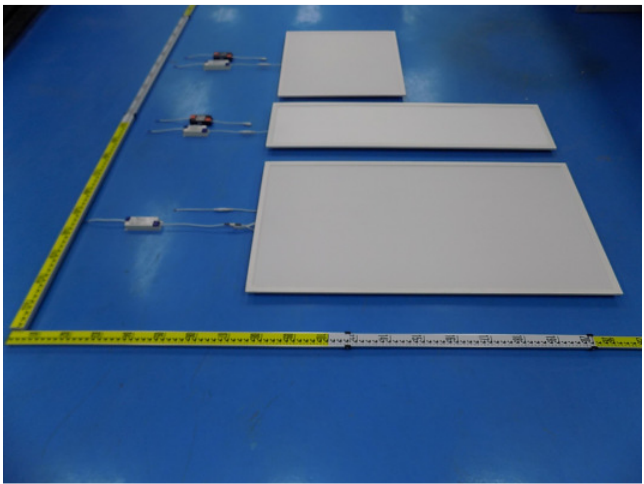


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>50211588 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>164151754</b>	Seite 1 von 44 <i>Page 1 of 44</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2018-11-30		
<b>Auftraggeber:</b> <i>Client:</i>	LED PANEL LIGHTING CO., LTD. 1~6F,NO.233 QingFeng Rd, Sanzhong, Qingxi, Dongguan, GD 523651, P. R. China				
<b>Prüfgegenstand:</b> <i>Test item:</i>	LED LIGHTING				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	See page 7 and page 8				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	LVD CoC				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	EN 60598-1:2015+A1:2018 EN 60598-2-2:2012 EN 62471:2008 EN 62493:2015				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	2018-11-30				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A000820839				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2018-11-30 to 2018-12-19				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	See page 3				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>			
2019-02-20 Jimmy Hong/Engineer		2019-02-20 Jack Li/Technical Certifier			
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>					
1. This report is for issuing LVD CoC for LED LIGHTING mentioned above.					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n)      F(ail) = entspricht nicht o.g. Prüfgrundlage(n)      N/A = nicht anwendbar      N/T = nicht getestet Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor P(ass) = passed a.m. test specification(s)      F(ail) = failed a.m. test specification(s)      N/A = not applicable      N/T = not tested					
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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

**Report Number** .....: See cover page

**Date of issue** .....: See cover page

**Total number of pages** .....: See cover page

**Name of Testing Laboratory preparing the Report**.....: See cover page

**Applicant's name**.....: See cover page

**Address** .....: See cover page

**Test specification:**

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

**Test procedure** .....: LVD CoC

**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.

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<b>Test item description</b> ..... :	LED LIGHTING
<b>Trade Mark</b> ..... :	See marking plate.
<b>Manufacturer</b> .....	Same as the applicant.
<b>Model/Type reference</b> .....	See "General product information" for details.
<b>Ratings</b> ..... :	See "General product information" for details.

**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: EMF Assessment according to EN 62493:2015 (1 page)
- Attachment 5: Photo Documentation (11 pages).

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

Following tests performed during evaluation:

<u>Clause(s)</u>	<u>Test(s)</u>
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

Shenzhen Alpha Product Testing Co., Ltd.

 Building i, No.2, Lixin Road,  
 Fuyong Street, Bao'an District  
 Shenzhen 518103 Guangdong  
 China

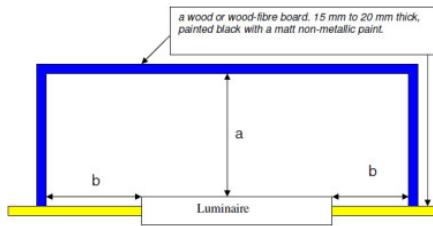
-Full test were performed on the models BLIT-60120-60D-65, and partial test were performed on other models.

