1.0 Reference and Address			
Report Number	SH12090786-001	Original Issued: 9-Oct-2012	Revised: 18-Apr-2025
Standard(s)	Direct Plug-In Nightlights [UL 1786:2014 Ed.4+R:22Feb2021] Direct Plug-In Nightlights [CSA C22.2#256:2014 Ed.2+U1]		

Applicant	Shenzhen Liown Electronics Co., Ltd.	Manufacturer	**Dongguan Liown Electronics Co., Ltd.**
Address	13F, Finance Centre Building, No. 22, Taizi Road, Shekou, Nanshan District, Shenzhen, Guangdong	Address	No. 5, Yankou 1st Lane, Xiegang Town, Dongguan, Guangdong
Country	China	Country	China
Contact	Ms. Jessica Cui	Contact	Ms. Jessica Cui Mr Paley Pu
Phone	86-755-86271000	Phone	86-755-86271000 86-769-87639898
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Email	Jessica@liown.com	Email	Jessica@liown.com prc@liown.com

2.0 Product Description	
Product	Direct Plug-In Nightlights
Brand name	Liown, Energizer, LUMINARA
Description	The product covered by this report is a household, indoor use nightlight with integral plug.
Models	EE110001, 1111, EDNL01, HFENL, HFENL, LW3006, LW3008, ENLMFANL, LW3012, NLUSBCOVER, LW3015, HFHN, 092-08-0253, 092-08-0184, NLHUTCH, LW3016, 092-08-0153, 092-08-0152, ENLPLFPA2, ENLPLFPA, LW3017, 092-08-0024, E1180702, ENLPLROT, LW3018,092-08-0225, E1143201, ENLPLVCW, NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB, 8358, 997375, 998275, 998276, 998277, 998279, 993338, 993338K2 or 9967; followed by up to five characters.
Model Similarity	All models have the similar construction except model name, LED driver, LED, LED quantity, decorative patterns and colours. Note: The suffix "followed by up to five characters." maybe described as "XX", "XXX", "**", "YYYY" or "##". 1: "XX" and "XXX" denote different decorative patterns and colors; 2: "**" and "YYYY" denote the colour of appliance or picture on decorative cover; 3: "##" denoted the colour of appliance; 4: Models NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB have the same structures and ratings with LW3015 only except different attached pictures on the surface of products. 5. LW3008, 8358, 997375, 998275, 998276, 998277, 998279, 993338, 993338K2 and 9967 are the same, except finish color.
Ratings	120V, 60Hz, 0.5W, non-replaced LEDs.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of model EE110001 also represents model 1111XXX, EDNL01, HFENLXX, HFENLXXX; LW3006

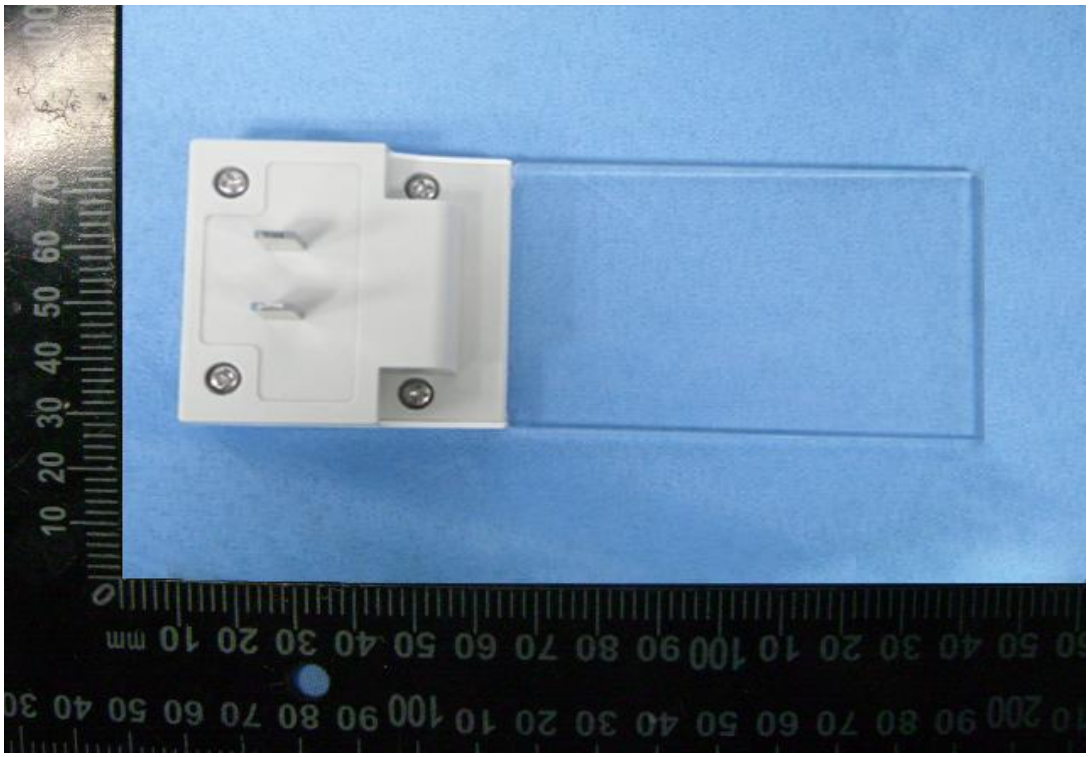
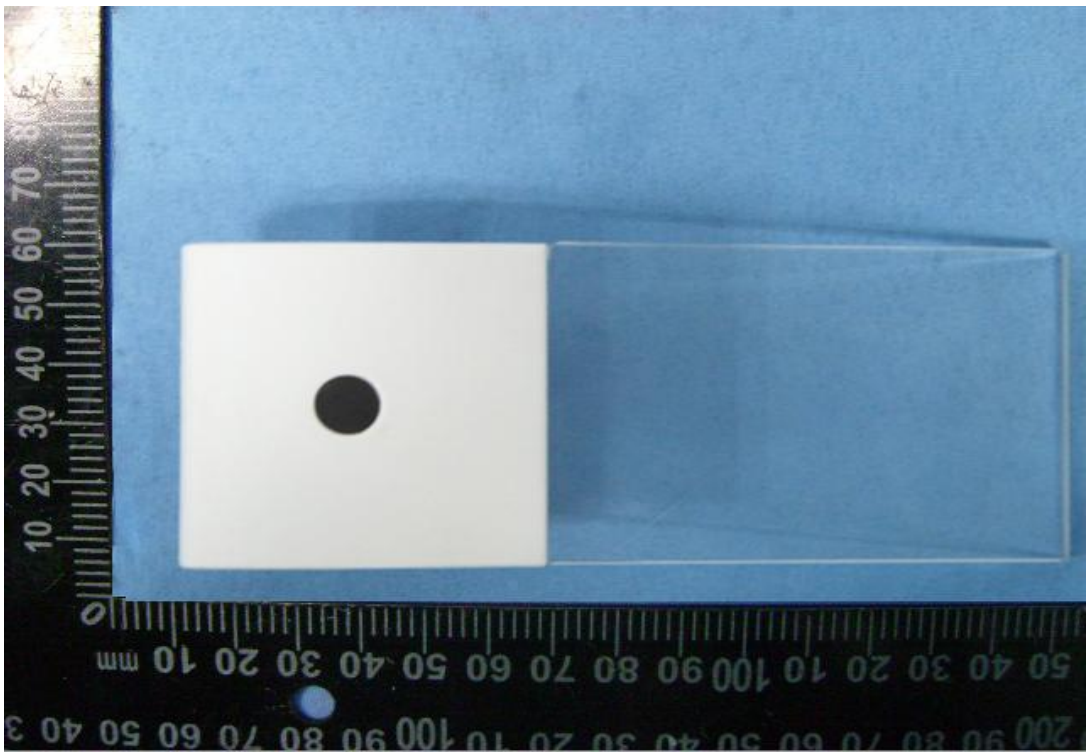


Photo 2 - External view of model EE110001



3.0 Product Photographs

Photo 3 - External view after removing decorative board of model EE110001

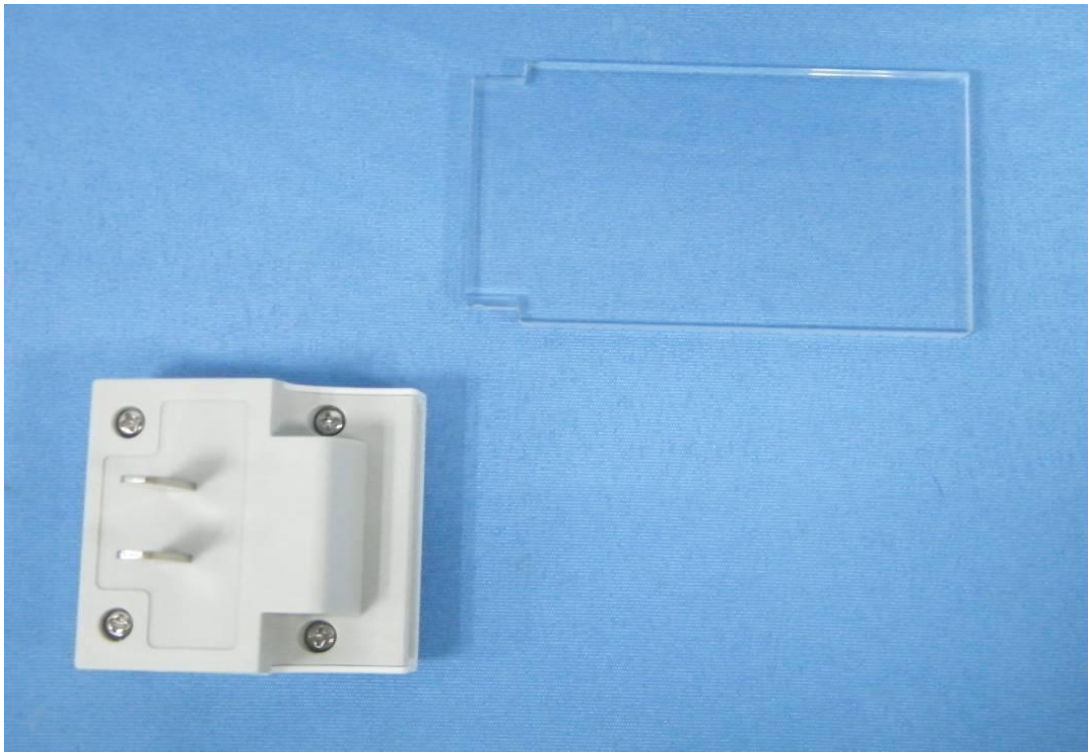
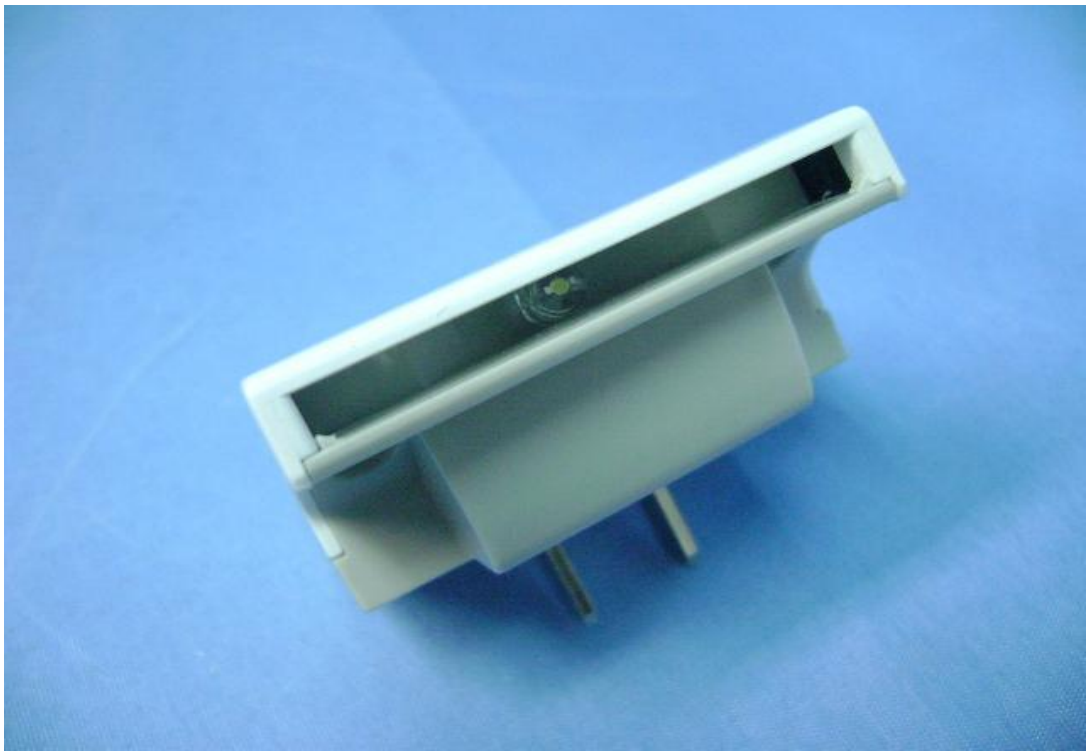


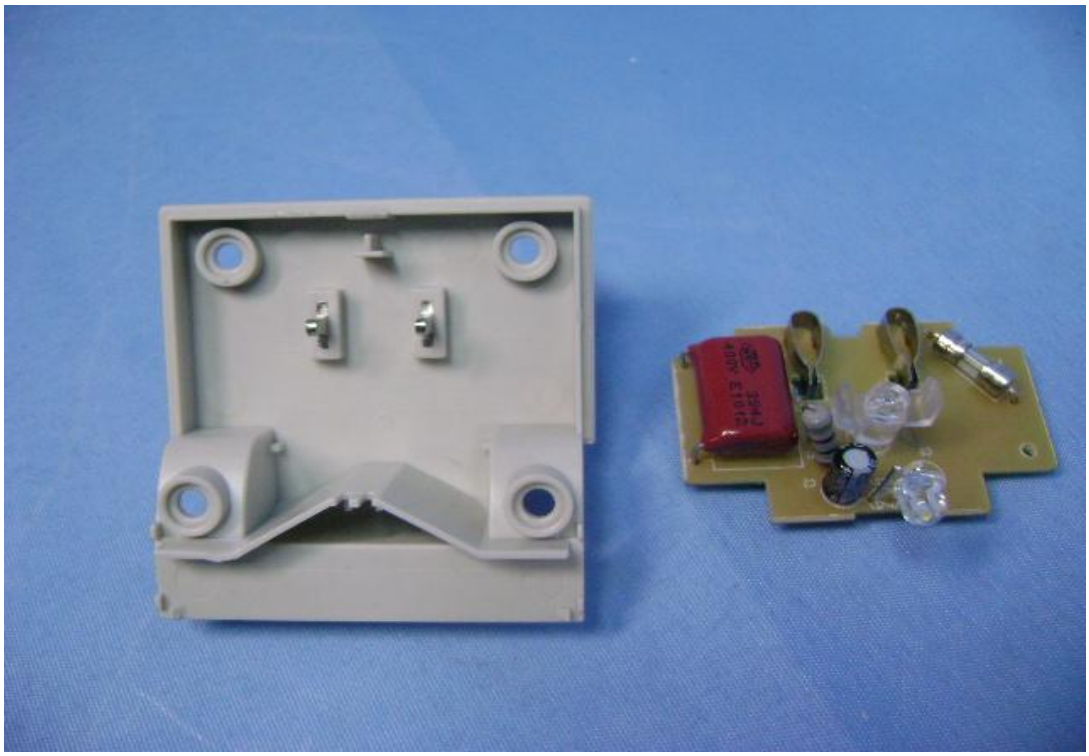
Photo 4 - External view after removing decorative board of model EE110001



3.0 Product Photographs

Photo 5 - Internal view of model EE110001

Photo 6 - Internal view of model EE110001



3.0 Product Photographs

Photo 7 - Internal view, PCB of model EE110001

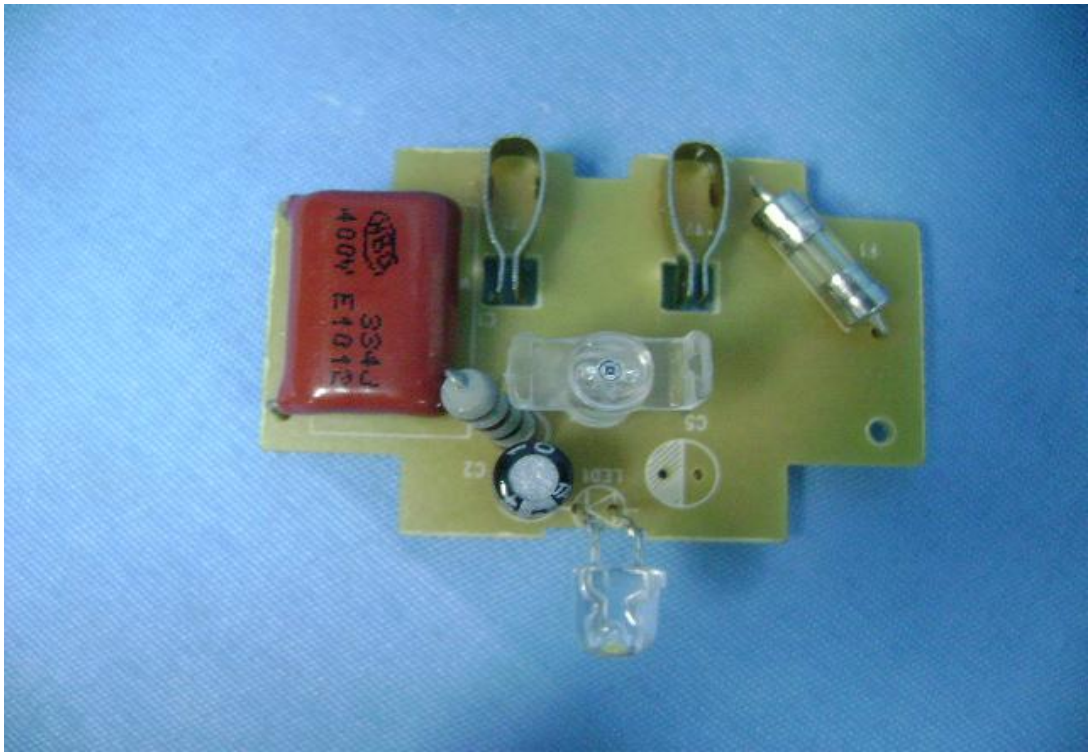
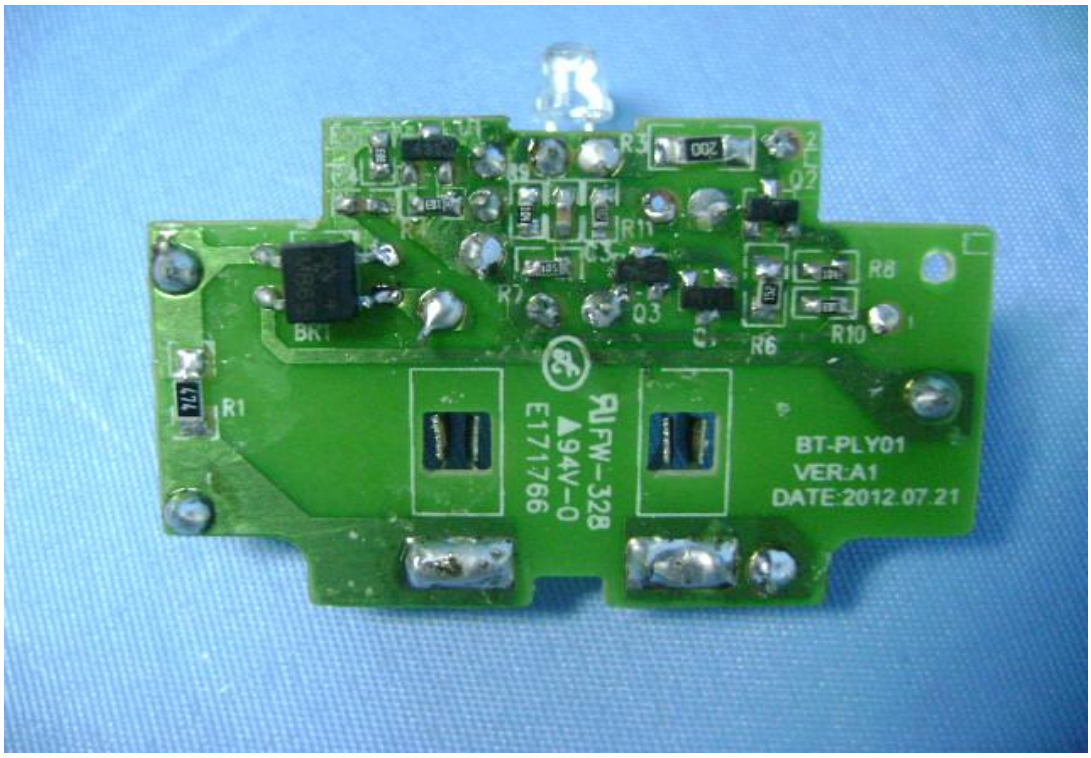
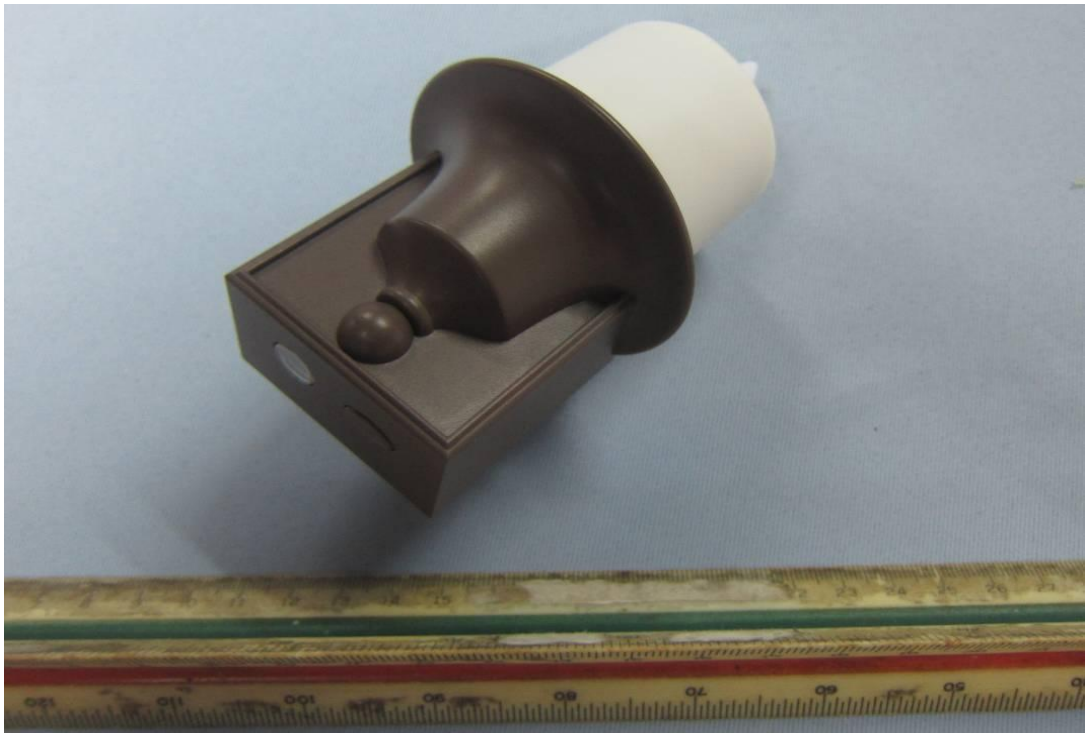


