

# **TEST REPORT**

Kunde: Client:	Aurora (Shanghai) Technology Co., Ltd
Adresse: Address:	Room 221, 2F, Building 6, No.7001, Zhongchun Road, Minhang District, Shanghai
Hersteller: Manufacturer:	Aurora (Shanghai) Technology Co., Ltd
Adresse: Address:	Room 221, 2F, Building 6, No.7001, Zhongchun Road, Minhang District, Shanghai
Name der Marke: Brand Name:	N/A
Beschreibungdes Produkts: Product Description:	LED Point Light
Modelle: Models:	PP0003-LED1.8M-RGBW-85D
Bewertung: Rating:	DC24V, 1.8W
Verfahren: Method:	ANSI/UL 1598-2008, Sections 19
Prüfergebnis*: Test result*:	Pass
Datum day Dyöfus	Detum der Emission - Klassifizierung - Cogeneter d.der Britishung

Datum der Prüfung: Datum der Emission: Klassifizierung: Gegenstand der Prüfung:

Date of Test: Date of Issue: Classification: Test item:

2022-06-22 2022-06-27 **Commission Test** ISTMT+TM21 Test

Prüflabor (Testlabor) / Testing Laboratory:

Yeah Zhang

Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Test von/Test by: Check von/Check by: Genehmigt von/Approved by:

Yeoh Zhang/ Project Engineer Torres He/ Director Jesse Liu/ Manager

Torres Ma

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.



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#### **General remarks:**

- 1. The test results presented in this report relate only to the object tested.
- 2. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.
- 3. The general information of applicant and manufacturer (such as the name and address), product name, model/type reference, trademark and other similar information contained in this report are all provided by the applicant, the laboratory is not responsible for verifying its authenticity.

#### Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB051622083S	1	Original Version

#### **General product information:**

Measurement was conducted at a stable ambient temperature 25°C±1°C Only LED No. W1 and W2 are considered in this report.

#### **Model List:**

Item	Model	Rating	
11 HV	PP0003-LED1.8M-RGBW-85D	DC24V, 1.8W	7

### LED specification:

Model/Series	Manufacturer	VF (V)	IF (mA)
PP0003-LED1.8M-RGB	Aurora (Shanghai) Technology	9	100
W-85D	Co., Ltd		

#### **Equipment list:**

Equipment No.	Equipment Name	Specification data	Cal. Date
SLCS-S-004	Digital Power Meter	YOKOGAWA/ WT210 / 91L424211	2022.5.10
SLCS-S-011	Thermocouple	DE AO/J	2022.5.10
SLCS-S-036	Temperature recorder	AGILENT/ 34970A	2022.5.10



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## 1. GENERAL INFORMATION

## 1.1 Product Information

Information of product:			
Product description	LED Point Light		
Model Number	PP0003-LED1.8M-RGBW-85D		
Manufacturer of LED Driver			
LED Driver models	立讯检测 Lab 工讯检测 Tosting		
Rated Inputs	DC24V		
Rated Power	1.8W		
Declared CCT.	4000K		
LED Package, Array or Module	2S1P, total 2 pcs LED chip(s)		
Date of Receipt Samples	2022-06-22		
Quantity of Receipt Samples	1 unit		
Information of LED chip:	- 115		
LED Chip Manufacturer	Aurora (Shanghai) Technology Co., Ltd		
LED type	Testino IST LCS Testino		
Model of the LED chip(s)	PP0003-LED1.8M-RGBW-85D		
Forward voltage of the LED chip	9V		
Forward current of the LED chip	100mA		
ISTMT temperature of the LED chip	105°C		
IES LM-80 Test Report	Report No.:LCS210303112BS		
	Issue Date: 2022-06-23		
四 接 测 股 份	Tested and Prepared by: Shenzhen Southern LCS		
15 Till Taking Lab	Compliance Testing Laboratory Ltd.		



