



TEST REPORT IEC/EN 60598-2-4

Luminaire Part 2-4: Particular requirements Portable general purpose luminaires



Report Reference No..... : ZHC-12JY0331LCSP
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Testing Laboratory Name : LCIE CHINA
Address : Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai P.R.C (201612)
Testing procedure : TMP
Testing location/ address..... :

Applicant's name : CHAOZHOU ZHENHONG CERAMICS MANUFACTORY
Address..... : Xialin, Gubantou, Fengxi, Chaozhou Guangdong, China

Test specification:

Standard : IEC 60598-2-4:1997 used in conjunction with IEC 60598-1:2008
 EN 60598-2-4:1997 used in conjunction with EN 60598-1:2008+A11: 2009
Test procedure..... : GS
Non-standard test method..... : N/A

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The Accreditation only attests the technical capability of the testing laboratory for the tests covered by the accreditation

Test item description..... : Table lamp
Trade Mark..... : CHAOZHOU ZHENHONG CERAMICS MANUFACTORY
Model/Type reference..... : Details see model list on page 30
Ratings..... : 220-240V~, 50Hz, Class II, IP20
Manufacturer : CHAOZHOU ZHENHONG CERAMICS MANUFACTORY
Factory location : Xialin, Gubantou, Fengxi, Chaozhou Guangdong, China

Summary of testing:

Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.

A representative sample of the products covered by this report has been tested and complies with the applicable requirements of this standard.

Tests performed (name of test and test clause):

We performed the tests as following:

All sections for model CTM10401-2

Construction check (clause 0-8,11) , Endurance test (clause 12.3) and Thermal test (clause 12.4&12.5) for model CTM4002

Construction check (clause 0-8,11) for model CTM6301 and JHK225D.

Visual Examination for other models.

Annex 6: EMF: EN62493:2010

Testing location:

LCIE CHINA

Building 4, No. 518, Xin Zhuan Road, CaoHejing Songjiang High-Tech Park, Shanghai P.R.C (201612)

Summary of compliance with National Differences:

The relevant requirement of EK-1 is also under consideration.

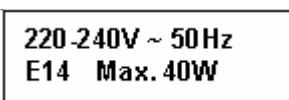
EN 62493:2010 is also under consideration, and this kind of products are deem to comply with EMF requirement without testing.

Copy of marking plate

Other models' marking plate just reference, lampholder type and technical information are different; see detail on the model list on page 30.

Label:

On the base



On each lampholder

Instruction:

TISCHLAMPE

Bedienungsanleitung

Technische Daten

Modell: CTM10401-2

Spannungsbereich: 220-240V

Leistungsaufnahme: 3x max.40W

Anwendungsbereich

Nur für den **Hausgebrauch** und ähnliche Zwecke bestimmt! Nur zur Verwendung in **Innenräumen!**

Montage:

1. Platzieren Sie den Lampenschirm auf die Glühbirnenfassung
2. Schrauben Sie den Befestigungsring auf die Lampenfassung
3. Schrauben Sie die Glühbirne in die Halterung ein.

Hinweis:

1. Ziehen Sie den Stromstecker aus der Steckdose, bevor Sie mit dem Aufbau der Lampe beginnen.
2. Die Glühbirne darf die maximale Wattleistung nicht überschreiten.
3. Nur für den Gebrauch in Innenräumen.
4. Falls das äußere, flexible Kabel oder die Leitung dieser Lampe beschädigt ist, muss es von einer Fachkraft ersetzt werden um Gefahren zu vermeiden.
5. Von Feuchtigkeit und Wasser fernhalten.
6. Bei sichtbaren Beschädigungen darf die Lampe nicht benutzt werden.
7. Beim Austausch der Glühbirne bitte erst den Stromstecker aus der Steckdose ziehen. Tauschen Sie die Glühbirne erst dann aus, wenn die Lampe ausreichend abgekühlt ist.
8. Ausserhalb der Reichweite von Kindern und Tieren aufbewahren.
9. Benutzen Sie die Lampe nur auf ebenen, stabilen Oberflächen.

Reinigung und Wartung

Vor der Montage und Reinigung bitte schalten Sie die Leuchte aus und ziehen den Netzstecker aus der Steckdose!

Wischen Sie das Gehäuse der Leuchte mit einem leicht angefeuchteten Tuch ab und nachtrocknen. Verwenden Sie auf keinen Fall Chemikalien oder andere aggressive Reinigungsmittel.

Kundendienst

CHAOZHOU ZHENHONG CERAMICS MANUFACTORY
Xialin, Gubantou, Fengxi, Chaozhou, Guangdong, China

Test item particulars	: Table lamp
Classification of installation and use	: Class II, IP20
Supply Connection	: Non-detachable cable with plug
.....	:
.....	:
Possible test case verdicts:	
Test case is not demanded to the test object :	ND: Not demanded
Test case does not apply to the test object ...:	N/A: Not Applicable
Test item does meet the requirement	P: Pass
Test item does not meet the requirement	F: Fail
Testing	
Date of receipt of test item	: July 05, 2012
Date (s) of performance of tests.....	: July 05, 2012 to August 16, 2012

General remarks:

This report is not valid as a GS Test Report unless signed by an approved GS Testing Laboratory and appended to a GS Test Certificate issued by a GS-Stelle in accordance with ZEK-GB-2002-01

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Clause numbers between brackets refer to clauses in IEC 60 598-1 (EN 60 598-1)

Throughout this report a comma is used as the decimal separator.

General product information:

The products covered in this report are table lamps, which have the similar construction, except type of lampholder and appearance are different.

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

4.2 (0)	GENERAL TEST REQUIREMENTS		
4.2 (0.1)	Information for luminaire design considered	Standard EN 60432 Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
4.2 (0.3)	More sections applicable	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

4.4 (2)	CLASSIFICATION		
4.4 (2.2)	Type of protection (Class 0 excluded)..... :	Class II	—
4.4 (2.3)	Degree of protection (Requirement: Ordinary)..... :	IP 20	—
4.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire not suitable for direct mounting on normally flammable surfaces..... :	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
4.4 (2.5)	Luminaire for normal use	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

4.5 (3)	MARKING		
4.5 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
4.5 (3.3)	Additional information		P
	Language of instructions	German	P
4.5 (3.3.1)	Combination luminaires		N/A
4.5 (3.3.2)	Nominal frequency in Hz		P
4.5 (3.3.3)	Operating temperature		N/A
4.5 (3.3.4)	Symbol or warning notice		N/A
4.5 (3.3.5)	Wiring diagram		N/A
4.5 (3.3.6)	Special conditions		N/A
4.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
4.5 (3.3.8)	Limitation for semi-luminaires		N/A
4.5 (3.3.9)	Power factor and supply current		N/A
4.5 (3.3.10)	Suitability for use indoors		N/A
4.5 (3.3.11)	Luminaires with remote control		N/A
4.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
4.5 (3.3.13)	Specifications of protective shields		N/A
4.5 (3.3.14)	Symbol for nature of supply	~	P
4.5 (3.3.15)	Rated current of socket outlet		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.5 (3.3.16)	Rough service luminaire		N/A
4.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
4.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
4.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
4.5 (3.3.20)	Provided with information if not intended to be mounted within arms reach		N/A
4.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P