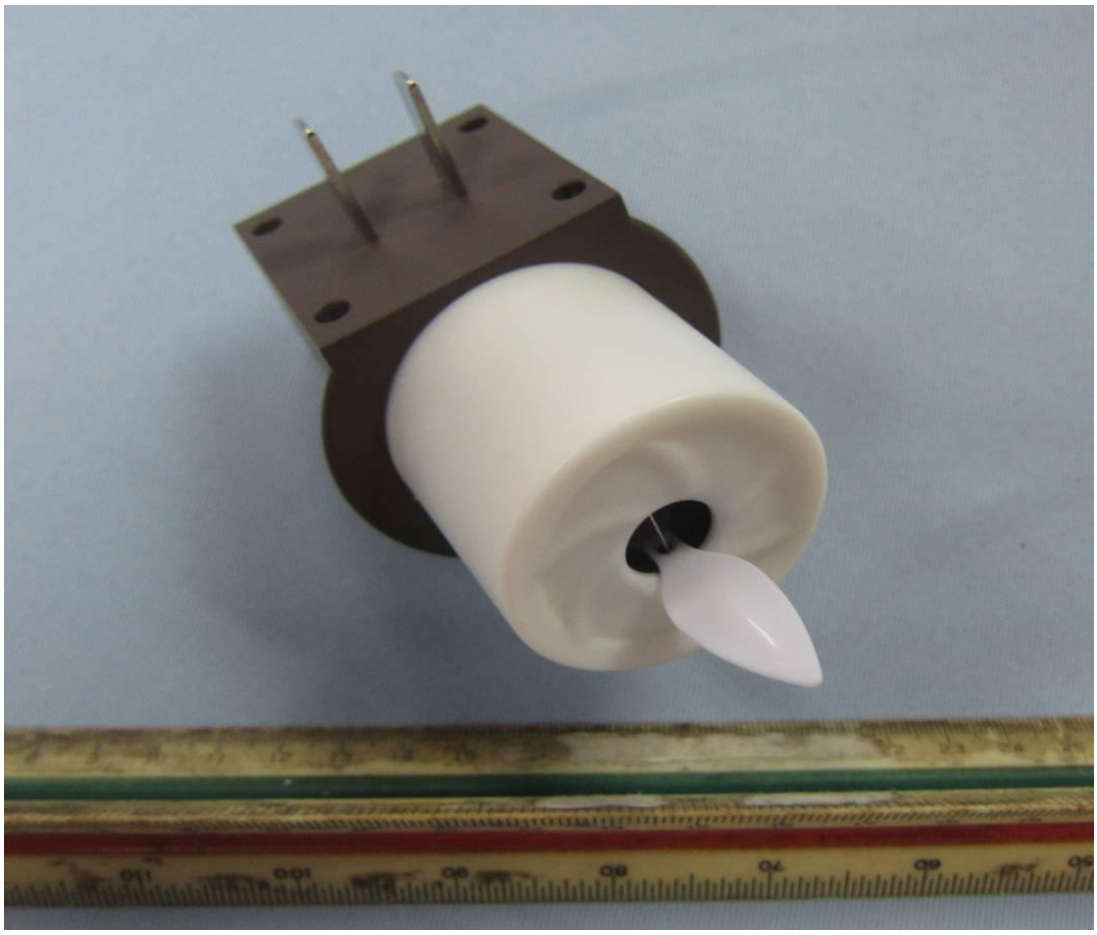
Photo 8 - Internal view, PCB of model EE110001



3.0 Product Photographs

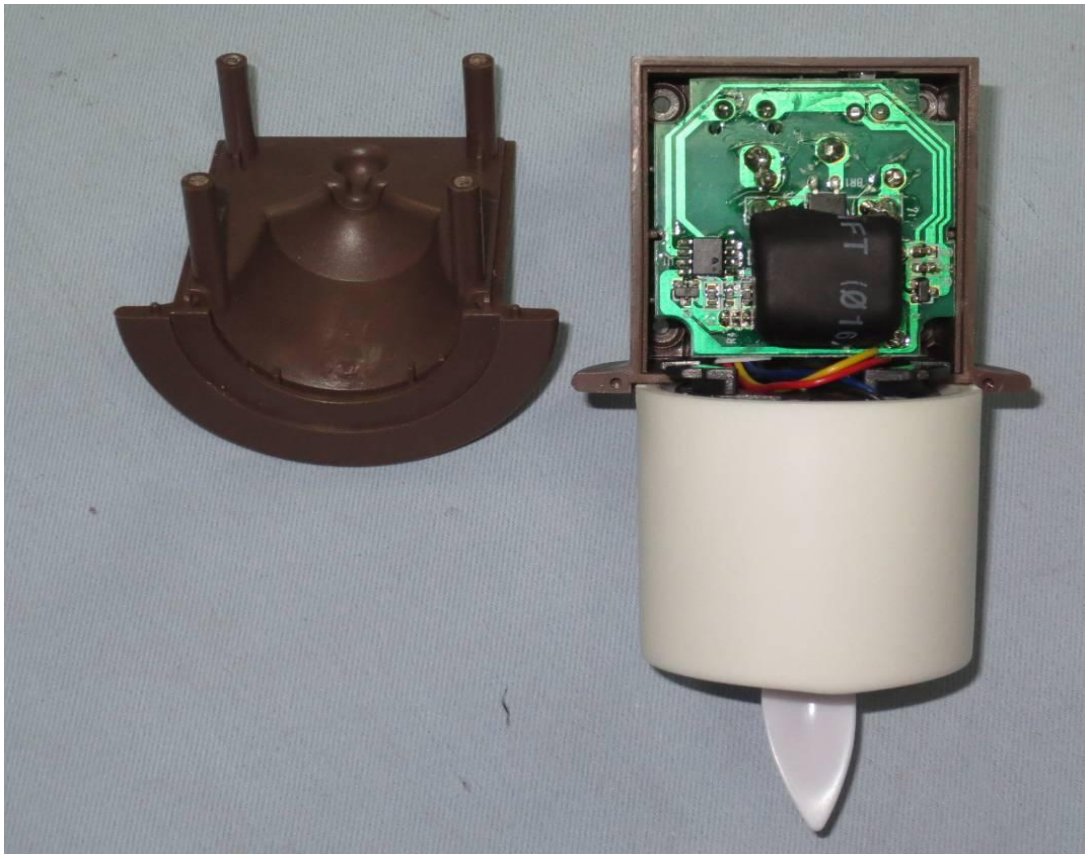
Photo 9 - External view of model LW3008; ENLMFANL-**

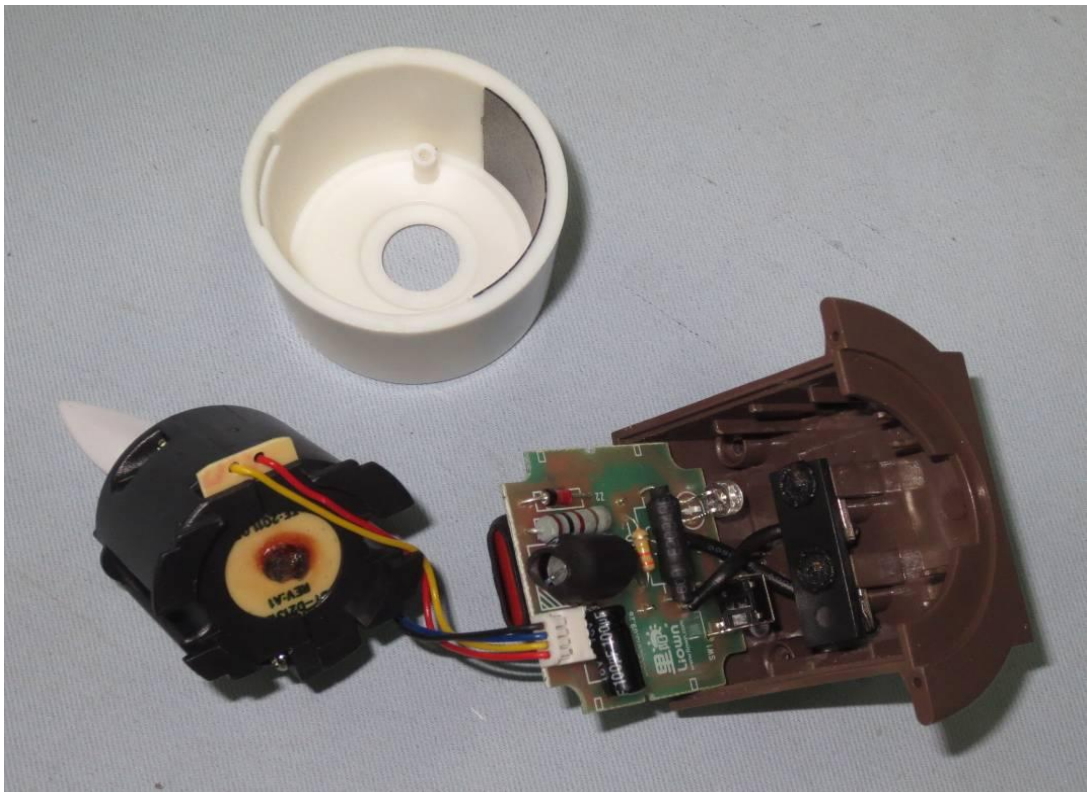




3.0 Product Photographs

Photo 10 - Internal view of model LW3008; ENLMFANL-**





3.0 Product Photographs

Photo 11 - Internal view of model LW3008; ENLMFANL-**

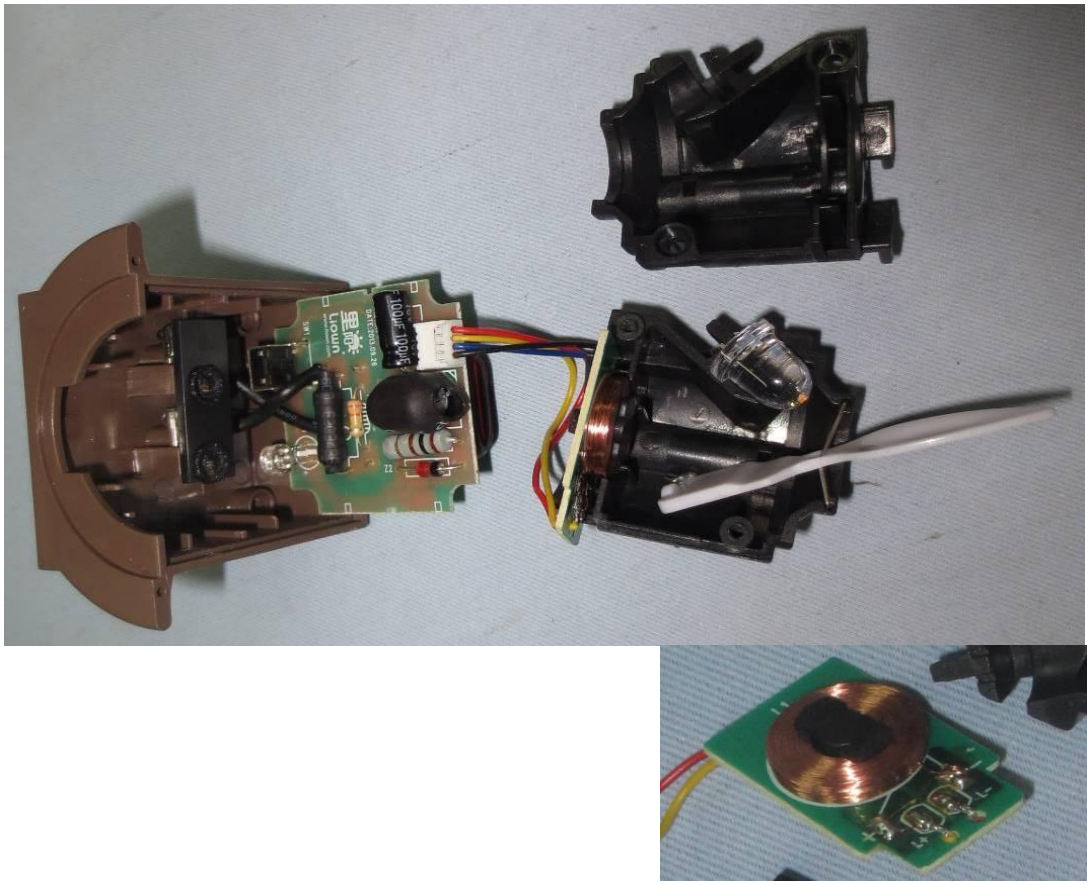
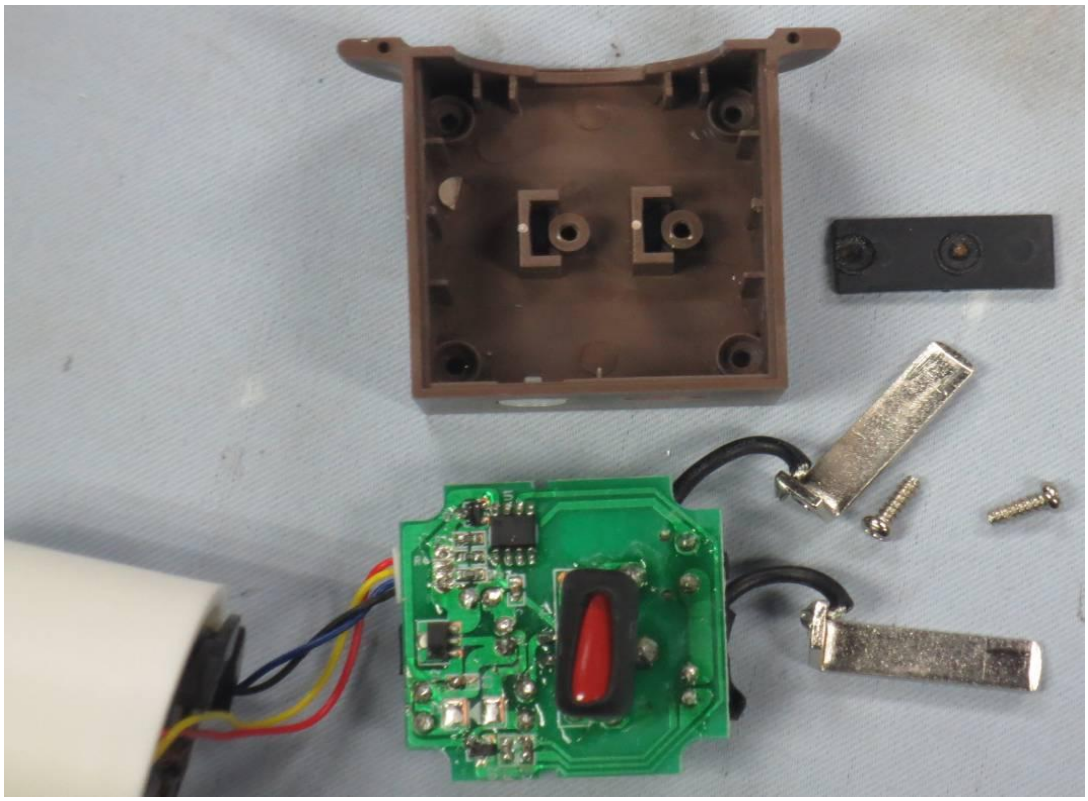


