



Ref. Certif. No.

JPTUV-093226

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

LED LIGHTING

Name and address of the applicant
Nom et adresse du demandeur

LED PANEL LIGHTING CO.,LTD.
1~6F,NO.233 QingFeng Rd,Sanzhong,
Qingxi,Dongguan,GD 523651, P. R. China

Name and address of the manufacturer
Nom et adresse du fabricant

LED PANEL LIGHTING CO.,LTD.
1~6F,NO.233 QingFeng Rd,Sanzhong,
Qingxi,Dongguan,GD 523651, P. R. China

Name and address of the factory
Nom et adresse de l'usine

LED PANEL LIGHTING CO.,LTD.
1~6F,NO.233 QingFeng Rd,Sanzhong,
Qingxi,Dongguan,GD 523651, P. R. China

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

AC 220-240V; 50/60Hz; Class II; IP20; ta:40°C;
For other rating, see test report.

Trademark (if any)
Marque de fabrique (si elle existe)

LED Lighting(logo)

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

For model names, refer to test report.

Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,
peuvent être indiqués sur la 2^{ème} page)

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60598-2-2:2011
IEC 60598-1:2014 + A1
See Test Report for National Differences

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

50211306 001

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

**TÜVRheinland®**

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
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Mail: info@jpn.tuv.com
Web: www.tuv.com

Signature:


Tim Feng

Date: 11.01.2019

LED PANEL LIGHTING CO., LTD.

Date : 11.01.2019
Our ref. : hongji SZ
Your ref.: 164151754

1~6F, NO.233 QingFeng Rd, Sanzhong,
Qingxi, Dongguan, GD 523651
P. R. China

Ref : CB Certificate Japan

Type of Equipment : LED LIGHTING
Model Designation : See Certificate
Certificate No. : JPTUV-093226
Report No. : 50211306 001

Dear Ladies and Gentlemen,

Thank you very much for your interest in our services.

Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body



Tim Feng

Enclosure

证书的详细信息请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询



Test Report issued under the responsibility of:



TEST REPORT
IEC 60598-2-2
Luminaires
Part 2: Particular requirements
Section 2: Recessed luminaires

Report Number. : 50211306 001

Date of issue : December 20, 2018

Total number of pages : 42 pages

Name of Testing Laboratory : Shenzhen Alpha Product Testing Co., Ltd.
preparing the Report..... :

Applicant's name : LED PANEL LIGHTING CO., LTD.

Address : 1~6F, NO.233 QingFeng Rd, Sanzhong, Qingxi, Dongguan,
GD 523651, P. R. China

Test specification:

Standard : IEC 60598-2-2:2011 used in conjunction with IEC 60598-1:2014,
AMD1:2017

Test procedure : CB Scheme

Non-standard test method : N/A

Test Report Form No. : IEC60598_2_2F

Test Report Form(s) Originator : Intertek Semko AB

Master TRF..... : Dated 2017-12-21

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**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory
and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

General disclaimer:

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description	LED LIGHTING	
Trade Mark	See marking plate.	
Manufacturer	Same as the applicant.	
Model/Type reference	See "General product information" for details.	
Ratings	See "General product information" for details.	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒ CB Testing Laboratory:	Shenzhen Alpha Product Testing Co., Ltd.	
Testing location/ address.....	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District Shenzhen 518103 Guangdong China	
Tested by (name, function, signature)	Marco Fu	<i>Marco Fu</i>
Approved by (name, function, signature) ...:	Kevin Mei	<i>Kevin Mei</i>
Testing procedure: CTF Stage 1:		
Testing location/ address.....		
Tested by (name, function, signature)		
Approved by (name, function, signature) ...:		
Testing procedure: CTF Stage 2:		
Testing location/ address.....		
Tested by (name + signature)		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature) ...:		
Testing procedure: CTF Stage 3:		
Testing procedure: CTF Stage 4:		
Testing location/ address.....		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) .:		
Approved by (name, function, signature) ...:		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):

- Attachment 1: European Group Differences and National Differences (1 page);
- Attachment 2: Photobiological safety of lamps and lamp systems were evaluated according to standard IEC 62471, IEC TR 62778 and EN 62471 (2 pages);
- Attachment 3: Page of test according to IEC 62031 (1 page);
- Attachment 4: Photo Documentation (11 pages).

Summary of testing:**Tests performed (name of test and test clause):**

1. Following tests performed during evaluation:

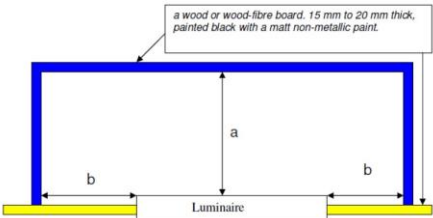
Clause(s)	Test(s)
2.6 (3.4)	Test of marking
2.7 (4.12)	Screws and connections(mechanical) and glands
2.7 (4.13)	Mechanical strength
2.7 (4.14)	Suspensions, fixings and means of adjusting
2.7 (4.24)	Photobiological hazards
2.8 (11)	Creepage distances and clearances
2.11 (5)	External and internal wiring
2.12 (8)	Protection against electric shock
2.13 (12)	Endurance test and thermal test
2.14 (9)	Resistance to dust and moisture
2.15 (10)	Insulation resistance and electric strength
2.16 (13)	Resistance to heat, fire and tracking

-Full test were performed on the models BLIT-60120-60D-65, and partial test were performed on other models.

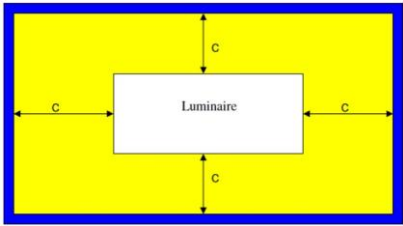
Testing location:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District Shenzhen 518103 Guangdong China

Remark:
During heating test, fix the luminaire to a ceiling, a box
as following cover the luminaire
 $a=b=c=0\text{mm}$
Side view



Top view



Summary of compliance with National Differences:

List of countries addressed

EU= EU Group differences.

☒ The product fulfils the requirements of EN 60598-1:2015+A1:2018 and EN 60598-2-2:2012.

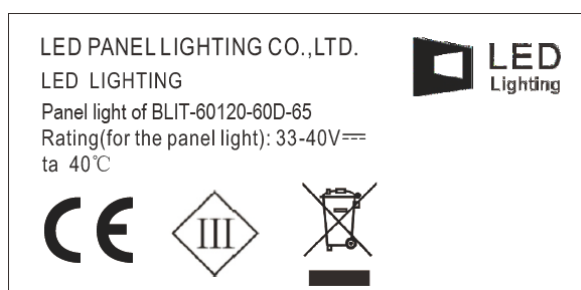
Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Label marking on the package:



Label marking on the luminaire:

**Note:**

- These labels are representative only, within the identical series, the labels are similar, except model name and rating correspondingly.
- The relevant symbol for luminaires not suitable for covering with thermally insulated material. The minimum size of the symbol shall be 25mm for each side.

Test item particulars.....:	
Classification of installation and use.....: Recessed luminaires	
Supply Connection Supply cords	
Possible test case verdicts:	
- test case does not apply to the test object..... : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement..... : F (Fail)	
Testing..... :	
Date of receipt of test item November 30, 2018	
Date (s) of performance of tests From December 3rd to 19th, 2018	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Same as applicant's name and address	

General product information:

Product: LED LIGHTING

-This series products are LED LIGHTING, which are designed with rated 220-240V~, 50/60Hz, Class II, IP20, ta=40°C, CCT: 2700-6500K, non-dimmable, recessed mounted, suitable for mounting on normally flammable surface, but not suitable for covering with thermally insulating material.

-This series products match three series LED controlgear which had been certified CB. There are LF-GIF060YA(H)-xxxxy/LF-GIF050YA(H)-xxxxy、LF-GIF040YA(H)-xxxxy/LF-GIF030YA(H)-xxxxy、AGT-I789-cccc.

Models list 1:

Model no.	Rating	Power (W)	LED Driver	LED chip	LED Quantities (pcs)	Size (mm)
BLIT-60120-60D-YY	220-240V, 50/60Hz	60	LF-GIF060YA(H)-1550y	ETRC-3030XB-MAOB	72/96	596×1196
BLIT-60120-50D-YY		50	LF-GIF050YA(H)-1300y			
BLIT-60120-45D-YY		45	LF-GIF040YA(H)-0950y, AGT-I789-0950			
BLIT-60120-40D-YY		40	LF-GIF050YA(H)-1300y		36/48	296×1196
BLIT-30120-45D-YY		45	LF-GIF040YA(H)-0950y, AGT-I789-0950			
BLIT-30120-40D-YY		40	LF-GIF040YA(H)-0900y, AGT-I789-0900			
BLIT-30120-35D-YY		35	LF-GIF040YA(H)-0800y			
BLIT-30120-30D-YY		30	LF-GIF030YA(H)-0650y			
BLIT-30120-25D-YY		25	LF-GIF030YA(H)-0600y			
BLIT-30120-22D-YY		22	LF-GIF030YA(H)-0550y		36/48	620×620
BLIT-30120-20D-YY		20	LF-GIF050YA(H)-1300y			
BLIT-6262-45D-YY		45	LF-GIF040YA(H)-0950y, AGT-I789-0950			
BLIT-6262-40D-YY		40	LF-GIF040YA(H)-0900y, AGT-I789-0900			
BLIT-6262-35D-YY		35	LF-GIF040YA(H)-0800y			
BLIT-6262-30D-YY		30	LF-GIF030YA(H)-0650y			
BLIT-6262-25D-YY		25	LF-GIF030YA(H)-0600y			
BLIT-6262-22D-YY		22	LF-GIF030YA(H)-0550y			
BLIT-6262-20D-YY		20				

Model no.	Rating	Power (W)	LED Driver	LED chip	LED Quantities (pcs)	Size (mm)
BLIT-6060-45D-YY		45	LF-GIF050YA(H)-1300y		36/48	596×596
BLIT-6060-40D-YY		40	LF-GIF040YA(H)-0950y, AGT-I789-0950			
BLIT-6060-35D-YY		35	LF-GIF040YA(H)-0900y, AGT-I789-900			
BLIT-6060-30D-YY		30	LF-GIF040YA(H)-0800y			
BLIT-6060-25D-YY		25	LF-GIF030YA(H)-0650y			
BLIT-6060-22D-YY		22	LF-GIF030YA(H)-0600y			
BLIT-6060-20D-YY		20	LF-GIF030YA(H)-0550y			
Note:“YY”: Two characters represent the color temperature of LED chip. The range of color temperature is 2700-6500K. (YY=27,30,35,40,45,50,55,60,65. Eg. YY=27, it stands 2700K.)						