4.6 (4)	CONSTRUCTION		P
4.6 (4.2)	Components replaceable without difficulty		P
4.6 (4.3)	Wireways smooth and free from sharp edges		P
4.6 (4.4)	Lampholders		P
4.6 (4.4.1)	Integral lampholder		N/A
4.6 (4.4.2)	Wiring connection		N/A
4.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
4.6 (4.4.4)	Positioning		P
	- pressure test (N)		N/A
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)	1,2Nm for E14 lampholder 2,0Nm for E27 lampholder	P
	After test the lampholder have not moved from its position and show no permanent deformation		P
4.6 (4.4.5)	Peak pulse voltage		N/A
4.6 (4.4.6)	Centre contact		N/A
4.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
4.6 (4.4.8)	Lamp connectors		N/A
4.6 (4.4.9)	Caps and bases correctly used		N/A
4.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Starter holder class II construction		N/A
4.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
4.6 (4.7)	Terminals and supply connections		P
4.6 (4.7.1)	Contact to metal parts		N/A
4.6 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
4.6 (4.7.3)	Terminals for supply conductors		P
4.6 (4.7.3.1)	Welded connections:		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.8.2		N/A
	- electrical test according to 15.9		N/A
	- heat test according to 15.9.2.3 and 15.9.2.4		N/A
4.6 (4.7.4)	Terminals other than supply connection		P
4.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A
4.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
4.6 (4.8)	Switches:		P
	- adequate rating		P
	- adequate fixing		P
	- polarized supply		N/A
	- compliance with 61058-1 for electronic switches		N/A
4.6 (4.9)	Insulating lining and sleeves		N/A
4.6 (4.9.1)	Retainment		N/A
	Method of fixing		N/A
4.6 (4.9.2)	Insulated linings and sleeves		N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C)		N/A
4.6 (4.10)	Insulation of Class II luminaires		P

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
4.6 (4.10.2)	Assembly gaps:		P
	- not coincidental		P
	- no straight access with test probe		P
4.6 (4.10.3)	Retainment of insulation:		P
	- fixed		P
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lampholder		P
4.6 (4.11)	Electrical connections		P
4.6 (4.11.1)	Contact pressure		P
4.6 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
4.6 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
4.6 (4.11.4)	Material of current-carrying parts		P
4.6 (4.11.5)	No contact to wood or mounting surface		P
4.6 (4.11.6)	Electro-mechanical contact systems		N/A
4.6 (4.12)	Mechanical connections and glands		P
4.6 (4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		P
	Torque test: torque (Nm); part : 0,5Nm for cord anchorage		P
	Torque test: torque (Nm); part :		N/A
	Torque test: torque (Nm); part :		N/A
4.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
4.6 (4.12.4)	Locked connections:		P
	- fixed arms; torque (Nm)..... : 2,5Nm		P
	- lampholder; torque (Nm)..... : 1,2Nm for E14 lampholder 2,0Nm for E27 lampholder		P
	- push-button switches; torque 0,8 Nm..... :		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.12.5)	Screwed glands; force (Nm)		N/A
4.6 (4.13)	Mechanical strength		P
4.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm).....	0,35Nm	P
	- other parts; energy (Nm)	0,5Nm	P
	1) live parts		P
	2) linings		P
	3) protection		P
	4) covers		P
4.6 (4.13.3)	Straight test finger		P
4.6 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
4.6 (4.13.6)	Tumbling barrel		N/A
4.6 (4.14)	Suspensions and adjusting devices		N/A
4.6 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm)		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
4.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		N/A
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
4.6 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles		N/A
	- strands broken		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- electric strength test afterwards		N/A
4.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
4.6 (4.14.5)	Guide pulleys		N/A
4.6 (4.14.6)	Strain on socket-outlets		N/A
4.6 (4.15)	Flammable materials:		P
	- glow-wire test 650 °C		P
	- spacing \geq 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
4.6 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
4.6 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear	(compliance with Section 12)	P
4.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
4.6 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
4.6 (4.16.3)	Design to satisfy the test of 12.6	(see 12.6)	N/A
4.6 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
4.6 (4.18)	Resistance to corrosion:		N/A
4.6 (4.18.1)	- rust-resistance		N/A
4.6 (4.18.2)	- season cracking in copper		N/A
4.6 (4.18.3)	- corrosion of aluminium		N/A
4.6 (4.19)	Ignitors compatible with ballast		N/A
4.6 (4.20)	Rough service vibration		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.21)	Protective shield:		N/A
4.6 (4.21.1)	Shield fitted		N/A
	Shield of glass if tungsten halogen lamps		N/A
4.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
4.6 (4.21.3)	No direct path		N/A
4.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment		N/A
4.6 (4.22)	Attachments to lamps		N/A
4.6 (4.23)	Semi-luminaires comply Class II		N/A
4.6 (4.24)	UV radiation for tungsten halogen lamps and metal halide lamps (Annex P)		N/A
4.6 (4.25)	No sharp point or edges		P
4.6 (4.26)	Short-circuit protection:		N/A
4.6 (4.26.1)	Uninsulated accessible SELV parts		N/A
4.6 (4.26.2)	Short-circuit test		N/A
4.6 (4.26.3)	Test chain according to Figure 29		N/A
4.6.1 (-)	Insulation not damaged when placing on support		P
4.6.2 (-)	Wiring fixed, to avoid rubbing		P
4.6.3 (-)	Stability 6°		P
4.6.4 (-)	Candlestick luminaires with switch		N/A
4.6.5 (-)	E5 lampholders		N/A

4.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		
	Working voltage (V)	230V	—
	Voltage form	Sinusoidal <input checked="" type="checkbox"/> Non-sinusoidal <input type="checkbox"/>	—
	PTI	< 600 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/>	—
	Impulse withstand category (Normal category II) (Category III Annex U)	Category II <input checked="" type="checkbox"/> Category III <input type="checkbox"/>	—
	Rated pulse voltage (kV)	N/A	—
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm)	Cr>5,0mm, Cl>5,0mm,	P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm)	Cr>8,0mm, Cl>4,5mm,	P
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm)	Cr>9,0mm, Cl>9,0mm	P

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm)..... :	Cr>5,0mm, Cl>5,0mm	P
	(5) Not used		—
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm) :	Cr>9,0mm, Cl>9,0mm,	P

4.8 (7)	PROVISION FOR EARTHING		N/A
4.8 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A
	Resistance < 0,5 Ω		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		N/A
4.8 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
4.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
4.8 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
4.8 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
4.8 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
4.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
4.8 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A

4.9 (14)	SCREW TERMINALS		N/A
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 3)	N/A

4.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		P
	Separately approved; component list	(see Annex 1)	P
	Part of the luminaire	(see Annex 4)	N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