Photo 12 - PCB view of model LW3008; ENLMFANL-**



3.0 Product Photographs

Photo 16 - External view of model LW3012; ENLUSBCOVER-**

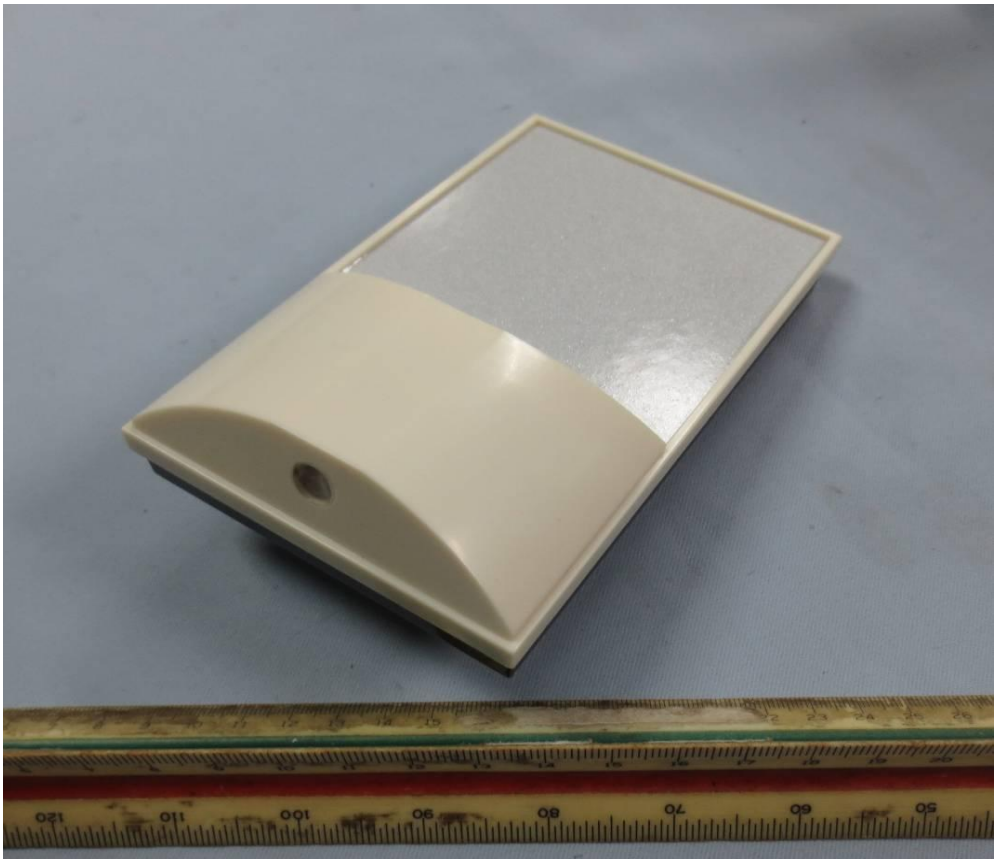
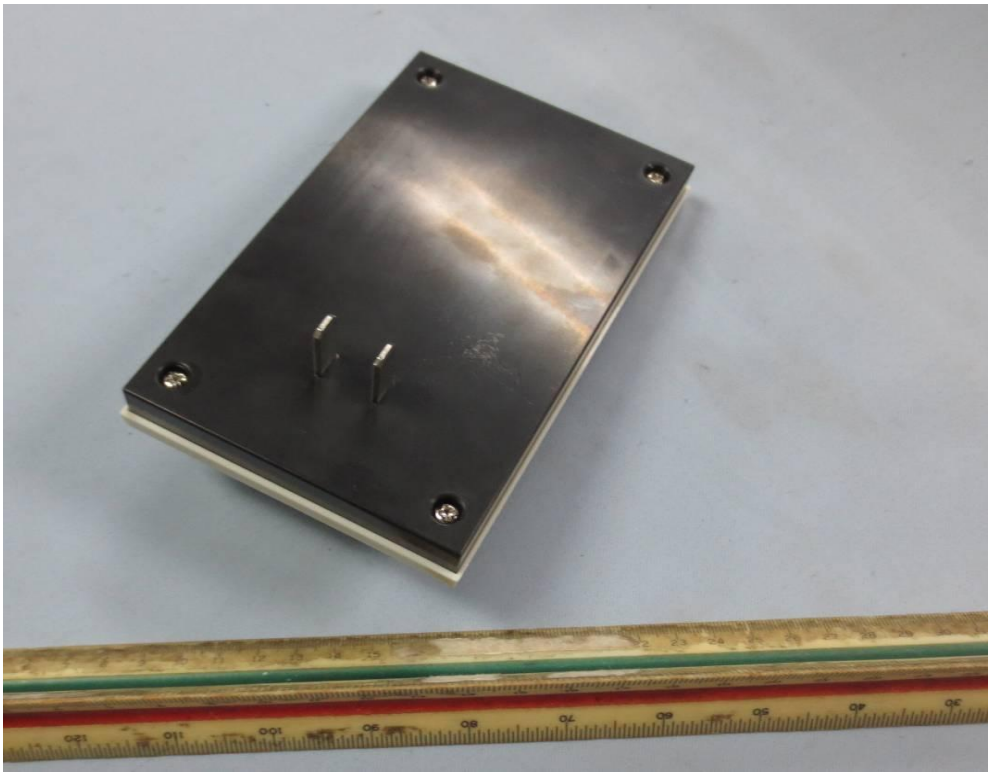


Photo 17 - External view of model LW3012; ENLUSBCOVER-**



3.0 Product Photographs

Photo 18 - Internal view of model LW3012; ENLUSBCOVER-**

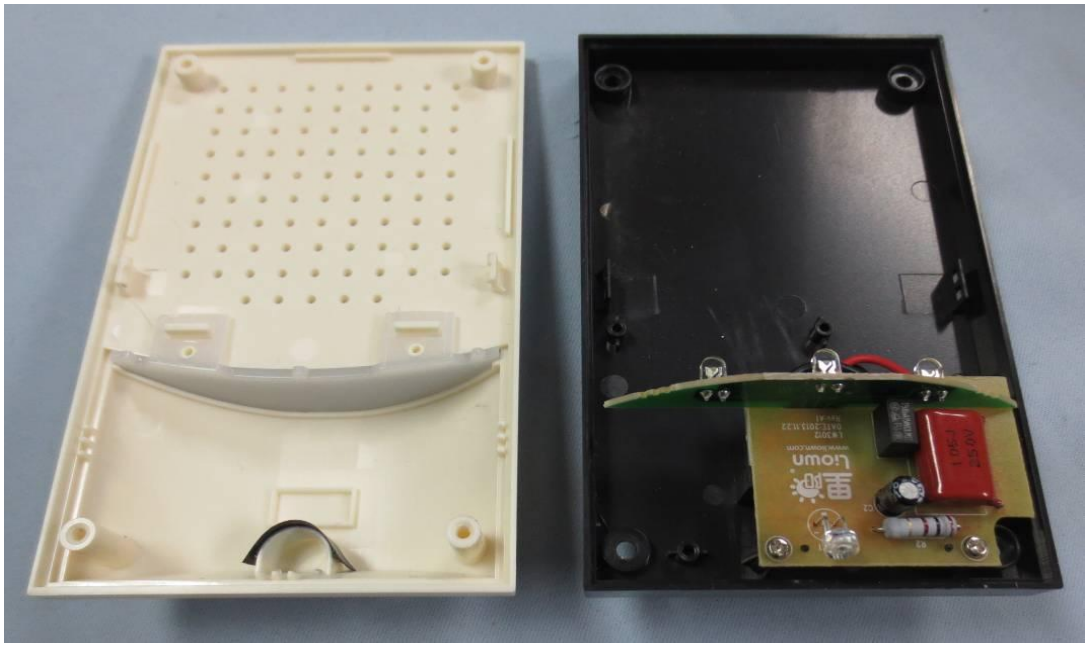


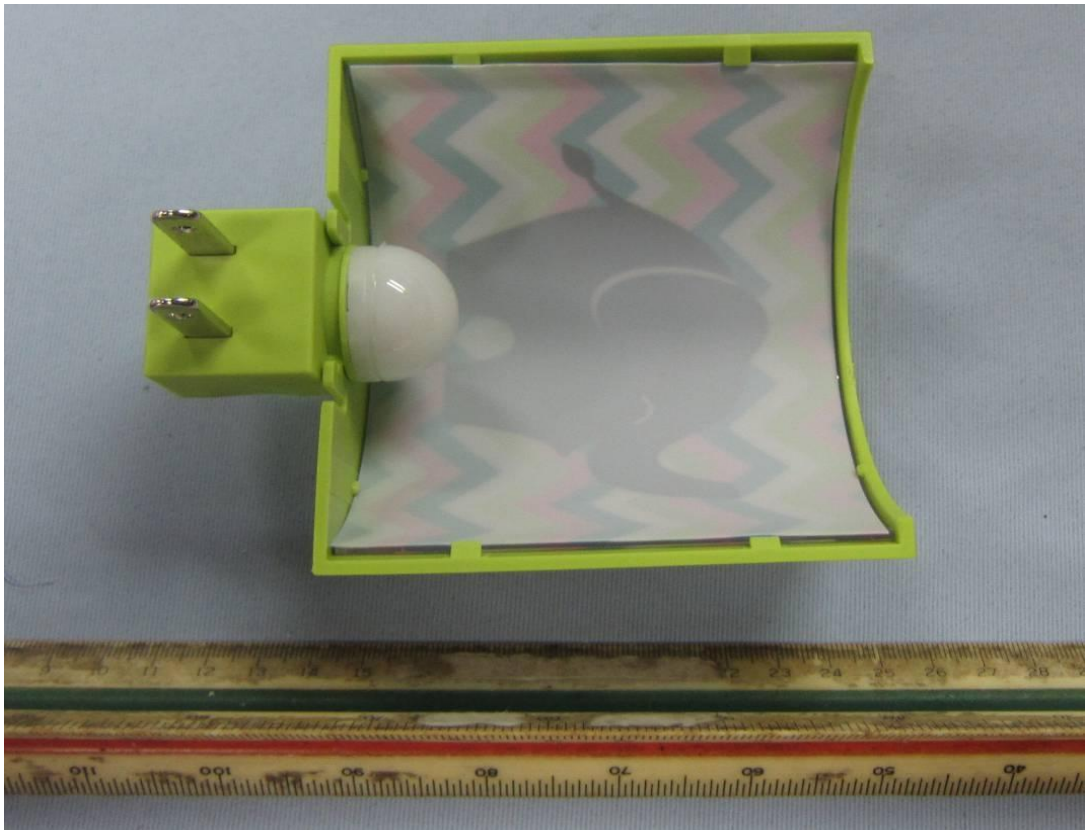
Photo 19 - Internal view of model LW3012; ENLUSBCOVER-**

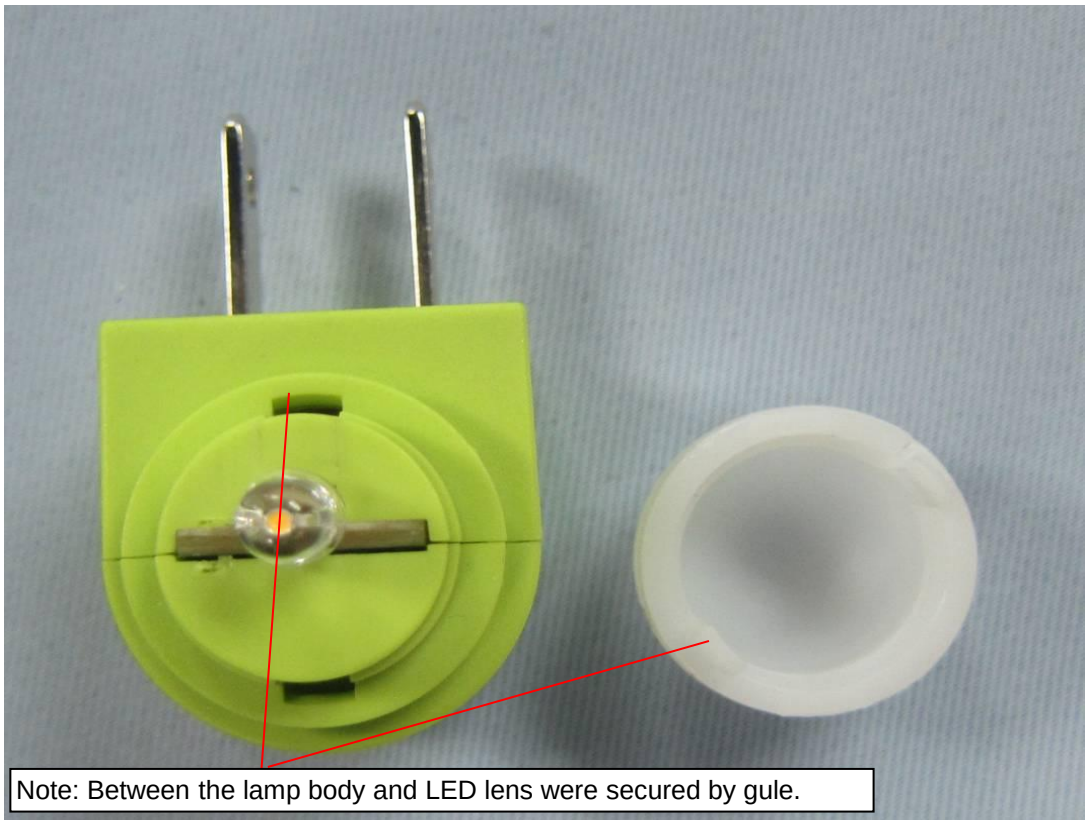
3.0 Product Photographs

Photo 20 - External view of model LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**

3.0 Product Photographs

Photo 21 - External view of model LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**

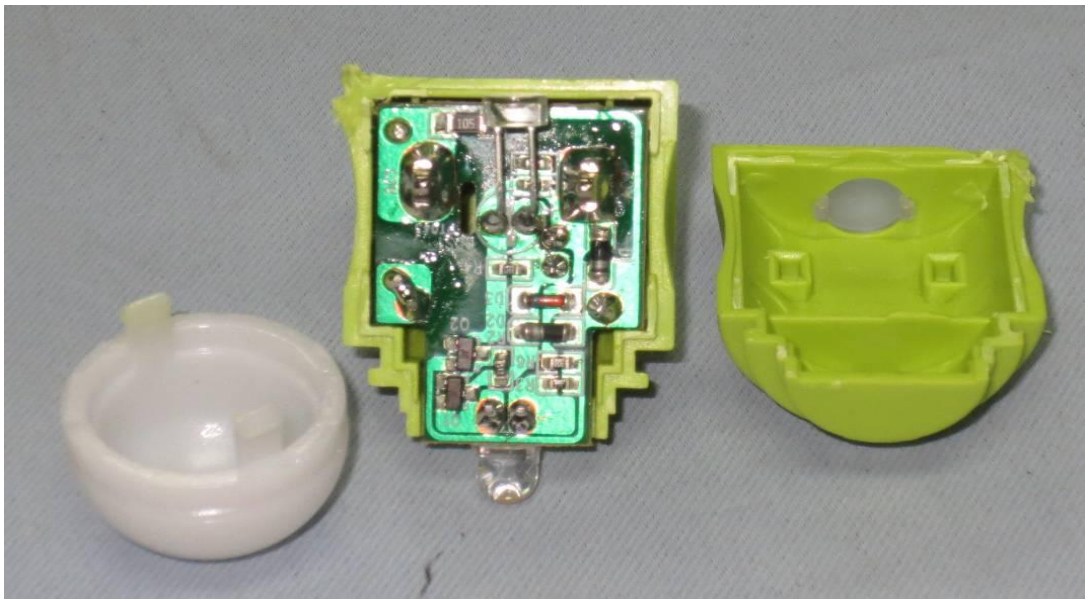


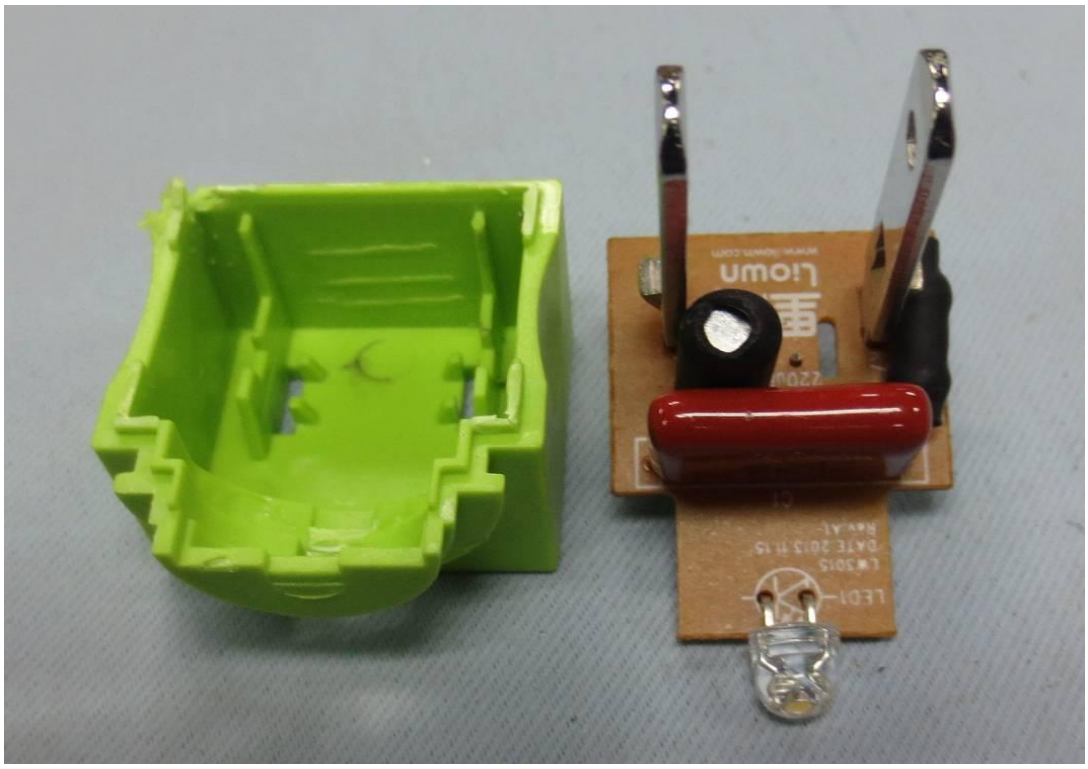


Note: Between the lamp body and LED lens were secured by gule.