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
2.3 (0)	GENERAL TEST REQUIREMENTS		P
2.3 (0.3)	More sections applicable	Yes ☐ No ☒	—
2.3 (0.5)	Components	(see Annex 1)	—
2.3 (0.7)	Information for luminaire design in light sources standards		—
2.3 (0.7.2)	Light source safety standard	IEC 62031	—
	Luminaire design in the light source safety standard		P

2.5 (2)	CLASSIFICATION OF LUMINAIRES		P
2.5 (2.2)	Type of protection	Class II	P
2.5 (2.3)	Degree of protection.....	IP20	—
2.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ☒ No ☐	—
2.5 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—

2.6 (3)	MARKING		P
2.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
2.6 (3.3)	Additional information		P
	Language of instructions	English	P
2.6 (3.3.1)	Combination luminaires		N/A
2.6 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
2.6 (3.3.3)	Operating temperature		N/A
2.6 (3.3.5)	Wiring diagram		N/A
2.6 (3.3.6)	Special conditions		N/A
2.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
2.6 (3.3.8)	Limitation for semi-luminaires		N/A
2.6 (3.3.9)	Power factor and supply current		N/A
2.6 (3.3.10)	Suitability for use indoors	For indoors use only	P
2.6 (3.3.11)	Luminaires with remote control		N/A
2.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
2.6 (3.3.13)	Specifications of protective shields		N/A
2.6 (3.3.14)	Symbol for nature of supply	~	P
2.6 (3.3.15)	Rated current of socket outlet		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
2.6 (3.3.16)	Rough service luminaire		N/A
2.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	See the instruction sheet	P
2.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
2.6 (3.3.19)	Protective conductor current in instruction if applicable		N/A
2.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
2.6 (3.3.21)	Non-replaceable and non-user replaceable light sources information provided	Non replaceable	P
2.6 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
2.6 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
2.6 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
2.6 (3.4)	Test with water	15s	P
	Test with hexane	15s	P
	Legible after test		P
	Label attached		P

2.7 (4)	CONSTRUCTION		P
2.7 (4.2)	Components replaceable without difficulty		P
2.7 (4.3)	Wireways smooth and free from sharp edges		P
2.7 (4.4)	Lampholders		N/A
2.7 (4.4.1)	Integral lampholder		N/A
2.7 (4.4.2)	Wiring connection		N/A
2.7 (4.4.3)	Lampholder for end-to-end mounting		N/A
2.7 (4.4.4)	Positioning		N/A
	- pressure test (N)		—
	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)		—
	After test the lampholder have not moved from its position and show no permanent deformation		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
2.7 (4.4.5)	Peak pulse voltage		N/A
2.7 (4.4.6)	Centre contact		N/A
2.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
2.7 (4.4.8)	Lamp connectors		N/A
2.7 (4.4.9)	Caps and bases correctly used		N/A
2.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
2.7 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
2.7 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
2.7 (4.7)	Terminals and supply connections		N/A
2.7 (4.7.1)	Contact to metal parts		N/A
2.7 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
2.7 (4.7.3)	Terminals for supply conductors		N/A
2.7 (4.7.3.1)	Welded method and material		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 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
2.7 (4.7.4)	Terminals other than supply connection		N/A
2.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
2.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
2.7 (4.8)	Switches		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- compliance with IEC 61058-1 for electronic switches		N/A
2.7 (4.9)	Insulating lining and sleeves		N/A
2.7 (4.9.1)	Retainment		N/A
	Method of fixing		N/A
2.7 (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
2.7 (4.10)	Double or reinforced insulation		P
2.7 (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
2.7 (4.10.2)	Assembly gaps:		P
	- not coincidental		P
	- no straight access with test probe		P
2.7 (4.10.3)	Retainment of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
2.7 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
2.7 (4.11)	Electrical connections and current-carrying parts		P
2.7 (4.11.1)	Contact pressure		P
2.7 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
2.7 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
2.7 (4.11.4)	Material of current-carrying parts		P
2.7 (4.11.5)	No contact to wood or mounting surface		N/A
2.7 (4.11.6)	Electro-mechanical contact systems		N/A
2.7 (4.12)	Screws and connections (mechanical) and glands		P
2.7 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	Fixed the back cover plate: Φ3,3mm, 0,8Nm.	P
	Torque test: torque (Nm); part..... :		N/A
	Torque test: torque (Nm); part..... :		N/A
2.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
2.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm) :		N/A
	- lampholder; torque (Nm) :		N/A
	- push-button switches; torque 0,8 Nm :		N/A
2.7 (4.12.5)	Screwed glands; force (Nm) :		N/A
2.7 (4.13)	Mechanical strength		P
2.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm) :		N/A
	- other parts; energy (Nm) :	0,35Nm	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
2.7 (4.13.2)	Metal parts have adequate mechanical strength		P
2.7 (4.13.3)	Straight test finger	30N	P
2.7 (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

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	d) for temporary installations and suitable for mounting on a stand		N/A
2.7 (4.13.6)	Tumbling barrel		N/A
2.7 (4.14)	Suspensions, fixings and means of adjusting		P
2.7 (4.14.1)	Mechanical load:		P
	A) four times the weight	For the model: BLIT-60120-60D-65, 4×4,1kg=16,4kg	P
	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
2.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		—
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
2.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles..... :		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
2.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
2.7 (4.14.5)	Guide pulleys		N/A
2.7 (4.14.6)	Strain on socket-outlets		N/A
2.7 (4.15)	Flammable materials		P
	- glow-wire test 650°C	See Test Table 2.16 (13.3.2)	P
	- spacing ≥30 mm	N/A	N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- electronic circuits exempted		N/A
2.7 (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
2.7 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear :	(compliance with Section 12)	N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
2.7 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
2.7 (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
2.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
2.7 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
2.7 (4.18)	Resistance to corrosion		N/A
2.7 (4.18.1)	- rust-resistance		N/A
2.7 (4.18.2)	- season cracking in copper		N/A
2.7 (4.18.3)	- corrosion of aluminium		N/A
2.7 (4.19)	Ignitors compatible with ballast		N/A
2.7 (4.20)	Rough service vibration		N/A
2.7 (4.21)	Protective shield		N/A
2.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
2.7 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
2.7 (4.21.3)	No direct path		N/A
2.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment..... :	See Test Table 2.16 (13.3.2)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.7 (4.22)	Attachments to lamps not cause overheating or damage		N/A
2.7 (4.23)	Semi-luminaires comply Class II		N/A
2.7 (4.24)	Photobiological hazards		P
2.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
2.7 (4.24.2)	Retinal blue light hazard		P
	Class of risk group assessed according to IEC/TR 62778	RG0	—
	Luminaires with E_{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2 ...:		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
2.7 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
2.7 (4.26)	Short-circuit protection		N/A
2.7 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
2.7 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
2.7 (4.27)	Terminal blocks with integrated screwless earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
2.7 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C) :		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
2.7 (4.29)	Luminaires with non-replaceable light source		P
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		P
2.7 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		N/A
	Minimum two fixing means		N/A
2.7 (4.31)	Insulation between circuits		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
2.7 (4.31.1)	SELV circuits		P
	Used SELV source		P
	Voltage ≤ ELV		P
	Insulating of SELV circuits from LV supply		P
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		P
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.7 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
2.7 (4.31.3)	Other circuits		N/A
	Other circuits insulated from accessible parts according Table X.1		N/A
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
2.7 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A

2.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
2.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II ☒ Category III ☐	—
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
2.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 2.8 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 2.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 2.8 (11.2) II	N/A
2.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 2.8 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 2.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 2.8 (11.2) II	N/A

2.9 (7)	PROVISION FOR EARTHING		N/A
2.9 (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
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		N/A
2.9 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.		N/A
2.9 (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
2.9 (7.2.5)	Earth terminal integral part of connector socket		N/A
2.9 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
2.9 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
2.9 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
2.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
2.9 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

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

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

2.11 (5)	EXTERNAL AND INTERNAL WIRING		P
2.11 (5.2)	Supply connection and external wiring		P
2.11 (5.2.1)	Means of connection :	Supply cords	P
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment		N/A
2.11 (5.2.2)	Type of cable :	H03VVH2-F	P
	Nominal cross-sectional area (mm ²) :	Min. 2×0,75mm ²	P
	Cables equal to IEC 60227 or IEC 60245		P
2.11 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
2.11 (5.2.5)	Type Z not connected to screws		N/A
2.11 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
2.11 (5.2.7)	Cable entries through rigid material have rounded edges		P
2.11 (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
2.11 (5.2.9)	Locking of screwed bushings		P
2.11 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- no tying of cables into knots etc.		P
	- insulating material or lining		N/A
2.11 (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
2.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		P
2.11 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N) :	60N	P
	- torque test: torque (Nm) :	1)BLIT-60120-60D-65(LF-GIF060YA(H)1550y): 0,25Nm(for input cord); BLIT-30120-40D-65(LF-GIF040YA(H)-0950y, AGT-I789-0950): 0,25Nm(for input cord); 2)0,15Nm (for LED light part).	P
	- displacement ≤ 2 mm	1)BLIT-60120-60D-65:0,8mm; BLIT-30120-40D-65:0,8mm / 0,9mm. 2)0,5mm.	P
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
2.11 (5.2.11)	External wiring passing into luminaire		P
2.11 (5.2.12)	Looping-in terminals		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P
2.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
2.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector according relevant IEC standard		N/A
2.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
2.11 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
2.11 (5.3)	Internal wiring		P
2.11 (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
2.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		N/A
	Cross-sectional area (mm ²)..... :	Min. 0,5mm ²	N/A
	Insulation thickness (mm) :		N/A
	Extra insulation added where necessary		N/A
2.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Cross-sectional area (mm ²)..... :		P
2.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A
2.11 (5.3.1.4)	Conductors without insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.11 (5.3.1.5)	SELV current-carrying parts		P
2.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
2.11 (5.3.2)	Sharp edges etc.		N/A
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
2.11 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
2.11 (5.3.4)	Joints and junctions effectively insulated		N/A
2.11 (5.3.5)	Strain on internal wiring		N/A
2.11 (5.3.6)	Wire carriers		N/A
2.11 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P
2.11 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A

