.351 0.347 4500-4750K	0.343 0.3445 0.3445 0.351 0.362 0.355 0.362 0.3655 0.3625 0.3625 0.3625 0.37675 0.37425 0.474250 0.474250 0.47255	0.3255 0.3325 0.3425 0.3325 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 0.3625 0.370 0.360 0.37925 0.383375 0.395 0.37925 0.403	0.351 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.3375 0.39 0.395 0.375 2350-3500K Y 0.385 0.404 0.4047 0.39 0.385 0.39 0.385 0.4047 0.399 0.385 0.399 0.401 0.387 0.38475	0.338 0.339 0.346 0.3445 0.338 0.351 0.351 0.353 0.365 0.35775 0.351 JOC x 0.3665 0.3665 0.37675 0.3665 0.37675 0.3665 L1A x 0.419 0.4275 0.44375 0.44375 0.44375	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 0.3425 0.3425 0.36 0.37 0.36 0.37 0.385 0.38 0.385 0.38 0.385 0.380 0.37 0.387 0.387 0.397 0.41500 0.41700 0.39900 0.397	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.377 0.364 0.36 0.36 0.36 0.381 0.381 0.385 0.37225 0.368 0.385 0.37225 0.368 0.40 0.405 0.405 0.49 0.405 0.39 0.385 0.41 0.415 0.40 0.395 0.41 0.415 0.49 0.395 0.41 0.415 0.49 0.395	0.346 0.353 0.351 0.3445 H0D	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.34625 0.359 0.363 0.35 0.34625 0.359 0.363 0.35 0.34625 0.375 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.3745 0.385 0.397 0.3745 0.385 0.390 0.41500 0.41500 0.41500 0.41500 0.41500	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.365 0.377 0.3625 0.373 0.37 0.3625 0.38375 0.400 0.4000 0.4000 0.44375 M1D x 0.44750 0.47000 0.44375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.399 0.3765 0.37225 3750-4000K y 0.405 0.41 0.395 0.39 0.405 0.41 0.495 0.41 0.415 0.42 0.405 0.41 0.415 0.42 0.405 0.41 0.417 0.43500 0.417 0.43700 0.41900 0.4177
0.338 0.345 0.343 0.337 HOA X 0.349 0.351 0.35775 0.3555 0.349 JOA X 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.384 0.384 0.384 0.384 0.384 0.384 0.384 0.385 0.399 0.395 0.395 0.384	0.334 0.33825 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.34625 0.333 0.33 4000-4250K Y 0.35 0.36 0.365 0.355 0.355 0.365 0.365 0.365 0.365 0.366 0.365 0.366 0.365 0.368 0.365 0.368 0.368 0.368 0.368 0.368	0.34 0.347 0.346 0.346 0.346 0.339 H1A	0.36 0.364 0.351 0.347 4500-4750K Y 0.355 0.368 0.37225 0.368 0.37225 0.355 0.355 0.3725 0.3725 0.3725 0.3725 0.3725 0.3725 0.375 0.375 0.375 0.375 0.375 0.3870 0.3750 0.38475 0.38700 0.37050 0.37050 0.37050 0.37050 0.37050	0.343 0.3445 0.3445 0.351 0.361 0.361 0.3745 0.365 0.365 0.365 0.365 0.365 0.37675 0.364 0.37425 0.47425 0.47425 0.47425 0.47425 0.47425 0.47425 0.47425 0.47425 0.47425	0.3255 0.3425 0.3425 0.3425 0.333 0.3255 4250-4500K y 0.3335 0.34625 0.35 0.35 0.35 0.35 0.365 0.37 0.335 0.365 0.37 0.365 0.37 0.365 0.37 0.365 0.37 0.385 0.365 0.37 0.385 0.365 0.37 0.385 0.37 0.385 0.3825 0.39700 0.39900 0.38475 0.38250 0.39700 0.38475 0.38250	0.346 0.3475 0.3475 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.367 0.36 J1B X 0.37925 0.383375 0.395 0.399 0.37925 K1B