3.0 Product Photographs

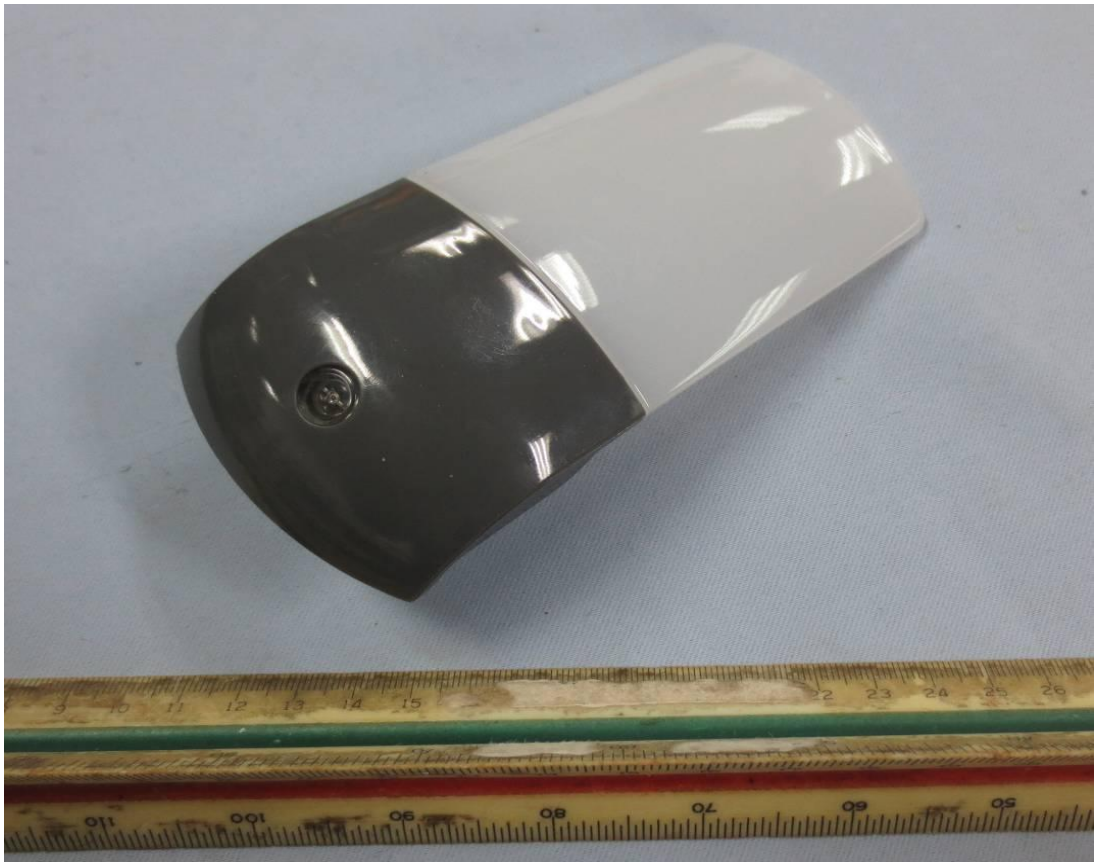
Photo 22 - Internal view of model LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**

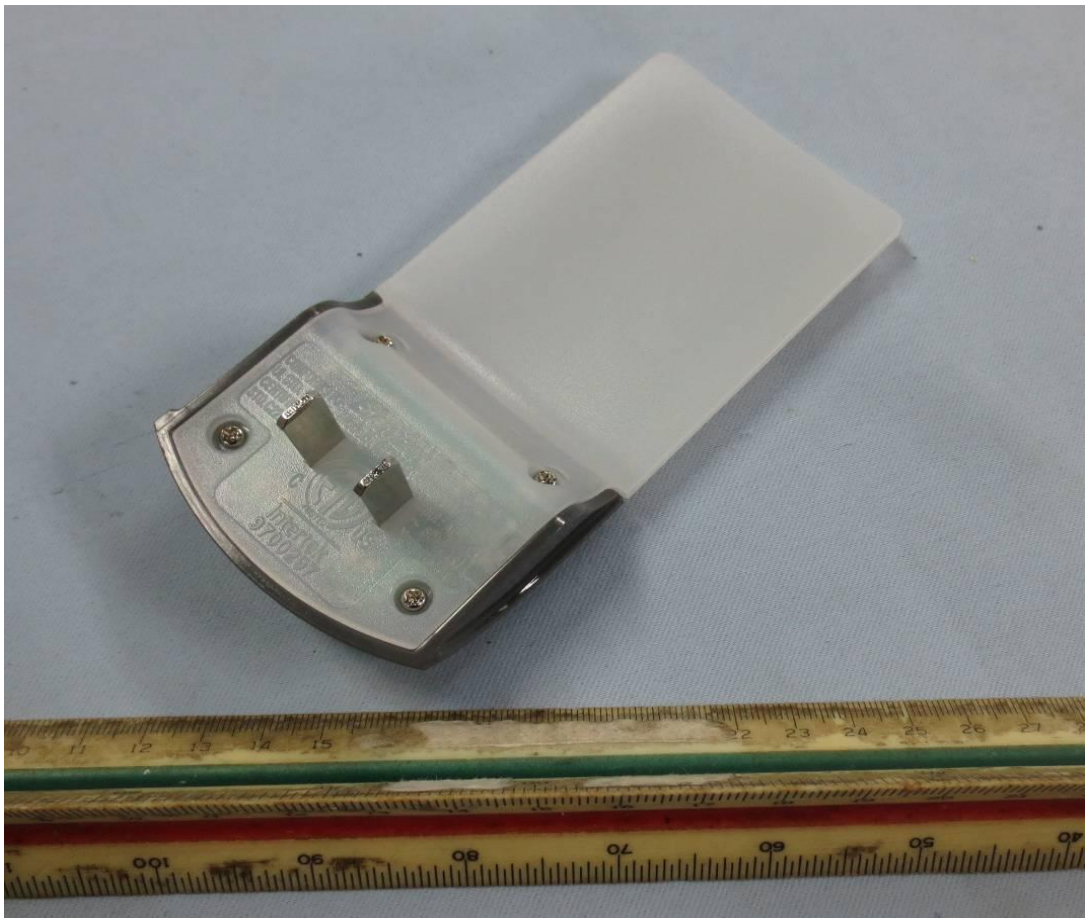




3.0 Product Photographs

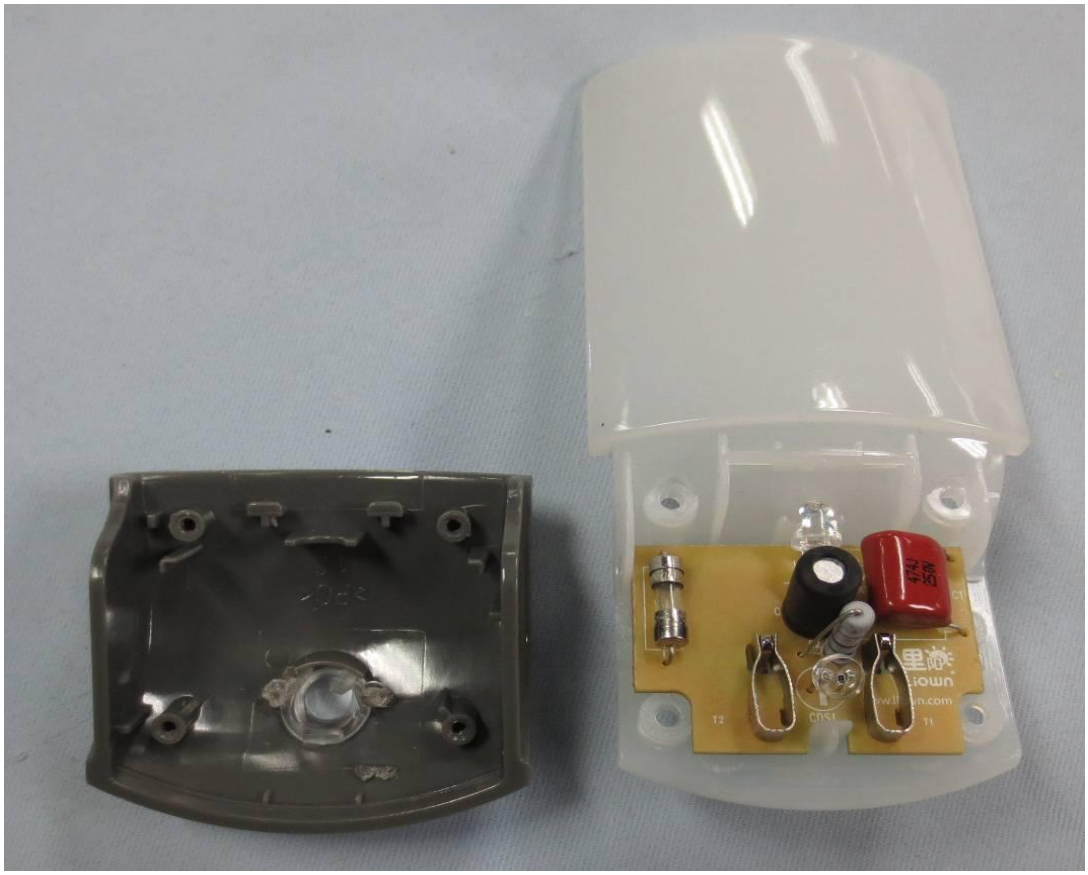
Photo 23 - External view of model LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**

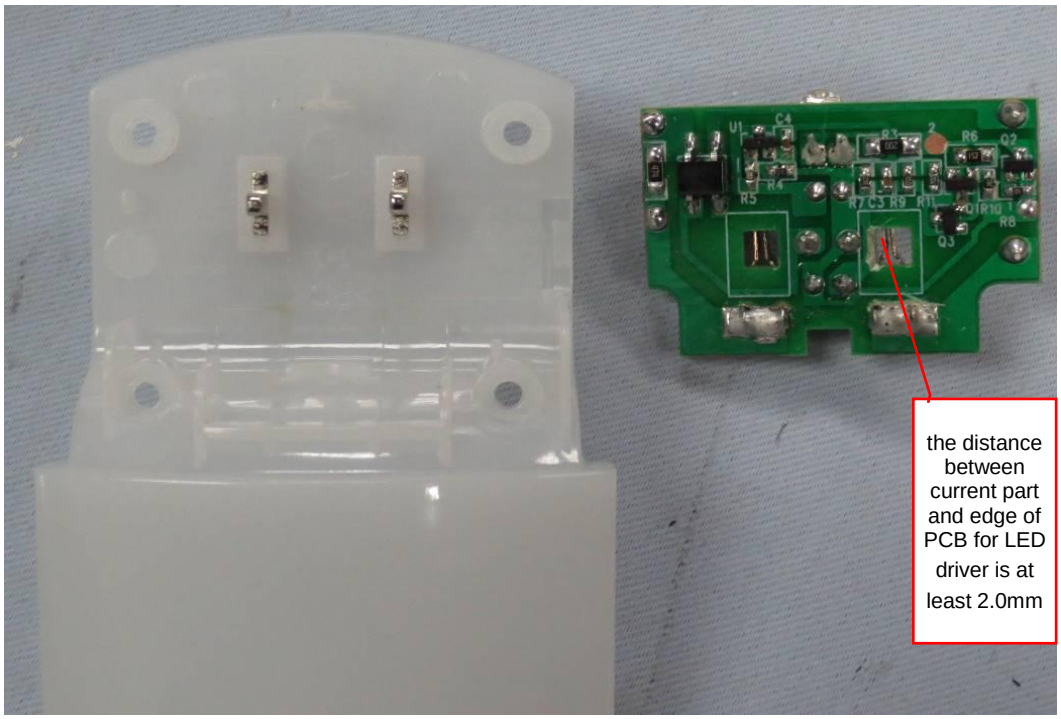




3.0 Product Photographs

Photo 24 - Internal view of model LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**

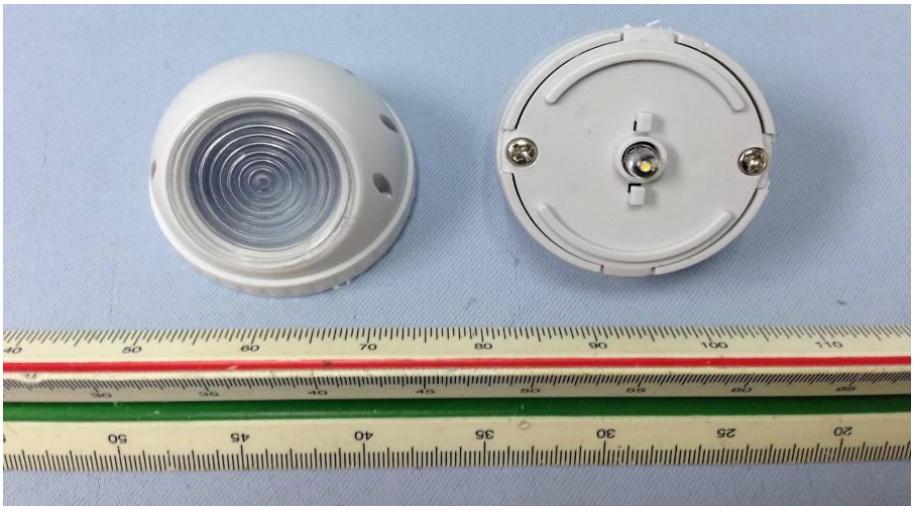


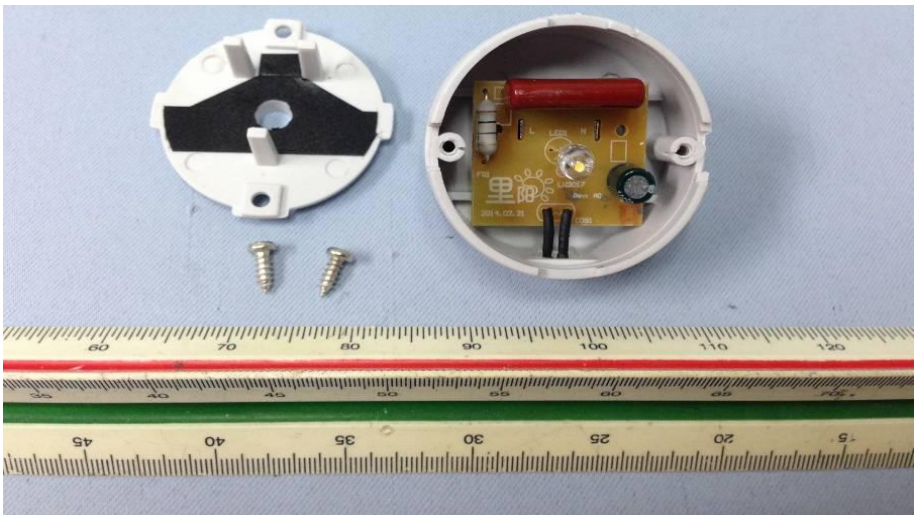


3.0 Product Photographs

Photo 25 - External view of model LW3017,092-08-0024, E1180702, ENLPLROT##. Note: Model LW3017,092-08-0024, E1180702, ENLPLROT## have same construction. The different between them is model name only.

Photo 26 - Internal view of model LW3017,092-08-0024, E1180702, ENLPLROT##.





3.0 Product Photographs

Photo 27 - PCB view of model LW3017,092-08-0024, E1180702, ENLPLROT##.

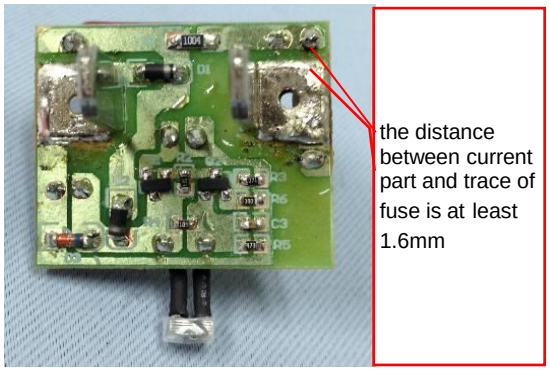


Photo 28 - External view of model LW3018,092-08-0225, E1143201, ENLPLVCW##. Note: Model LW3018,092-08-0225, E1143201, ENLPLVCW## have same construction. The different between them is model name only.

3.0 Product Photographs

Photo 29 - Internal view of model LW3018,092-08-0225, E1143201, ENLPLVCW##.

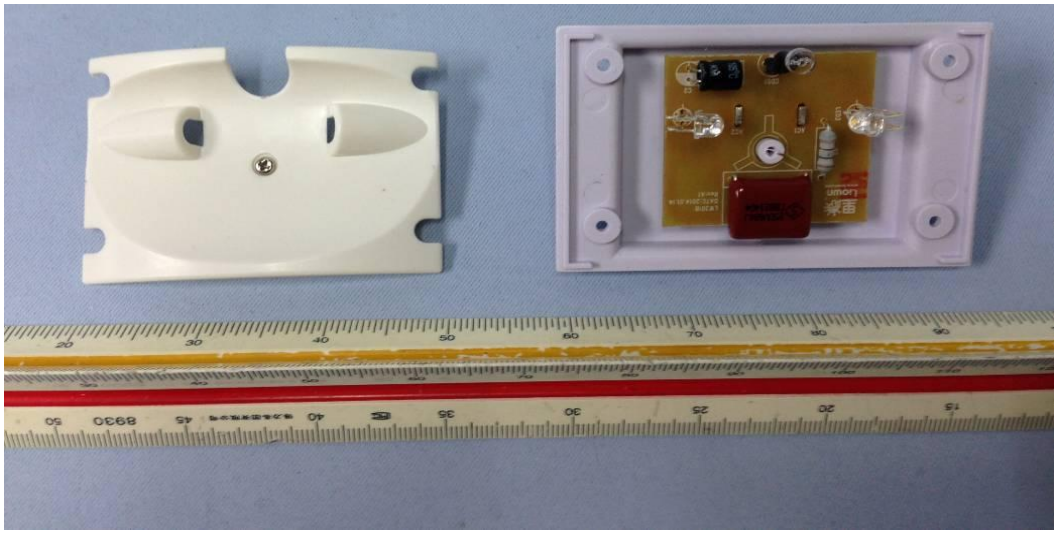
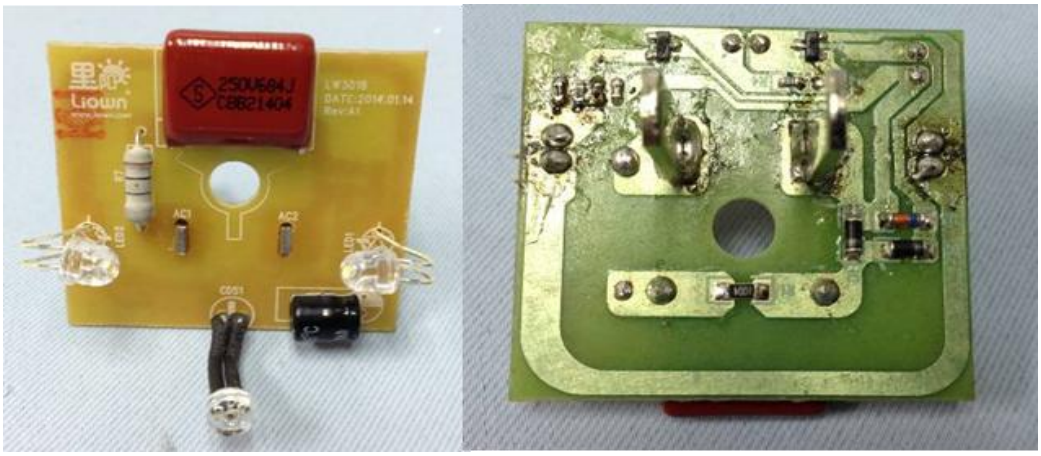


Photo 30 - PCB view of model LW3018,092-08-0225, E1143201, ENLPLVCW##.