2.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK	BLIT-60120-60D-65(LF-GIF060YA(H)1550y); BLIT-30120-40D-65(LF-GIF040YA(H)-0950y, AGT-I789-0950); BLIT-6060-25D-65(LF-GIF030YA(H)-0650y)	P
2.12 (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, settable and adjustable luminaires		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		P
	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		N/A
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
2.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
2.12 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
2.12 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed		N/A
2.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load (V)..... :		N/A
	- no-load voltage (V)..... :		N/A
	- touch current if applicable (mA) :		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage (V) :		N/A
	Class III luminaire only for connection to SELV		N/A
	Class III luminaire not provided with means for protective earthing		N/A
2.12 (8.2.4)	Portable luminaire has protection independent of supporting surface		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.12 (8.2.5)	Compliance with the standard test finger or relevant probe		P
2.12 (8.2.6)	Covers reliably secured		N/A
2.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A
2.12 (-)	Parts within the ceiling space provide same degree of protection against electric shock as parts below the ceiling space		N/A

2.13 (12)	ENDURANCE TEST AND THERMAL TEST	BLIT-60120-60D-65(LF-IF060YA(H)1550y); BLIT-30120-40D-65(LF-GIF040YA(H)-0950y, AGT-I789-0950); BLIT-6060-25D-65(LF-GIF030YA(H)-0650y)	P
2.13.1 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 2.14		—
2.13 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	—
2.13 (12.3)	Endurance test		
	a) mounting-position	According to instruction sheet	—
	b) test temperature (°C)	50°C	—
	c) total duration (h)	240h	—
	d) supply voltage (V)	264V	—
	d) if not equipped with controlgear, constant voltage/current (V) or (A)		—
	e) luminaire ceases to operate		—
2.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- marking legible		P
	- no cracks, deformation etc.		P
2.13 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
2.13 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
2.13 (12.6)	Thermal test (failed lamp control gear condition):		N/A
2.13 (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
2.13 (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
2.13 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
2.13 (12.7.1)	Luminaire without temperature sensing control		N/A
2.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W		—
	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 W:		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test	See Test Table 2.16 (13.2.1)	N/A
2.13 (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	See Test Table 2.16 (13.2.1)	N/A
2.13 (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
2.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link	Yes ☐ No ☐	—
	- manual reset cut-out	Yes ☐ No ☐	—
	- auto reset cut-out	Yes ☐ No ☐	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/exposed part (°C):		—
	Ball-pressure test:	See Test Table 2.16 (13.2.1)	N/A
2.13.1 (-)	Wiring, for connection to the supply, not reach unsafe temperature		N/A
	- measured temperature of the cable (°C)		N/A

2.14 (9)	RESISTANCE TO DUST AND MOISTURE		P
2.14 (-)	If IP > IP 20 the order of tests as specified in clause 2.13		N/A
2.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP20	—
	- mounting position during test		—
	- fixing screws tightened; torque (Nm)		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- tests according to clauses..... :	Cl.9.2.0	—
	- electric strength test afterwards		N/A
	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 on insulation where it could become a hazard		N/A
	c.1) For luminaires without drain holes – no water entry		N/A
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight or pressure watertight luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A
2.14 (9.3)	Humidity test 48 h	25°C, 93%R.H. for 48h	P

2.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
2.15 (10.2.1)	Insulation resistance test	BLIT-60120-60D-65(LF-GIF060YA(H)1550y); BLIT-30120-40D-65(LF-GIF040YA(H)-0950y, AGT-I789-0950); BLIT-6060-25D-65(LF-GIF030YA(H)-0650y)	P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ)		—
	SELV		P
	- between current-carrying parts of different polarity :	>100 MΩ	P
	- between current-carrying parts and mounting surface..... :	>100 MΩ	P
	- between current-carrying parts and metal parts of the luminaire	>100 MΩ	P

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	>100 MΩ	P
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity	LED driver approved	N/A
	- between live parts and mounting surface	>100 MΩ	P
	- between live parts and metal parts	>100 MΩ	P
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	>100 MΩ	P
	- Insulation bushings as described in Section 5		N/A
2.15 (10.2.2)	Electric strength test	BLIT-60120-60D-65(LF-GIF060YA(H)1550y); BLIT-30120-40D-65(LF-GIF040YA(H)-0950y, AGT-I789-0950); BLIT-6060-25D-65(LF-GIF030YA(H)-0650y)	P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)		N/A
	SELV		P
	- between current-carrying parts of different polarity :		P
	- between current-carrying parts and mounting surface..... :	500V	P
	- between current-carrying parts and metal parts of the luminaire	500V	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	500V	P
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity	LED driver approved	N/A
	- between live parts and mounting surface	2960V	P
	- between live parts and metal parts	2960V	P

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts of different polarity through action of a switch..... :	2960V	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	1480V	P
	- Insulation bushings as described in Section 5 :		N/A
2.15 (10.3)	Touch current or protective conductor current (mA):	BLIT-60120-60D-65(LF-GIF060YA(H)1550y):0,01mA; BLIT-30120-40D-65(LF-GIF040YA(H)-0950y):0,008mA; BLIT-30120-40D-65(AGT-I789-0950): 0,008mA. BLIT-6060-25D-65(LF-GIF030YA(H)-0650y): 0,009mA	P

2.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
2.16 (13.2.1)	Ball-pressure test	See Test Table 2.16 (13.2.1)	P
2.16 (13.3.1)	Needle-flame test (10 s)	See Test Table 2.16 (13.3.1)	P
2.16 (13.3.2)	Glow-wire test (650°C)	See Test Table 2.16 (13.3.2)	P
2.16 (13.4)	Proof tracking test (IEC 60112)	See Test Table 2.16 (13.4)	N/A

IEC 60598-2-2							
Clause	Requirement + Test				Result - Remark		Verdict
2.8 (11.2)	TABLE I: Creepage distances and clearances						P
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						P
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*						P
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	>1.2	0,2	11.1	>1.2	1,2	11.1
Working voltage (V)					40VDC		—
PTI					< 600 ☐ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					-		—
Supplementary information: Between +- for LED module							
Distance 3:	R	>6,0	3,0	11.1	>6,0	5,0	11.1
Working voltage (V)					240V~ 50Hz		—
PTI					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					-		—
Supplementary information: Input to enclosure of luminaire							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

2.8 (11.2)	TABLE II: Creepage distances and clearances						N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:							
Working voltage (V)							—
Frequency if applicable (kHz)							—
PTI					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)							—
Supplementary information:							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced.

IEC 60598-2-2				
Clause	Requirement + Test		Result - Remark	Verdict
2.16 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm) :		2		—
Object/ Part No./ Material		Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Diffuser		See annex 1	75°C	0,6mm
PCB of LED module		See annex 1	125°C	0,5mm
Supplementary information:				

2.16 (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)				
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
PCB of LED module	See annex 1	10	No	0	P
Connector 1	See annex 1	10	No	0	P
Connector 2 (alternative)	See annex 1	10	No	0	P
Supplementary information:					

2.16 (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)				P
Glow wire temperature :			650°C		—
Object/ Part No./ Material	Manufacturer/ trademark		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Diffuser	See annex 1		No	0	P
Supplementary information:					

2.16 (13.4)	TABLE: Proof tracking test (IEC 60112)				
Test voltage PTI		175 V	—		
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information:					

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1		TABLE: Critical components information					P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Power cord (for IEC report)	B	Guangdong Yincheng Electric Appliance Co. Ltd.	H03VVH2-F	2×0,75mm ²	DIN EN 50525-2-11	VDE 40018525	
LED driver 1	B	Shenzhen Angui Technology Co., Ltd.	AGT-I789-cccc	220~240, 50/60Hz	IEC/EN 61347-1, IEC/EN 61347-2-13	NL-50299 By DEKRA	
LED driver 2	B	Shenzhen Ledfriend optoelectronics Co., Ltd.	LF-GIF0640YA(H)-xxxxxy/LF-GIF030YA(H)-xxxxxy	220~240Vac, 50/60Hz	IEC/EN 61347-1, IEC /EN 61347-2-13	SG PSB-LE-00558 By TUV SUD	
LED driver 3	B	Shenzhen Ledfriend optoelectronics Co., Ltd.	LF-GIF060YA(H)-xxxxxy/ LF-GIF050YA(H)-xxxxxy	220~240Vac, 50/60Hz	IEC/EN 61347-1, IEC/EN 61347-2-13	SG PSB-LE-00888 By TUV SUD	
Output wire of LED driver	B	GUANG DONG YIN CHENG ELECTRIC APPLIANCE CO.,LTD	H03VV-F	2×0,5mm ²	DIN EN 50525-2-11	VDE 40018525	
Input wire for LED lamp	B	GUANG DONG YIN CHENG ELECTRIC APPLIANCE CO.,LTD	H03VV-F	2×0,5mm ²	DIN EN 50525-2-11	VDE 40018525	
Connector 1	C	Jiangmen Kelton Wire Co., Ltd.	V2	250V, 2,5A	IEC 60598-1	Tested With appliance	
Connector 2 (Alternative)	C	Jiangmen Kelton Wire Co., Ltd.	V3	250V,2,5A	IEC 60598-1	Tested With appliance	
LED chip	C	Shenzhen Opto-Electronic Co.,Ltd.	ETXC-3030XB-MAOB	Vf:9V,If:150mA, 0,5 W, CCT:2700-6500K	IEC 60598-1	Tested With appliance	
PCB of LED chip	C	HEFENGXIN ELECTRONICS CO LTD	HFX-01	90°C, V-0	UL 94, UL 746A, IEC 60598-1	UL E489916	
Diffuser	C	FORMOSA CHEMICALS & FIBRE CORP NYLON DIV	HP825(H)	PS,HB,RTI50°C	UL 94, IEC 60598-1	UL E162823	

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

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

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2-1	TABLE: Temperature measurements, thermal tests of Section 12		P
	Type reference	BLIT-60120-60D-65	—
	Lamp used.....	LED lamp	—
	Lamp control gear used.....	LF-GIF060YA(H)1550y	—
	Mounting position of luminaire	According to instruction sheet	—
	Supply wattage (W)	60,7W	—
	Supply current (A)	0,251A	—
	Calculated power factor.....	-	—
	Table: measured temperatures corrected for $t_a = 40\text{ }^{\circ}\text{C}$:		P
	- abnormal operating mode	LED driver output short circuit, Unit shutdown.	—
	- test 1: rated voltage.....	220-240V~	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	U=254,4V~	—
	- 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	U=264V Unit shutdown	—
	Through wiring or looping-in wiring loaded by a current of A during the test		—