**Remark:**

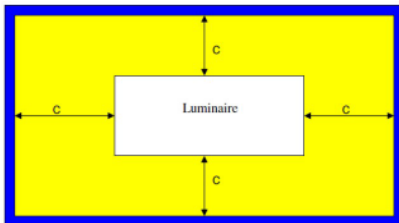
During heating test, fix the luminaire to a ceiling, a box as following cover the luminaire

a=b=c=0mm

Side view



Top view



**Summary of compliance with National Differences:**

**List of countries addressed**

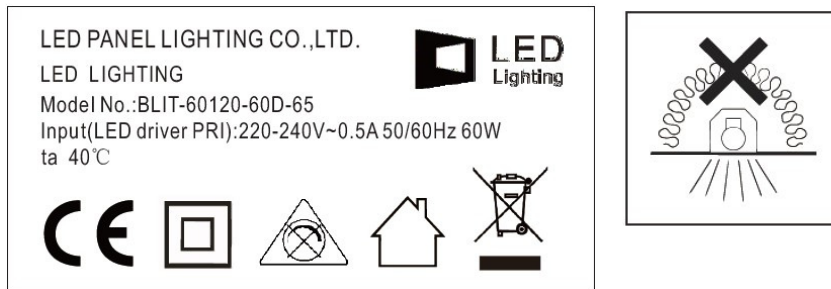
EU= EU Group differences.

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

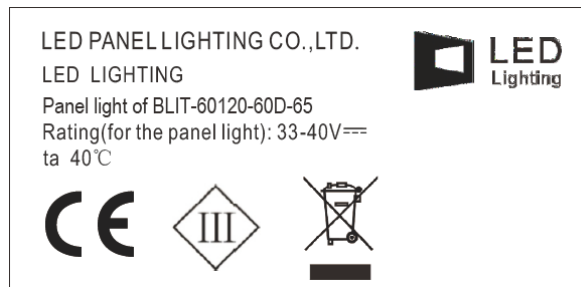
**Copy of marking plate:**

**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.

<b>Test item particulars</b> .....:	
<b>Classification of installation and use</b> .....: Recessed luminaires	
<b>Supply Connection</b> .....: Supply cords	
.....:	
<b>Possible test case verdicts:</b>	
- 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)	
<b>Testing</b> ..... :	
<b>Date of receipt of test item</b> ..... : See cover page	
<b>Date (s) of performance of tests</b> ..... : See cover page	
<b>General remarks:</b>	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
<b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b>	
Clause numbers between brackets refer to clauses in IEC 60598-1	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1:</b>	
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 ..... :	<input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	
<b>Name and address of factory (ies)</b> ..... : 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.

**Model list 1:**

Model no.	Rating	Power (W)	LED Driver	LED chip	LED Quantities (pcs)	Size (mm)		
<b>BLIT-60120-60D-YY</b>	220-240V, 50/60Hz	60	<b>LF-GIF060YA(H)-1550y</b>	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					
BLIT-30120-45D-YY		45	<b>LF-GIF040YA(H)-0950y, AGT-I789-0950</b>		36/48	296×1196		
<b>BLIT-30120-40D-YY</b>		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					
BLIT-30120-20D-YY		20	LF-GIF050YA(H)-1300y					
BLIT-6262-45D-YY		45	LF-GIF040YA(H)-0950y, AGT-I789-0950				36/48	620×620
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)
<b>BLIT-6060-45D-YY</b>	220-240V, 50/60Hz	45	<b>LF-GIF050YA(H)-1300y</b>		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			
<b>BLIT-6060-25D-YY</b>		25	<b>LF-GIF030YA(H)-0650y</b>			
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 <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
2.5 (2.5)	Luminaire for normal use .....	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service .....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
2.6 (3.3.14)	Symbol for nature of supply	~	P
2.6 (3.3.15)	Rated current of socket outlet		N/A
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