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## 1.2 Reference Standards or Methods

The following standards are partly or totally used or referenced for test

Standard	Method
ANSI/UL 1598: 2008	In-Situ Temperature Measurement Test is conducted according to the ANSI/UL 1598-2008, Sections 19.7, 19.10-16. The testing was conducted in a room with
LCS Testing Lat	ambient temperature of 25°C±5°C. The apparatus construction followed those described in UL1598-2008 for normal temperature testing. Thermocpuples were placed on the LED package and LED driver in the locations indicated by LM-80 report and driver.  The temperature was recorded after the lamp was operating for a minimum of 7.5 hours.

## 2. Test Result of ISTMT

## 2.1 Electrical data

Criteria Item	Result	
Input voltage	ш\	
Input current	Lab - + inthe interior	一十评
Total power	- LCS Testino	New ros
Power factor		
Current on each LED module		
Remark:		

# 2.2 Temperature data

Ambie	ent Temperature, °C :	25 <u>+</u> 1°C	Relative Hum	idity, %Rh :	45%Rh	n∼70%Rh
Supply	y voltage:	DC24V	Type of therm	ocouples:	J	· 计形位测版 Lab
Test P	roduct Model	PP0003-LED	D1.8M-RGBW-85D			
Test LED Model PP0003-LED		PP0003-LED	1.8M-RGBW-85D			
Test LED Driver Model						
Test Duration ≥3.5Hours						
Item	Parts		Test Result (°C)	Revise to t	a. (°C)	Limit (°C)
1	Measured maximum T @ TEMLED	emperature	41.5	41.4		105
2	Ambient		25.1	25.0		



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# 3. Lumen Maintenance Projection (IESNA TM-21-11 Method)

# 3.1 LM-80 report summary for LED chip(s)

Manufactured by	Aurora (Shangha	Aurora (Shanghai) Technology Co., Ltd			
LED Model	PP0003-LED1.8N	PP0003-LED1.8M-RGBW-85D			
Number of LED light source tested	25units	25units			
Drive Current	100mA				
Case temperature	55°C	85°C	105°C		
9000 hours lumen maintenance	97.49%	97.08%	96.58%		
9000 hours color maintenance (△u'v')	0.0029	0.0032	0.0035		

# 3.2 Lumen Maintenance Projection for luminaires

Criteria Item	Result
50000h at which to estimate lumen maintenance	85.44%
Drive current on each LED light source	100mA
Reported L <sub>70</sub> lumen maintenance life	>54000 hours
Reported L <sub>80</sub> lumen maintenance life	>54000 hours
Reported L <sub>90</sub> lumen maintenance life	34000 hours



\*





### TM-21 Inputs

#### Instructions

Yellow fields are completed by the user. Fields not used should be left blank. Cyan fields are calculated based on user entries.

First, enter a description of the LED light source tested. Then complete the fields tabeled "LM-80 Testing Details". Test duration must be at least 6,000 hours. If only one case temperature data set is obe used (in interpolation), complete only "Tested case temperature 1". For only two case temperature data sets, complete 1 and 2.

Next, further to the right, in the corresponding box(es) for each tested case temperature, enter the test data along with the time (in hours) at which each measurement was taken. Data entered must be normalized then averaged measured data (per TM-21 sections 5.2.1 and 5.2.2). If case temperatures have different test durations, enter data up to the lowest of the test durations for all of the case temperatures.

Enter drive current, in-situ temperature data and the percentage of initial lumens to project to in the fields labeled "In-Situ Inputs".

Results can be tailored to estimate lumen maintenance at a specific time by entering a value (t) in the yellow field. A complete TM-21 report will appear on the next tab labeled "Report".