4.10 (5)	EXTERNAL AND INTERNAL WIRING		P
4.10 (5.2)	Supply connection and external wiring		P
4.10 (5.2.1)	Means of connection.....	Non-detachable cord with plug	P
4.10 (5.2.2)	Type of cable	H03VVH2-F	P
	Nominal cross-sectional area (mm ²).....	0,75mm ²	P
	Cables equal to IEC 60227 or IEC 60245		P
4.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
4.10 (5.2.5)	Type Z not connected to screws		N/A
4.10 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
4.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
4.10 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		P
4.10 (5.2.9)	Locking of screwed bushings		N/A
4.10 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
4.10 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		P
4.10 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N) : 60N		P
	- torque test: torque (Nm) : 0,15Nm		P
	- displacement ≤ 2 mm		P
	- no movement of conductors		P
	- no damage of cable or cord		P
4.10 (5.2.11)	External wiring passing into luminaire		N/A
4.10 (5.2.12)	Looping-in terminals		N/A
4.10 (5.2.13)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A
4.10 (5.2.14)	Mains plug same protection		P
	Class III luminaire plug		N/A
4.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Appliance couplers of class II type		N/A
4.10 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
4.10 (5.2.18)	Used plug in accordance with		P
	- IEC 60083		P
	- other standard		P
4.10 (5.3)	Internal wiring		P
4.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A) :		N/A
	- temperatures : (see Annex 2)		N/A
	Green-yellow for earth only		N/A
4.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²) : 2X 0,75mm ²		P
	Insulation thickness		P
	Extra insulation added where necessary		N/A
4.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Adequate cross-sectional area and insulation thickness		N/A
4.10 (5.3.1.3)	Double or reinforced insulation for class II		P
4.10 (5.3.1.4)	Conductors without insulation		N/A
4.10 (5.3.1.5)	SELV current-carrying parts		N/A
4.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
4.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
4.10 (5.3.3)	Insulating bushings:		P
	- suitable fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- cables with protective sheath		P
4.10 (5.3.4)	Joints and junctions effectively insulated		N/A
4.10 (5.3.5)	Strain on internal wiring		N/A
4.10 (5.3.6)	Wire carriers		N/A
4.10 (5.3.7)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A

4.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
4.11 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, within arms reach, on wall-mounted luminaires		N/A
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		P

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
4.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		P
4.11 (8.2.3.a)	Class II luminaire:		P
	- basic insulated metal parts not accessible during starter or lamp replacement		P
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
4.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed		N/A
4.11 (8.2.3.c)	Class III luminaires with exposed SELV parts:		N/A
	Ordinary luminaire:		N/A
	- touch current		N/A
	- no-load voltage		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage		N/A
4.11 (8.2.4)	Portable luminaire:		P
	- protection independent of supporting surface		P
	- terminal block completely covered		N/A
4.11 (8.2.5)	Compliance with the standard test finger or relevant probe		P
4.11 (8.2.6)	Covers reliably secured		P
4.11 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$		N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A

4.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
4.12 (12.3)	Endurance test:		P
	- mounting-position	As normal use	—
	- test temperature (°C)	35°C	—
	- total duration (h)	240h	—
	- supply voltage: Un factor; calculated voltage (V):	U=1,05U to Pn	—

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- lamp used	GLS 40W	—
4.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
4.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
4.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	P
4.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
4.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		—
	- case of abnormal conditions.....		—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un ..		—
	- measured mounting surface temperature (°C) at 1,1 Un		N/A
	- calculated mounting surface temperature (°C) ..		N/A
	- track-mounted luminaires		N/A
4.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions.....		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C) ...		N/A
	- track-mounted luminaires		N/A
4.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
4.12 (12.7.1)	Luminaire without temperature sensing control		N/A
4.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex V.....		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions		—
	- Ballast failure at supply voltage (V)		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex V:		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un.. :		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
4.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un.. :		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
4.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
4.12 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- manual reset cut-out	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- auto reset cut-out	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/exposed part (°C):..... :		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
4.12 (-)	Test overturned position (overturns < 15°)		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
4.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP 20	—
	- mounting position during test	As normal use	—
	- fixing screws tightened; torque (Nm).....	N/A	—
	- tests according to clauses	Clause 9.2.0	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard		N/A
	d) i) For luminaires without drain holes – no water entry		N/A
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		N/A
	f) no contact with live parts (IP 2X)		P
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
	f) no contact with live parts (IP3X and IP4X)		N/A
	g) no trace of water on part of lamp requiring protection from splashing water		N/A
	h) no damage of protective shield or glass envelope		N/A
4.13 (9.3)	Humidity test 48 h		P

4.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
4.14 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	Covered by metal foil	—
	Insulation resistance (MΩ)		—
	SELV:		N/A
	- between current-carrying parts of different polarity		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	Other than SELV:		P
	- between live parts of different polarity.....	>100MΩ	P

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts and mounting surface..... :	>100MΩ	P
	- between live parts and metal parts..... :	>100MΩ	P
	- between live parts of different polarity through action of a switch		N/A
4.14 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		P
	SELV:		N/A
	- between current-carrying parts of different polarity		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	Other than SELV:		P
	- between live parts of different polarity..... :	1480V	P
	- between live parts and mounting surface..... :	2960V	P
	- between live parts and metal parts..... :	2960V	P
	- between live parts of different polarity through action of a switch		N/A
4.14 (10.3)	Touch current (mA)..... :	<0,7mA	P

4.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
4.15 (13.2.1)	Ball-pressure test:		P
	- part tested; temperature (°C)..... :	Close-end connector: 125°C	P
	- part tested; temperature (°C)..... :		N/A
4.15 (13.3.1)	Needle flame test (10 s):		P
	- part tested..... :	Close-end connector	P
	- part tested..... :	Switch	P
4.15 (13.3.2)	Glow-wire test (650°C):		P
	- part tested..... :	Lampshade	P
	- part tested..... :		N/A
4.15 (13.4.1)	Tracking test: part tested		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1: components		
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object/part No.	code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
Plug	B	Unirise Electric Wire & Cable Co., Ltd.	UE-211	2.5A,250V~	EN50075	VDE 40014452
Alt- Plug	D	Harvest Electric Wire and Products Mfg. Co. Ltd.	HE-101	2.5A,250V~	EN50075	VDE 131005
Alt- Plug	D	Dongguan Power-Sun Industry Co., Ltd.	BCP-012	2.5A,250V~	EN50075	VDE 40033684
Alt- Plug	D	Kenic Electric Mfg. Co. Ltd.	KE-21	2.5A,250V~	EN50075	VDE 097182
Cable	B	Unirise Electric Wire & Cable Co., Ltd.	H03VVH2-F	2x0,75mm ²	DIN VDE 0281-5	VDE 40014452
Alt-Cable	D	Harvest Electric Wire and Products Mfg. Co. Ltd.	H03VVH2-F	2x0,75mm ²	DIN VDE 0281-5	VDE 131005
Alt-Cable	D	Dongguan Power-Sun Industry Co., Ltd.	H03VVH2-F	2x0,75mm ²	DIN VDE 0281-5	VDE 40033684
Alt-Cable	D	Kenic Electric Mfg. Co. Ltd.	H03VVH2-F	2x0,75mm ²	DIN VDE 0281-5	VDE 097182
Switch	B	Openwise Industrial Ltd.	303	2A 250V~	EN61058-1	VDE 106396
Lampholder	B	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E14-S-1	E14 250V~ 2A T210°C	EN60238	VDE 40019136
Lampholder	B	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E27-S	E27 250V~ 4A T210°C	EN60238	VDE 40019138
			E27-S-1			