X 0.403 0.403 0.416 0.403 LOD X 0.42725 0.435 0.442 0.42725	0.351 0.364 0.368 0.368 0.369 0.355 0.351 4250-4500K y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K y 0.375 0.395 0.375 0.395 0.385 0.400 0.4047 0.39 0.385 0.400 0.395 0.385 0.400 0.395 0.385 0.400 0.397 0.385 0.399 0.391 0.38475 0.399 0.401 0.337 0.38475	0.338 0.339 0.346 0.3445 0.338 H0C	0.347 0.351 0.3825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34925 0.3425 0.3425 0.3425 0.360 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.3	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C X 0.355 0.357 0.365 0.3625 0.3625 0.3625 0.3675 0.37175 0.37175 0.37175 0.37175 M1C X 0.3935 0.34 0.409 0.4345 0.409 0.4345 0.4497 0.4345 0.4497 0.4345 0.4497 0.4345 0.4497 0.4345 0.4497 0.4345	0.36 0.373 0.377 0.384 0.36 0.377 0.384 0.36 0.381 0.385 0.381 0.3855 0.37225 0.368 4000-4250K Y 0.385 0.4 0.405 0.4 0.405 0.395 0.41 0.415 0.4 0.405 0.395 0.41 0.415 0.4 0.395 0.4100 0.41700 0.41700 0.41700 0.41100 0.399 2350-2550K Y 0.4300	0.346 0.353 0.351 0.3445 HOD X 0.35775 0.36 0.3867 0.3625 0.39775 JOD X 0.37675 0.37925 0.399 0.37925 0.399 0.403 0.403 0.4030 0.44375 0.45000 0.44375 0.42750	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.363 0.363 0.363 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.39 0.3745 0.390 0.41500 0.43500 0.41500 0.41500 0.41500	0.3475 0.349 0.357 0.355 0.3475 H1D	0.364 0.377 0.381 0.368 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.405 0.41 0.395 0.39 3250-3500K y 0.41 0.495 0.42 0.405 0.41 2750-3000K y 0.417 0.43500 0.4370 0.417 0.43500 0.417 0.43500 0.417
0.338 0.345 0.343 0.337 H0A	0.334 0.3325 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.34625 0.3335 0.33 4000-4250K Y 0.35 0.365 0.355 0.365 0.355 0.364 0.36 0.37 0.3745 0.364 0.36 0.37 0.3745 0.364 0.36 0.37 0.3745 0.364 0.36 0.373 0.364 0.368 0.38250 0.38475 0.36475 0.37050 0.368775 0.37050 0.368775 0.37050 0.368775 0.37050 0.3687700	0.34 0.3475 0.346 0.346 0.339 H1A	0.38 0.384 0.381 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.359 0.355 4000-4250K Y 0.37 0.37 0.37 3500-3750K Y 0.38 0.39 0.375 0.38 0.395 0.39 0.375 0.37 0.38 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050	0.343 0.3445 0.3445 0.351 0.361 0.349 0.343 0.349 0.343 0.3555 0.3575 0.3645 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.37675 0.387 0.384 0.37425 0.37425 0.387 0.384 0.37425 0.387 0.384 0.37425 0.387 0.384 0.395 0.395 0.395 0.4112 0.406 0.395 0.4125 0.41250 0.41250 0.41250 0.42725 0.41250	0.3255 0.3425 0.3425 0.3425 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.390 0.37925 0.395 0.395 0.395 0.395 0.403	0.351 0.364 0.368 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.401 0.387 0.38475 0.389 0.401 0.387 0.38475	0.338 0.339 0.346 0.3445 0.338 H0C x 0.351 0.353 0.36 0.3575 0.3515 J0C x 0.3665 0.3685 0.37925 0.37925 0.3685	0.347 0.351 0.33825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34825 