Temperature measurements, ($^{\circ}\text{C}$)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input cord	39,5 $^{\circ}\text{C}$	--	43,6	--	90	--	--
Tc of LED Driver		58,4	--	--	90	--	--
Output wire of LED driver		--	43,8	--	90	--	--
Connector		--	53,5	--	Ref.	--	--
Internal wire for LED lamp		--	41,1	--	90	--	--
PCB of LED lamp		--	43,0	--	130	--	--
Diffuser of LED lamp		--	41,0	--	Ref.	--	--
Mounting surface		--	40,6	--	90	--	--
Object light(0,1m)			40,9		90		

Supplementary information:

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2-2	TABLE: Temperature measurements, thermal tests of Section 12		P
	Type reference	BLIT-30120-40D-65	—
	Lamp used.....	LED lamp	—
	Lamp control gear used.....	LF-GIF040YA(H)0950y	—
	Mounting position of luminaire	According to instruction sheet	—
	Supply wattage (W)	40,8W	—
	Supply current (A)	0,169A	—
	Calculated power factor.....	-	—
	Table: measured temperatures corrected for $t_a = 40\text{ }^{\circ}\text{C}$:		P
	- abnormal operating mode	LED driver output short circuit, Unit shutdown.	—
	- test 1: rated voltage.....	220-240V~	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	U=254,4V~	—
	- 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	U=264V Unit shutdown	—
	Through wiring or looping-in wiring loaded by a current of A during the test		—

Temperature measurements, ($^{\circ}\text{C}$)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input cord	40,3 $^{\circ}\text{C}$	--	42,9	--	90	--	--
Tc of LED Driver		55,6	--	--	90	--	--
Output wire of LED driver		--	44,1	--	90	--	--
Connector		--	49,3	--	Ref.	--	--
Internal wire for LED lamp		--	42,1	--	90	--	--
PCB of LED lamp		--	46,9	--	130	--	--
Diffuser of LED lamp		--	42,2	--	Ref.	--	--
Mounting surface		--	40,9	--	90	--	--
Object light(0,1m)			41,2		90		

Supplementary information:

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2-3	TABLE: Temperature measurements, thermal tests of Section 12		P
	Type reference	BLIT-30120-40D-65	—
	Lamp used.....	LED lamp	—
	Lamp control gear used.....	AGT-I789-0950	—
	Mounting position of luminaire	According to instruction sheet	—
	Supply wattage (W)	43,1W	—
	Supply current (A)	0,180A	—
	Calculated power factor.....	-	—
	Table: measured temperatures corrected for $t_a = 40\text{ }^{\circ}\text{C}$:		P
	- abnormal operating mode	LED driver output short circuit, Unit shutdown.	—
	- test 1: rated voltage.....	220-240V~	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	U=254,4V~	—
	- 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	U=264V Unit shutdown	—
	Through wiring or looping-in wiring loaded by a current of A during the test		—

Temperature measurements, ($^{\circ}\text{C}$)							
Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input cord	40,4 $^{\circ}\text{C}$	--	42,5	--	90	--	--
Tc of LED Driver		71,5	--	--	85	--	--
Output wire of LED driver		--	44,1	--	90	--	--
Connector		--	50,1	--	Ref.	--	--
Internal wire for LED lamp		--	42,1	--	90	--	--
PCB of LED lamp		--	47,1	--	130	--	--
Diffuser of LED lamp		--	42,3	--	Ref.	--	--
Mounting surface		--	40,9	--	90	--	--
Object light(0,1m)			41,1		90		

Supplementary information:

IEC 60598-2-2							
Clause	Requirement + Test				Result - Remark		Verdict
ANNEX 2-4	TABLE: Temperature measurements, thermal tests of Section 12						P
	Type reference :				BLIT-6060-45D-65		—
	Lamp used..... :				LED lamp		—
	Lamp control gear used..... :				LF-GIF050YA(H)1200y		—
	Mounting position of luminaire :				According to instruction sheet		—
	Supply wattage (W) :				45,2W		—
	Supply current (A) :				0,191A		—
	Calculated power factor..... :				-		—
	Table: measured temperatures corrected for ta = 40 °C:						P
	- abnormal operating mode :				LED driver output short circuit, Unit shutdown.		—
	- test 1: rated voltage..... :				220-240V~		—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage :				U=254,4V~		—
	- 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 :				U=264V Unit shutdown		—
	Through wiring or looping-in wiring loaded by a current of A during the test :						—
Temperature measurements, (°C)							
Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input cord	40,8°C	--	42,8	--	90	--	--
Tc of LED Driver		56,2	--	--	90	--	--
Output wire of LED driver		--	43,7	--	90	--	--
Connector		--	50,1	--	Ref.	--	--
Internal wire for LED lamp		--	41,3	--	90	--	--
PCB of LED lamp		--	47,7	--	130	--	--
Diffuser of LED lamp		--	42,4	--	Ref.	--	--
Mounting surface		--	40,7	--	90	--	--
Object light(0,1m)			40,9		90		
Supplementary information:							

IEC 60598-2-2							
Clause	Requirement + Test				Result - Remark		Verdict
ANNEX 2-5	TABLE: Temperature measurements, thermal tests of Section 12						P
	Type reference :				BLIT-6060-25D-65		—
	Lamp used..... :				LED lamp		—
	Lamp control gear used..... :				LF-GIF030YA(H)0650y		—
	Mounting position of luminaire :				According to instruction sheet		—
	Supply wattage (W) :				25,3W		—
	Supply current (A) :				0,114A		—
	Calculated power factor..... :				-		—
	Table: measured temperatures corrected for ta = 40 °C:						P
	- abnormal operating mode :				LED driver output short circuit, Unit shutdown.		—
	- test 1: rated voltage..... :				220-240V~		—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage :				U=254,4V~		—
	- 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 :				U=264V Unit shutdown		—
	Through wiring or looping-in wiring loaded by a current of A during the test :						—
Temperature measurements, (°C)							
Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input cord	40,9°C	--	44,4	--	90	--	--
Tc of LED Driver		57,7	--	--	90	--	--
Output wire of LED driver		--	44,9	--	90	--	--
Connector		--	45,6	--	Ref.	--	--
Internal wire for LED lamp		--	41,2	--	90	--	--
PCB of LED lamp		--	47,3	--	130	--	--
Diffuser of LED lamp		--	42,7	--	Ref.	--	--
Mounting surface		--	41,2	--	90	--	--
Object light(0,1m)				41,5		90	
Supplementary information:							

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 3	Screw terminals (part of the luminaire)		N/A
(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)..... :		—
(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

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Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 4	Screwless terminals (part of the luminaire)		N/A
(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)	Terminals and connections for internal wiring		N/A
(15.5.1)	Mechanical tests		N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples) :		N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples) :		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	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
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A
15.6.2	Mechanical tests		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)		N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)		N/A
(15.6.3)	Electrical tests		N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		N/A

(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests										N/A
	Voltage drop (mV) after 1 h										—
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)											
Supplementary information:											

Attachment 1:

ATTACHMENT TO TEST REPORT IEC 60598-2-2
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
Luminaires
Part 2: Particular requirements
Section 2: Recessed luminaires

Differences according to	EN 60598-2-2:2012 used in conjunction with EN 60598-1:2015 + A1:2018		
Annex Form No.	EU_GD_IEC60598_2_2D		
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	CENELEC COMMON MODIFICATIONS (EN)		P
2.6 (3)	MARKING		N/A
2.6 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package		N/A
2.7 (4)	CONSTRUCTION		N/A
2.7 (4.11.6)	Electro-mechanical contact systems		N/A
2.11 (5)	EXTERNAL AND INTERNAL WIRING		N/A
2.11 (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
2.11 (5.2.2)	Cables equal to EN 50525		N/A
	Replace table 5.1 – Supply cord		N/A
2.13 (12)	ENDURANCE TESTS AND THERMAL TESTS		P
2.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings		N/A
	(Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique; Section VIII; Article GH 48, Eclairage) Glow-wire test for outer parts of luminaires:		N/A
	- 850°C for luminaires in stairways and horizontal travel paths		N/A
	- 650°C for indoor luminaires		N/A
	GB: Requirements according to United Kingdom Building Regulation		N/A

Attachment 2: Photobiological safety of lamps and lamp systems were evaluated according to IEC 62471, IEC TR 62778:2014 and EN 62471.

IEC 62471: BLIT-60120-60D-65 Exempt Group (This classification applied for all models)

Table 6.1		Emission limits for risk groups of continuous wave lamps							P
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	1,0e-04	0,003	-	0,03	-
Near UV	-	E_{UVA}	$W \cdot m^{-2}$	10	4,2e-04	33	-	100	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	5,57e+00	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	1,0*	-	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	28000/ α	7,1e+01	28000/ α	-	71000/ α	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	6000/ α	1,6e-02	6000/ α	-	6000/ α	-
IR radiation, eye	-	E_{IR}	$W \cdot m^{-2}$	100	2,8e-03	570	-	3200	-

IEC/TR 62778: BLIT-60120-60D-65 Low Risk Group (This classification applied for all models)

Optical hazard	Test result	Used hazard exposure limit		Ref.
LB	8 W/m ² •sr	100 W/m ² •sr	400-500nm	P

Table 6.1	Emission limits for risk groups of continuous wave lamps (based on EU Directive 2006/25/EC)								P
Risk	Action spectrum	Symbol	Units	Emission Measurement					
				Exempt		Low risk		Mod risk	
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	$S_{UV}(\lambda)$	E_s	$W \cdot m^{-2}$	0,001	1,0e-04	-	-	-	-
Near UV		E_{UVA}	$W \cdot m^{-2}$	0,33	4,2e-04	-	-	-	-
Blue light	$B(\lambda)$	L_B	$W \cdot m^{-2} \cdot sr^{-1}$	100	5,57e+00	10000	-	4000000	-
Blue light, small source	$B(\lambda)$	E_B	$W \cdot m^{-2}$	0,01*	-	1,0	-	400	-
Retinal thermal	$R(\lambda)$	L_R	$W \cdot m^{-2} \cdot sr^{-1}$	28000/ α	7,1e+01	28000/ α	-	71000/ α	-
Retinal thermal, weak visual stimulus**	$R(\lambda)$	L_{IR}	$W \cdot m^{-2} \cdot sr^{-1}$	545000 0,0017 ≤ α ≤ 0,011	-				
				6000/ α 0,011 ≤ α ≤ 0,1	-				
IR radiation, eye		E_{IR}	$W \cdot m^{-2}$	100	-	570	-	3200	-

* Small source defined as one with $\alpha < 0,011$ radian. Averaging field of view at 10000 s is 0,1 radian.