Description of LED Light Source Tested (manufacturer, model, catalog number)	
Aurora (Shanghai) Technology Co., Ltd PP0003-LED1.8M-RGBW-85D	

Total number of units tested per case temperature:	25
Number of failures:	0
Number of units measured:	25
Test duration (hours):	9000
Tested drive current (mA):	100
Tested case temperature 1 (T <sub>c</sub> , °C):	55
Tested case temperature 2 (T <sub>c</sub> , °C):	85
Tested case temperature 3 (T <sub>c</sub> , °C):	105

In-Situ Inputs			
Drive current for each LED package/array/module (mA):	100		
In-situ case temperature (T <sub>c</sub> , °C):	41.4		
Percentage of initial lumens to project to (e.g. for L <sub>70</sub> ,	70		

#### Results

Time (t) at which to estimate lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	85.44%
Reported L70 (hours):	>54000

### LM-80 Test Inputs

	Temperature		Temperature	re Temperature	
Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%)
1000	100.11%	1000	100.02%	1000	99.97%
2000	99.98%	2000	99.89%	2000	99.47%
3000	99.46%	3000	99.27%	3000	98.87%
4000	99.09%	4000	98.81%	4000	98.51%
5000	98.75%	5000	98.58%	5000	98.27%
6000	98.36%	6000	98.16%	6000	97.92%
7000	98.12%	7000	97.93%	7000	97.48%
8000	97.81%	8000	97.57%	8000	97.14%
9000	97.49%	9000	97.08%	9000	96.58%
••••••					
•					· · · · · · · · · · · · · · · · · · ·



#### TM-21 Report

Description of LED Light Source Tested (manufacturer, model, catalog number)  Test Condition 1 - 55°C Case Temp		Aurora (Shanghai) Technolo PP0003-LED1.8M-RGBW-8		
		Test Condition 2 - 85°C	C Case Temp	Tes
Sample size	25	Sample size	25	Samp
Number of failures	0	Number of failures	0	Numb
DUT drive current used in the test (mA)	100	DUT drive current used in the test (mA)	100	DUT of
Test duration (hours)	9,000	Test duration (hours)	9,000	Test d
Test duration used for projection (hour to hour)	4,000 - 9,000	Test duration used for projection (hour to hour)	4,000 - 9,000	Test d
Tested case temperature (°C)	55	Tested case temperature (°C)	85	Tester (°C)
α	3.215E-06	α	3.473E-06	α
В	1.003	В	1.003	В

>54000 Reported L70(9k) (hours)

Test Condition 3 - 105%	C Case Temp	
Sample size	25	
Number of failures	0	
DUT drive current used in the test (mA)	100	
Test duration (hours)	9,00	
Test duration used for projection (hour to hour)	4,000 - 9,000	
Tested case temperature (°C)	105	
α	3.947E-06	
В	1.002	
Reported L70(9k) (hours)	>54000	

Table 2: Interpolation Report (projection based on <i>in-situ</i> temperature entered)				
T <sub>s,1</sub> (°C)	55.00			
T <sub>s,1</sub> (K)	328.15			
α <sub>1</sub>	3.215E-06			
B <sub>1</sub>	1.003			
T <sub>s,2</sub> (°C)	1-1			
T <sub>s,2</sub> (K)	.5.1			
α <sub>2</sub>	-			
B <sub>2</sub>	(-)			
E <sub>a</sub> /k <sub>b</sub>				
A	-			
B <sub>0</sub>	1.003			
T <sub>s,i</sub> (°C)	41.40			
T <sub>s,i</sub> (K)	314.55			
αί	3.215E-06			
Reported L70(9k) at 41.4°C (hours)	>54000			



Reported L70(9k) (hours)

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#### TM-21 Inputs

Yellow fields are completed by the user. Fields not used should be left blank. Cyan fields are calculated based on user entries.

First, enter a description of the LED light source tested. Then complete the fields tabeled "LM-80 Testing Details". Test duration must be at least 6,000 hours. If only one case temperature data set is obe used (in interpolation), complete only "Tested case temperature 1". For only two case temperature data sets, complete 1 and 2.