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 2: temperature measurements, thermal tests of Section 12		
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	Type reference	CTM10401-2	—
	Lamp used.....	GLS E14 3x40W	—
	Lamp control gear used	N/A	—
	Mounting position of luminaire	As normal use	—
	Supply wattage (W)	126W	—
	Supply current (A)	0,5A	—
	Calculated power factor	N/A	—
	Table: measured temperatures corrected for ta = 25 °C:		
	- abnormal operating mode	N/A	—
	- test 1: rated voltage	N/A	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	P = 1,05 P (Un)	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	N/A	—
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....	N/A	—
	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—

temperature (°C) of part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	limit
Lamp caps	-	99	-	210	-	-
Supply cord(stressed)	-	32	-	75	-	-
Internal wire	-	48	-	90	-	-
Lampholder	-	85	-	210	-	-
Switch	-	26	-	55	-	-
Close-end connector	-	32	-	(1)	-	-
Mounting surface	-	31	-	90	-	-
Lighted surface	-	32	-	90	-	-

(1) Refer for ball press test

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

	Type reference	CTM4002	—
	Lamp used.....	GLS E27 60W	—
	Lamp control gear used	N/A	—
	Mounting position of luminaire	As normal use	—
	Supply wattage (W)	63W	—
	Supply current (A)	0,26A	—
	Calculated power factor	N/A	—
	Table: measured temperatures corrected for $t_a = 25\text{ }^\circ\text{C}$:		
	- abnormal operating mode	Overturning 15°	—
	- test 1: rated voltage	N/A	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	$P = 1,05 P (U_n)$	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	N/A	—
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....	$P = 1,05 P (U_n)$	—
	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—

temperature ($^\circ\text{C}$) of part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	limit
Lamp caps	-	73	-	210	-	-
Supply cord(stressed)	-	31	-	75	-	-
Internal wire	-	46	-	90	-	-
Lampholder	-	72	-	210	-	-
Switch	-	29	-	55	-	-
Mounting surface	-	31	-	90	-	-
Lighted surface	-	30	-	90	-	-

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 3: screw terminals (part of the luminaire)		
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(14)	SCREW TERMINALS		N/A
(14.2)	Type of terminal.....:		—
	Rated current (A).....:		—
(14.3.2.1)	One or more conductors		N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		N/A
	Cross-sectional area (mm ²).....:		N/A
(14.3.3)	Conductor space (mm).....:		N/A
(14.4)	Mechanical tests		N/A
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread) ..:	M	N/A
	External wiring		N/A
	No soft metal		N/A
(14.4.5)	Corrosion		N/A
(14.4.6)	Nominal diameter of thread (mm)		N/A
	Torque (Nm)		N/A
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N)		N/A
(14.4.8)	Without undue damage		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 4: screwless terminals (part of the luminaire)	
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(15)	SCREWLESS TERMINALS	N/A
(15.2)	Type of terminal.....:	—
	Rated current (A).....:	—
(15.3.1)	Material	N/A
(15.3.2)	Clamping	N/A
(15.3.3)	Stop	N/A
(15.3.4)	Unprepared conductors	N/A
(15.3.5)	Pressure on insulating material	N/A
(15.3.6)	Clear connection method	N/A
(15.3.7)	Clamping independently	N/A
(15.3.8)	Fixed in position	N/A
(15.3.10)	Conductor size	N/A
	Type of conductor	N/A
(15.5.1)	Terminals internal wiring	N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples).....:	N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples).....:	N/A
	Insertion force not exceeding 50 N	N/A
(15.5.2)	Permanent connections: pull-off test (20 N)	N/A
(15.6)	Electrical tests	N/A
	Voltage drop (mV) after 1 h (4 samples).....:	N/A
	Voltage drop of two inseparable joints	N/A
	Number of cycles	—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:	N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:	N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples)	N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)	N/A
(15.7)	Terminals external wiring	N/A
	Terminal size and rating	N/A

EN 60598-2-4											
Clause	Requirement + Test									Result - Remark	Verdict
(15.8.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)										N/A
	Pull test pin or tab terminals (4 samples); pull (N)										N/A
(15.9)	Contact resistance test										N/A
	Voltage drop (mV) after 1 h										N/A
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop of two inseparable joints										
	Voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV)										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV)										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV)										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV)										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 5: National Differences for (country name) or Group Differences		
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	CENELEC COMMON MODIFICATIONS (EN)		P
4.5 (3)	MARKING		P
4.5 (3.3.101)	Adequate warning on the package		P
4.10 (5)	EXTERNAL AND INTERNAL WIRING		P
4.10 (5.2.1)	Connecting leads		N/A
	- without a means for connection to the supply		N/A
	- terminal block specified		N/A
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
4.10 (5.2.2)	Cables equal to HD21 S2 or HD22 S2		P

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A
(3.3)	DK: power supply cord with label		N/A
	IT: warning label on Class 0 luminaire		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, SE, GB: type of plug		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
(13.3)	DK: Needle flame test during 30 s		N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation		N/A
(13.3.2)	FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public or 960°C for luminaires in emergency exits		N/A

EN 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

#ANNEX 6 EMF Requirements			
	The Tested product also complies to the requirements of EN 62493 :2010		-
1	DISTURBANCE VOLTAGE		P
	Disturbance voltage mains terminals in the frequency range from 20 kHz to 30 MHz		P
2	RADIATED ELECTROMAGNETIC DISTURBANCE – MAGNETIC FIELD		P
	Radiated electromagnetic disturbances in the frequency range from 100 kHz to 30 MHz		P
3	RADIATED ELECTROMAGNETIC DISTURBANCE - ELECTRIC FIELD6		P
	Radiated electromagnetic disturbances in the frequency range from 30 MHz to 300 MHz		P
4	INDUCED CURRENT DENSITY TEST		P
	the measured (weighted and summarized) induced current density due to the electric field in the frequency range 20 kHz to 10 MHz does not exceed the factor (F) 0,85		P