<b>2.7 (4)</b>	<b>CONSTRUCTION</b>		P
2.7 (4.2)	Components replaceable without difficulty		P
2.7 (4.3)	Wireways smooth and free from sharp edges		P
<b>2.7 (4.4)</b>	<b>Lampholders</b>		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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
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
<b>2.7 (4.5)</b>	<b>Starter holders</b>		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
<b>2.7 (4.6)</b>	<b>Terminal blocks</b>		N/A
	Tails		N/A
	Unsecured blocks		N/A
<b>2.7 (4.7)</b>	<b>Terminals and supply connections</b>		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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
2.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
<b>2.7 (4.8)</b>	<b>Switches</b>		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
<b>2.7 (4.9)</b>	<b>Insulating lining and sleeves</b>		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
<b>2.7 (4.10)</b>	<b>Double or reinforced insulation</b>		<b>P</b>
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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
<b>2.7 (4.11)</b>	<b>Electrical connections and current-carrying parts</b>		<b>P</b>
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
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
<b>2.7 (4.12)</b>	<b>Screws and connections (mechanical) and glands</b>		<b>P</b>
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
<b>2.7 (4.13)</b>	<b>Mechanical strength</b>		<b>P</b>
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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	d) for temporary installations and suitable for mounting on a stand		N/A
2.7 (4.13.6)	Tumbling barrel		N/A
<b>2.7 (4.14)</b>	<b>Suspensions, fixings and means of adjusting</b>		<b>P</b>
2.7 (4.14.1)	Mechanical load:		P
	A) four times the weight	For the model: BLIT-60120-60D-65, 4x4, 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 <sup>2</sup> ) .....		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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
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
<b>2.7 (4.15)</b>	<b>Flammable materials</b>		<b>P</b>
	- glow-wire test 650°C .....	See Test Table 2.16 (13.3.2)	P
	- spacing $\geq 30$ 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
	- 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
<b>2.7 (4.16)</b>	<b>Luminaires for mounting on normally flammable surfaces</b>		<b>P</b>
	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
<b>2.7 (4.17)</b>	<b>Drain holes</b>		<b>N/A</b>
	Clearance at least 5 mm		N/A
<b>2.7 (4.18)</b>	<b>Resistance to corrosion</b>		<b>N/A</b>
2.7 (4.18.1)	- rust-resistance		N/A

IEC 60598-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
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)	Igniters compatible with ballast		N/A
2.7 (4.20)	Rough service vibration		N/A
<b>2.7 (4.21)</b>	<b>Protective shield</b>		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
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
<b>2.7 (4.24)</b>	<b>Photobiological hazards</b>		<b>P</b>
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
<b>2.7 (4.25)</b>	<b>Mechanical hazard</b>		<b>P</b>
	No sharp point or edges		P
<b>2.7 (4.26)</b>	<b>Short-circuit protection</b>		N/A
2.7 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A



<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
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
<b>2.7 (4.27)</b>	<b>Terminal blocks with integrated screwless earthing contacts</b>		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
<b>2.7 (4.28)</b>	<b>Fixing of thermal sensing control</b>		N/A
	Not plug-in or easily replaceable type		N/A
	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
<b>2.7 (4.29)</b>	<b>Luminaires with non-replaceable light source</b>		<b>P</b>
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		P
<b>2.7 (4.30)</b>	<b>Luminaires with non-user replaceable light source</b>		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
<b>2.7 (4.31)</b>	<b>Insulation between circuits</b>		<b>P</b>
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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 $\leq$ 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
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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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
<b>2.7 (4.32)</b>	<b>Overvoltage protective devices</b>		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

<b>2.8 (11)</b>	<b>CREEPAGE DISTANCES AND CLEARANCES</b>		P
2.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II <input checked="" type="checkbox"/> Category III <input type="checkbox"/>	—
	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
	- Controlgear marked with $\hat{U}_{OUT}$ and $f_{U_{OUT}}$ 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

<b>2.9 (7)</b>	<b>PROVISION FOR EARTHING</b>		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 $\Omega$ ..... :		N/A

