



**Technical Report No.: 68.184.22.0933.01**

**Date: 2022-11-21**

**Client:** Name: Huoming Technology (Guangdong) Co., Ltd  
Address: Unit 3501, 35 / F, HaiJunda Plaza, Guizhou Avenue, Zhenhua community, Ronggui, Shunde District, Foshan City, Guangdong Province, China  
  
Contact person: Wang Yanhong

**Factory:** Manufacturer's name: Shenzhen Dixuan Science&Technology Co., Ltd.  
Address: 4-5 F B13 Bldg, Hengfeng Industrial Area, Hezhou Xixiang Town, Baoan District, Shenzhen, Guangdong, China  
  
Factory's name: Shenzhen Dixuan Science&Technology Co., Ltd.  
Address: 4-5 F B13 Bldg, Hengfeng Industrial Area, Hezhou Xixiang Town, Baoan District, Shenzhen, Guangdong, China

**Test object:** Product: Led desk lamp  
Type: DX-OK06/HWT-H01

**Trade mark:** Honeywell

**Test specification:** (EU) 2019/2020:2019-10-01; (EU) 2021/341:2021-02-23

**Purpose of examination:** Testing and evaluation according to the test specification for the following items:  
1) Total lumen flux measurement;  
2) Power consumption measurement;  
3) Luminous Efficacy;  
4) Colour rendering (Ra);  
5) CCT;  
6) SDCM;  
7) Power factor (PF);  
8) Pst LM, SVM.

**Test result:** This report is only for test result, without verdict, see item 4 of this report for details.

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu,  
Nantou, Nanshan District, Shenzhen, Guangdong 518052, China

Telephone : +86 755 8828 6998  
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## 1. Description of the test object

### 1.1 Picture(s)

See below Annex 1.

### 1.2 Function

Manufacturer's specification for intended use:  
Led desk lamp for general lighting purposes.

### 1.3 Consideration of the foreseeable use

- Not applicable
- Covered through the applied standard
- Covered by the following comment\*
- Covered by attached risk analysis

\*

### 1.4 Technical Data

#### LED luminaires (Led desk lamp)

Model	:	DX-OK06/HWT-H01
Rated Voltage	:	100-240VAC
Rated Frequency	:	50/60Hz
Rated Power	:	12W
Rated CCT	:	3000K, 4500K, 5700K

## 2. Order

### 2.1 Date of Purchase Order, Customer's Reference

- 2022-04-11

### 2.2 Test Sample(s)

- Reception date(s): 2pcs samples were received on 2022-11-01.
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China

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- Condition of test sample(s): Good

## 2.3 Date(s) of Testing

- 2022-11-01 to 2022-11-21

## 2.4 Location(s) of Testing

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China

## 2.5 Points of Non-Compliance or Exceptions of the Test Procedure

- None

## 3. Test instruments and conditions

- “ Decision rule according to IEC Guide 115:2021, clause 4.4.3, 4.5.1 was applied”

### 3.1 Test instruments and conditions

Equipment	Model	Brand/Manufacturer	Calibration due date
Digital Power Meter	WT210	YOKOGAWA	2023-02-19
Digital Multimeter	34401A	Agilent	2023-04-01
Digital Temperature and Humidity data logger	SK-L200TH	Japan SATO	2023-05-12
Integrating sphere test system	CSLMS-7621	Labsphere	2023-10-16
Goniophotometer system	GO-R5000-SML	Everfine	2023-02-21
Flicker tester	LFA-3000	Everfine	2023-02-23

### 3.2 General conditions for measurement

Ambient temperature(°C):	25±1°C
Maximum relative humidity:	50%
Maximum air speed(m/s):	0.1
Test voltage tolerance:	±0.2%
Test voltage and frequency	230VAC, 50Hz