Model list

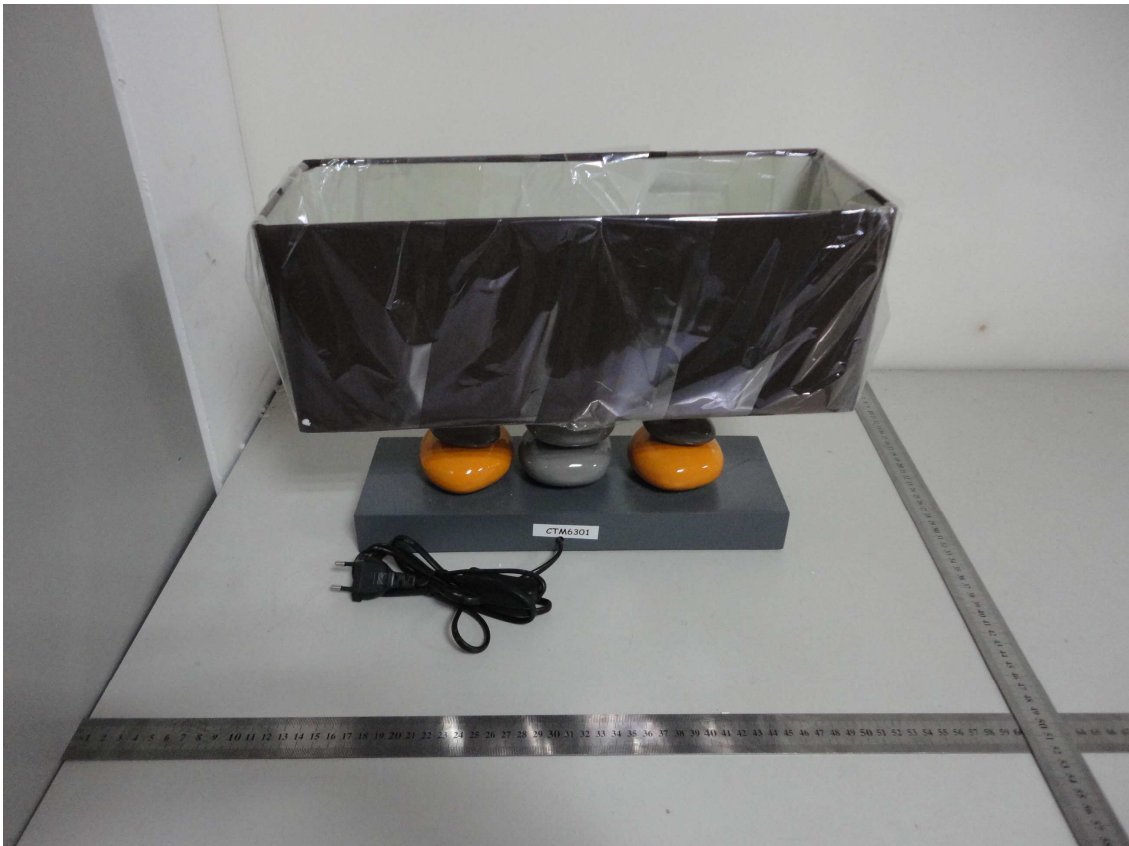
Model name	Lampholder type	Rated wattage	Model name	Lampholder type	Rated wattage
CTM10401-2	E14	3X40W	JHK225D	E14	40W
CTM6301	E14	2X40W	CTM4002	E27	60W
CT1393	E14	40W	C1391	E14	40W
CT1593	E14	40W	CT1691	E14	40W
CT2031	E14	40W	CT3802	E14	40W
CT4103	E14	40W	CT4420	E14	40W
JHK069	E14	40W	JHK015	E14	40W
SY1204	E14	40W	SY1212	E14	40W
SY1221	E14	40W	SY0910 1	E14	40W
CT3801	E14	40W	CT2001	E14	40W
CT2007	E14	40W	CT1412	E14	40W
CT1501	E14	40W	CT1317	E14	40W
SY0325	E14	40W	CTM211-4	E14	40W
CT3404-4	E14	40W	SY09103	E14	40W
CT2008	E14	40W	CTM3100-1	E27	60W
CT4801-2	E27	60W	CT5050-6	E27	60W
CT5404-10	E27	60W	CT5801-2	E27	60W
CT5901-3	E27	60W	CT6105-3	E27	60W
CT6103	E27	60W	CT3101	E27	60W
CT4317	E27	60W	CT5043	E27	60W
CT4009	E27	60W	CT6902-4	E27	60W
JHK501	E27	60W	JHK502	E27	60W
JHK015	E14	40W	-	-	-

Sample overview Picture

CTM10401-2(E14)



CTM6301(E14)



JHK225D(E14)



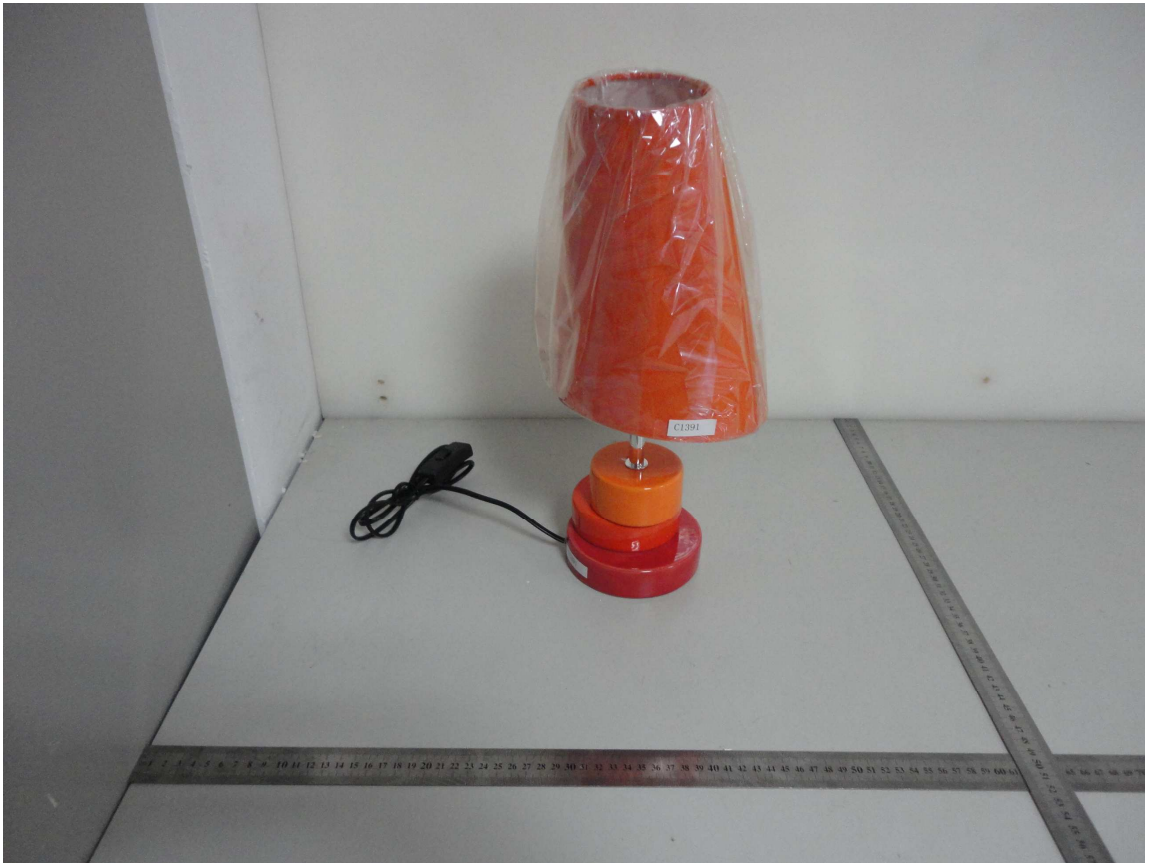
CTM4002(E27)