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
<b>2.10 (14)</b>	<b>SCREW TERMINALS</b>		N/A
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 3)	N/A
<b>2.10 (15)</b>	<b>SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS</b>		N/A
	Separately approved; component list..... :	(see Annex 1)	N/A
	Part of the luminaire .....	(see Annex 4)	N/A
<b>2.11 (5)</b>	<b>EXTERNAL AND INTERNAL WIRING</b>		P
<b>2.11 (5.2)</b>	<b>Supply connection and external wiring</b>		<b>P</b>

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
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 <sup>2</sup> ) .....	Min. 2×0,75mm <sup>2</sup>	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
	- 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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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 $\leq 2$ 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
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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
<b>2.11 (5.3)</b>	<b>Internal wiring</b>		<b>P</b>
2.11 (5.3.1)	Internal wiring of suitable size and type		<b>P</b>
	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 <sup>2</sup> ).....	Min. 0,5mm <sup>2</sup>	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		<b>P</b>
	Cross-sectional area (mm <sup>2</sup> ).....		<b>P</b>
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
2.11 (5.3.1.5)	SELV current-carrying parts		<b>P</b>
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

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
<b>2.11 (5.4)</b>	<b>Test to determine suitability of conductors having a reduced cross-sectional area</b>		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

<b>2.12 (8)</b>	<b>PROTECTION AGAINST ELECTRIC SHOCK</b>	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
	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



<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	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
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 $\mu$ F not exceed 50 V 1 min after disconnection		N/A

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	Portable luminaire with capacitor > 0,1 µF (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 µF (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
<b>2.13 (12)</b>	<b>ENDURANCE TEST AND THERMAL TEST</b>	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		—
<b>2.13 (12.2)</b>	<b>Selection of lamps and ballasts</b>		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	—
<b>2.13 (12.3)</b>	<b>Endurance test</b>		
	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
	- marking legible		P
	- no cracks, deformation etc.		P
<b>2.13 (12.4)</b>	<b>Thermal test (normal operation)</b>	(see Annex 2)	P

<b>IEC 60598-2-2</b>			
Clause	Requirement + Test	Result - Remark	Verdict
<b>2.13 (12.5)</b>	<b>Thermal test (abnormal operation)</b>	(see Annex 2)	N/A
<b>2.13 (12.6)</b>	<b>Thermal test (failed lamp control gear condition):</b>		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
<b>2.13 (12.7)</b>	<b>Thermal test (failed lamp control gear in plastic luminaires):</b>		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 <input type="checkbox"/> No <input type="checkbox"/>	—
	- manual reset cut-out .....	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- auto reset cut-out .....	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- case of abnormal conditions .....		—
	- highest measured temperature of fixing point/exposed part (°C): .....		—
	Ball-pressure test: .....	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

<b>2.14 (9)</b>	<b>RESISTANCE TO DUST AND MOISTURE</b>		<b>P</b>
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:		<b>P</b>
	- classification according to IP .....	IP20	—

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Clause	Requirement + Test	Result - Remark	Verdict
	- mounting position during test .....		—
	- fixing screws tightened; torque (Nm) .....		—
	- 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

<b>2.15 (10)</b>	<b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b>		<b>P</b>
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

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Clause	Requirement + Test	Result - Remark	Verdict
	- between current-carrying parts and mounting surface..... :	>100 MΩ	P
	- between current-carrying parts and metal parts of the luminaire..... :	>100 MΩ	P
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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
	- 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

<b>2.16 (13)</b>	<b>RESISTANCE TO HEAT, FIRE AND TRACKING</b>		<b>P</b>
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

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Clause	Requirement + Test	Result - Remark	Verdict

<b>2.8 (11.2)</b>	<b>TABLE I: Creepage distances and clearances</b>						<b>P</b>
	<b>Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages</b>						<b>P</b>
	<b>Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*</b>						<b>P</b>
	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 <input type="checkbox"/> ≥ 600 <input type="checkbox"/>		—
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 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/>		—
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.