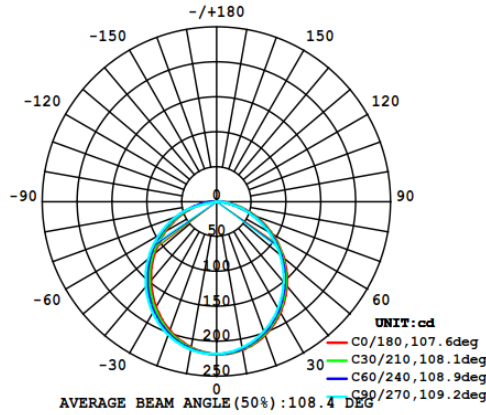
## 4. Test Result

Table 1	Test data					
Model:	DX-OK06/HWT-H01					
Input	230VAC			Frequency (Hz):	50	
$\Phi_{use}$ measured at:	total luminous flux			Ambient (T/rh) (°C / %)	25 / 50	
Test item	Measured Value					
Sample:	1 (Black cover)			2 (White cover)		
Rated CCT	3000K	4500K	5700K	3000K	4500K	5700K
U (V)	230	230	230	230	230	230
I (mA)	60.29	57.82	60.52	59.85	57.34	56.82
P (W)	10.73	10.17	10.75	10.61	10.07	10.60
PF	0.7730	0.7642	0.7713	0.7701	0.7626	0.7697
$\Phi_{use}$ (lm)	498.4	564.7	555.6	591.6	665.8	655.0
Luminous Efficacy (Lumens/Watt)	46.4	55.5	51.7	55.8	66.1	61.8
CCT (K)	3013	4231	5781	3016	4229	5783
CRI	95.0	88.5	91.9	94.4	87.7	91.4
R9	97.7	70.7	81.3	95.8	68	79
SDCM (ANSI_C788.377)	3.2 (3000K)	3.3 (4500K)	2.0 (5700K)	2.9 (3000K)	3.3 (4500K)	2.1 (5700K)
Flicker (P <sub>st</sub> LM)	0.005	0.027	0.013	0.006	0.025	0.012
Stroboscopic effect (SVM)	0.027	0.090	0.002	0.022	0.080	0.002



Photometric test record for Light intensity distribution

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	218.0	217.2	216.2	215.9	216.1	216.9	217.7	218.2	0- 5	5.202	5.202	0.87, 0.87
10	215.4	213.9	212.2	211.3	211.6	213.3	215.0	215.9	5- 10	15.40	20.61	3.45, 3.45
15	210.5	208.4	206.0	204.6	205.0	207.5	210.1	211.2	10- 15	25.00	45.61	7.63, 7.63
20	203.4	200.9	197.9	196.0	196.4	199.7	203.1	204.4	15- 20	33.64	79.25	13.3, 13.3
25	194.3	191.4	188.0	185.7	186.0	190.1	194.2	195.6	20- 25	41.00	120.2	20.1, 20.1
30	183.4	180.3	176.7	173.9	174.2	178.9	183.7	185.0	25- 30	46.85	167.1	28, 28
35	170.9	167.7	163.9	160.9	161.1	166.3	171.6	172.8	30- 35	51.01	218.1	36.5, 36.5
40	157.2	153.8	150.0	146.8	147.1	152.6	158.3	159.3	35- 40	53.39	271.5	45.4, 45.4
45	142.3	138.9	135.1	132.0	132.2	138.0	143.8	144.6	40- 45	53.96	325.5	54.5, 54.5
50	126.4	123.1	119.4	116.5	116.8	122.7	128.5	129.0	45- 50	52.76	378.2	63.3, 63.3
55	109.9	106.5	103.1	100.4	100.9	106.7	112.4	112.6	50- 55	49.86	428.1	71.6, 71.6
60	92.70	89.35	86.15	83.94	84.68	90.34	95.72	95.59	55- 60	45.37	473.4	79.2, 79.2
65	75.16	71.77	68.91	67.26	68.34	73.64	78.53	78.08	60- 65	39.49	512.9	85.8, 85.8