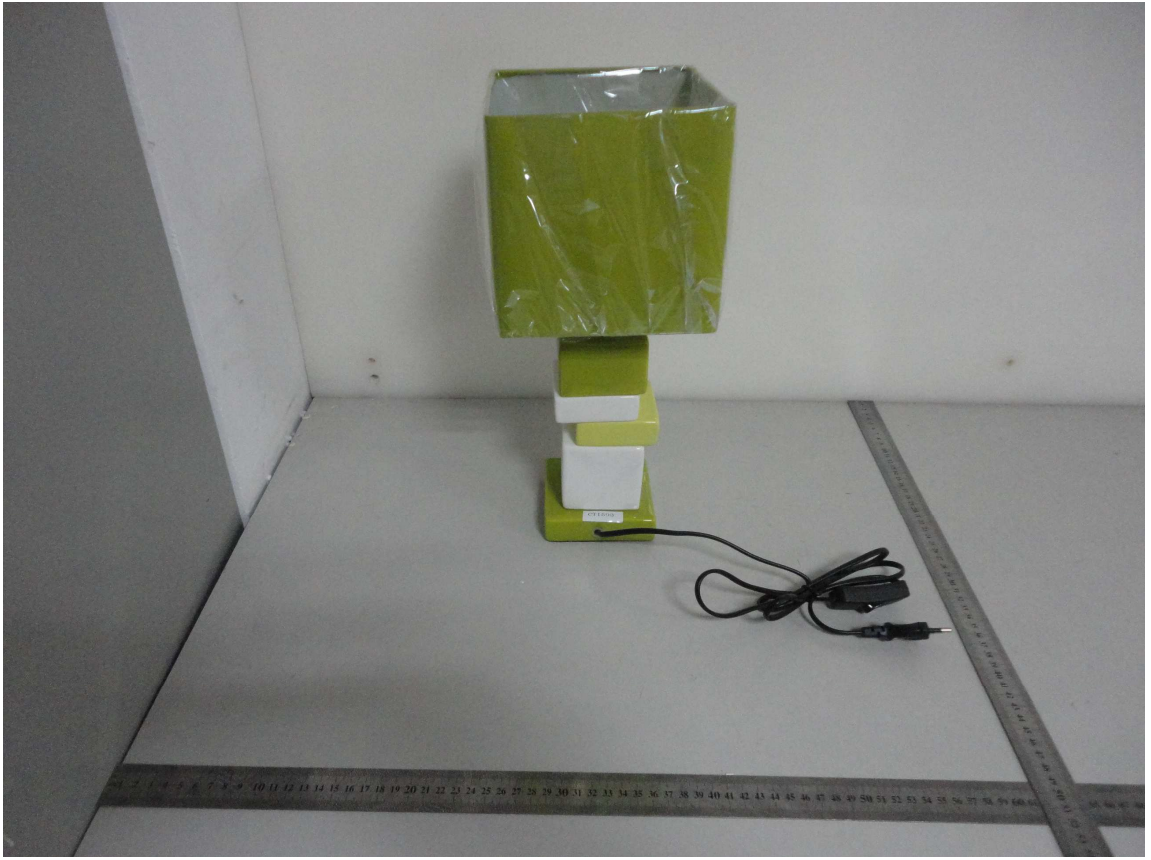
CT1393(E14)



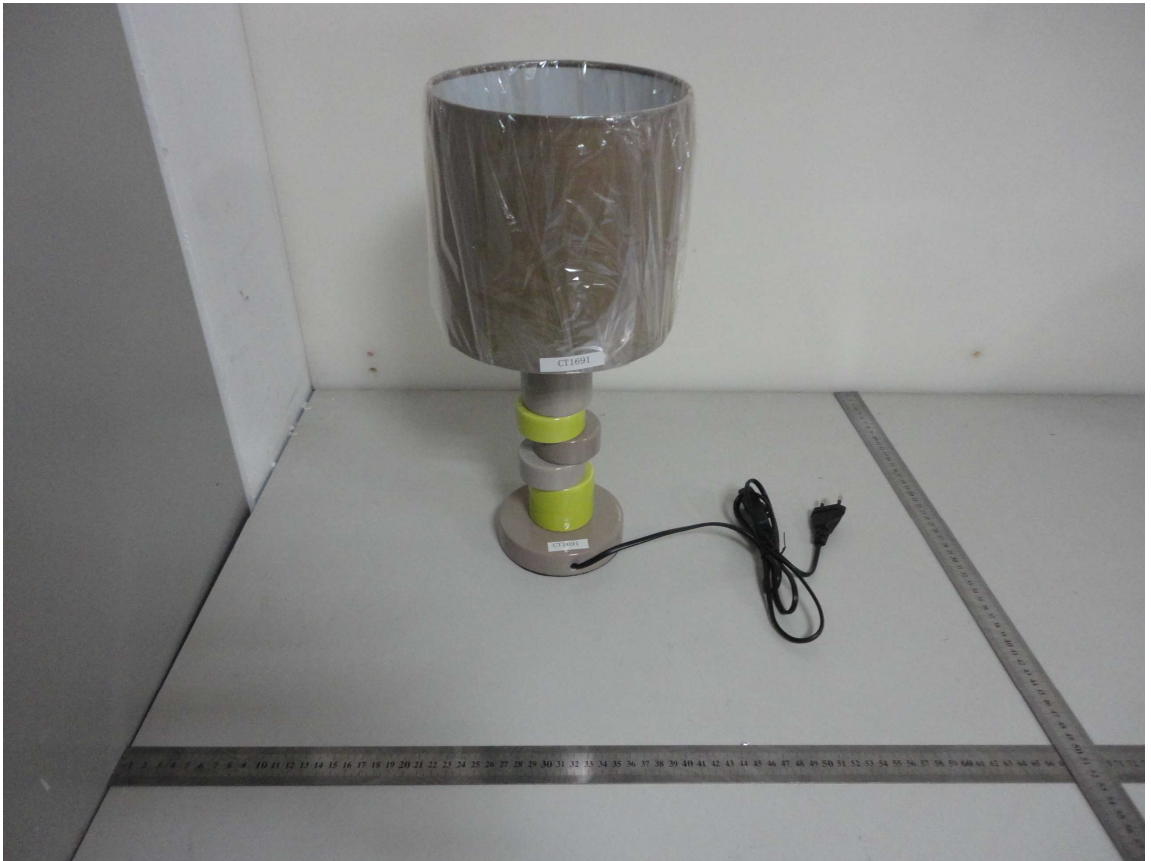
C1391(E14)



CT1593(E14)



CT1691(E14)



CT2031(E14)



CT3802(E14)