<b>2.8 (11.2)</b>	<b>TABLE II: Creepage distances and clearances</b>						<b>N/A</b>
	<b>Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages</b>						
	<b>Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2</b>						
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:							
Working voltage (V) .....							—
Frequency if applicable (kHz) .....							—



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Clause	Requirement + Test	Result - Remark	Verdict
PTI .....		< 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/>	—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....			—
Supplementary information:			

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

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

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Clause	Requirement + Test	Result - Remark	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:				

ANNEX 1 TABLE: Critical components information						P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Power cord (for IEC report)	B	Guangdong Yincheng Electric Appliance Co. Ltd.	H03VVH2-F	2×0,75mm <sup>2</sup>	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)-xxxxy/LF-GIF030YA(H)-xxxxy	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)-xxxxy/ LF-GIF050YA(H)-xxxxy	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 <sup>2</sup>	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 <sup>2</sup>	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

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

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°, V-0	UL 94, UL 746A, IEC 60598-1	UL E489916
Diffuser	C	FORMOSA CHEMICALS & FIBRE CORP NYLON DIV	HP825(H)	PS,HB,RTI50°	UL 94, IEC 60598-1	UL E162823

Supplementary information:

<sup>1)</sup> 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

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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 $t_a = 40\text{ °C}$ :		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	39,5°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.	--	--

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Clause	Requirement + Test				Result - Remark		Verdict
Mounting surface		--	40,6	--	90	--	--
Object light(0,1m)			40,9		90		
Supplementary information:							

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 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	40,3°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	--	--

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Clause	Requirement + Test			Result - Remark			Verdict
Diffuser of LED lamp		--	42,2	--	Ref.	--	--
Mounting surface		--	40,9	--	90	--	--
Object light(0,1m)			41,2		90		
Supplementary information:							

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 ta = 40 °C:		<b>P</b>
- 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	40,4°C	--	42,5	--	90	--	--
Tc of LED Driver		71,5	--	--	85	--	--
Output wire of LED driver		--	44,1	--	90	--	--
Connector		--	50,1	--	Ref.	--	--

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Clause	Requirement + Test			Result - Remark			Verdict
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:							

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:		<b>P</b>
- 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	--	--

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Clause	Requirement + Test			Result - Remark			Verdict

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:

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



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Clause	Requirement + Test			Result - Remark			Verdict
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:							

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Clause	Requirement + Test	Result - Remark	Verdict

<b>ANNEX 3</b>	<b>Screw terminals (part of the luminaire)</b>		N/A
<b>(14)</b>	<b>SCREW TERMINALS</b>		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 <sup>2</sup> )..... :		—
(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

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

<b>ANNEX 4</b>	<b>Screwless terminals (part of the luminaire)</b>		N/A
<b>(15)</b>	<b>SCREWLESS TERMINALS</b>		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

IEC 60598-2-2											
Clause	Requirement + Test									Result - Remark	Verdict
(15.6.1)	Conductors										N/A
	Terminal size and rating										N/A
15.6.2	Mechanical tests										N/A
(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
<b>(15.6.3.1)</b> <b>(15.6.3.2)</b>	<b>TABLE: Contact resistance test / Heating tests</b>										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:											

