



RoHS

# Specification

## 规格书

Customer Name \_\_\_\_\_

客户名称

Customer P/N \_\_\_\_\_

客户品号

Factory P/N **HL-A-2835D49W-2C-S1-08-PCT-HR3**

公司品号

Sending Date \_\_\_\_\_

送样日期

Client approval 客户审核			Hongli approval 鸿利光电审核		
Approval 核准	Audit 确认	Confirmation 制作	Approval 核准	Audit 确认	Confirmation 制作
			林德顺		黄雪梅
Qualified 接受	Disqualified 不接受		DATE: 日期:		

Adr Airport High-tech Industry Base Jingu South Road(XianKe 1st Road Intersection),  
Huadu District,Guangzhou,China

Tel/电话 020-86733333

Fax/传真 020-86733883 86733938 86733265

Web/网址 www.honglitronic.com

: 1.  
2.  
3.



## HL-A-2835D49W-2C-S1-08-PCT-HR3

### Description

The White LED which was fabricated using a blue chip and the phosphor  
LED

### Applications

Optical indicator  
Indoor display  
Automotive lighting  
Backlight for LCD, switch and Symbol, display  
LCD  
Tubular light application  
General use

### Package Dimensions

### Recommended Soldering Pattern

Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is  $\pm 0.15\text{mm}$  unless otherwise noted.

$\pm 0.15\text{mm}$

## HL-A-2835D49W-2C-S1-08-PCT-HR3

### Selection Guide

Part No.	Chip Materials	Lens Type
HL-A-2835D49W-2C-S1-08-PCT-HR3	InGaN	Yellow Diffused

### Mass Production list

Part No.	CCT K Min	CCT K Typ	CCT K Max	Im Min	Im Typ	Test Condi- tions
HL-A-2835D49W-2C-S1-08-PCT-HR3	5700	6000	6500	120	130	IF=150mA
	4750	5000	5300	120	130	IF=150mA
	3800	4000	4250	120	130	IF=150mA
	2800	3000	3100	110	120	IF=150mA

### Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage	VF	5.6	--	6.8	V	IF=150mA
Viewing Angle	2 1/2	--	120	--	deg	IF=150mA
Color Rendering Index	Ra	80	--	--		IF=150mA

Note:(

- 2θ<sub>1/2</sub> is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.  

$$2\theta_{1/2} \quad , \quad \frac{1}{2}$$
- The above luminous flux measurement allowance tolerance is ±10%.  

$$\pm 10\%$$
- The above Color Rendering Index measurement allowance tolerance is ±2  

$$\pm 2$$
- The above forward voltage measurement allowance tolerance is ±0.1V.  

$$\pm 0.1V$$
- The above color coordinates measurement allowance tolerance is ±0.003.  

$$\pm 0.003$$

## HL-A-2835D49W-2C-S1-08-PCT-HR3

### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	1020	mW
Forward Current	IF	150	mA
Peak Forward Current [1]	IFP	200	mA
Electrostatic Discharge (HBM)	ESD	1000	V
Operating Temperature	Topr	-40 ~ +85	
Storage Temperature	Tstg	-40 ~ +100	
Thermal Resistance Junction / Soldering point	Rthj-s	15	°C/W
Junction Temperature	Tj	115	

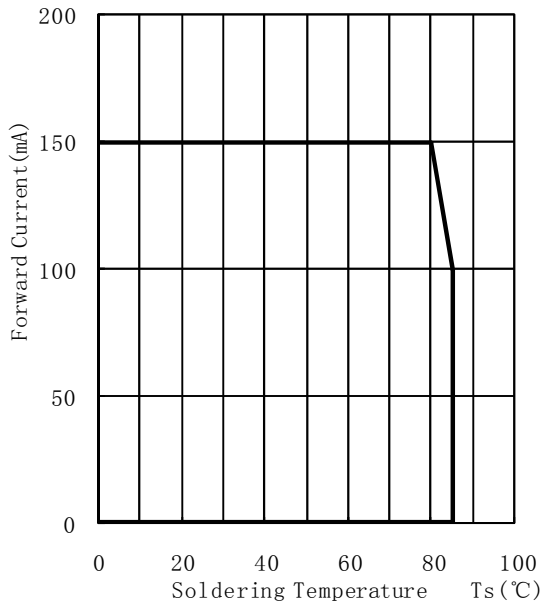
Note:

1. 1/10 Duty cycle, 0.1ms pulse width.      0.1ms,      1/10

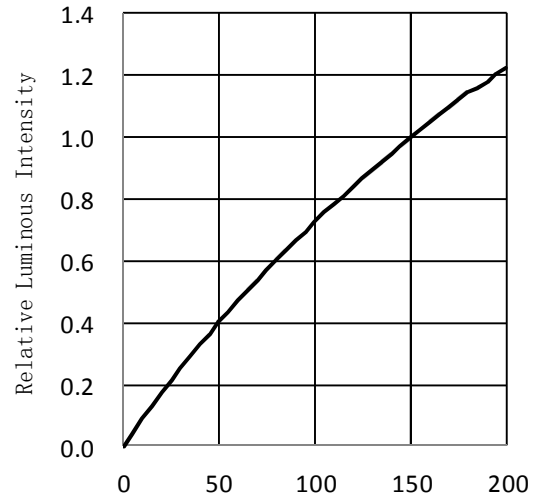
## HL-A-2835D49W-2C-S1-08-PCT-HR3

### Typical optical characteristics curves

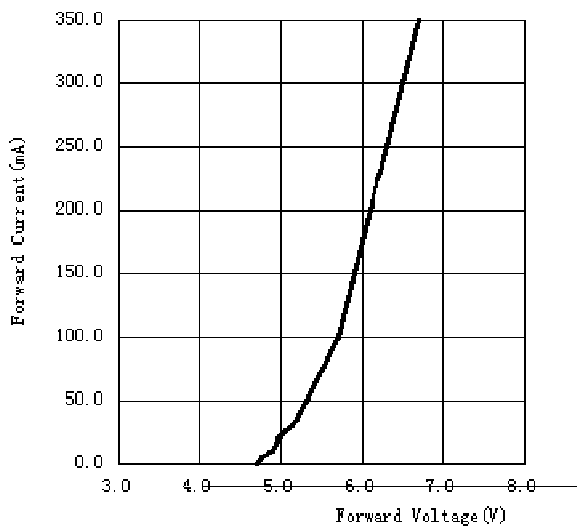
Soldering Temperature vs. Forward Current