0.3425 4000-4250K Y 0.36 0.37 0.37 0.375 0.365 0.385 0.397 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.3	0.34 0.341 0.349 0.349 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.377 0.364 0.36 0.377 0.364 0.36 0.385 0.385 0.381 0.3855 0.385 0.385 0.385 0.390 0.405 0.390 0.390 0.4100 0.4100 0.399 0.41700 0.41900 0.41900 0.4100 0.399	0.346 0.353 0.351 0.3445 H0D x 0.3573 0.367 0.367 0.367 0.368 0.367 0.3675 0.3792 0.37925 0.399 0.387 0.37675 0.399 0.403 0.411 0.399 L1C x 0.42750 0.42750 0.42750 0.44300 0.44750 0.44750	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.363 0.34625 3750-4000K Y 0.365 0.375 0.38 0.37 0.385 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.41500 0.41700 0.41500 0.41700 0.41500 0.43700	0.3475 0.349 0.357 0.355 0.3475 0.365 0.3475 H1D	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 3750-4000K y 0.405 0.41 0.395 0.405 0.41 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.417 0.43500 0.43700 0.417700 0.41900 0.417
0.338 0.345 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555 0.349 JOA x 0.3645 0.3665 0.37675 0.37425 0.37425 0.3645 KOA x 0.384 0.387 0.399 0.398 0.384 LOA x 0.40800 0.41250 0.42725 0.42000 0.40800 0.40800 0.40800	0.334 0.33825 0.3255 0.321 4500-4750K	0.34 0.3475 0.346 0.339 H1A	0.38 0.384 0.3851 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.385 0.39 0.375 0.37 3500-3750K Y 0.38 0.39 0.375 0.37 3500-3750K Y 0.37 3500-3750K Y 0.37 0.385 0.39 0.375 0.37	0.343 0.3445 0.3445 0.351 0.349 0.343 0.3555 0.35775 0.3645 0.3625 0.3555 0.3775 0.3645 0.37425 0.47250 0.47250 0.47250 0.47250 0.47250 0.47250 0.47250	0.3255 0.3325 0.3425 0.3325 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.337 0.335 0.337 0.335 0.336 0.355 0.365 0.375 0.365 0.379 0.368 0.364 0.3745 0.379 0.388 0.3865 0.3865 0.3865 0.387 0.3885 0.3865	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 0.3625 0.37 0.367 0.36 J1B	0.351 0.364 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.3975 0.399 0.401 0.387 0.38475 0.38925 0.40300 0.3875 0.38925 0.40300 0.40500	0.338 0.339 0.346 0.3445 0.338 HOC X 0.351 0.353 0.36 0.35775 0.351 JOC X 0.3665 0.37925 0.3665 0.37925 0.3665 KOC X 0.3665 X 0.387 0.3665 L1A X 0.419 M1A X 0.45 0.4525	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 0.3425 0.3425 0.36 0.37 0.36 0.37 0.385 0.386 0.37 0.385 0.380 0.387 0.387 0.397 0.41500 0.41700 0.39900 0.3977 2550-2750K y 0.401 0.41900 0.42100	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.377 0.364 0.36 0.368 0.381 0.385 0.37225 0.368 0.381 0.385 0.37225 0.368 0.381 0.40 0.405 0.405 0.41 0.415 0.405 0.49 0.495 0.41 0.4170 0.4190 0.41900 0.41190 0.41900 0.42100 0.42300	0.346 0.353 0.351 0.3445 H0D	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.34625 0.359 0.365 0.365 0.375 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.365 0.3745 0.385 0.397 0.3745 0.385 0.397 0.3745 0.385 0.390 