Next, further to the right, in the corresponding box(es) for each tested case temperature, enter the test data along with the time (in hours) at which each measurement was taken. Data entered must be normalized then averaged measured data (per TM-21 sections 5.2.1 and 5.2.2). If case temperatures have different test durations, enter data up to the lowest of the test durations for all of the case temperatures.

Enter drive current, in-situ temperature data and the percentage of initial lumens to project to in the fields labeled "In-Situ Inputs".

Results can be tailored to estimate lumer maintenance at a specific time by entering a value (t) in the yellow field. A complete TM-21 report will appear on the next tab labeled "Report".

Description of LED Light Source Tested (manufacturer, model, catalog number)	
Aurora (Shanghai) Technology Co., Ltd PP0003-LED1.8M-RGBW-85D	

LM-80 Testing Details	
Total number of units tested per case temperature:	25
Number of failures:	0
Number of units measured:	25
Test duration (hours):	9000
Tested drive current (mA):	100
Tested case temperature 1 (T <sub>c</sub> , °C):	55
Tested case temperature 2 (T <sub>c</sub> , °C):	85
Tested case temperature 3 (T <sub>ct</sub> °C):	105

In-Situ Inputs				
Drive current for each LED package/array/module (mA):	100			
In-situ case temperature (T <sub>c</sub> , °C):	41.4			
Percentage of initial lumens to project to (e.g. for L <sub>70</sub> , enter 70):	80			

Time (t) at which to estimate lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	85.44%
Reported L80 (hours):	>54000

#### LM-80 Test Inputs

1000	Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%
3000         99.46%         3000         99.27%         3000         98.87%           4000         99.99%         4000         98.81%         4000         98.15%         5000         98.58%         5000         98.27%         5000         98.27%         6000         99.16%         6000         97.22%         7000         97.93%         7000         97.48%         8000         97.14%         8000         97.57%         8000         97.14%	1000	100.11%	1000	100.02%	1000	99.97%
4000         99.09%         4000         98.81%         4000         98.51%           5000         98.75%         5000         98.88%         5000         98.27%           6000         98.36%         6000         98.16%         6000         97.92%           7000         98.12%         7000         97.93%         7000         97.48%           8000         97.81%         8000         97.57%         8000         97.14%	2000	99.98%	2000	99.89%	2000	99.47%
5000         98.75%         5000         98.58%         5000         98.27%           6000         98.36%         6000         99.16%         6000         97.92%           7000         98.12%         7000         97.33%         7000         97.48%           8000         97.81%         8000         97.57%         8000         97.14%	3000	99.46%	3000	99.27%	3000	98.87%
6000         98.35%         6000         98.16%         6000         97.92%           7000         98.12%         7000         97.93%         7000         97.48%           8000         97.14%         8000         97.57%         8000         97.14%	4000	99.09%	4000	98.81%	4000	98.51%
7000         98.12%         7000         97.93%         7000         97.48%           8000         97.81%         8000         97.57%         8000         97.14%	5000	98.75%	5000	98.58%	5000	98.27%
8000 97.81% 8000 97.57% 8000 97.14%	6000	98.36%	6000	98.16%	6000	97.92%
	7000	98.12%	7000	97.93%	7000	97.48%
9000 97.49% 9000 97.08% 9000 96.58%	8000	97.81%	8000	97.57%	8000	97.14%
	9000	97.49%	9000	97.08%	9000	96.58%
			·····			
					***************************************	
			······································			-

R	е	s	u	ı	ts

Time (t) at which to estimate lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	85.44%
Reported L80 (hours):	>54000

enter 70):

### TM-21 Report

Description of LED Light Source Teste (manufacturer, model, catalog number)  Test Condition 1 - 55°C Case Temp		
Number of failures	0	
DUT drive current used in the test (mA)	100	
Test duration (hours)	9,000	
Test duration used for projection (hour to hour)	4,000 - 9,000	
Tested case temperature (°C)	55	
α	3.215E-06	
В	1.003	
Reported L80(9k) (hours)	>54000	