3.0 Product Photographs

Photo 31 - Alternative Internal view 1 of model LW3008

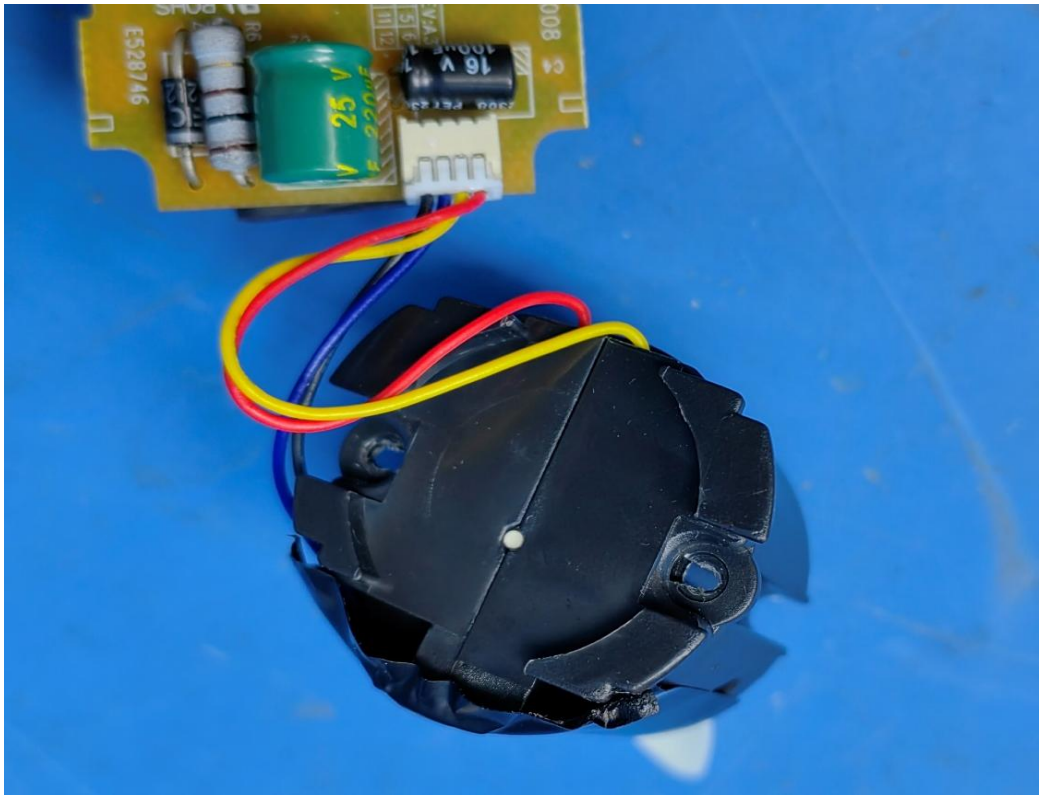
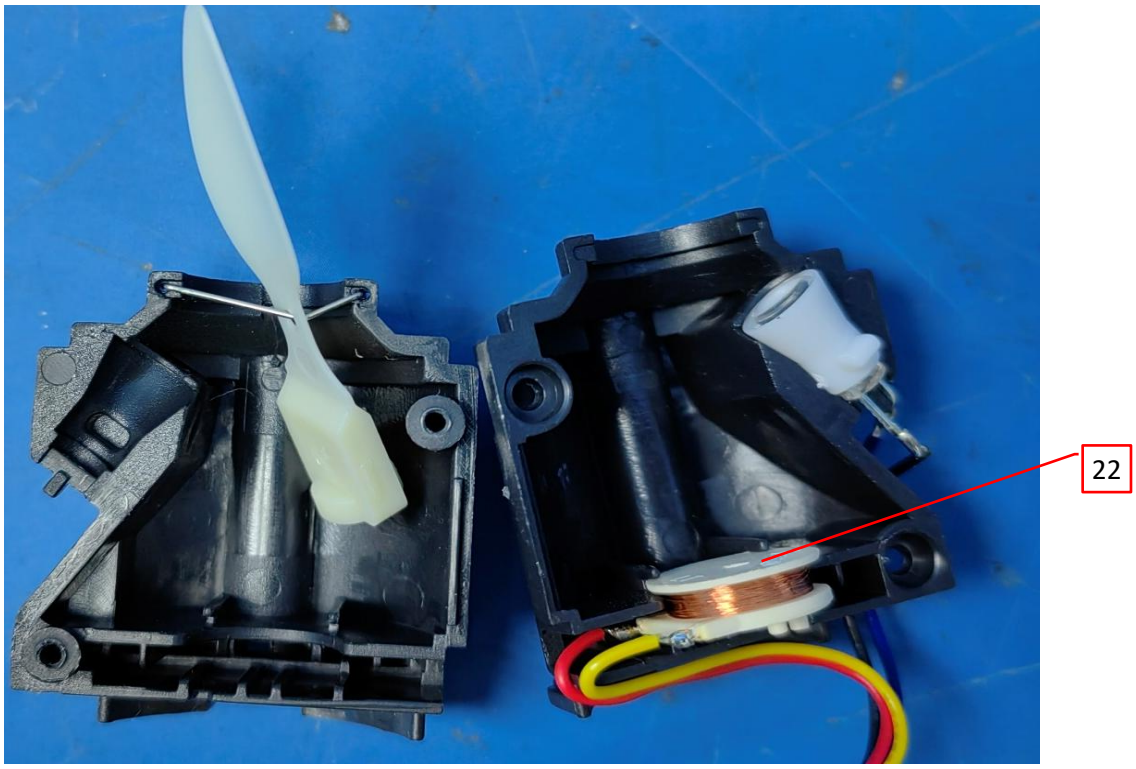


Photo 32 - Alternative Internal view 2 of model LW3008



4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
1,2, 12	1	Enclosure	CHI MEI CORPORATION	PA-766	Shape as photo shown. ABS, Rated 94V-0, 60ºC, CTI=2, HWI=1, HAI=0. Min.thickness 1.5 mm. for models EE110001, 1111XXX, EDNL01, HFENLXX, HFENLXXX, LW3006, LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##.	cURus
2	2	Translucent enclosure	CHI MEI CORPORATION	PC-110V	Shape as photo shown. PC, Rated 94V-2, 105ºC, CTI=2, HWI=3, HAI=0. Min.thickness 2.0 mm, for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX; LW3006, LW3017,092-08-0024, E1180702, ENLPLROT##.	cURus
3	3	Decorative board	CHI MEI CORPORATION	CM-205 (X)	PMMA, Rated 94HB, 50ºC Min.thickness 4.4 mm, for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX, LW3006.	cURus
3	4	Plug blade	Various	Various	Copper with tinned nickel, non-polarized plug, Integral plug dimension, refer to Illustration 3.	NR
5	5	Electrolytic capacitor	Various	Various	Rated 100µF, 16V, 105ºC, for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX, LW3006.	NR
6	6	Fuse	XC ELECTRONICS (SHENZHEN) CORP LTD	3F	Rated 250V, 0.5A, for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX, LW3006, LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**.	cURus
7	7	Clip	Various	Various	Shape as photo shown. Copper with tinned nickel	NR
7	8	Supporting pillar	KINGFA SCI & TECH CO LTD	JH830	Shape as photo shown. PC, Rated 94V-0, 80ºC, CTI=2, HWI=0, HAI=3. Min.thickness 1.3 mm, for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
8	9	PCB	FAI WONG ELECTRONIC P C B CO	FW-328	Rated 94V-0, 130ºC, min 1.5 mm thick. For all models.	UR
			DONG GUAN CITY XINXIONG ELECTRONICS CO LTD	FR-1	Rated 94V-0, 130ºC, min 1.5 mm thick. For all models.	UR
1	10	Label (not shown)	Various	Various	Indoor use, See illustration no. 1	UR
9	11	Enclosure-1	Formosa Chemicals & Fibre Corp. Plastics Div.	ANC100	ABS material, V-0, HWI: 4, HAI: 3, CTI: 2, RTI: 60, Min. thickness: 1.9mm. For models LW3008; ENLMFANL-**; LW3012; ENLUSBCOVER-**; LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**; LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**.	cURus
9	12	Sensor Lens	Sabic Innovative Plastics US L L C	HRA222F(f1)(GG)	ASA/PC material, V-0, RTI: 90, Min. thickness: 2.0mm. For models LW3008; ENLMFANL-**; LW3012; ENLUSBCOVER-**; LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**; LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**, LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##.	UR
9	13	LED lens-1	Samsung Total Petrochemcals Co., Ltd.	FB53+	PP material, V-0, HWI: 3, HAI: 0, CTI: 0, RTI: 65, Min. thickness: 2.5mm, for models LW3008; ENLMFANL-**, LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**.	cURus
10	14	Heat-shrinkable tube	Various	Various	600 V; 125ºC; VW-1.	cURus
10	15	Fuse-1	Dongguan Reomax Electronics Co., Ltd.	SFP	250Vac, T1A, size: 3.6 x 10mm, for model LW3008; ENLMFANL-**, LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**.	cURus
11	16	Input wire of LED driver	Various	1007	AWM, VW-1, 300V, 80ºC, 18AWG.	cURus
11	17	Output wire of LED driver	Various	1007	AWM, VW-1, 300V, 80ºC, 22AWG.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
11	18	LED	Shenzhen Biyou Opto-electrical Co., Ltd.	R0524WC-X	Vf: 3.0-3.4V, If: 20mA, Topr: -5 to 55 ºC, size: φ5.0 x 5.5mm, emitting colour: white. For model LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##.	NR
				L2454WC-S	Vf: 3.0-3.4V, If: 20mA, Topr: -5 to 55 ºC, size: 2.0 x 2.0 x 5.0mm, emitting colour: white. For model LW3012; ENLUSBCOVER-**.	NR
				R0524WC-2X	Vf: 3.0-3.4V, If: 20mA, Topr: -5 to 55 ºC, size: φ5.0 x 5.5mm, emitting colour: white. For models LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**, LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**.	NR
				R0524WC-X	Vf: 3.0-3.4V, If: 20mA, Topr: -5 to 55 ºC, size: φ5.7 x 5.5mm, emitting colour: white. For model LW3008; ENLMFANL-**.	NR
14	19	Fuse-2	Conquer Electronics Co., Ltd.	MST	250Vac, T0.5A, 8.35 x 4.3 x 7.7mm, for model LW3012; ENLUSBCOVER-**.	cURus
19	20	Glue	Foshan Shunde Jiazhi Chemical Industry Co., Ltd.	JP-1688FR	Served as wire mechanical securement with rating: V-0, RTI 50, yellow color, min. 1mm thick. For model LW3012; ENLUSBCOVER-**.	URus
26	21	Fusing Resistor	Shenzhen City Wuyu Electronics Co Ltd	RXF21-1W	1W, 10 Ω, for model LW3017,092-08-0024, E1180702 ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##.	cURus
32	22	Bobbing	JIANGYIN JIHUA NEW MATERIAL CO LTD	PBT4307G(xx)	Polybutylene Terephthalate (PBT), V-0, 75°C, min. 2mm thick.	cURus

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification

body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and

descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.2 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.2 mm minimum between such current-carrying parts and dead-metal parts.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it is double insulated.
6. Polarized Connection - This product is not provided with a polarized power supply connection.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. All wiring refer to sec. 4.0.
8. Schematics - Refer to Illustration Nos. 4-7, 10-19 for schematics requiring verification during Field Representative Inspection Audits.
   Illustration 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 - Verify Circuit diagram and PCB layout whether they are identical to this report.
9. Markings - The product is marked on a labeling system as described in item no. 10 of Section 4.0 or by molding into polymeric enclosure as follows:
   - applicant's name or brand name
   - model number
   - date of manufacturer
   - electrical ratings.
10. Cautionary Markings - The following are required: No required.
11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration No. 2 for details.

7.0 Illustrations

Illustration 2 - Instruction manual

(a) CAUTION: Risk of Electric Shock and Fire Hazard or Warning: Risk of Electric Shock and Fire Hazard.
(a) ATTENTION : Risque de choc électrique etd'incendie ou Avertissement : Risque de choc électrique et d'incendie.

(b) This is not a toy and is not intended for use by children.
(b) Ceci n'est pas un jouet et ne doit pas être laissé entre les mains des enfants.

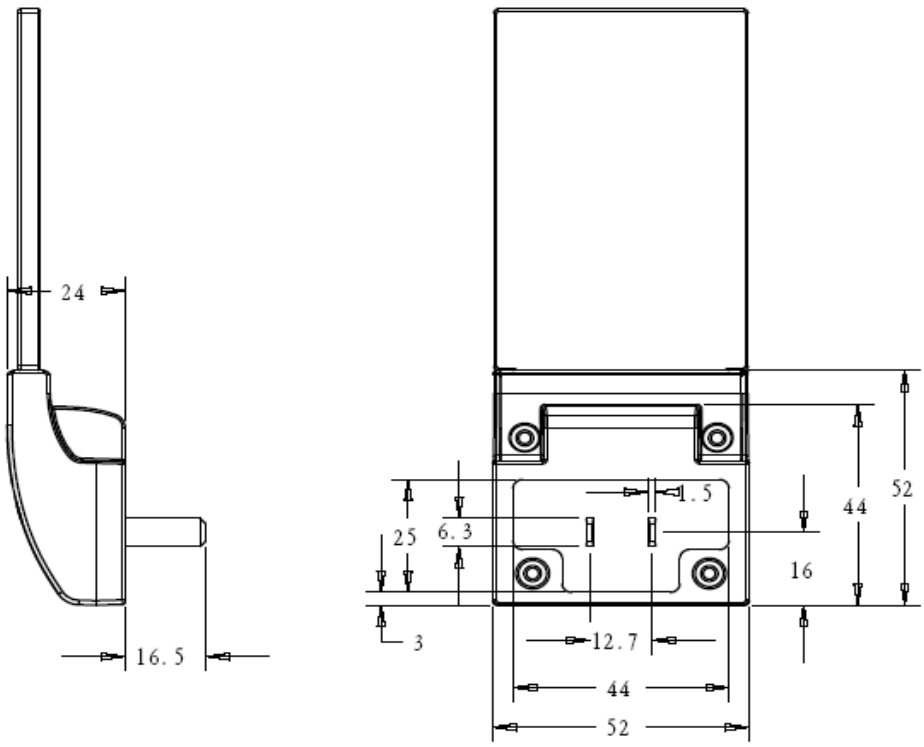
(c) For adult use only.
(c) Pour adultes seulement.

(d) For safe use, plug only into exposed wall outlets where a device is ventilated and cannot contact bed covering or other material.
(d) Pour une utilisation sans danger, brancher uniquement dans une prise de courant murale non abritée de sorte que le dispositif soit ventilé et ne puisse entrer en contact avec les draps ou autre tissu.

(e) Do not use with extension cords.
(e) Ne pas utiliser avec un prolongateur.

Note 1: The cautionary marking is provided on the smallest unit package of a device. They shall be:
a. in letters min 1.6mm high on a contrasting background.
b. seperated from all other markings by a single line min 1.6mm wide.
c. visible at the point of purchase while the product is enclosed within or secured to the packaging.
2: The word "CAUTION" may be replaced by the word "WARNING" at the manufacturer's discretion.
3: The packaging material attached to or provided with a night light shall not display any of the following:
a. pictures or sketches showing the nightlight used in a nursery or child's room.
b. a statement indicating that the product is suitable for use in a child's room or in a nursery.
c. a statement indicating that the product is suitable for use by a child.

Illustration 3 - Integral plug dimension for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX



7.0 Illustrations

Illustration 4 - Circuit diagram for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX

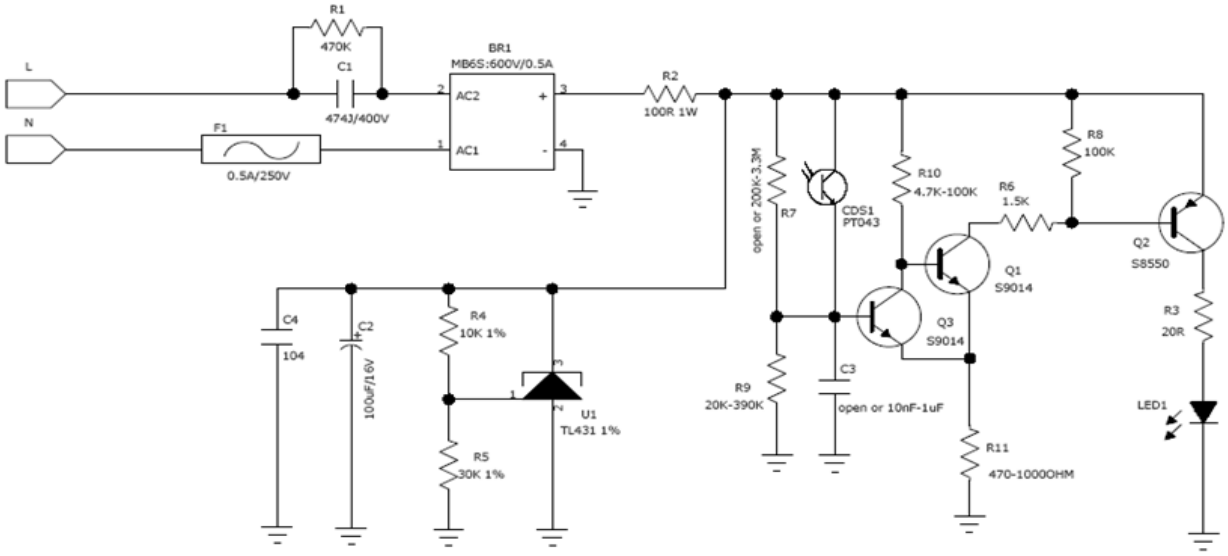
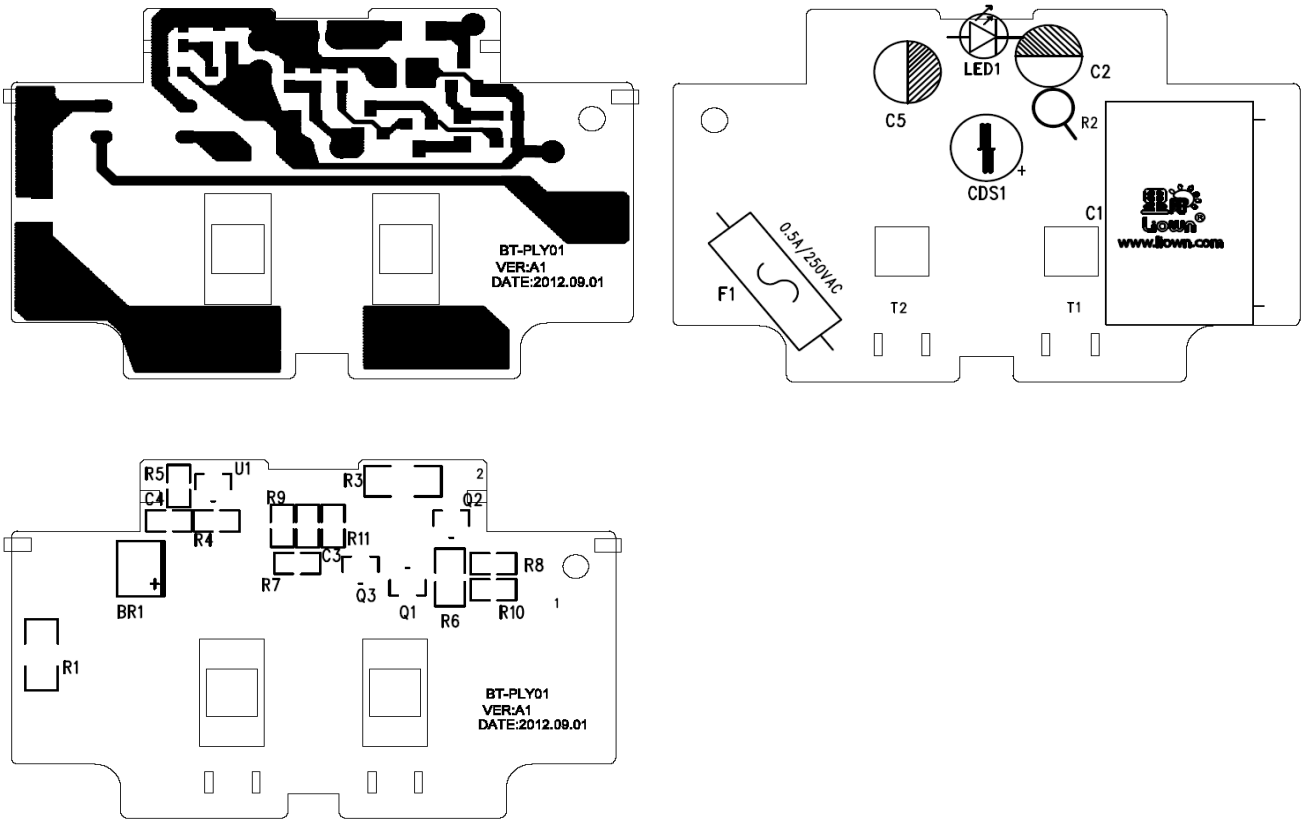
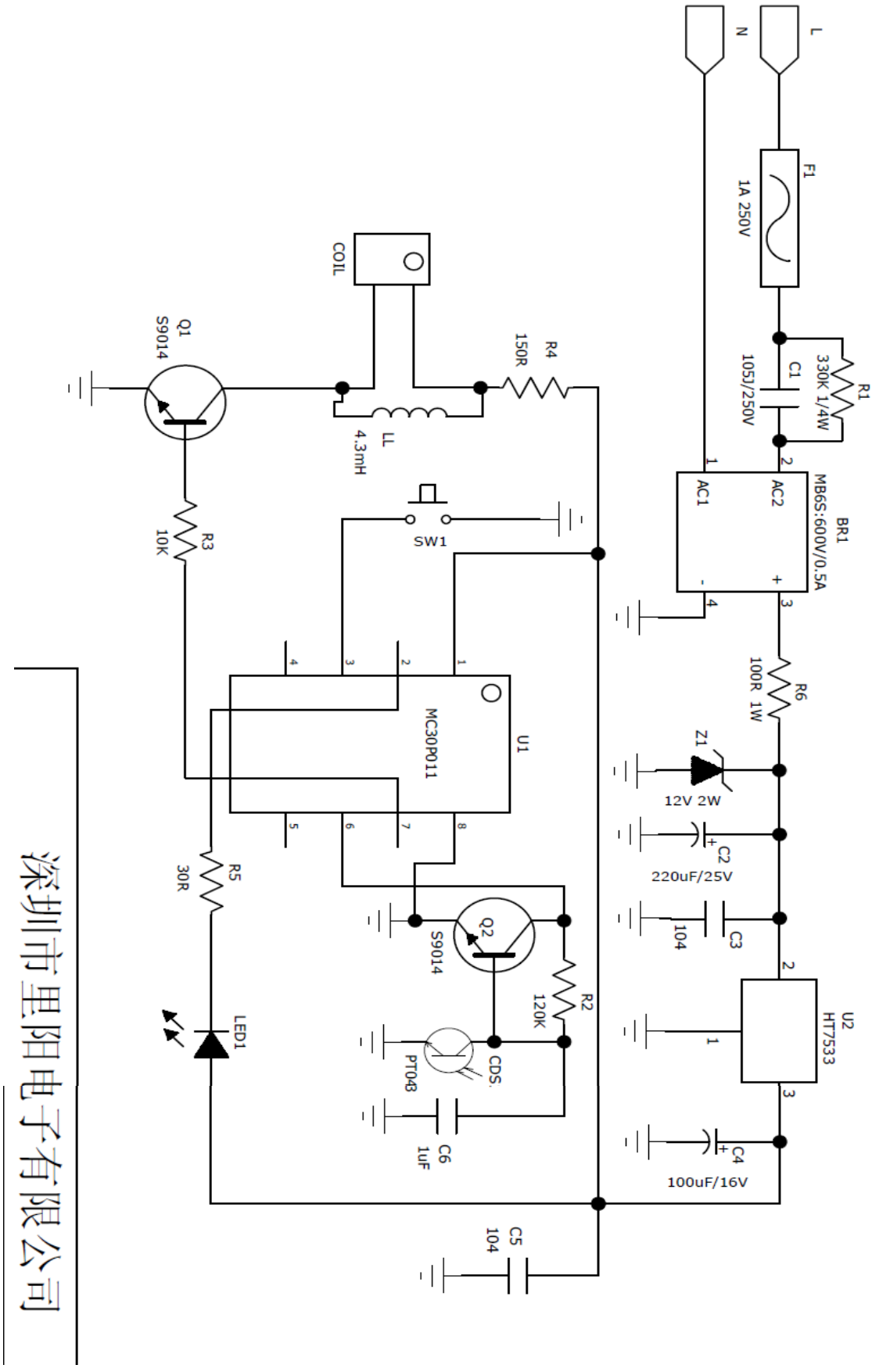