CT4103(E14)



CT4420(E14)



JHK069(E14)



JHK015(E14)



SY1204(E14)



SY1212(E14)



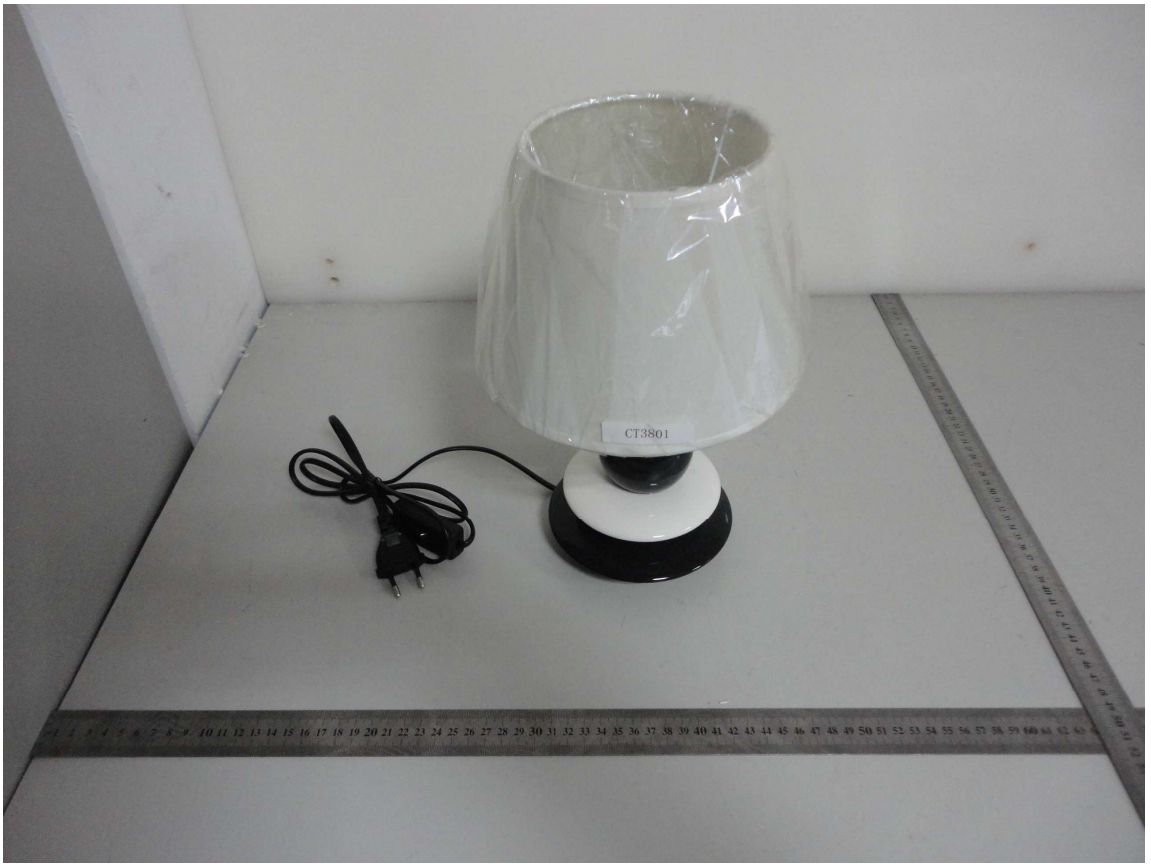
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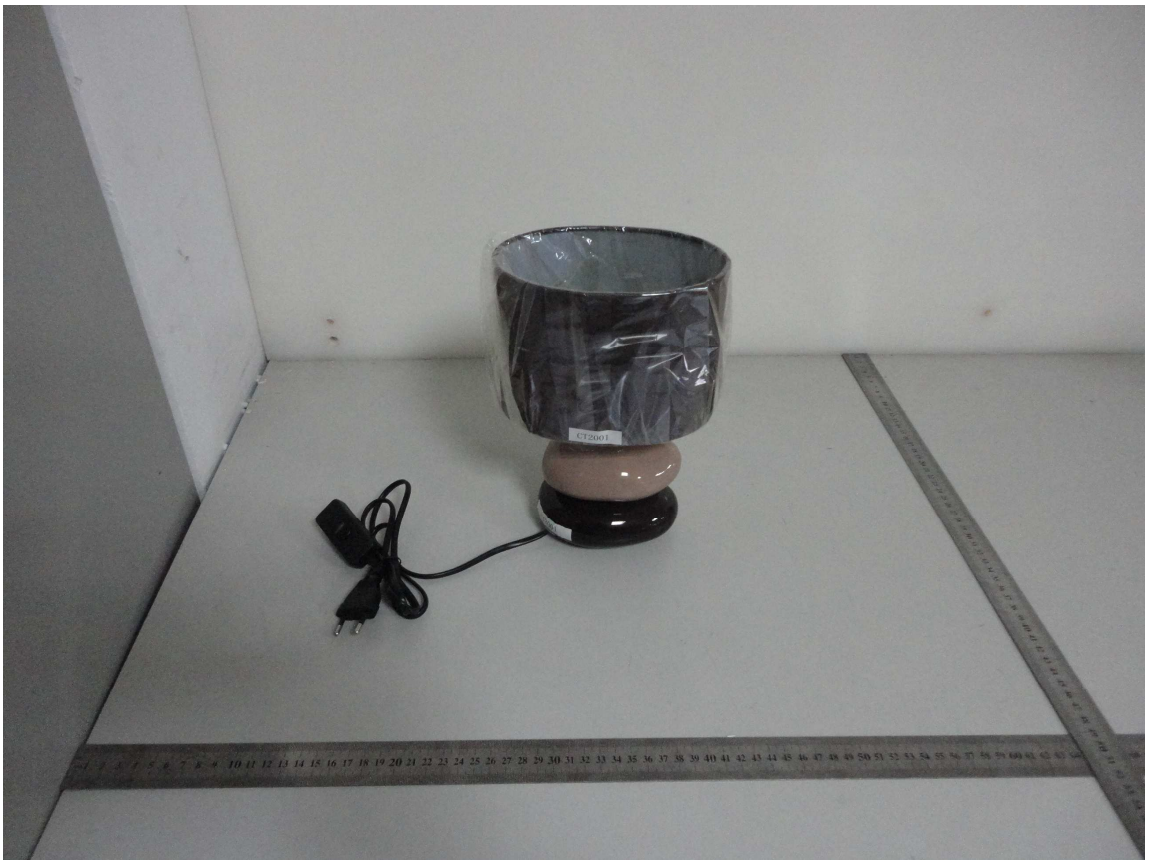
SY09101(E14)



CT3801(E14)



CT2001(E14)



CT2007(E14)



CT1412(E14)



CT1501(E14)



CT1317(E14)



SY0325(E14)



CTM211-4(E14)