70	57.51	54.11	51.57	50.67	52.09	56.93	61.05	60.43	65- 70	32.44	545.4	91.3, 91.3
75	40.27	37.03	34.78	34.56	36.44	40.51	43.63	43.02	70- 75	24.60	570.0	95.4, 95.4
80	24.22	21.22	19.47	19.96	21.86	25.11	0.0302	26.71	75- 80	16.20	586.2	98.1, 98.1
85	10.08	7.773	6.104	7.436	9.290	11.61	0.0077	12.41	80- 85	8.369	594.6	99.5, 99.5
90	1.222	0.7749	0.1742	0.7365	0.8303	1.538	0.0216	1.529	85- 90	2.384	596.9	99.9, 99.9
95	0.2539	0.1963	0.0624	0.2251	0.2102	0.3078	0.0076	0.3372	90- 95	0.2583	597.2	99.9, 99.9
100	0.0495	0.0950	0.0310	0.0609	0.0628	0.1437	0.0090	0.1131	95-100	0.0649	597.3	99.9, 99.9
105	0.0392	0.0663	0.0311	0.1172	0.0451	0.0777	0.0122	0.0586	100-105	0.0375	597.3	100, 100
110	0.0352	0.0514	0.0348	0.0885	0.0398	0.0528	0.0154	0.0413	105-110	0.0289	597.3	100, 100
115	0.0342	0.0434	0.0411	0.0737	0.0374	0.0415	0.0198	0.0363	110-115	0.0235	597.3	100, 100
120	0.0376	0.0431	0.0484	0.0682	0.0322	0.0386	0.0245	0.0353	115-120	0.0212	597.4	100, 100
125	0.0453	0.0487	0.0591	0.0712	0.0404	0.0376	0.0282	0.0357	120-125	0.0214	597.4	100, 100
130	0.0537	0.0554	0.0692	0.0768	0.0366	0.0374	0.0323	0.0359	125-130	0.0217	597.4	100, 100
135	0.0599	0.0605	0.0761	0.0807	0.0397	0.0409	0.0364	0.0389	130-135	0.0217	597.4	100, 100
140	0.0655	0.0648	0.0822	0.0834	0.0470	0.0465	0.0425	0.0452	135-140	0.0214	597.5	100, 100
145	0.0772	0.0770	0.0959	0.0914	0.0548	0.0528	0.0527	0.0519	140-145	0.0217	597.5	100, 100
150	0.0935	0.0913	0.1127	0.1058	0.0596	0.0583	0.0573	0.0582	145-150	0.0221	597.5	100, 100
155	0.1093	0.1055	0.1245	0.1191	0.0628	0.0634	0.0606	0.0650	150-155	0.0216	597.5	100, 100
160	0.1175	0.1141	0.1288	0.1257	0.0611	0.0608	0.0648	0.0644	155-160	0.0192	597.5	100, 100
165	0.1201	0.1158	0.1263	0.1268	0.0591	0.0613	0.0654	0.0621	160-165	0.0153	597.6	100, 100
170	0.1204	0.1153	0.1189	0.1240	0.0517	0.0499	0.0629	0.0546	165-170	0.0107	597.6	100, 100
175	0.1029	0.0958	0.0930	0.0954	0.0350	0.0316	0.0380	0.0338	170-175	0.0056	597.6	100, 100
180	0.0371	0.0353	0.0377	0.0350	0.0370	0.0349	0.0372	0.0348	175-180	0.0013	597.6	100, 100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			