Test Condition 2 - 85°C Case Temp		
Sample size	25	
Number of failures	0	
DUT drive current used in the test (mA)	100	
Test duration (hours)	9,000	
Test duration used for projection (hour to hour)	4,000 - 9,000	
Tested case temperature (°C)	85	
α	3.473E-06	
В	1.003	
Reported L80(9k) (hours)	>54000	

Aurora (Shanghai) Technology Co., Ltd PP0003-LED1.8M-RGBW-85D

Test Condition 3 - 105%	C Case Temp
Sample size	25
Number of failures	0
DUT drive current used in the test (mA)	100
Test duration (hours)	9,000
Test duration used for projection (hour to hour)	4,000 - 9,000
Tested case temperature (°C)	105
α	3.947E-06
В	1.002
Reported L80(9k) (hours)	>54000

Table 2: Interpolation Report (projection based on <i>in-situ</i> temperature entered)		
T <sub>s,1</sub> (°C)	55.00	
T <sub>s,1</sub> (K)	328.15	
α1	3.215E-06	
B <sub>1</sub>	1.003	
T <sub>s,2</sub> (°C)	1-1	
T <sub>s,2</sub> (K)		
α <sub>2</sub>	-	
B <sub>2</sub>	(4)	
E <sub>s</sub> /k <sub>b</sub>		
A	-	
B <sub>0</sub>	1.003	
T <sub>s,i</sub> (°C)	41.40	
T <sub>s,i</sub> (K)	314.55	
αί	3.215E-06	
Reported L80(9k) at 41.4°C (hours)	>54000	



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#### TM-21 Inputs

#### Instructions

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First, enter a description of the LED light source tested. Then complete the fields tabeled "LM-80 Testing Details". Test duration must be at least 6,000 hours. If only one case temperature data set is obe used (no interpolation), complete only "Tested case temperature 1". For only two case temperature data sets, complete 1 and 2.

Next, further to the right, in the corresponding box(es) for each tested case temperature, enter the test data along with the time (in hours) at which each measurement was taken. Data entered must be normalized then averaged measured data (per TM-21 sections 5.2.1 and 5.2.2). If case temperatures have different test durations, enter data up to the lowest of the test durations for all of the case temperatures.

Enter drive current, in-situ temperature data and the percentage of initial lumens to project to in the fields labeled "In-Situ Inputs".

Results can be tailored to estimate lumen maintenance at a specific time by entering a value (t) in the yellow field. A complete TM-21 report will appear on the next tab labeled "Report".

Description of LED Light Source Tested (manufacturer, model, catalog number)	
Aurora (Shanghai) Technology Co., Ltd PP0003-LED1.8M-RGBW-85D	

Total number of units tested per case temperature:	25
Number of failures:	0
Number of units measured:	25
Test duration (hours):	9000
Tested drive current (mA):	100
Tested case temperature 1 (T <sub>c</sub> , °C):	55
Tested case temperature 2 (T <sub>c</sub> , °C):	85
Tested case temperature 3 (T <sub>ct</sub> °C):	105

In-Situ	Inputs	
dule (mA):		ĺ

In-situ case temperature (T<sub>c</sub>.°C):

Percentage of initial lumens to project to (e.g. for L<sub>70</sub>, enter 70):

Drive current for each

#### Results

Time (t) at which to estimate lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	85.44%
Reported L90 (hours):	34,000