Illustration 5 - PCB layout for models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX



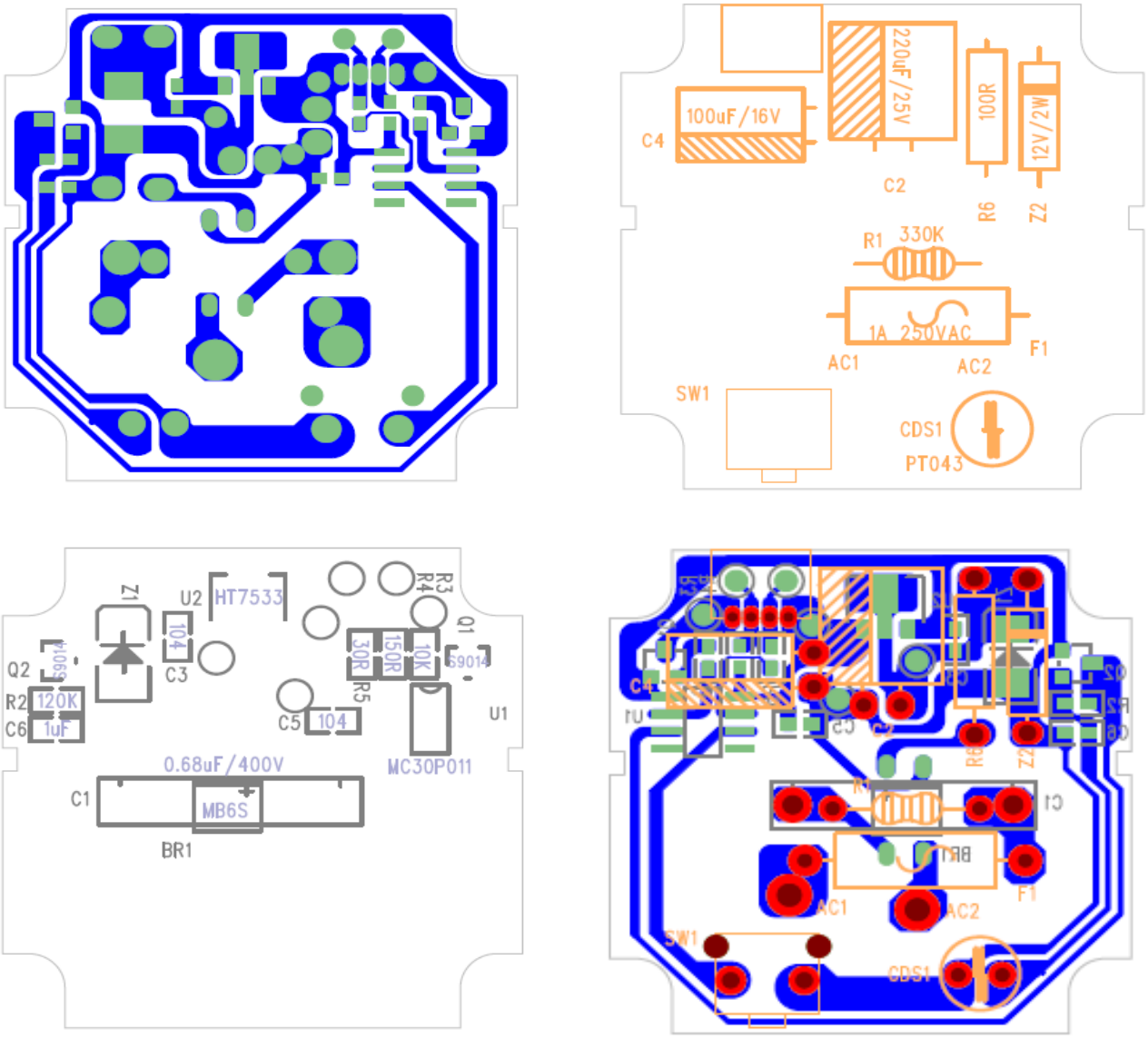
7.0 Illustrations

Illustration 6 - Circuit diagram for models LW3008; ENLMFANL-**



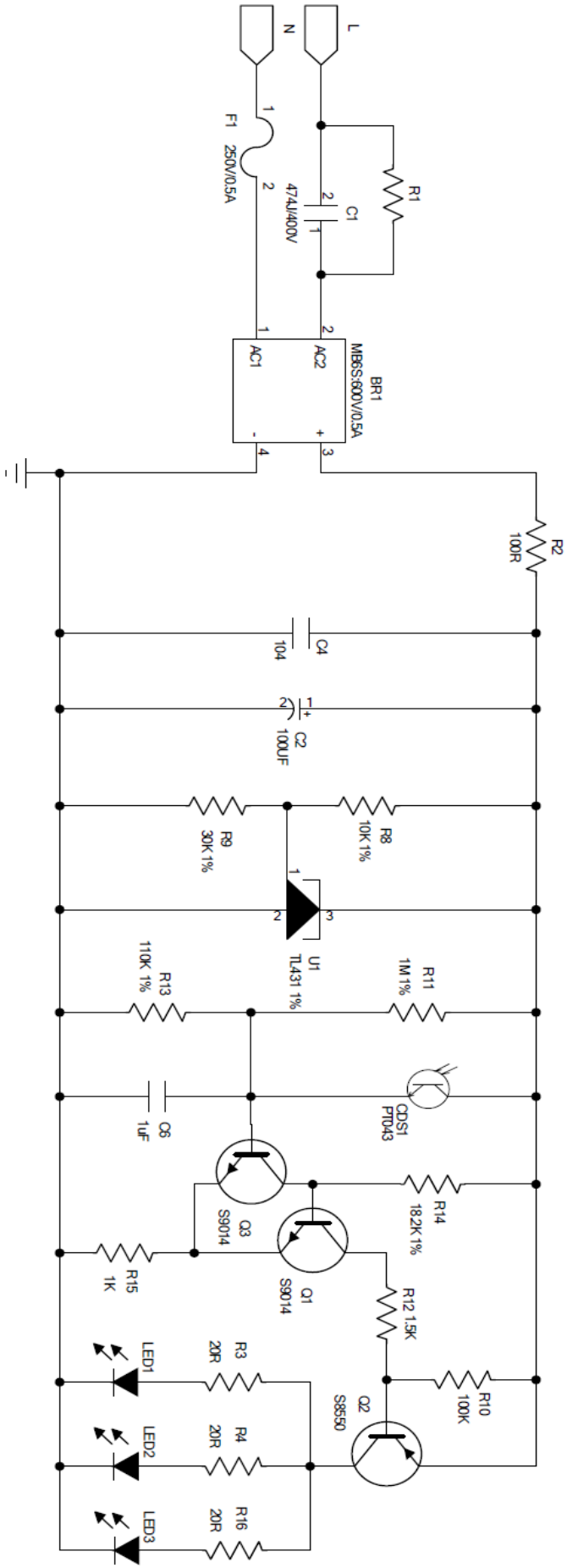
7.0 Illustrations

Illustration 7 - PCB layout for models LW3008; ENLMFANL-**



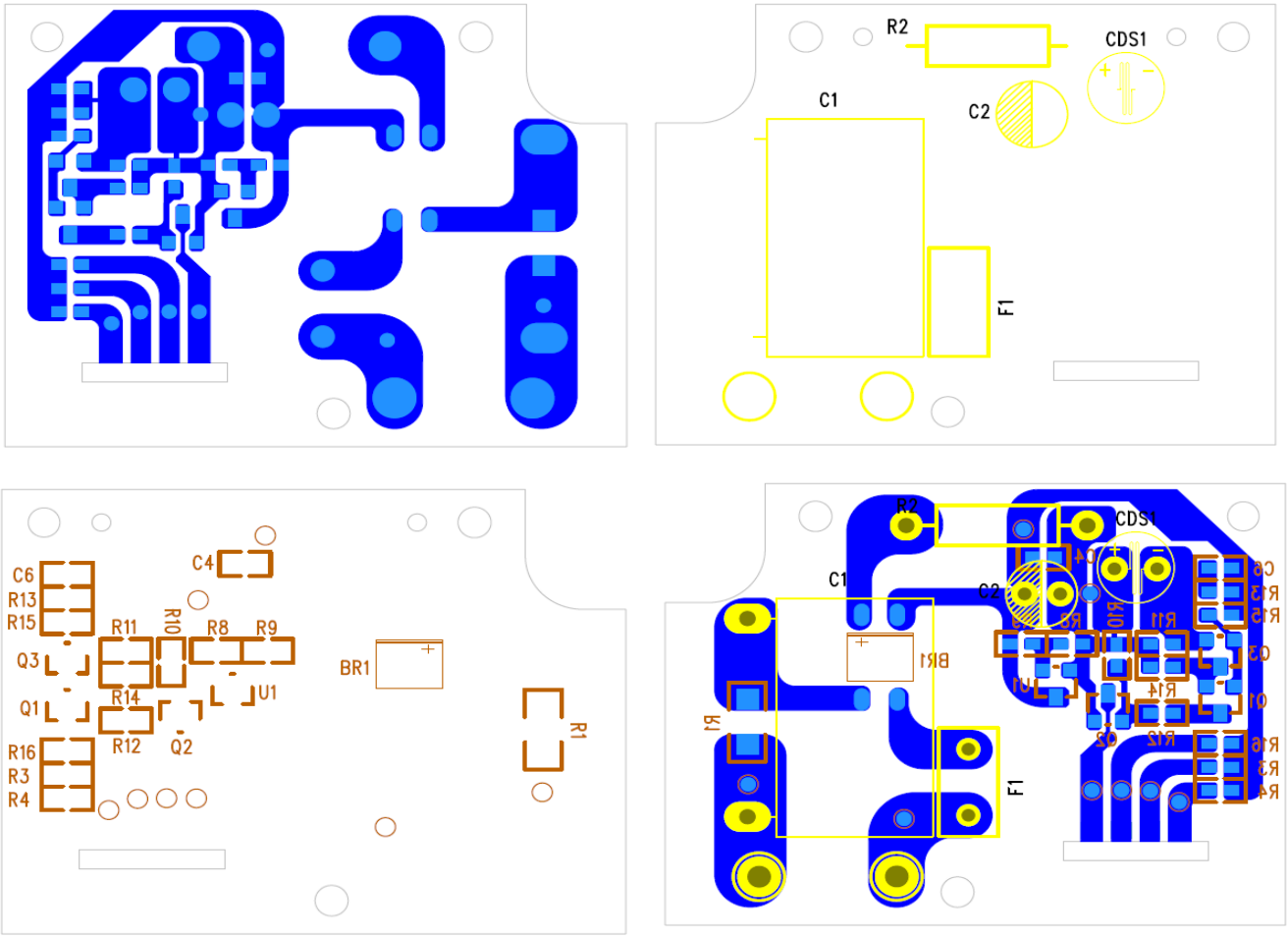
7.0 Illustrations

Illustration 10 - Circuit diagram for models LW3012; ENLUSBCOVER-**



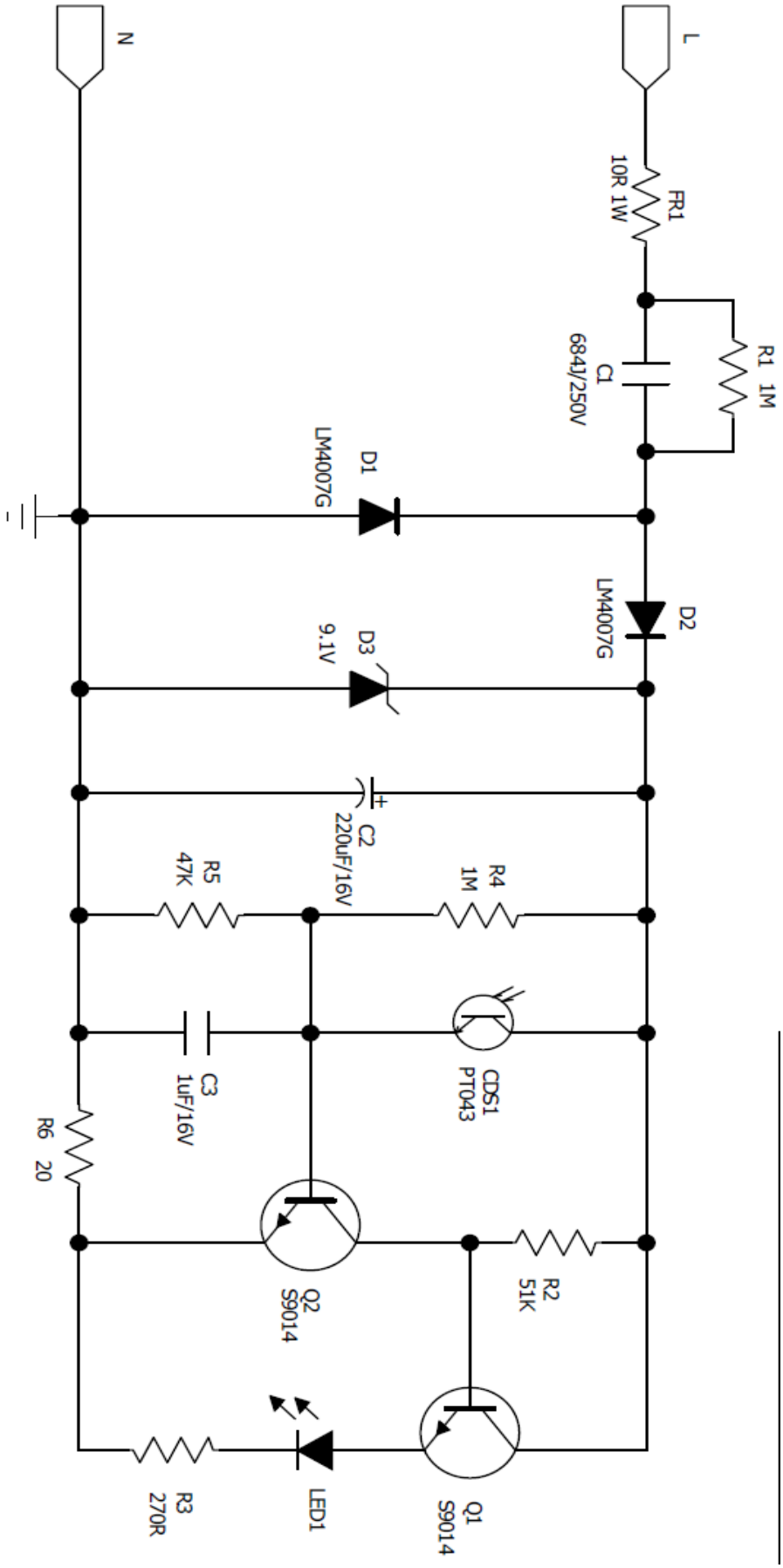
7.0 Illustrations

Illustration 11 - PCB layout for models LW3012; ENLUSBCOVER-**



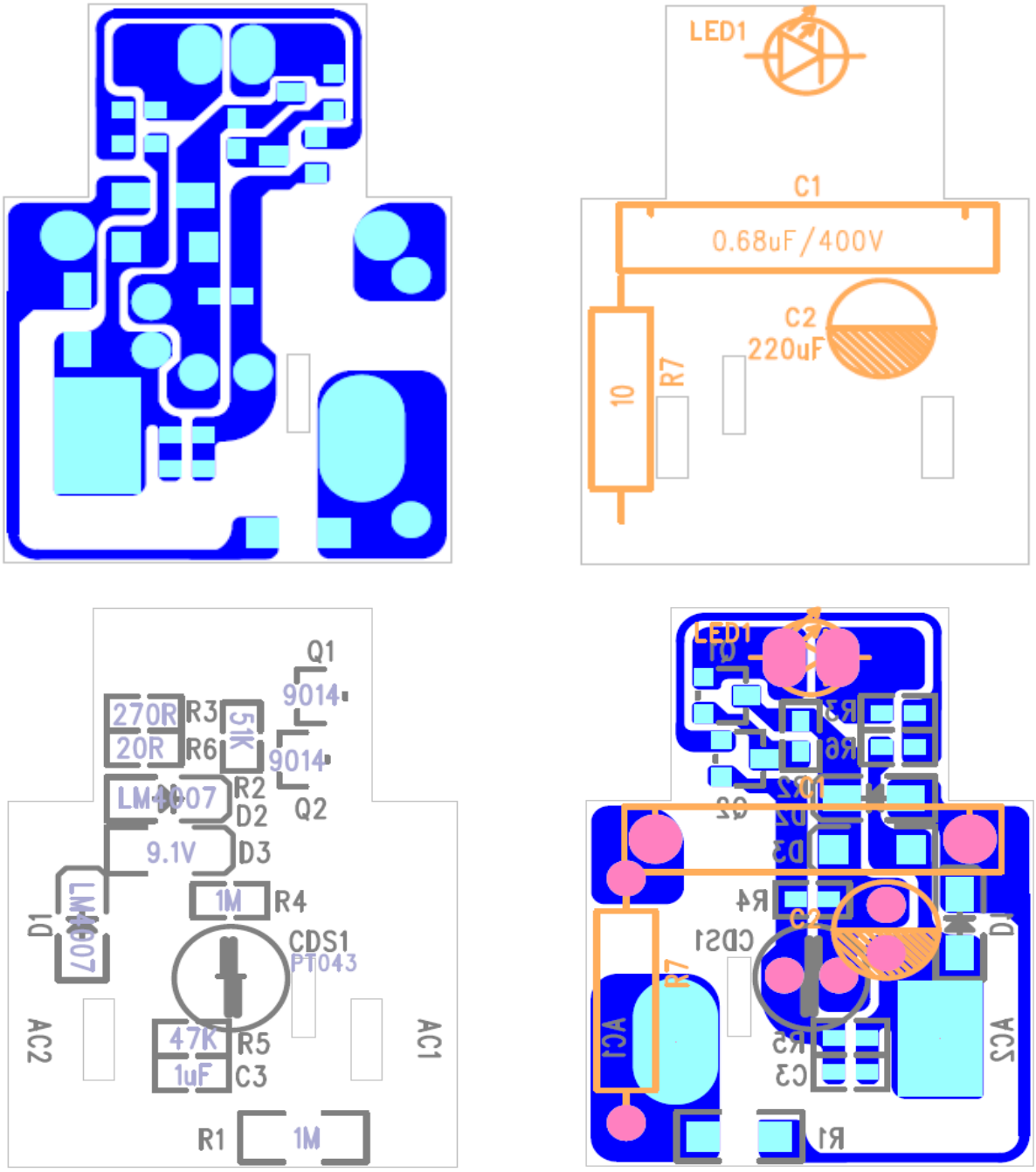
7.0 Illustrations

Illustration 12 - Circuit diagram for models LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-** and LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-**