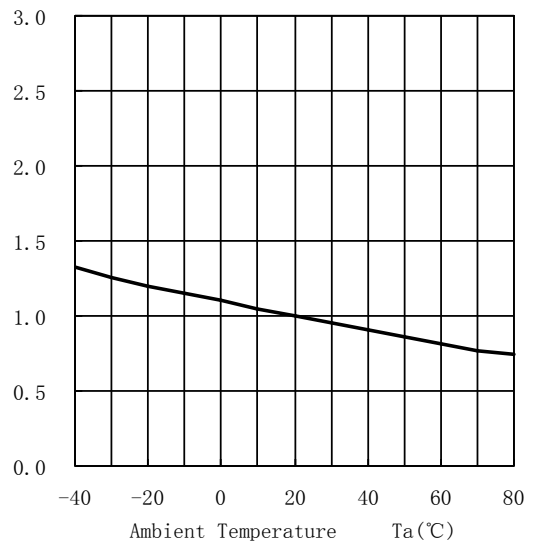
Forward Current VS. Relative Intensity

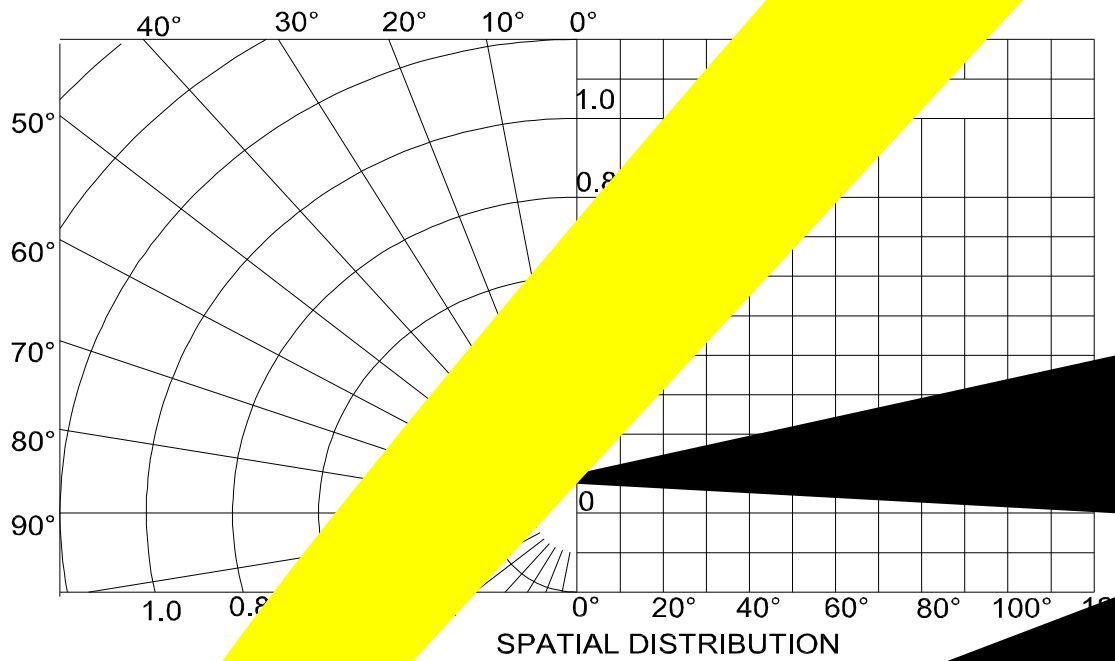


Forward Voltage VS. Forward Current

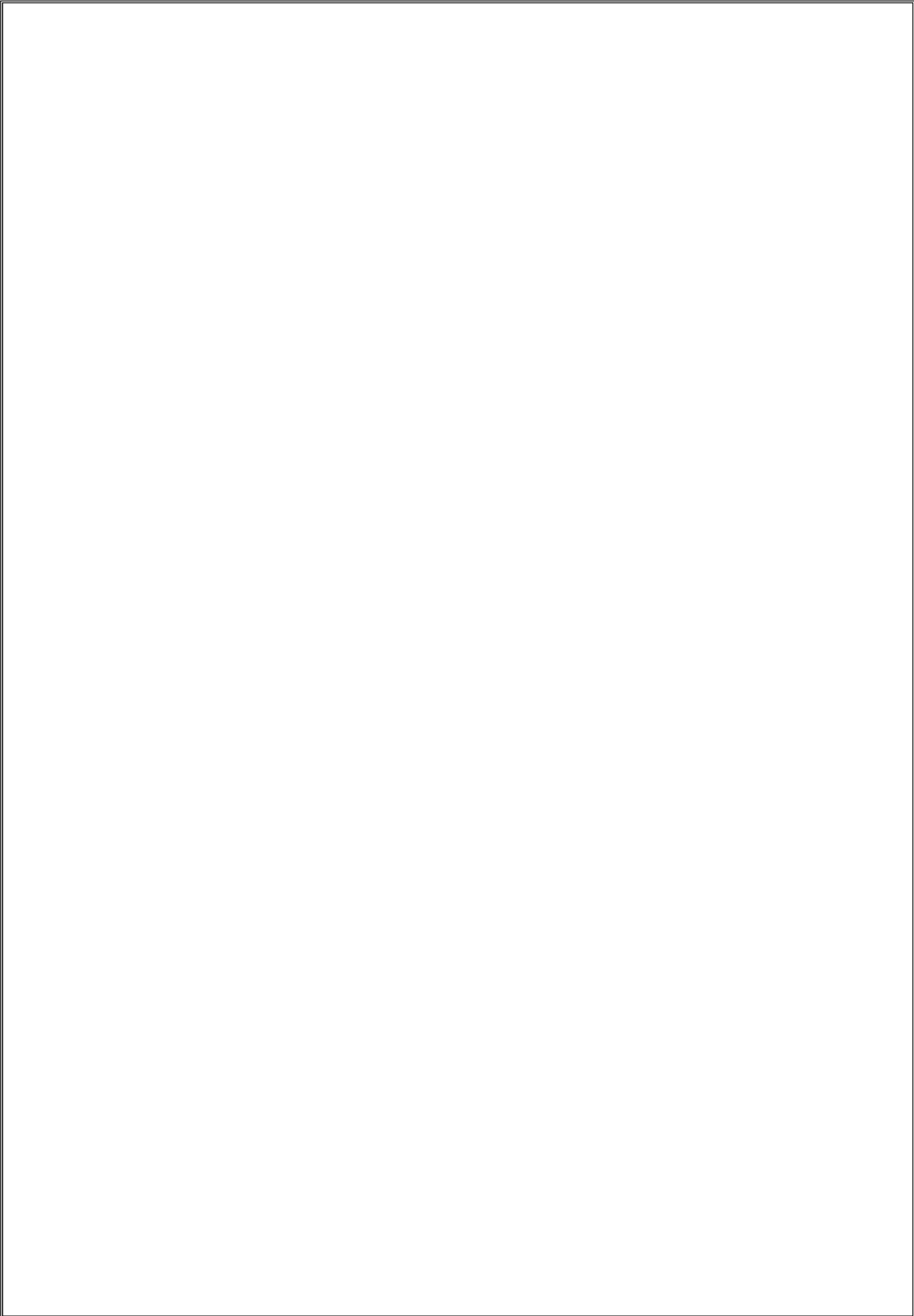


Ambient Temperature VS. Relative Intensity







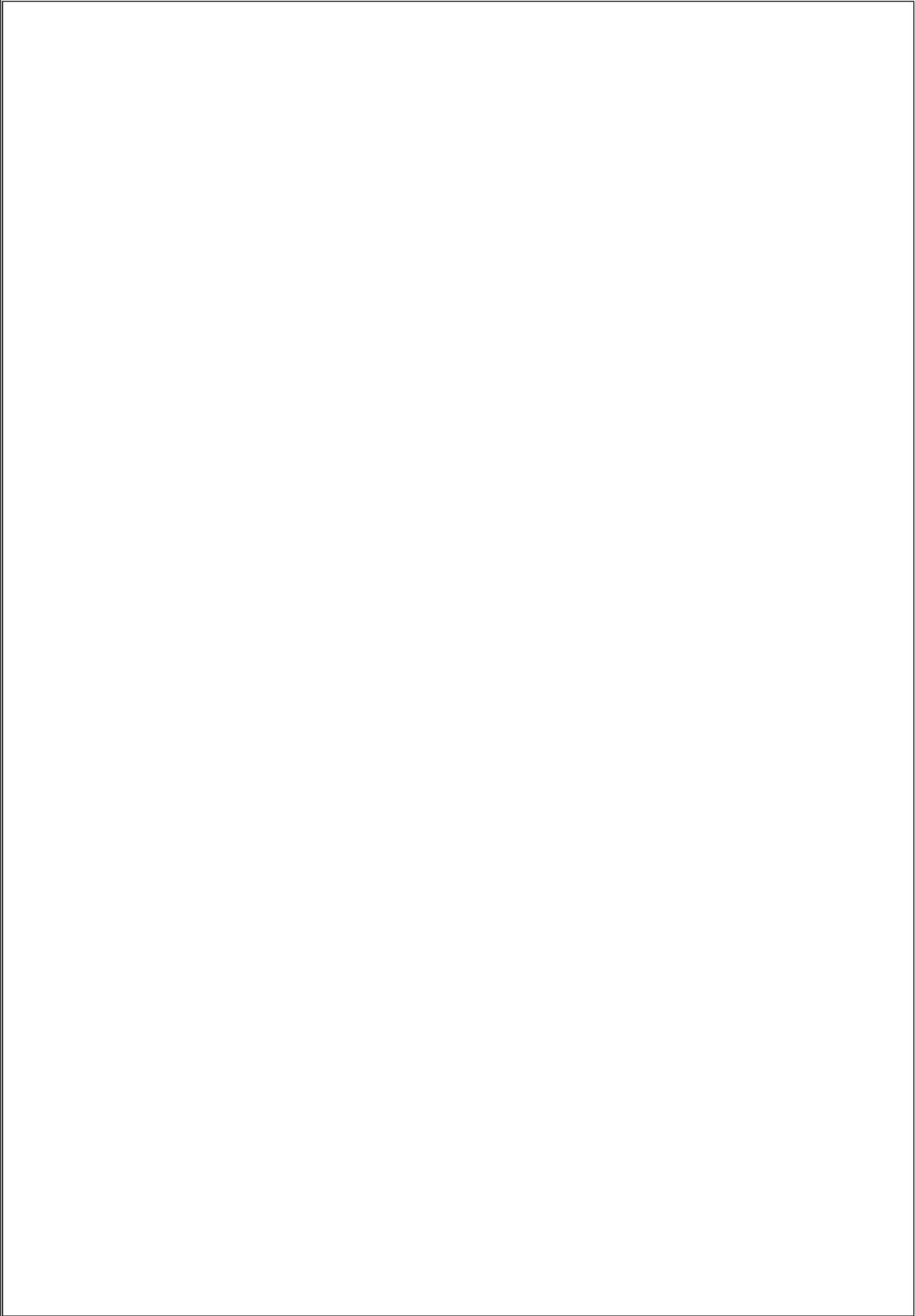


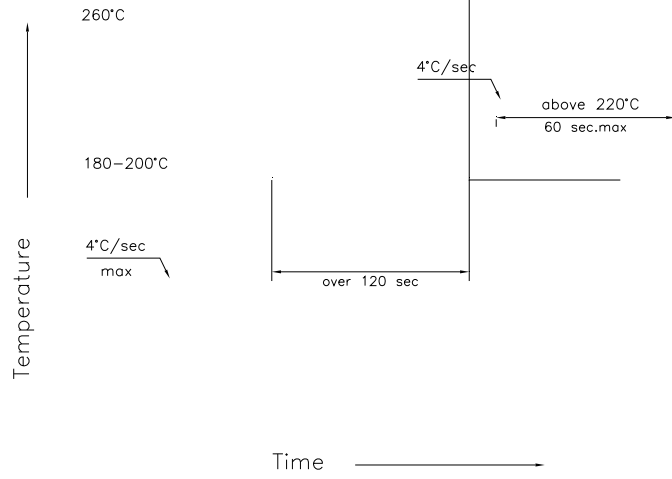


## HL-A-2835D49W-2C-S1-08-PCT-HR3

### Bin Range of Chromaticity Coordinate Bin

CCT	Bin Code Bin	CIE_x	CIE_y	Bin Code Bin	CIE_x	CIE_y
3000K	W42 3000-3100K	0.4354	0.4142	W43 3000-3100K	0.4316	0.4059
		0.4430	0.4165		0.4390	0.4082
		0.4390	0.4082		0.4350	0.3998
		0.4316	0.4059		0.4279	0.3975
	W44 3000-3100K	0.4279	0.3975	W52 2900-3000K	0.4430	0.4165
		0.4350	0.3998		0.4505	0.4189
		0.4310	0.3915		0.4463	0.4106
		0.4241	0.3892		0.4390	0.4082
	W53 2900-3000K	0.4390	0.4082	W54 2900-3000K	0.4350	0.3998
		0.4463	0.4106		0.4420	0.4022
		0.4420	0.4022		0.4378	0.3939
		0.4350	0.3998		0.4310	0.3915
	W62 2800-2900K	0.4505	0.4189	W63 2800-2900K	0.4463	0.4106
		0.4581	0.4212		0.4536	0.4129
		0.4536	0.4129		0.4492	0.4045
		0.4463	0.4106		0.4420	0.4022
	W64 2800-2900K	0.4420	0.4022			
		0.4492	0.4045			
		0.4447	0.3962			
		0.4378	0.3939			





1. Handle the component along the side  
touch or Handle the silicone lens surface