** Involves evaluation of non-GLS source

NOTE The action functions: see Table 4.1 and Table 4.2

The applicable aperture diameters: see 4.2.1

The limitations for the angular subtenses: see 4.2.2

The related measurement condition 5.2.3 and the range of acceptance angles: see Table 5.5.

Attachment 3:	Tests according to IEC 62031:2008+A1+A2, EN 62031:2008+A1+A2		
13.2	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		P
	During the tests, tissue paper, spread below module, does not ignite		P
14	Conformity testing during manufacture Tested as a part of luminaire		P
17	Screws, current-carrying parts and connections		P
	The requirements of IEC 61347-1, Clause 17, apply.		P
22	PHOTOBIOLOGICAL SAFETY		P
22.1	UV radiation		N/A
	Luminous radiation not exceed 2mW/klm	LED	N/A
22.2	Blue light hazard		P
	Assessed according to IEC TR 62778	RG0	P
22.3	Infrared radiation		N/A
	Requirements for infrared radiation when required	LED	N/A

Product1: LED LIGHTING

Type Designation: BLIT-60120-60D-YY, BLIT-60120-50D-YY, BLIT-60120-45D-YY, BLIT-60120-40D-YY;
BLIT-30120-45D-YY, BLIT-30120-40D-YY, BLIT-30120-35D-YY, BLIT-30120-30D-YY, BLIT-30120-25D-YY, BLIT-30120-22D-YY, BLIT-30120-20D-YY;
BLIT-6262-45D-YY, BLIT-6262-40D-YY, BLIT-6262-35D-YY, BLIT-6262-30D-YY, BLIT-6262-25D-YY, BLIT-6262-22D-YY, BLIT-6262-20D-YY;
BLIT-6060-45D-YY, BLIT-6060-40D-YY, BLIT-6060-35D-YY, BLIT-6060-30D-YY, BLIT-6060-25D-YY, BLIT-6060-22D-YY, BLIT-6060-20D-YY.

Note: EUT: Equipment Under Test;
PT: Partial Test.

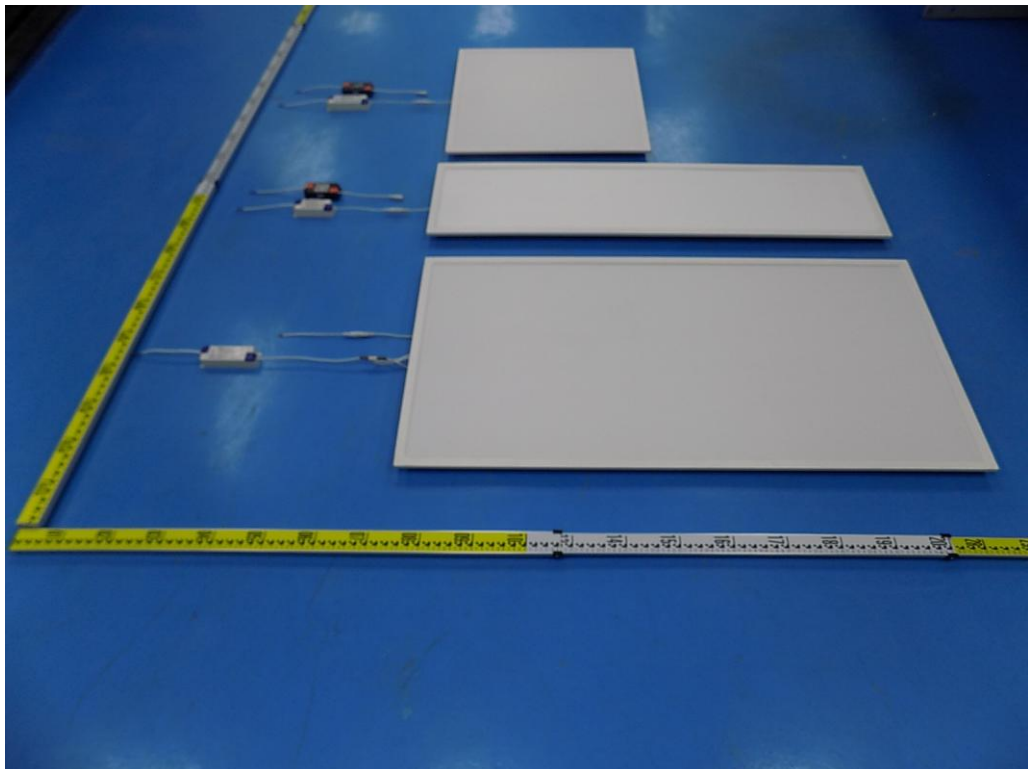


Figure 1: The size view of LED LIGHTING (BLIT-60120-60D-YY\BLIT-30120-40D-YY\BLIT-6262-45D-YY)

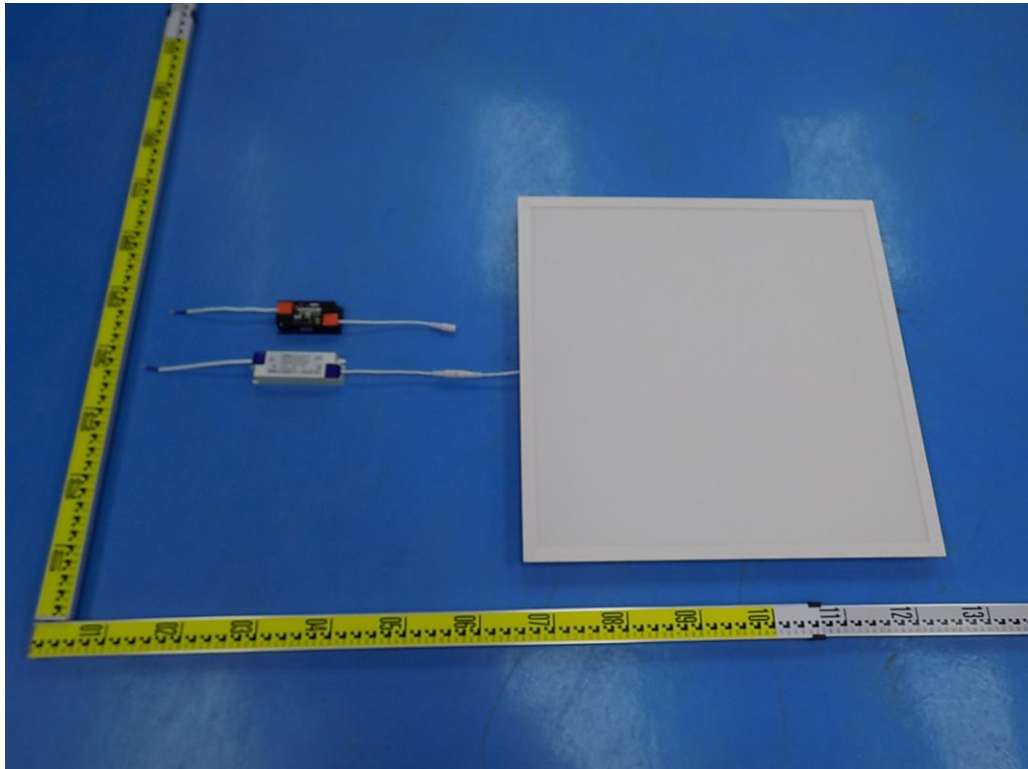


Figure 2: The size view of LED LIGHTING (BLIT-6060-25D-YY)

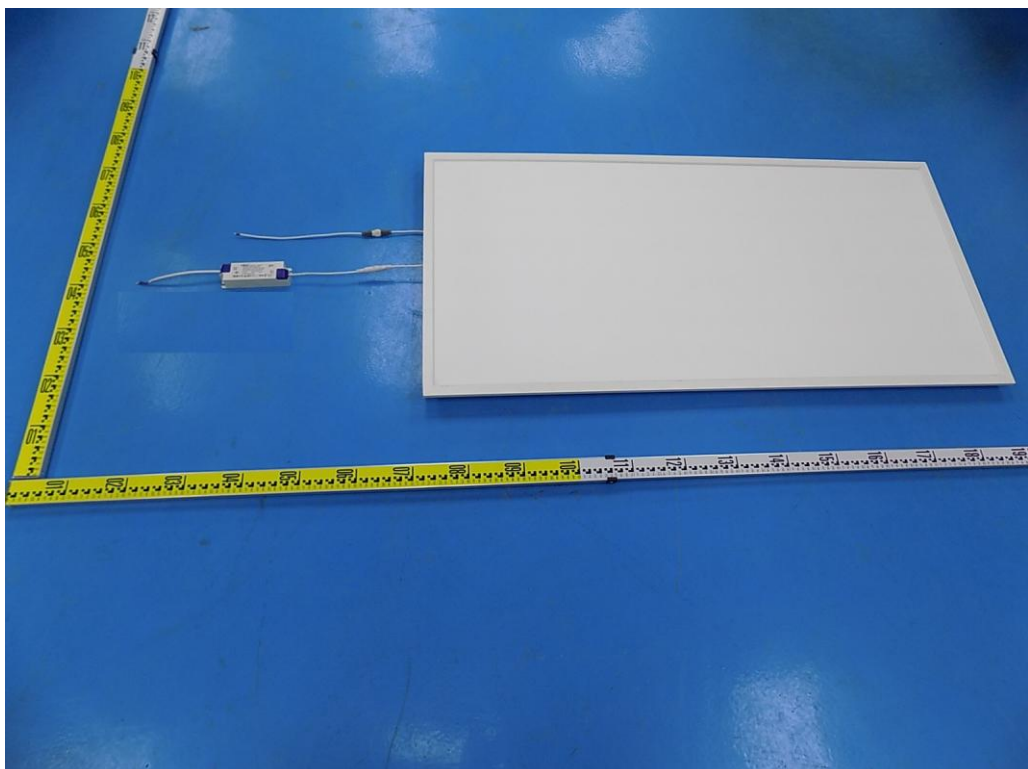


Figure 3: the front view of BLIT-60120-60D-65 (EUT)