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.43700 0.43700 0.43700 0.43700 0.43700 0.43900	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.370 0.3625 0.365 0.371 0.3625 0.365 0.371 0.3625 0.365 0.371 0.3625 0.372 0.3625 0.373 0.375 0.40 0.4000 0.4000 0.4000 0.44375 0.44375 0.44375 0.44375 0.45000 0.44000 0.44375 0.45000 0.44375 0.45000 0.47000 0.46000 0.44375	0.364 0.377 0.381 0.368 0.364 4250-4500K 7 0.37225 0.365 0.37225 0.3855 0.37225 0.3765 0.37225 0.3855 0.37225 0.3850 0.3705 0.405 0.41 0.495 0.41 0.415 0.42 0.405 0.41 0.415 0.42 0.405 0.41 0.417 0.43500 0.417 0.43500 0.4170 0.43700 0.41900 0.4170 0.421 0.421 0.421 0.421 0.421 0.421 0.421 0.421 0.43900 0.44100
0.338 0.345 0.343 0.337 H0A	0.334 0.3325 0.3255 0.321 4500-4750K Y 0.33 0.3425 0.34625 0.34625 0.34625 0.3335 0.33 4000-4250K Y 0.35 0.365 0.355 0.365 0.355 0.364 0.36 0.37 0.3745 0.364 0.36 0.37 0.3745 0.364 0.36 0.37 0.3745 0.364 0.36 0.373 0.364 0.368 0.38250 0.38475 0.36475 0.37050 0.368775 0.37050 0.368775 0.37050 0.368775 0.37050 0.3687700	0.34 0.3475 0.346 0.346 0.339 H1A	0.38 0.384 0.381 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.359 0.355 4000-4250K Y 0.37 0.37 0.37 3500-3750K Y 0.38 0.39 0.375 0.38 0.395 0.39 0.375 0.37 0.38 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050 0.37050	0.343 0.3445 0.3445 0.351 0.361 0.349 0.343 0.349 0.343 0.3555 0.3575 0.3645 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.37675 0.387 0.384 0.37425 0.37425 0.387 0.384 0.37425 0.387 0.384 0.37425 0.387 0.384 0.395 0.395 0.395 0.4112 0.406 0.395 0.4125 0.41250 0.41250 0.41250 0.42725 0.41250	0.3255 0.3425 0.3425 0.3425 0.3425 0.33 0.3255 4250-4500K	0.346 0.3475 0.346 0.3475 0.355 0.355 0.355 0.353 0.346 H1B X 0.36 0.3625 0.37 0.36 J1B X 0.37925 0.390 0.37925 0.395 0.395 0.395 0.395 0.403	0.351 0.364 0.368 0.364 0.368 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.4007 0.39 0.385 0.401 0.387 0.38475 0.389 0.401 0.387 0.38475	0.338 0.339 0.346 0.3445 0.338 H0C x 0.351 0.353 0.36 0.3575 0.3515 J0C x 0.3665 0.3685 0.37925 0.37925 0.3685	0.347 0.351 0.33825 0.334 4500-4750K Y 0.3425 0.355 0.359 0.34825 0.3425 4000-4250K Y 0.36 0.37 0.37 0.375 0.365 0.385 0.397 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.3	0.34 0.341 0.349 0.349 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.377 0.364 0.36 0.377 0.364 0.36 0.385 0.385 0.381 0.3855 0.385 0.385 0.385 0.390 0.405 0.390 0.390 0.4100 0.4100 0.399 0.41700 0.41900 0.41900 0.4100 0.399	0.346 0.353 0.351 0.3445 H0D x 0.3573 0.367 0.367 0.367 0.368 0.367 0.3675 0.3792 0.37925 0.399 0.387 0.37675 0.399 0.403 0.411 0.399 L1C x 0.42750 0.42750 0.42750 0.44300 0.44750 0.44750	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.359 0.363 0.34625 3750-4000K Y 0.365 0.375 0.38 0.37 0.385 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.41500 0.41700 0.41500 0.41700 0.41500 0.43700	0.3475 0.349 0.357 0.355 0.3475 0.365 0.3475 H1D	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.39 0.3765 0.37225 0.3855 0.37225 0.3855 0.39 0.400K y 0.405 0.41 0.395 0.405 0.41 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.415 0.42 0.405 0.4 0.417 0.43500 0.43700 0.417700 0.41900 0.417 2350~2550K y 0.421 0.43900