7.0 Illustrations

Illustration 13 - PCB layout for models LW3015; HFHNL-YYYY; 092-08-0253; 092-08-0184; NLHUTCH-**



7.0 Illustrations

Illustration 14 - PCB layout for models LW3016, 092-08-0153, 092-08-0152, ENLPLFPA-**

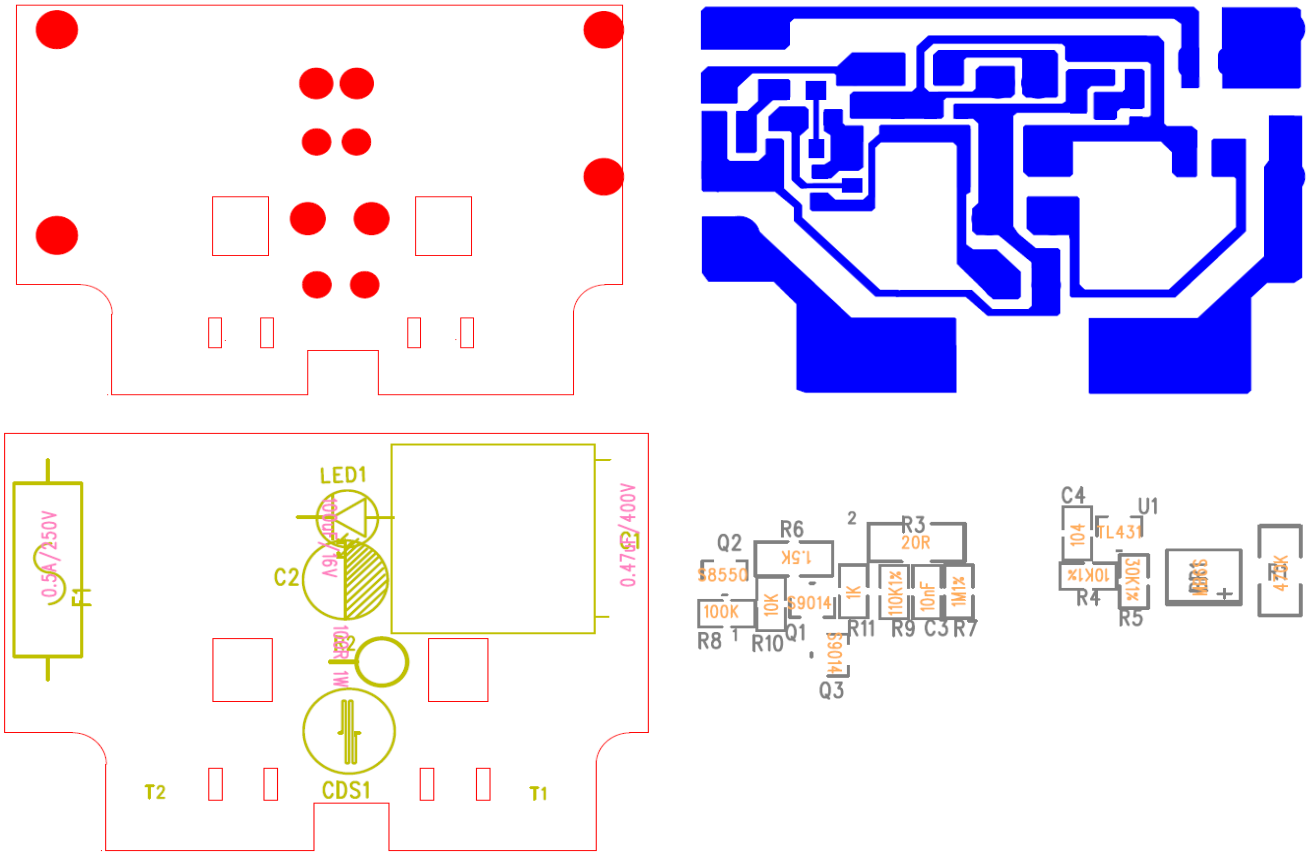
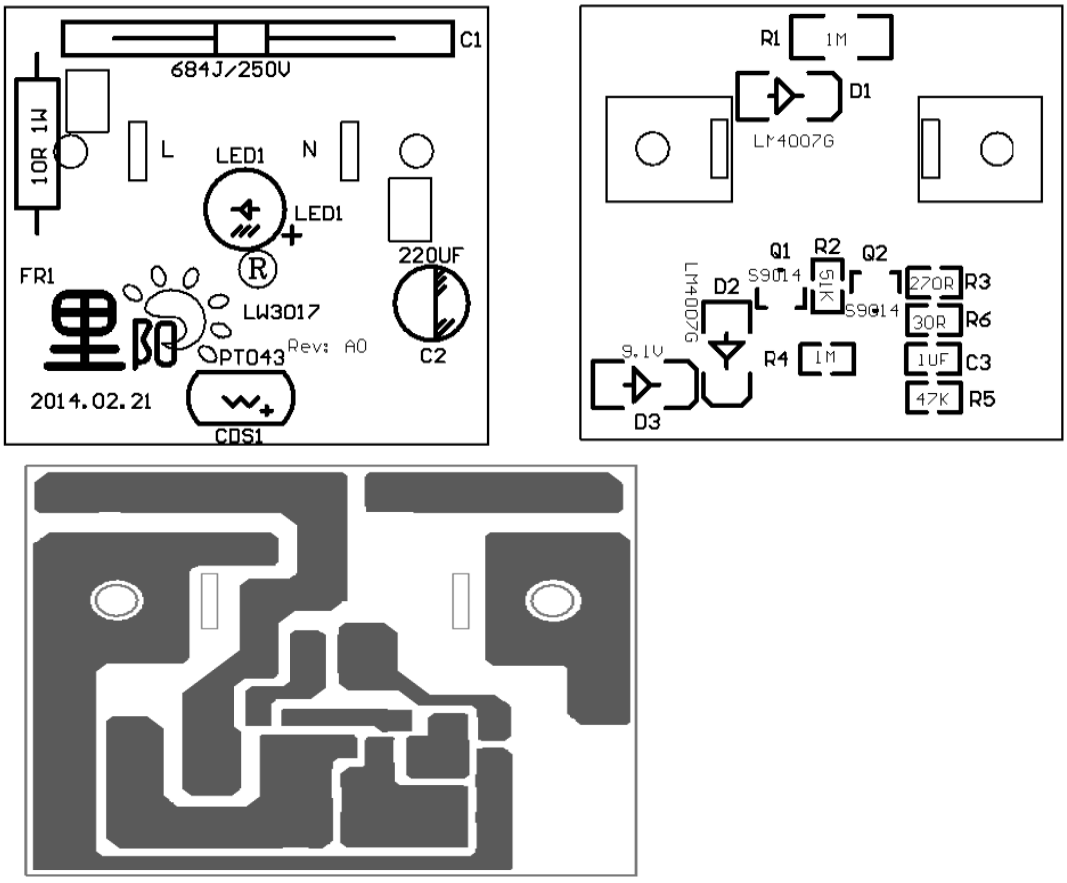
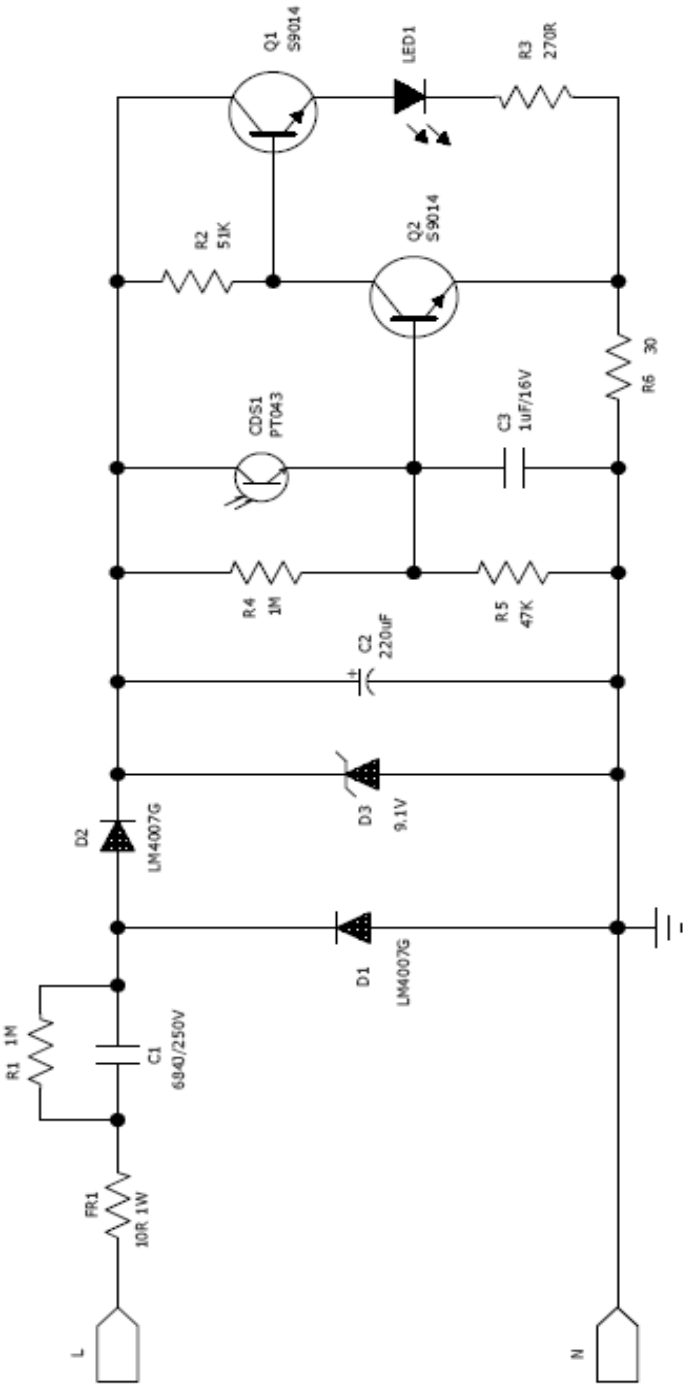


Illustration 15 - PCB layout for models LW3017,092-08-0024, E1180702, ENLPLROT##



7.0 Illustrations

Illustration 16 - Circuit diagram for models LW3017,092-08-0024, E1180702, ENLPLROT##



7.0 Illustrations

Illustration 17 - PCB layout for models LW3018,092-08-0225, E1143201, ENLPLVCW##

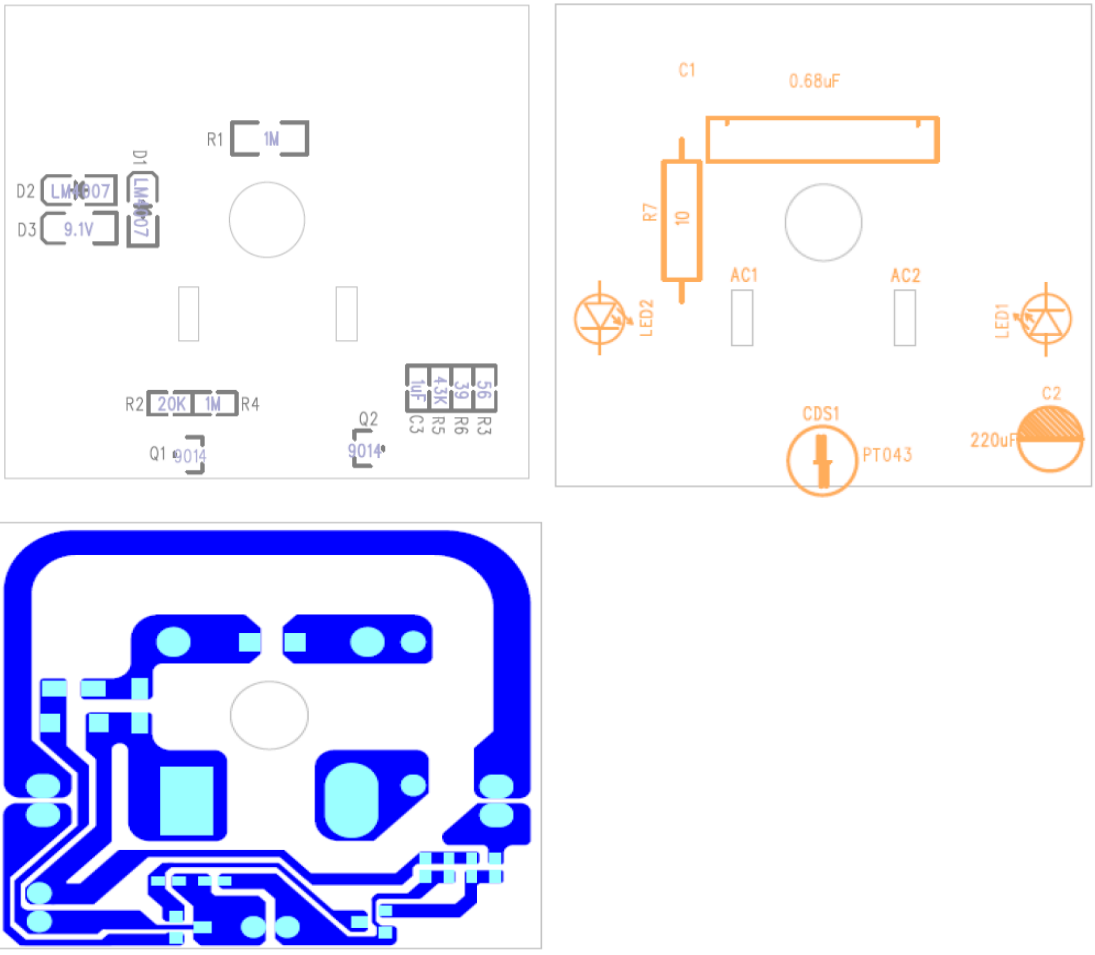
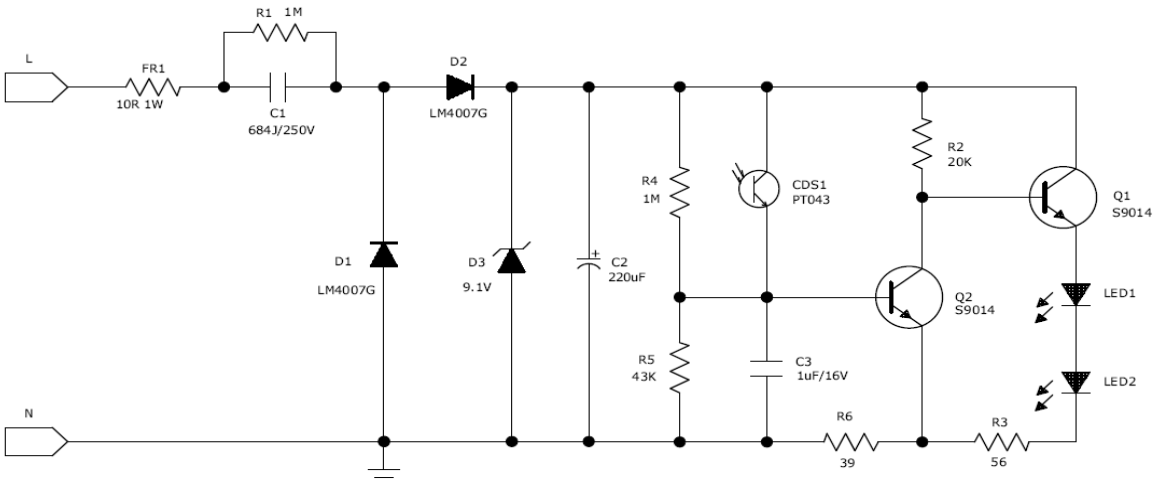
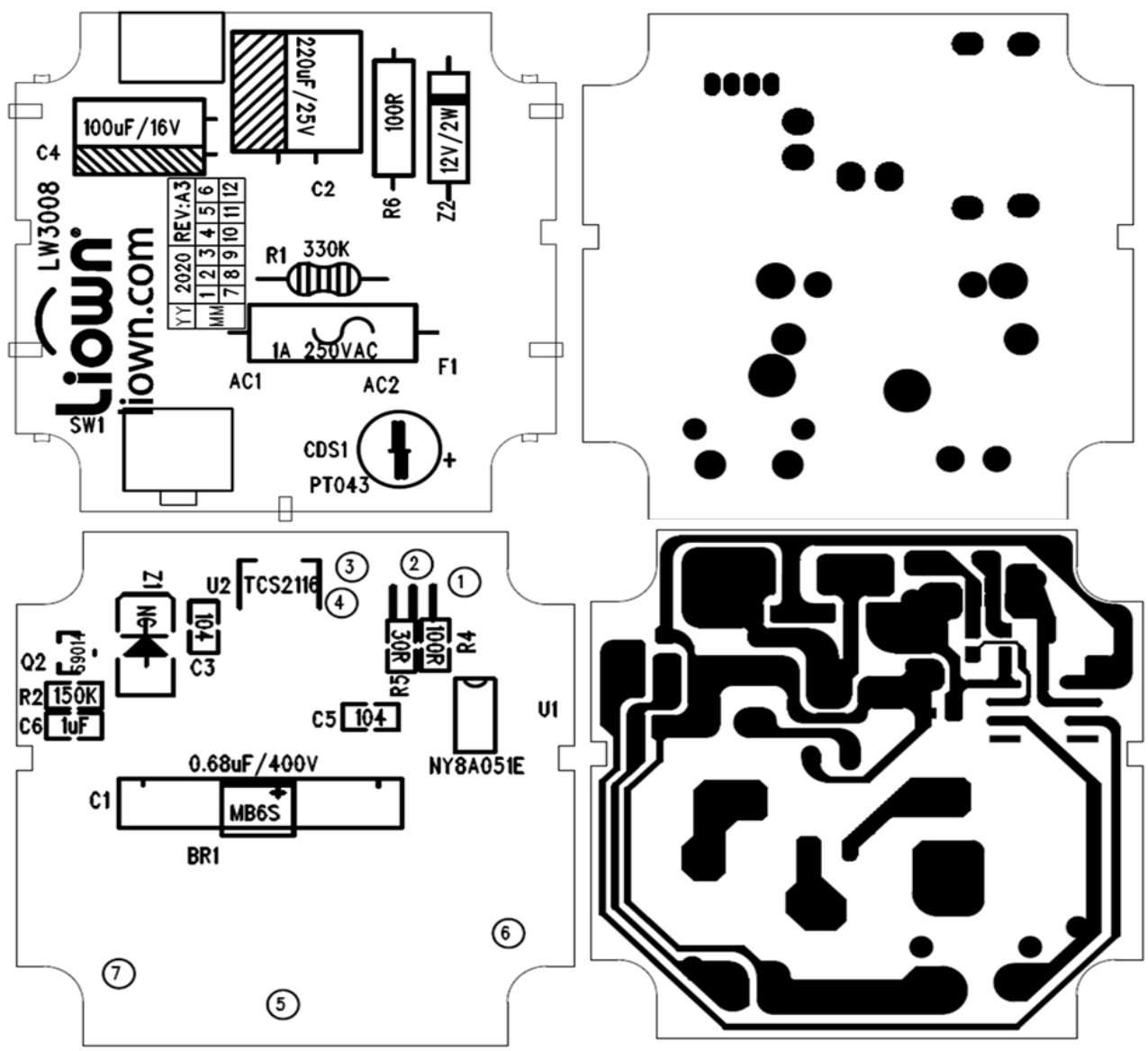