<b>Attachment 1:</b>	
<b>ATTACHMENT TO TEST REPORT IEC 60598-2-2</b> <b>EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</b> <b>Luminaires</b> <b>Part 2: Particular requirements</b> <b>Section 2: Recessed luminaires</b>	
<b>Differences according to .....</b>	EN 60598-2-2:2012 used in conjunction with EN 60598-1:2015 + A1:2018
<b>Annex Form No. ....</b>	EU_GD_IEC60598_2_2D
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<b>GENELEC COMMON MODIFICATIONS (EN)</b>			<b>P</b>
<b>2.6 (3)</b>	<b>MARKING</b>		N/A
2.6 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package		N/A
<b>2.7 (4)</b>	<b>CONSTRUCTION</b>		N/A
2.7 (4.11.6)	Electro-mechanical contact systems		N/A
<b>2.11 (5)</b>	<b>EXTERNAL AND INTERNAL WIRING</b>		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
<b>2.13 (12)</b>	<b>ENDURANCE TESTS AND THERMAL TESTS</b>		<b>P</b>
2.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		<b>P</b>
<b>ZB</b>	<b>ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)</b>		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
<b>ZC</b>	<b>ANNEX ZC, NATIONAL DEVIATIONS (EN)</b>		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/ $\alpha$	7,1e+01	28000/ $\alpha$	-	71000/ $\alpha$	-	
Retinal thermal, weak visual stimulus**	$R(\lambda)$	$L_{IR}$	$W \cdot m^{-2} \cdot sr^{-1}$	6000/ $\alpha$	1,6e-02	6000/ $\alpha$	-	6000/ $\alpha$	-	
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 <sup>2</sup> ·sr	100 W/m <sup>2</sup> ·sr	400-500nm	P

<b>Table 6.1</b>		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/ $\alpha$	7,1e+01	28000/ $\alpha$	-	71000/ $\alpha$	-	
Retinal thermal, weak visual stimulus**	$R(\lambda)$	$L_{IR}$	$W \cdot m^{-2} \cdot sr^{-1}$	545000	-					
				0,0017 $\leq \alpha \leq$ 0,011						
				6000/ $\alpha$	-					
				0,011 $\leq \alpha \leq$ 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.

<b>Attachment 3:</b>	<b>Tests according to IEC 62031:2008+A1+A2, EN 62031:2008+A1+A2</b>
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<b>13.2</b>	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

<b>14</b>	<b>Conformity testing during manufacture</b>	Tested as a part of luminaire	P
<b>17</b>	<b>Screws, current-carrying parts and connections</b>		P
	The requirements of IEC 61347-1, Clause 17, apply.		P

<b>22</b>	<b>PHOTOBIOLOGICAL SAFETY</b>		P
<b>22.1</b>	<b>UV radiation</b>		N/A
	Luminous radiation not exceed 2mW/klm	LED	N/A
<b>22.2</b>	<b>Blue light hazard</b>		P
	Assessed according to IEC TR 62778	RG0	P
<b>22.3</b>	<b>Infrared radiation</b>		N/A
	Requirements for infrared radiation when required	LED	N/A



<b>Attachment 4:</b>	<b>EMF Assessment according to EN 62493:2015</b>
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Procedure	Products are applications with	If No	If yes
a)	Non-electronic control gear?	<input checked="" type="checkbox"/> see Procedure b)	<input type="checkbox"/> Pass
b)	Incandescent-lamp technology or halogen?	<input checked="" type="checkbox"/> see Procedure c)	<input type="checkbox"/> see Procedure h)
c)	LED light-source technology?	<input type="checkbox"/> see Procedure d)	<input checked="" type="checkbox"/> see Procedure h)
d)	OLED light-source technology?	<input type="checkbox"/> see Procedure e)	<input type="checkbox"/> see Procedure h)
e)	High-pressure discharge lamp technology?	<input type="checkbox"/> see Procedure f)	<input type="checkbox"/> see Procedure h)
f)	Low-pressure discharge lamp technologies with an exposure distance larger than or equal to 50cm (Distance for Hand lights, table lightings and Self-ballasted lamps is less than 50cm)	<input type="checkbox"/> see Procedure g)	<input type="checkbox"/> see Procedure h)
g)	Independent auxiliary?	<input type="checkbox"/> see Procedure i)	<input type="checkbox"/> see Procedure h)
h)	Non-wireless technology (exclude infra-red)?	<input type="checkbox"/> see Procedure i)	<input checked="" type="checkbox"/> Pass
i)	Additional test is performed and result is Pass Test Report with No.: .....	<input type="checkbox"/> see Procedure b)	<input type="checkbox"/> Pass