0.338 0.345 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555 0.349 JOA x 0.3645 0.3665 0.37675 0.37425 0.37425 0.3645 KOA x 0.384 0.387 0.399 0.398 0.384 LOA x 0.40800 0.41250 0.42725 0.42000 0.40800 0.40800 0.40800	0.334 0.33825 0.3255 0.321 4500-4750K	0.34 0.3475 0.346 0.339 H1A	0.38 0.384 0.3851 0.347 4500-4750K Y 0.355 0.368 0.37225 0.359 0.355 4000-4250K Y 0.37 0.385 0.39 0.375 0.37 3500-3750K Y 0.38 0.39 0.375 0.37 3500-3750K Y 0.37 3500-3750K Y 0.37 0.385 0.39 0.375 0.37	0.343 0.3445 0.3445 0.351 0.349 0.343 0.3555 0.35775 0.3645 0.3625 0.3555 0.3775 0.3645 0.37425 0.47250 0.47250 0.47250 0.47250 0.47250 0.47250 0.47250	0.3255 0.3325 0.3425 0.3325 0.3425 0.33 0.3255 4250-4500K y 0.3335 0.34625 0.337 0.335 0.337 0.335 0.336 0.355 0.365 0.375 0.365 0.379 0.368 0.364 0.3745 0.379 0.388 0.3865 0.3865 0.3865 0.387 0.3885 0.3865	0.346 0.3475 0.355 0.355 0.355 0.355 0.367 0.360 0.3625 0.37 0.367 0.36 J1B	0.351 0.364 0.364 0.368 0.365 0.355 0.351 4250-4500K Y 0.359 0.37225 0.3765 0.363 0.359 3750-4000K Y 0.375 0.39 0.395 0.3975 0.399 0.401 0.387 0.38475 0.38925 0.40300 0.3875 0.38925 0.40300 0.40500	0.338 0.339 0.346 0.3445 0.338 HOC X 0.351 0.353 0.36 0.35775 0.351 JOC X 0.3665 0.37925 0.3665 0.37925 0.3665 KOC X 0.3665 X 0.387 0.3665 L1A X 0.419 M1A X 0.45 0.4525	0.347 0.351 0.33825 0.334 4500-4750K y 0.3425 0.355 0.359 0.34625 0.3425 0.3425 0.3425 0.36 0.37 0.36 0.37 0.385 0.386 0.37 0.385 0.380 0.387 0.387 0.397 0.41500 0.41700 0.39900 0.3977 2550-2750K y 0.401 0.41900 0.42100	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C	0.36 0.373 0.377 0.364 0.36 0.377 0.364 0.36 0.368 0.381 0.385 0.37225 0.368 0.381 0.385 0.37225 0.368 0.381 0.40 0.405 0.405 0.41 0.415 0.405 0.49 0.495 0.41 0.4170 0.4190 0.41900 0.41190 0.41900 0.42100 0.42300	0.346 0.353 0.351 0.3445 H0D	0.33825 0.351 0.355 0.3425 0.3425 0.3425 0.3425 0.34625 0.359 0.365 0.365 0.375 0.365 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.365 0.3745 0.385 0.397 0.3745 0.385 0.397 0.3745 0.385 0.390 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.41500 0.43700 0.43700 0.43700 0.43700 0.43700 0.43900	0.3475 0.349 0.357 0.355 0.3475 H1D X 0.3625 0.365 0.37 0.3625 0.365 0.37 0.3625 0.365 0.37 0.3625 0.37 0.3625 0.37 0.3625 0.400 0.4000 0.4000 0.44375 0.4375 0.44375 0.44375 0.44375 0.45376 0.44375 0.45376 0.45000 0.47000 0.46000 0.44375	0.364 0.377 0.381 0.368 0.364 4250-4500K y 0.37225 0.3855 0.37225 0.3855 0.37225 0.3855 0.37225 0.3855 0.37225 0.3855 0.37225 0.390 0.405 0.41 0.495 0.41 0.415 0.42 0.405 0.41 0.415 0.42 0.405 0.41 0.417 0.43500 0.417 0.43500 0.4170 0.43700 0.41900 0.4177