LM-80 Test Inputs

Ш	Temperature			Temperature		Temperature	
	Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%)	Time (hours)	Lumen Maintenance (%)	
П	1000	100.11%	1000	100.02%	1000	99.97%	
Ш	2000	99.98%	2000	99.89%	2000	99.47%	
	3000	99.46%	3000	99.27%	3000	98.87%	
L	4000	99.09%	4000	98.81%	4000	98.51%	
.	5000	98.75%	5000	98.58%	5000	98.27%	
П	6000	98.36%	6000	98.16%	6000	97.92%	
П	7000	98.12%	7000	97.93%	7000	97.48%	
Ш	8000	97.81%	8000	97.57%	8000	97.14%	
П	9000	97.49%	9000	97.08%	9000	96.58%	
П						-	
Н							
П					(1.222.1.222.2.222.2.222.2.222.2.2.2.2.2		
Ц							
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-							
,							
Ш							
Н							
Н							
П							
1							



#### TM-21 Report

catalog number)			
Test Condition 1 - 55°C Case Temp			
Sample size	25		
Number of failures	0		
DUT drive current used in the test (mA)	100		
Test duration (hours)	9,000		
Test duration used for projection (hour to hour)	4,000 - 9,000		
Tested case temperature (°C)	55		
α	3.215E-06		

Reported L90(9k) (hours)

1.003

34,000

Description of LED Light Source Tested

Test Condition 2 - 85°C Case Temp		
Sample size	25	
Number of failures	0	
DUT drive current used in the test (mA)	100	
Test duration (hours)	9,000	
Test duration used for projection (hour to hour)	4,000 - 9,000	
Tested case temperature (°C)	85	
α	3.473E-06	
В	1.003	
Reported L90(9k) (hours)	31,000	

Aurora (Shanghai) Technology Co., Ltd PP0003-LED1.8M-RGBW-85D

Test Condition 3 - 105°C Case Temp	
Sample size	25
Number of failures	0
DUT drive current used in the test (mA)	100
Test duration (hours)	9,000
Test duration used for projection (hour to hour)	4,000 - 9,000
Tested case temperature (°C)	105
α	3.947E-06
В	1.002
Reported L90(9k) (hours)	27,000

Table 2: Interpolation Report (projection based on <i>in-situ</i> temperature entered)	
T <sub>s,1</sub> (°C)	55.00
T <sub>s,1</sub> (K)	328.15
α1	3.215E-06
B <sub>1</sub>	1.003
T <sub>s,2</sub> (°C)	-
T <sub>s,2</sub> (K)	
α <sub>2</sub>	-
B <sub>2</sub>	(-)
E <sub>s</sub> /k <sub>b</sub>	
A	-
B <sub>0</sub>	1.003
T <sub>s,i</sub> (°C)	41.40
T <sub>s,i</sub> (K)	314.55
αί	3.215E-06
Reported L90(9k) at 41.4°C (hours)	34,000



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# 4. Photos

# 4.1 Thermocouple contact photo of @ TEM<sub>LED</sub>

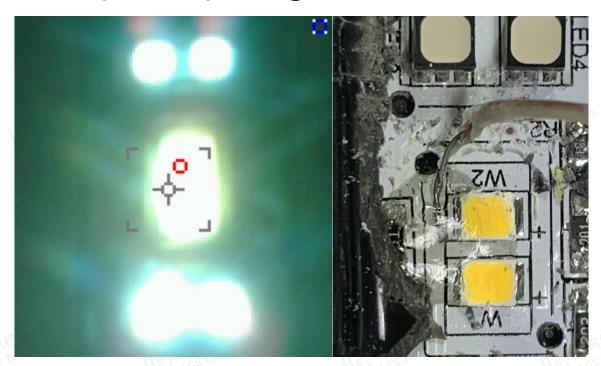


Figure 1



Figure 2



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## **4.2 Product Photos**



Photo 1







Shenzhen Southern LCS Compliance Testing Laboratory Ltd.
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Model: PP0003-LED1.8M-RGBW-85D

DC24V, 1.8W



IP66 Ta.40℃

Aurora (Shanghai) Technology Co., Ltd

Room 221, 2F, Building 6, No.7001, Zhongchun Road,

Minhang District, Shanghai

Importer: xxxxxxxx Address: xxxxxxxx

**MADE IN CHINA** 

Photo 3 Label of the light





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