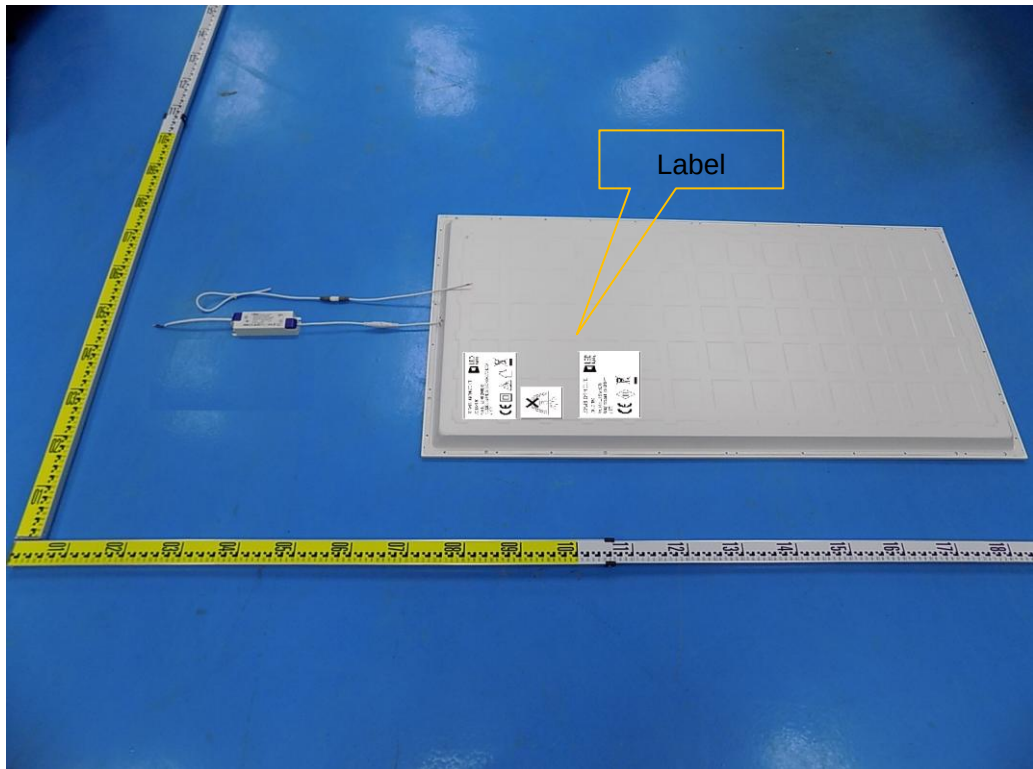


Figure 4: the rear view of BLIT-60120-60D-65 (EUT)

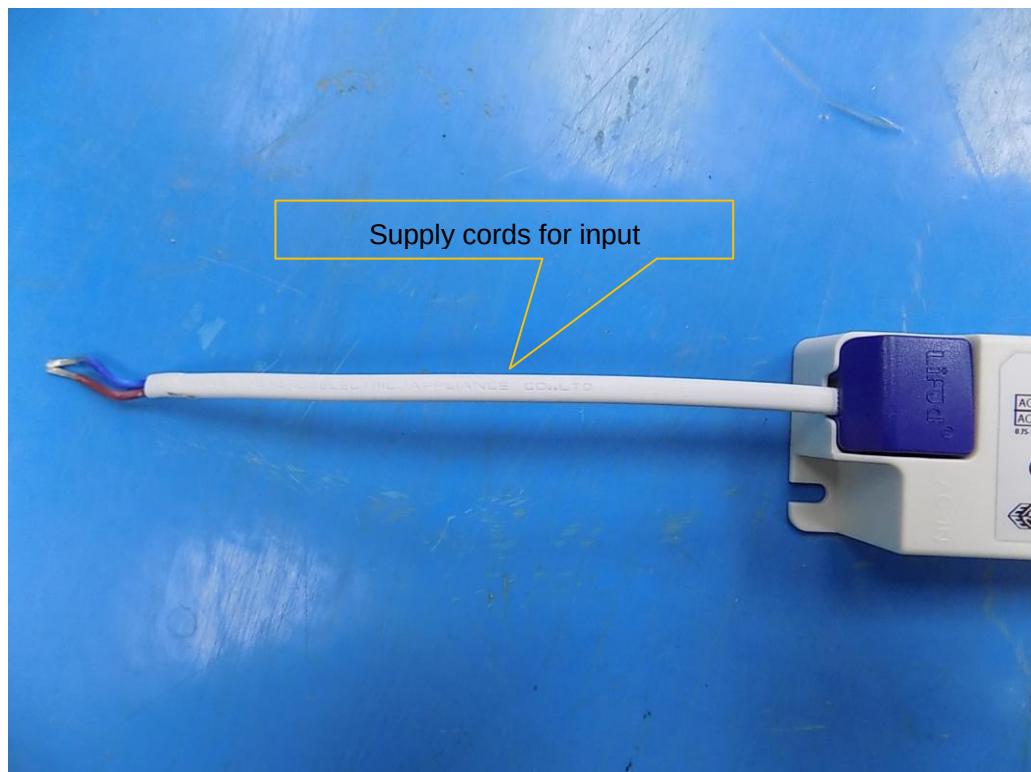


Figure 5: the part view of BLIT-60120-60D-65 (EUT)

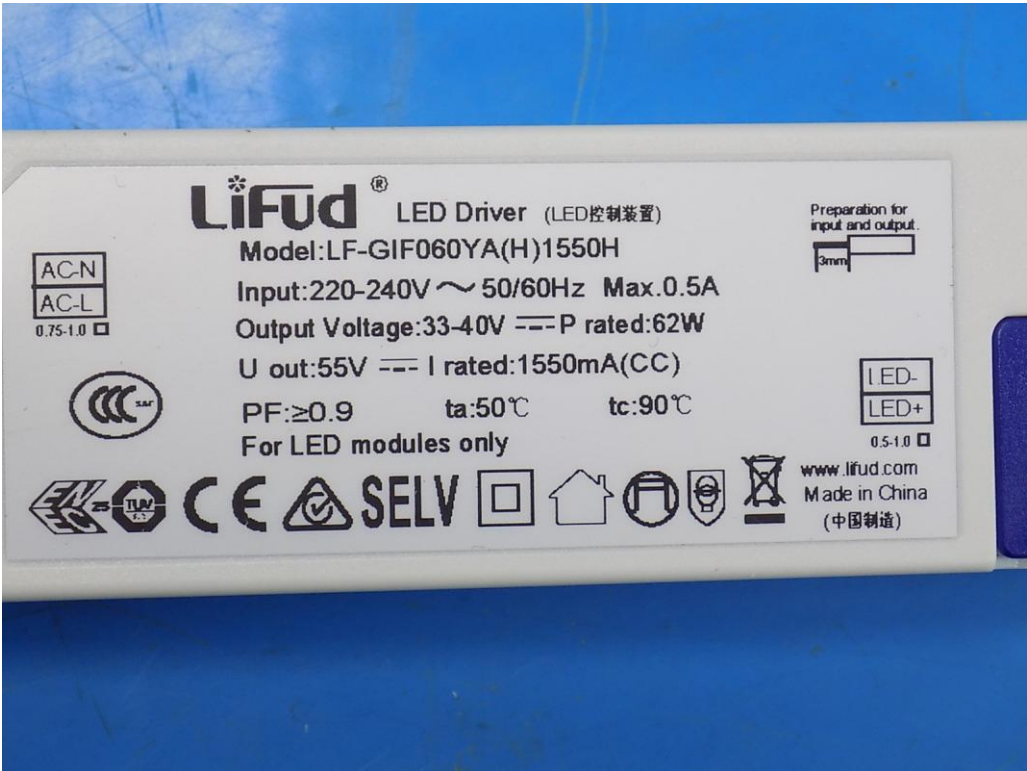


Figure 6: the front view of LED driver match BLIT-60120-60D-65 (EUT)

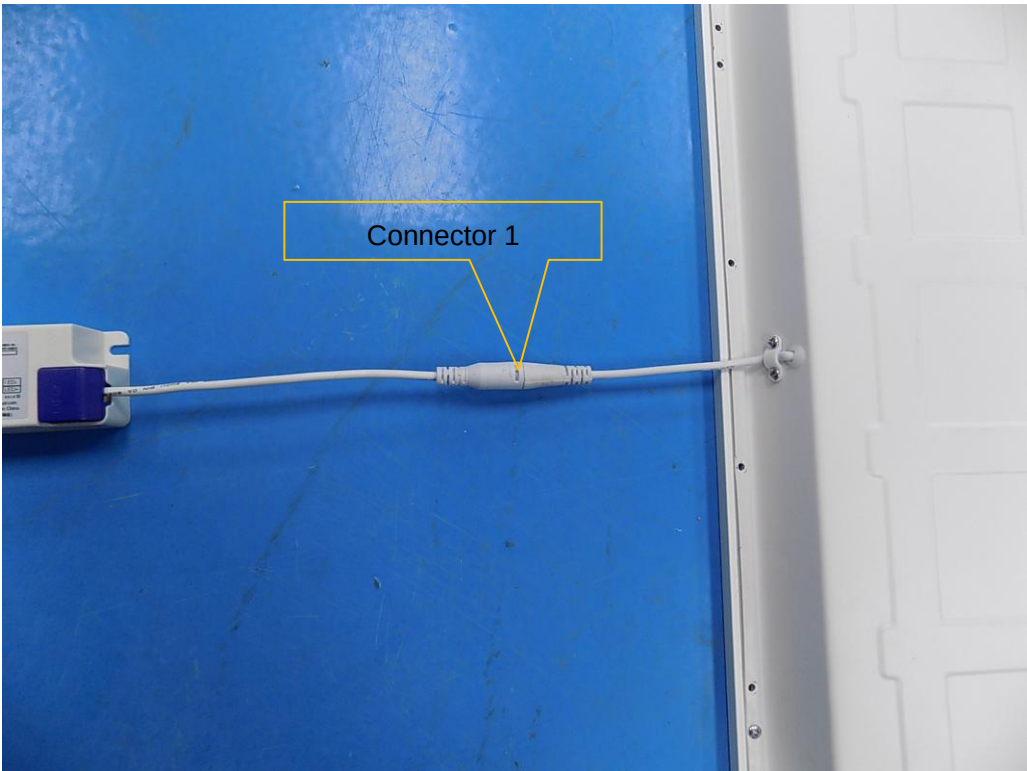


Figure 7: the part view of BLIT-60120-60D-65 (EUT)