Note: It maintains a tolerance of x, $y \pm 0.005$

Official Product	HT Part No. HT-T5301DND	Your Part No.		Data Sheet No.		
Tentative Product ************************************		*******		HT-F690		
Specifications are subject to changes for improvement without advance notice. Proprietary data, drawings, company confidential all rights reserved.		02/27/2012	Version of 1.0	Page 7/16		



Color Temperature Corrdinates



■ 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 ±0.05V

Official Product	HT Part No. HT-T5301DND	Your Part No.		Data Sheet No.
Tentative Product	*********	*****		HT-F690
1 .	ect to changes for improvement Proprietary data, drawings, company erved.	02/27/2012	Version of 1.0	Page 8/16



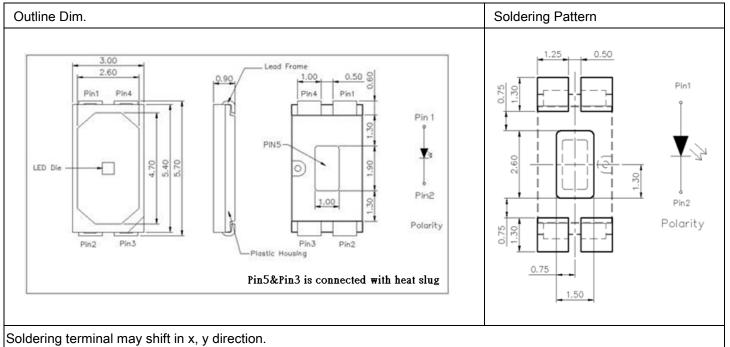
Electro-Optical Characteristics

(Each chip @ 150mA, Ta 25 °C)

Product No.			Color	Flux(lm)		
Floduct No.	Color	Material	min	max	Correlated Color Temperature	typ
HT-T5301DND	White	InGaN	2.8	3.5	2750~7500K	47

Package Outline Dimension and Recommended Soldering Pattern for Reflow Soldering

Unit: mm Tolerance: +/-0.25



Absolute Maximum Ratings

(T_a 25 °C)

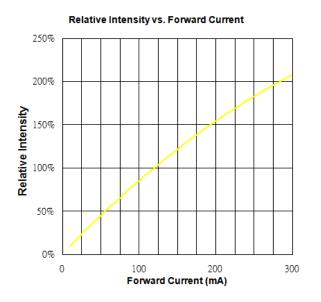
Series	P _d (mW)	I _F (mA)	I _{FP} (mA)*	Ir (μA) @ V _R = 5 V	T _{OP} (°C)	T _{ST} (°C)
HT-T5301DND	585	150	300	<5	-30~+80	-40~+85

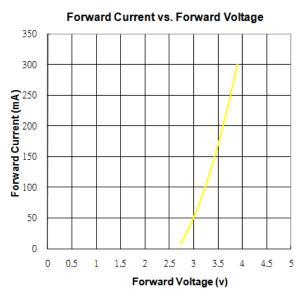
 $^{^{\}star}$ Condition for I_FP per chip is pulse of 1/10 duty and 0.1msec width

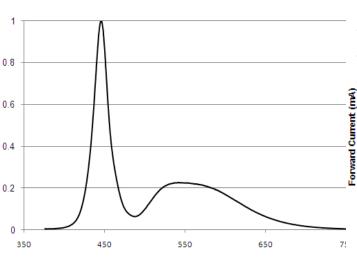
Official Product	HT Part No. HT-T5301DND	Your Part No.		Data Sheet No.
Tentative Product	*********	*****		HT-F690
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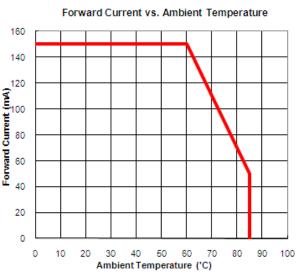