## 5. Remarks

According to customer's requirement, containing product (Led desk lamp) regarded as a light source for ErP photometric test. This report is only for test result, without verdict.

## 6. Documentation

Annex 1: Photo documentation.

## 7. Summary

This report is only for test result, without verdict, see item 4 of this report for details.

### TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch TÜV SÜD Group

Tested by:

*Sky Feng*

Sky Feng, Project handler

Approved by:

*Jake Xu*

Jake Xu, Designated Reviewer



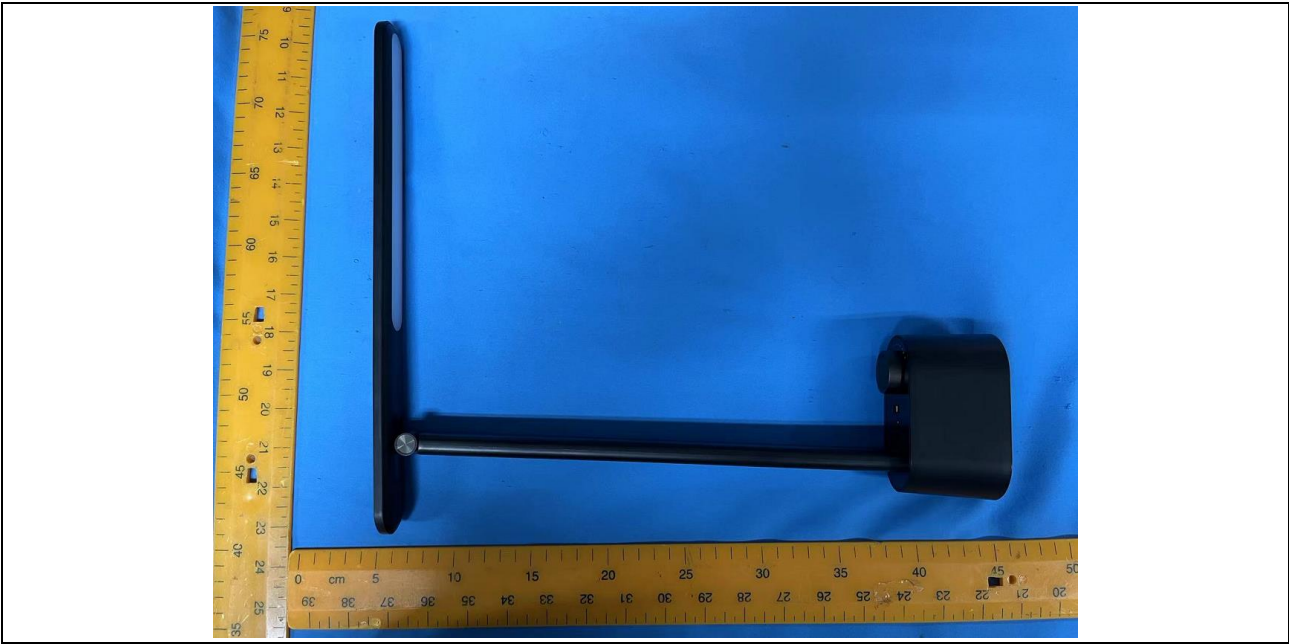


**Annex 1: Photo document**

Details of: Overview of test sample for white cover



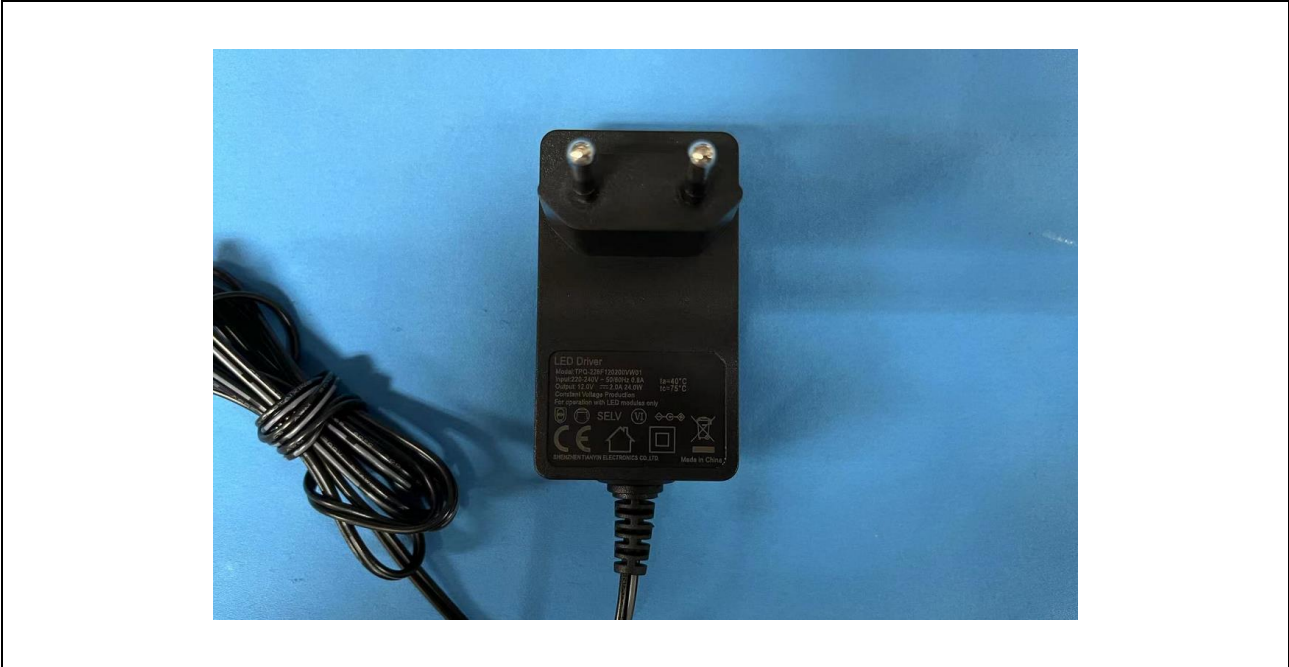
Details of: Overview of test sample for black cover



**Annex 1: Photo document**

Details of: Overview for LED driver

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--END OF REPORT--