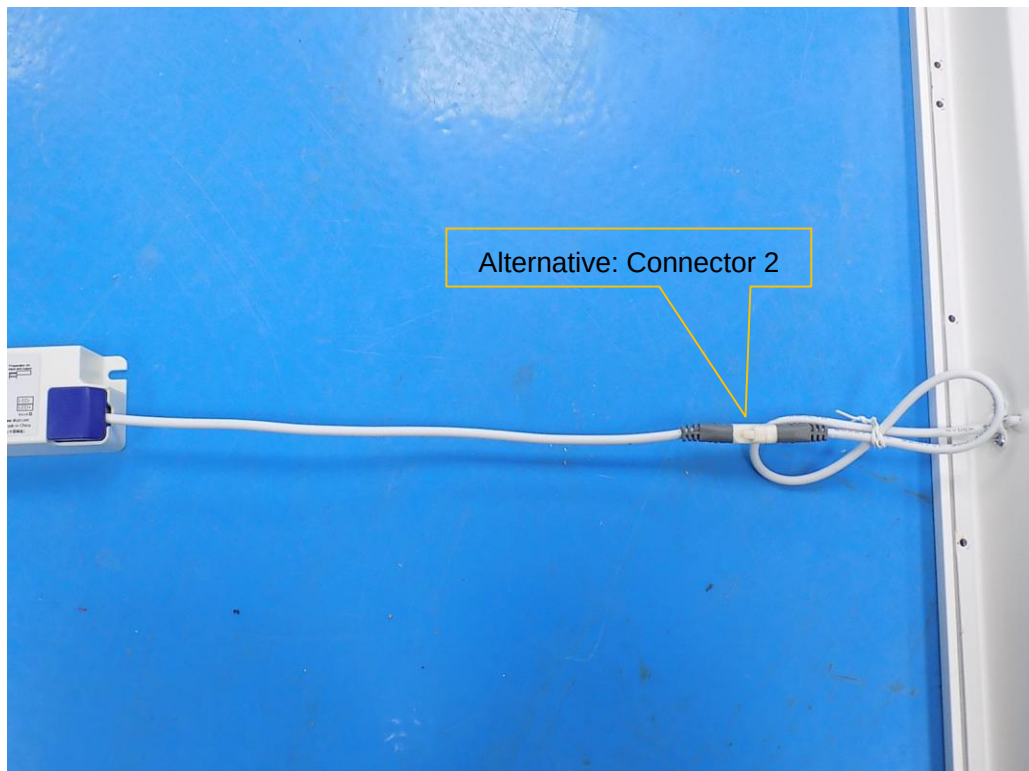


Figure 8: the part view of BLIT-60120-60D-65 (EUT)

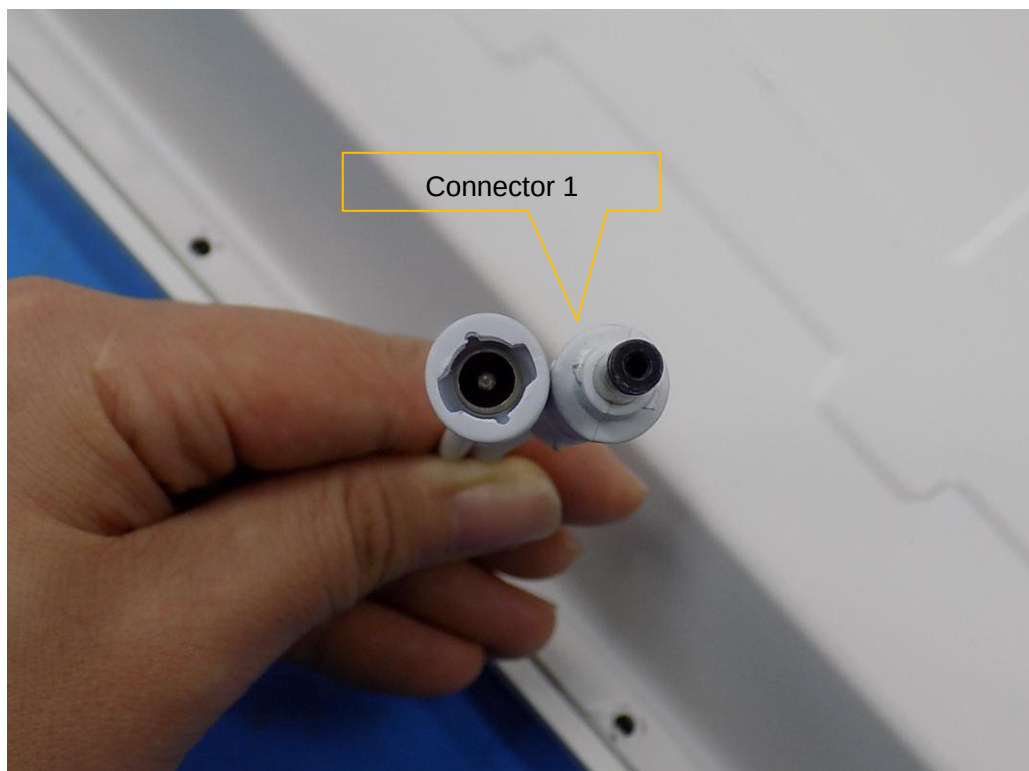


Figure 9: the part view of BLIT-60120-60D-65 (EUT)

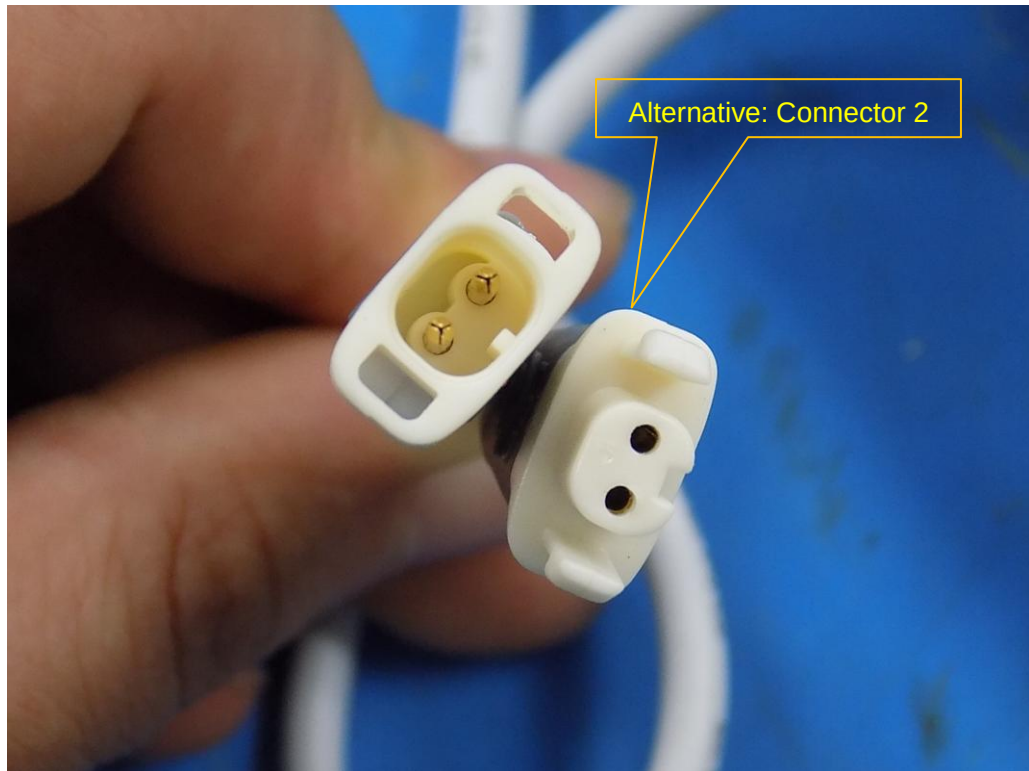


Figure 10: the part view of BLIT-60120-60D-65 (EUT)

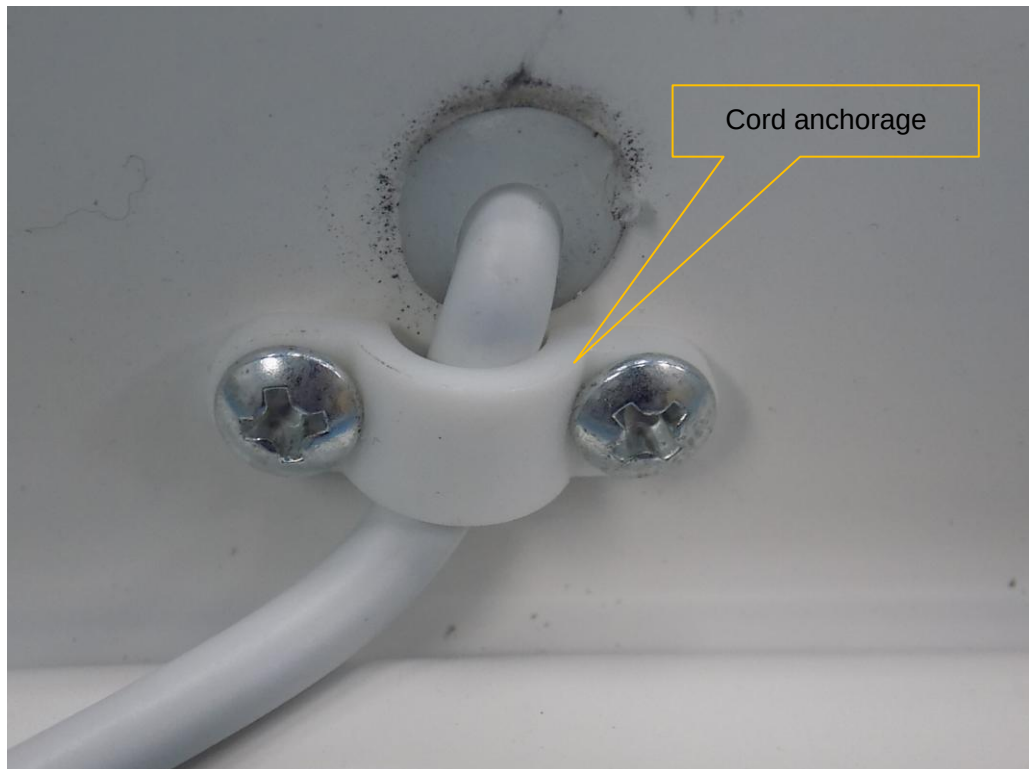


Figure 11: the part view of BLIT-60120-60D-65 (EUT)



Figure 12: the internal view of BLIT-60120-60D-65 (EUT)