Illustration 18 - Circuit diagram for models LW3018,092-08-0225, E1143201, ENLPLVCW##



7.0 Illustrations

Illustration 19 - Alternative PCB layout for model LW3008



8.0 Test Summary					
Evaluation Period	17-Sep-2012 to 28-Sep-2012			Project No.	SH12090786
Sample Rec. Date	17-Sep-2012	Condition	Prototype	Sample ID.	0120917-13-xxx
Test Location	Building No.86, 1198 Qinzhou Road (North), 200233 Shanghai, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					

Test Description	ANSI/UL 1786 (3rd Edition. Rev Rev August 20, 2012) & CSA C22.2 No.256-05 (1st Edition. Rev August 20, 2012) /Clause	ANSI UL 8750 (1st, Rev. November 1, 2011)	CAN/CSA C22.2 No. 250.13-12 (dated January 2012) Clause
Input test	NA	8.2	9.2
Accessibility of live parts	8.2	NA	NA
Dielectric voltage-withstand	8.3	8.4	9.4
Plug blades accessibility	8.4	NA	NA
Temperature test	9.1	8.3	9.3
Plug blade secureness test	10.2	NA	NA
Mold stress-relief distortion test	10.4	NA	NA
Pull test	10.6	NA	NA
Enclosure impact test	10.7	NA	NA
Component breakdown test	11.5	8.5	9.5

8.0 Test Summary					
Evaluation Period	23-Dec-2013 to 24-Jan-2014			Project No.	131223095GZU
Sample Rec. Date	23-Dec-2013	Condition	Prototype	Sample ID.	S131223095-001~030
Test Location	Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					

Test Description	ANSI/UL 1786 (3rd Edition. Rev August 20, 2012)/ Clause	CSA C22.2 No.256-05 (1st Edition. August 20, 2012)/ Clause	/
Dielectric Voltage-Withstand	8.3	8.3	/
Normal Temperature Test	9.1	9.1	/
Blade Security Test	10.2	10.2	/
Folded Blade Compression Test	10.3	10.3	/
Mold Stress-Relief Distortion Test	10.4	10.4	/
Pull Test	10.6	10.6	/
Enclosure Impact Test	10.7	10.7	/
Component Breakdown Test	11.5	11.5	/

Test Description	ANSI/UL 8750 (1st ed., rev. Sep. 19, 2013)/ Clause	CSA C22.2 No.250.13 (1st ed., Jan., 2012)/ Clause	/
Temperature Test	8.3	9.3	/
Dielectric Voltage-Withstand Test	8.4	9.4	/
Abnormal Test - Component Failure Test	8.5.2	9.5.2	/
Abnormal Test - Output Loading Test	8.5.3	9.5.3	/
Leakage Current Measurement Test	8.7	9.7	/

8.0 Test Summary					
Evaluation Period	21-Mar-2014 to 11-Apr-2014			Project No.	140321049GZU
Sample Rec. Date	21-Mar-2014	Condition	Prototype	Sample ID.	S140321049-001~004
Test Location	Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					

Test Description	ANSI/UL 1786 (3rd Edition. Rev August 20, 2012)/ Clause	CSA C22.2 No.256-05 (1st Edition. August 20, 2012)/ Clause	/
Dielectric Voltage-Withstand	8.3	8.3	/
Normal Temperature Test	9.1	9.1	/
Blade Security Test	10.2	10.2	/
Mold Stress-Relief Distortion Test	10.4	10.4	/
Pull Test	10.6	10.6	/
Enclosure Impact Test	10.7	10.7	/
Component Breakdown Test	11.5	11.5	/

Test Description	ANSI/UL 8750 (1st ed., rev. Sep. 19, 2013)/ Clause	CSA C22.2 No.250.13 (1st ed., Jan., 2012)/ Clause	/
Temperature Test	8.3	9.3	/
Dielectric Voltage-Withstand Test	8.4	9.4	/
Abnormal Test - Component Failure Test	8.5.2	9.5.2	/
Leakage Current Measurement Test	8.7	9.7	/

Evaluation Period	2-Feb-2021 to 9-Mar-2021	Project No.	210202134GZU
Due to previous testing performed and reported, no test was added for updated UL standard "Direct Plug-In Nightlights [UL 1786:2014 Ed.4+R:22Feb2021" and CSA standard "Direct Plug-In Nightlights [CSA C22.2#256:2014 Ed.2]".			

8.0 Test Summary					
Evaluation Period	12-Dec-2023 to 11-Jan-2024			Project No.	231212041GZU
Sample Rec. Date	12-Dec-2023	Condition	Prototype	Sample ID.	S231212041-001~003
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China				
Test Procedure	Testing Lab				
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.					
The following tests were performed:					
Test Description			[UL 1786:2014 Ed.4+R:22Feb2021] / Clause	[CSA C22.2#256:2014 Ed.2+U1] Clause	-
Dielectric Voltage-Withstand			8.3	8.3	-
Normal Temperature Test			9.1	9.1	-

8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Catherine Zhang	Reviewed by:	William Chen
Title:	Project Engineer	Title:	Technical Supervisor
Signature:	*Signature on file*	Signature:	*Signature on file*

9.0 Correlation Page For Multiple Listings	
The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.	
BASIC LISTEE	Shenzhen Liown Electronics Co., Ltd.
Address	13F, Finance Centre Building, No. 22, Taizi Road, Shekou, Nanshan District, Shenzhen, Guangdong
Country	China
Product	Direct Plug-In Nightlights

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
3) a control number issued by Intertek
4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, “Conforms to” shall appear with the standard number along with the word, “Standard” or “Std.” Example: “Conforms to ANSI/UL Std. XX.”

For Canadian standards, the words “Certified to CAN/CSA Standard CXX No. XX.” shall be used, or abbreviated, “Cert. to CAN/CSA Std. CXX No. XX.”

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services Shenzhen Limited Guangzhou Branch
ETL Component Evaluation Center
Room 101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District
Guangzhou, Guangdong, China
Attn: Ms. Joey Kuang
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.
The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.
If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:
1 - a voltmeter in the primary circuit;
2 - a selector switch marked to indicate the test potential; or
3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.
In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
24-Jan-2014	Eric Tang	1.0	--	Added the revision date.
131223095GZU	Gerry Wu	2.0	--	Added the new models LW3006; LW3008; ENLMFANL-*; LW3010; 092-08-0473; ENLUSBSOL-*; LW3012; ENLUSBCOVER-*; LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*; LW3016; 092-08-0153; 092-08-0152; ENLPLFPA2; ENLPLFPA. Added the rating of new models.
		3.0	Photo 1-8	Rearranged the title of those photos. Added the LW3006 in the title of those photos.
			Photo 9-24	Added the photos of new models.
		4.0	Item 1-3, 5-8	Added the models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX, LW3006 in the technical coloumn.
			Item 6	Added the new models LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-* in the technical coloumn.
			Item 11	Added the new enclosure for new models.
			Item 12	Added the new Sensor Lens for new models.
			Item 13	Added the new LED lens for models LW3008; ENLMFANL-*, LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*.
			Item 14	Added the new heat-shrinkable tube.
			Item 15	Added the new fuse for models LW3008; ENLMFANL-*, LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*.
			Item 16	Added the new input wire of LED driver.
			Item 17	Added the new output wire of LED driver.
			Item 18	Added the new LED for new models.
			Item 19	Added the new fuse for models LW3010; 092-08-0473; ENLUSBSOL-*; LW3012; ENLUSBCOVER-*.
		7.0	Illustration 1	Added the Label B and label C for new models. Added the note of marking for new models.
			Illustration 2	Added the "warning: When the night lights plug in the socket, do not let the wider area next to the plug face to the adjacent outlet." for model LW3010; 092-08-0473; ENLUSBSOL-*.
			Illustration 6-15	Added the circuit diagram and PCB layout for new models.
		8.0	--	Added re-test summary. Re-approved.
		10.1	--	Changed the CEC information from "Intertek Testing Services Shanghai Limited" to "Intertek Testing Services Shenzhen Limited Guangzhou Branch."

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		12.0	--	Added 1st revision summary.
24-Jan-2014	Eric Tang	1.0	--	Added the revision date.
131223095GZU	Gerry Wu	2.0	--	Added the new models LW3006; LW3008; ENLMFANL-*; LW3010; 092-08-0473; ENLUSBSOL-*; LW3012; ENLUSBCOVER-*; LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*; LW3016; 092-08-0153; 092-08-0152; ENLPLFPA2; ENLPLFPA. Added the rating of new models.
		3.0	Photo 1-8	Rearranged the title of those photos. Added the LW3006 in the title of those photos.
			Photo 9-24	Added the photos of new models.
		4.0	Item 1-3, 5-8	Added the models EE110001; 1111XXX; EDNL01; HFENLXX; HFENLXXX, LW3006 in the technical coloumn.
			Item 6	Added the new models LW3016; 092-08-0153; 092-08-0152; ENLPLFPA-* in the technical coloumn.
			Item 11	Added the new enclosure for new models.
			Item 12	Added the new Sensor Lens for new models.
			Item 13	Added the new LED lens for models LW3008; ENLMFANL-*, LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*.
			Item 14	Added the new heat-shrinkable tube.
			Item 15	Added the new fuse for models LW3008; ENLMFANL-*, LW3015; HFHNL-Y; 092-08-0253; 092-08-0184; NLHUTCH-*.
			Item 16	Added the new input wire of LED driver.
			Item 17	Added the new output wire of LED driver.
			Item 18	Added the new LED for new models.
			Item 19	Added the new fuse for models LW3010; 092-08-0473; ENLUSBSOL-*; LW3012; ENLUSBCOVER-*.
		7.0	Illustration 1	Added the Label B and label C for new models. Added the note of marking for new models.
			Illustration 2	Added the "warning: When the night lights plug in the socket, do not let the wider area next to the plug face to the adjacent outlet." for model LW3010; 092-08-0473; ENLUSBSOL-*.
			Illustration 6-15	Added the circuit diagram and PCB layout for new models.
		8.0	--	Added re-test summary. Re-approved.
		10.1	--	Changed the CEC information from "Intertek Testing Services Shanghai Limited" to "Intertek Testing Services Shenzhen Limited Guangzhou Branch."
		12.0	--	Added 1st revision summary.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
11-Apr-2014 140321049G ZU	Martin Li/ Alair Tan	1.0	--	Revised the revision date.
		2.0	--	Added the new models LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##.
			--	Rearranged models and model similarity.
		3.0	Photo 25-30	Added the photos of new models.
		4.0	Item 1, 12, 18	Added the models LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW## in the technical coloumn.
			Item 2	Added the models LW3017, 092-08-0024, E1180702, ENLPLROT## in the technical coloumn.
			Item 21	Added the new component for new models.
		7.0	Ill 1	Rearranged the marking note.
			Ill 15~18	Added the circuit diagram and PCB layout for new models.
		8.0	--	Added re-test summary. Re-approved.
		12.0	--	Added revision summary.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
27-Jul-2015	Harrison Huang /	Full report	--	Revised old model No. from "ENLMFANL-*, ENLUSBSOL-*, ENLUSBCOVER-*, NLHUTCH-*, HFHNL-Y" to "ENLMFANL-**, ENLUSBSOL-**, ENLUSBCOVER-**, NLHUTCH-**, HFHNL-YYYY".
150630022GZU	Gerry Wu	1.0	--	Revised the revision date.
		2.0	--	Added new models NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB. Revised Models note from "1: For model 1111XXX, "XXX" may be three digital number from 001 to 999. For model HFENLXX, "XX" may be two letters from AA to ZZ. For model HFENLXXX, "XXX" may be three letters from AAA to ZZZ. 2: "-*" can be two number for models ENLMFANL-*, ENLUSBSOL-*, ENLUSBCOVER-*; "-*" can be one or two number or blank for model NLHUTCH-*; 3: "-Y" can be three or four letter for model HFHNL-Y. 4: "##" can be two number for models ENLPLROT## and ENLPLVCW##. to "1: "X", "*", "#" =0-9 or blank; 2: "Y" = A-Z or blank.". Revised Model Similarity note from "1: For model 1111XXX and HFENLXXX, "XX" and "XXX" denote different decorative patterns and colors; 2: "-*" denoted the colour of appliance for models ENLMFANL-*, ENLUSBSOL-*, ENLUSBCOVER-*; "-*" denoted the colour of applance or picture on decorative cover for model NLHUTCH-*; 3: "-Y" denoted the colour appliance of photo of decorative cover for model HFHNL-Y. 4: "##" denoted the colour of appliance for models ENLPLROT## and ENLPLVCW##." to "1: "XX" and "XXX" denote different decorative patterns and colors; 2: "**" and "YYYY" denote the colour of appliance or picture on decorative cover; 3: "##" denoted the colour of appliance;4: Models NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB have the same structures and ratings with LW3015 only except different attached pictures on the surface of products.".
		7.0	III.1	Rearranged Markings note.
		8.1	--	Added "Signature on file" in the signature column.
		12.0	--	Added the revision summary.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
10-Mar-2021 210202134GZU	Simon Zhang Randy Guo Gerry Wu	1.0	-	Updated the UL standard from"Direct Plug-In Nightlights - ANSI/UL 1786 (3rd Edition. Rev August 20, 2012)" to "Direct Plug-In Nightlights [UL 1786:2014 Ed.4+R:22Feb2021]". Updated the CSA standard from"Direct Plug-In Nightligths - CSA C22.2 No.256-05 (1st Edition. August 20, 2012)" to "Direct Plug-In Nightlights [CSA C22.2#256:2014 Ed.2]". Changed the applicant from "Hong Kong Liown Technology Co., Limited" to "Shenzhen Liown Electronics Co., Ltd.", changed the applicant Address from "2/F Teng Fuh Comm Bldg 333, Queen's Road Central, Sheung Wan, HONG KONG" to "13F, Finance Centre Building, No. 22, Taizi Road, Shekou, Nanshan District, Shenzhen, Guangdong", changed the applicant country from "HONG KONG" to "China", changed the applicant Phone and Fax from "00852-317-10710, 00852-317-10737" to "86-755-86271000, 86-755-86271029 ". Changed the manufacturer from "Shenzhen Liown Electronics Co., Ltd." to "Dongguan Liown Electronics Co., Ltd.", changed the manufacturer Address from "No. 7, Gongye 3rd Road, Shekou, Nanshan District, SHENZHEN Guangdong 518067 CHINA" to "No. 5, Yankou 1st Lane, Xiegang Town, Dongguan, Guangdong", added the new manufacturer contact,phone, fax and email "Ms. Li Fei/Mr Paley Pu, 86-755-86271000/86-769-87639898, 86-755-86271029/86-769-87639898, lifei@liown.com/prc@liown.com".
		2.0	-	Deleted the models LW3010, 092-08-0473, ENLUSBSOL. Changed the models from "EE110001, 1111XXX, EDNL01, HFENLXX, HFENLXXX, LW3006, LW3008, ENLMFANL-**, LW3010, 092-08-0473, ENLUSBSOL-**, LW3012, NLUSBCOVER-**, LW3015, HFHNL-YYYY, 092-08-0253, 092-08-0184, NLHUTCH-**, LW3016, 092-08-0153, 092-08-0152, ENLPLFPA2, ENLPLFPA, LW3017, 092-08-0024, E1180702, ENLPLROT##, LW3018,092-08-0225, E1143201, ENLPLVCW##, NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB Note: 1: "X", "*", "#" =0-9 or blank; 2: "Y" = A-Z or blank." to "EE110001, 1111, EDNL01, HFENL, HFENL, LW3006, LW3008, ENLMFANL, LW3010, 092-08-0473, ENLUSBSOL, LW3012, NLUSBCOVER, LW3015, HFHN, 092-08-0253, 092-08-0184, NLHUTCH, LW3016, 092-08-0153, 092-08-0152, ENLPLFPA2, ENLPLFPA, LW3017, 092-08-0024, E1180702, ENLPLROT, LW3018,092-08-0225, E1143201, ENLPLVCW, NLDTKC, NLDTKSW, NLDTKBB, NLDTKTB; followed by up to five characters.". Added description "The suffix "followed by up to five characters." maybe described as "XX", "XXX", "**", "YYYY" or "##"." in Model Similarity cloumn.

12.0 Revision Summary

The following changes are in compliance with the declaration of Section 8.1:

Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		3.0	13-15	Deleted the photos 13, 14,15 for models LW3010, 092-08-0473, ENLUSBSOL.
		4.0	11, 12, 18, 19	Deleted the models LW3010, 092-08-0473, ENLUSBSOL in the Technical data column.
		6.0	8	Added the description "Illustration 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18 - Verify Circuit diagram and PCB layout whether they are identical to this report.".
			9	Changed description from " Refer to Illustration No. 1" to "Refer to Illustration No. 1, 1a Label A, B and C". Deleted the description "The following markings in French are required: refer to Illustration No. 1 for details.".
			10	Deleted the description "all cautionary markings are required to present in French and English."
		7.0	1	Removed ETL mark. Deleted the description in note 1 "the ETL logo shall be at least 8mm high. ”C” and “US” shall be at least 2mm high, Intertek shall be at least 3mm high, control number shall be at least 2mm high. Other letter shall be at least 1.6mm." Deleted the models LW3010, 092-08-0473, ENLUSBSOL in note 3.
			1a	Added "Illustration 1a - Marking (continued)." Removed ETL mark and description "MADE IN CHINA".
			2	Deleted the description "For models LW3010; 092-08-0473; ENLUSBSOL-**: Warning: When the night lights plug in the socket, do not let the wider area next to the plug face to the adjacent outlet.".
			8,9	Deleted Illustration 8, 9.
		8.0	-	Re-signed.
11-Jan-2024	Catherine Zhang	1.0	-	Updated the CSA standard from "Direct Plug-In Nightlights [CSA C22.2#256:2014 Ed.2]" to "Direct Plug-In Nightlights [CSA C22.2#256:2014 Ed.2+U1]".
231212041GZU	William Chen	3.0	31, 32	Added new photos 31, 32.
		4.0	22	Added new component 22.
		6.0	8	Added 19 in Schematics.
			9	Deleted Label B from markings.
		7.0	1	Deleted "CONFORMS TO ANSI/ UL STD. 1786 CERTIFIED TO CSA STD. C22.2 NO. 256-05" from label A.
			1a	Deleted Label B from Illustration 1a. Delted "Label B" from note.
			19	Added Illustration 19 - Alternative PCB layout for model LW3008.
		8.0	-	Re-signed.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
18-Apr-2025	Aron Luo Aron Luo	1.0		Deleted Manufacturer contact Ms. Li Fei and Email lifei@liown.com.
250220170GZU	Xavier Xie Xavier Xie	2.0	-	Added new brand name "LUMINARA". Added new models 8358, 997375, 998275, 998276, 998277, 998279, 993338, 993338K2 or 9967; followed by up to five characters. Added model similarity with "LW3008, 8358, 997375, 998275, 998276, 998277, 998279, 993338, 993338K2 and 9967 are the same, except finish color."
		6.0	9	Deleted description " Refer to Illustration No. 1, 1a Label A and C for details."
		7.0	1, 1a	Deleted Illustration 1, 1a.