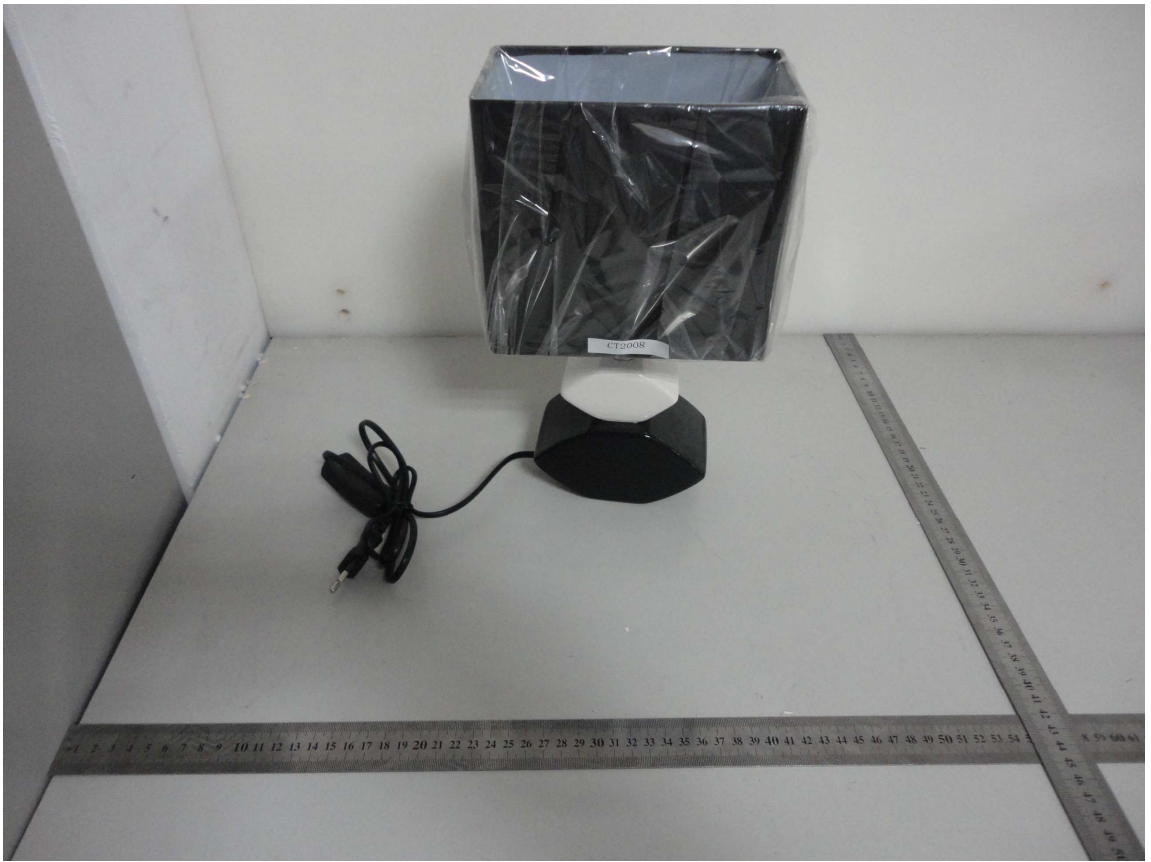
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SY09103(E14)



CT2008(E14)



CTM3100-1(E27)



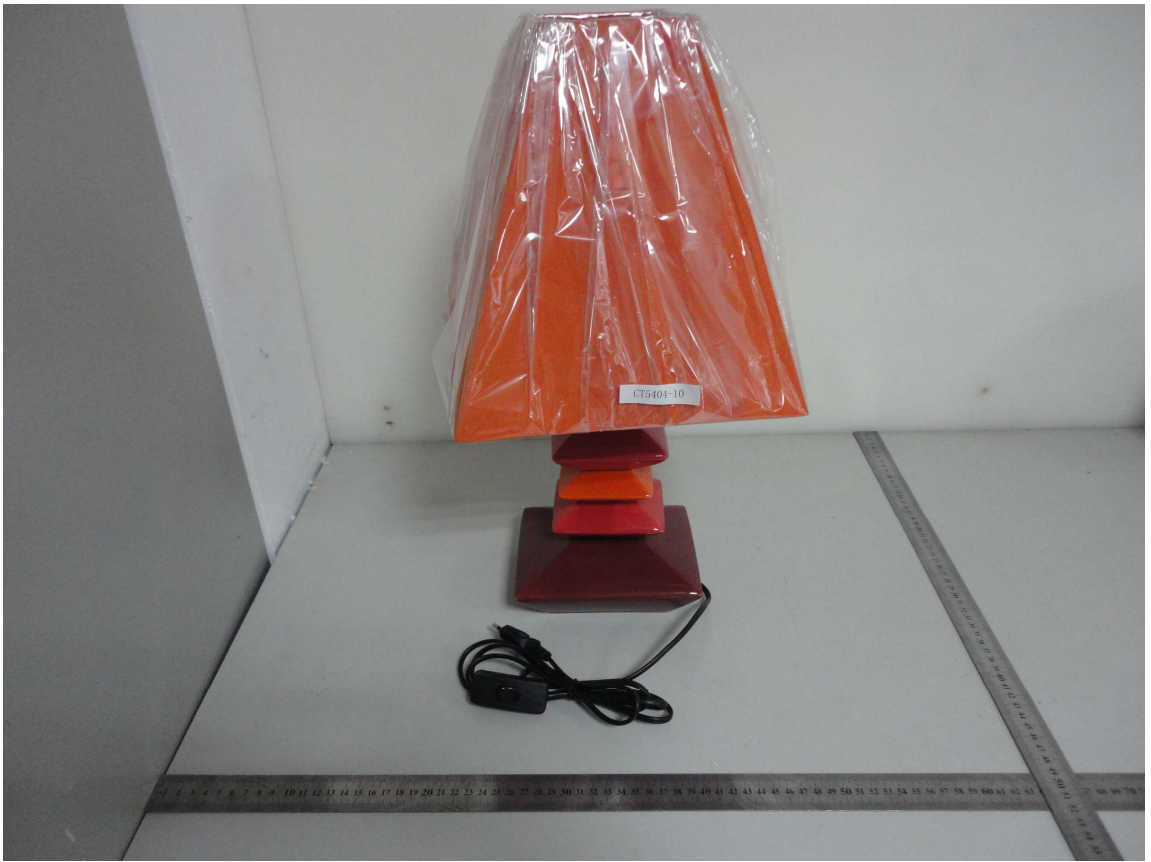
CT4801-2(E27)



CT5050-6(E27)



CT5404-10(E27)



CT5801-2(E27)



CT5901-3(E27)



CT6105-3(E27)



CT6103(E27)



CT3101(E27)



CT4317(E27)



CT5043(E27)



CT4009 (E27)



CT6902-4(E27)



JHK501(E27)



JHK502(E27)



JHK015(E14)



Sample of pictures

Plug



Cord-switch



Open view of base 1



Open view of base 2



Open view of base 3



Cord anchorage in the base



Cord anchorage inside lampholder



Lampholder(E27)



Inside of lampholder(E27)



Lampholder(E14)



Inside of lampholder(E14)