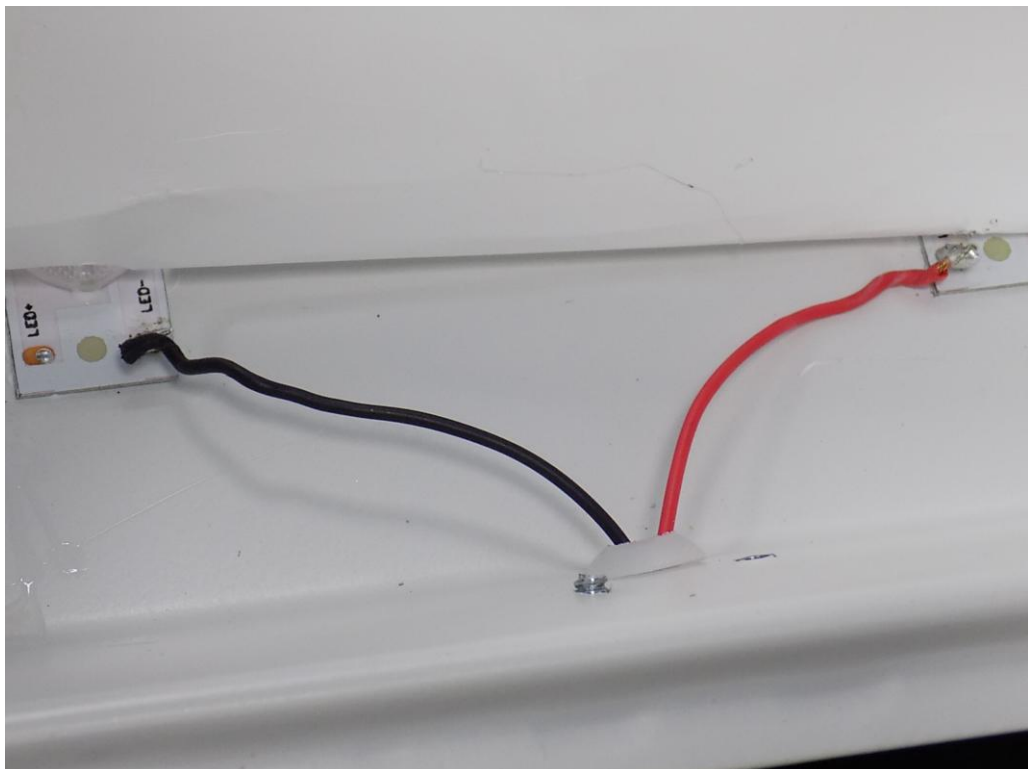


Figure 13: the internal view of BLIT-60120-60D-65 (EUT)



Figure 14: the LED chip view of BLIT-60120-60D-65 (EUT)



Figure 15: the front view of LF-GIF060YA(H)-xxxxxy / LF-GIF050YA(H)-xxxxxy



Figure 16: the front view of LF-GIF040YA(H)-xxxxxy / LF-GIF030YA(H)-xxxxxy



Figure 17: the front view of AGT-I789-cccc

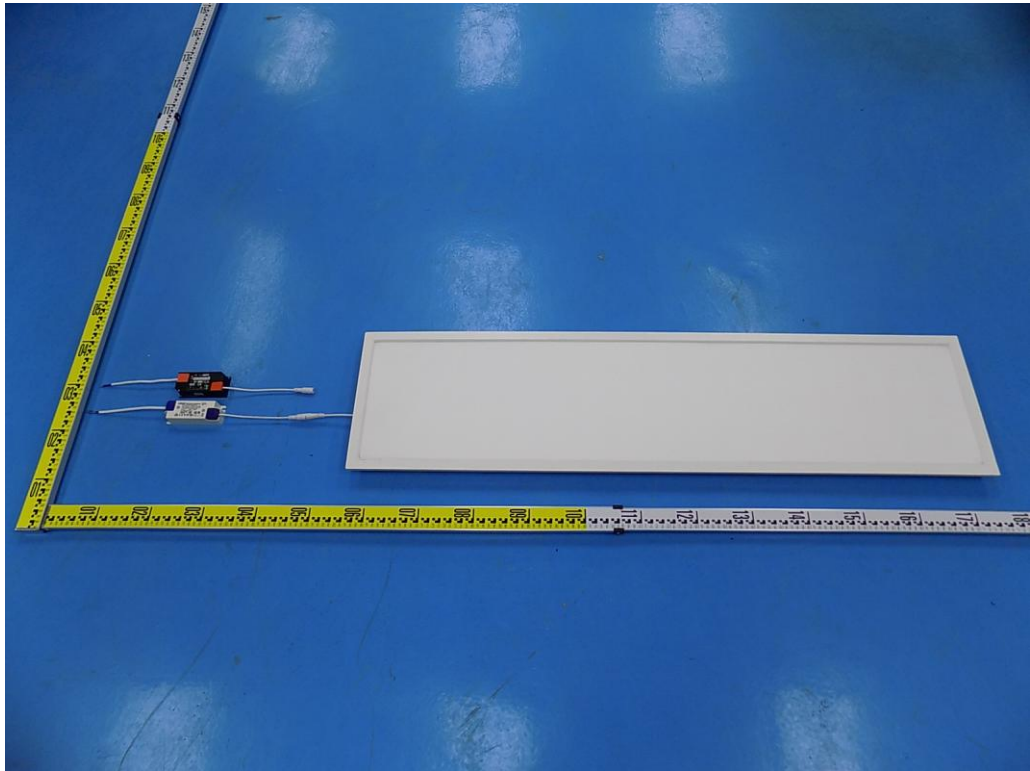


Figure 18: the front view of BLIT-30120-40D-YY for others partial test

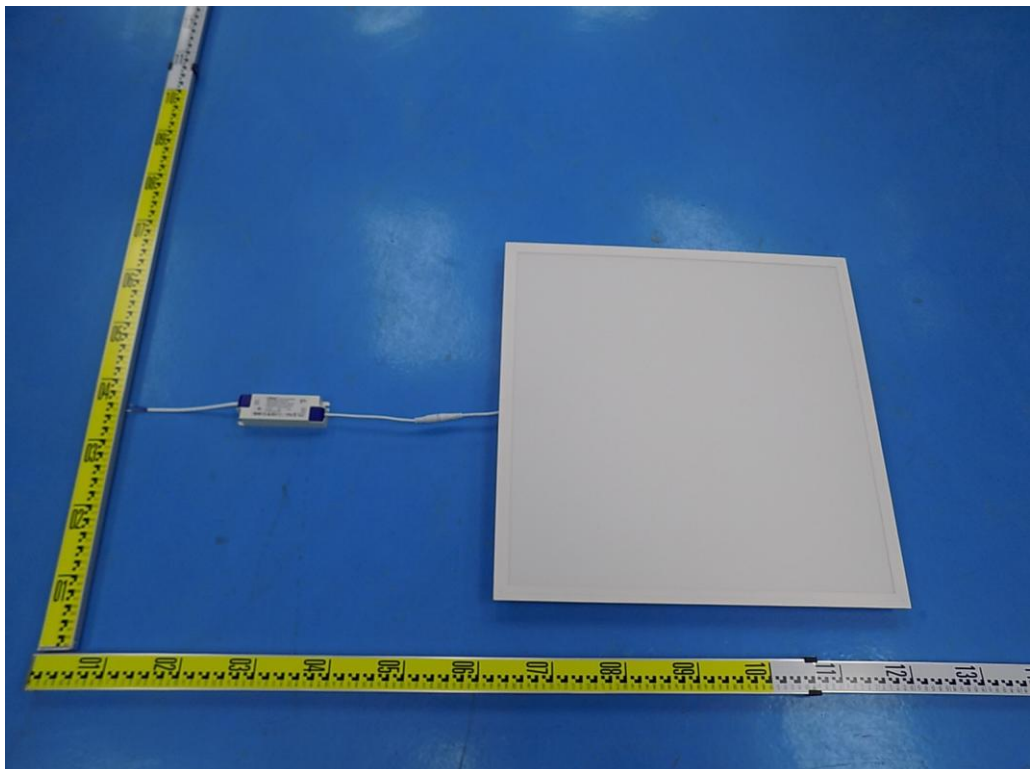


Figure 19: the front view of BLIT-6060-25D-YY for others partial test

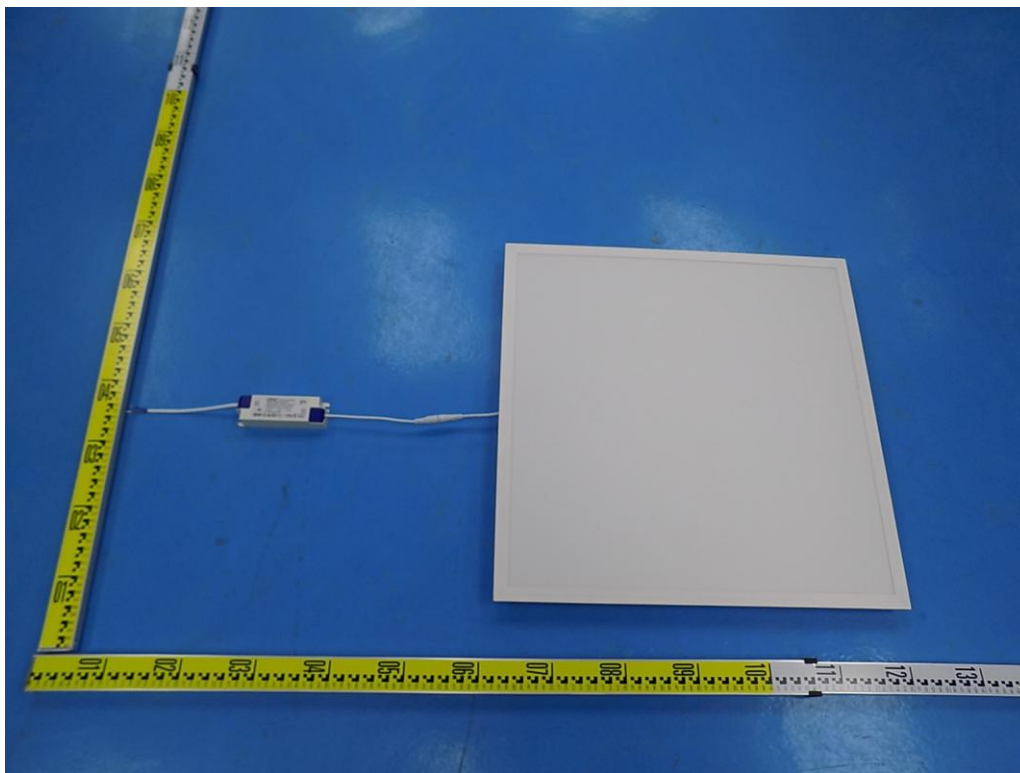


Figure 20: the front view of BLIT-6060-45D-YY for others partial test

--End of report--