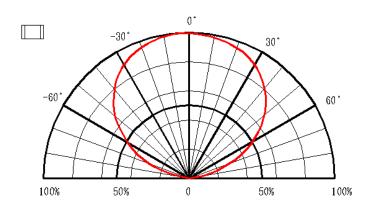
Characteristics

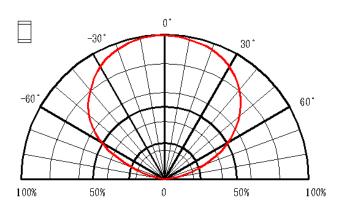








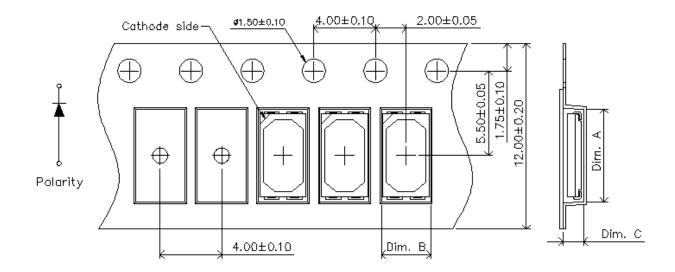




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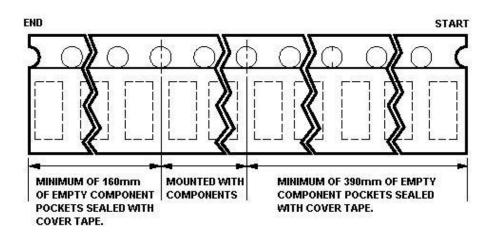


Packaging Tape, Reel, and Packing Model Tape Dimension



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

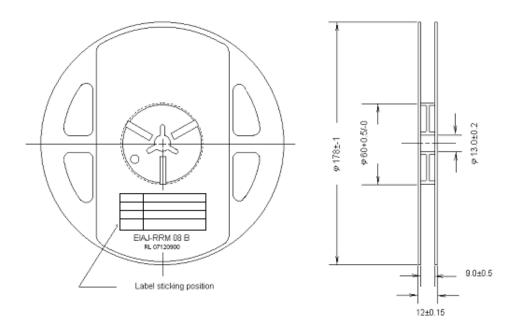
Unit: mm



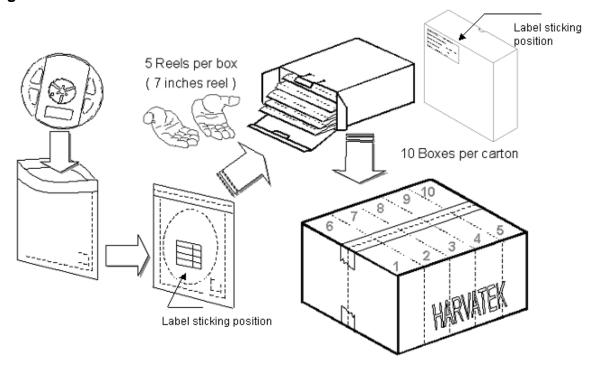
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Reel Dimension



Packing



5 boxes per carton is available depending on shipment quantity.

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Precaution of Application

Designing 1: Soldering pattern

The dimensions of the recommended soldering pattern may not meet every user. Please confirm and study first before designing the soldering pattern in order to obtain the best performance of soldering.

Designing 2: Circuit layout

Due to the circuit design is not available, assuming the circuit is in parallel and a resistor that is put in series in the circuit, it cannot provide an effective current-limiting function to the LEDs due to each LED had a different inherent resistance.

In general, the LEDs usually have a different inherent resistance. Different inherent resistance will cause different current, the LED on the different path would be driven at different power, and the result was the LED with a higher resistance would be dimmer than the other.

To solve this situation, a suitable resistor is put in series with each LED to limit the current disparity through the LED will be very useful.

Designing 3: Max Rating

Any application should refer to the specifications of absolute maximum ratings.

Dry Pack

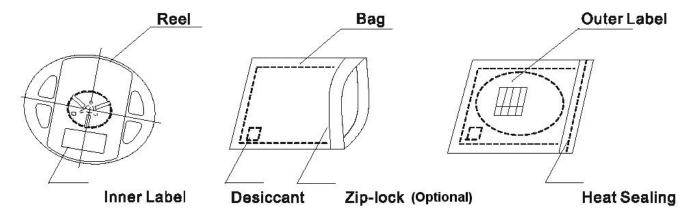
Any SMD optical device, like this chip LED, is **MOISTURE SENSITIVE device**. Avoid absorbing moisture at any time during transportation or storage. Every reel will be packaged in the moisture barrier anti-static bag (Specific bag material will depend upon customers' requirement or option). And the bag is well sealed before shipment.

By customer's requirement, we will put a humidity indicator in each moisture barrier anti-static bag before shipment.

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The package



Storage

It's recommended to store the products in the following conditions:

Humidity: 60 %RH Max.

Temperature: 5 °C ~30 °C (41°F~86 °F)

- 1 Shelf life in sealed bag: 12 month at<40 °C and <90%RH. (Base on aluminum laminated moisture barrier bag.)
- 2 After the bag is opened, devices that will be subjected to infrared reflow, vapor-phase reflow, or equivalent processing must be:
 - 2.1 Mounted within 72 hours at factory conditions of $\leq~30$ $^{\circ}$ C /60% RH, or
 - 2.2 Stored at \leq 20% RH with zip-lock sealed.

Baking

It's recommended to bake before soldering once the pack is unsealed open & re-sealed after 72 hours. The conditions are as followings:

60 $\pm 3^{\circ}$ Cx(12~24hrs) and < 5% RH, taped reel type

100±3°Cx(45min~1hr), bulk type

130±3^OC×(15~30min), bulk type

Soldering

Manual soldering (We do not recommend this method strongly.)

Soldering wire: 63/37 Sn/Pb, flux contained.

To prevent cracking, please bake before manual soldering, if the device is subject to moisture.

Temperature at tip of soldering tool : 300 $^{\rm O}$ C±5 $^{\rm O}$ C Max.(25W)

It's banned to load any stress on the resin during soldering.

Soldering time: 3±1sec

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Handling of Silicone Resin LEDs

Handling Indications

During processing, mechanical stress on the surface should be minimized as much as possible. Sharp objects of all types should mot be used to pierce the sealing compound.



Figure 1

In general, LEDs should only be handled from the side. By the way ,this also applies to LEDs without a silicone sealant, since the surface can also become scratched.

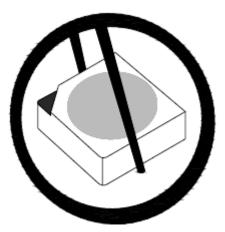


Figure 2

When populating boards in SMT production, there are basically no restrictions regarding the from of the pick and place nozzle, except that mechanical pressure on the surface of the resin must be prevented.

This is assured by choosing a pick and place nozzle which is large than LEDs reflector area.

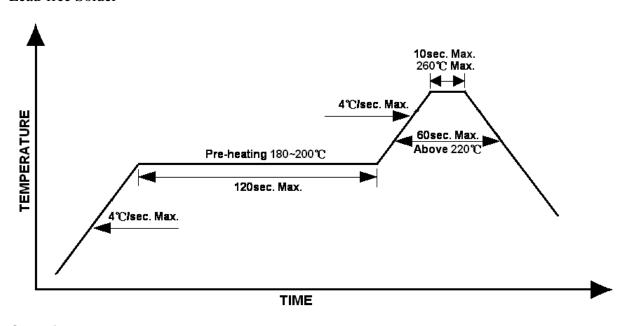
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Reflow Soldering

- 1. Recommend soldering paste specifications:
- 2. Operating temp.: Above 220 °C ,60sec
- 3. Peak temp.:260 ^OCMax.,10sec Max.
- 4. Never take next process until the component is cooled down to room temperature after reflow.
- 5. The recommended reflow soldering profile (measuring on the surface of the LED terminal) is following:

Lead-free Solder



Cleaning

The conditions of cleaning after soldering:

An alcohol-based solvent such as isopropyl alcohol (IPA) is recommended.

Temperature×Time: <50 °C×30sec, or <30 °C×3min

Ultra sonic cleaning: < 15W/ bath; Bath volume: 1liter max.

Curing: 100 °C max, <3min

Do not contact with component on the assembly board.

Cautions of Pick and Place

It should be avoided to load stress on the resin during high temperature.

Avoid rubbing or scraping the resin by any object.

Electric-static may cause damage to the component. Please confirm that the equipment grounding well. Using an ionizer fan is recommended.

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>>Harvatek(宏齐)