



CNAS L6964 Report No.:UNI2017112901SR-01 Test Report issued under the responsibility of: Shenzhen United Testing Technology Co., Ltd.

TEST REPORT IEC 60598-2-1 Luminaires Part 2: Particular requirements: Section One – Fixed general purpose luminaires

中国认可 国际互认 检测 TESTING

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Report Number:	UNI2017112901SR-01
Date of issue	2017-11-29
Total number of pages:	53 pages (including attachments)
Applicant's name:	YIN FENG LIGHTING CO.,LTD
Address:	Huangwan Industrial,Hetang Town, Jiangmen City, Guangdong Province,China
Test specification:	i l
Standard:	AS/NZS 60598.2.1:2014 used in conjunction with IEC 60598-1:2008
Test procedure:	IEC Scheme
Non-standard test method:	N/A
Test Report Form No:	IEC60598_2_1C
Test Report Form(s) Originator:	Intertek Semko AB
Master TRF	2012-11

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Test item description:	Outdoor light
Trade Mark:	N/A
Manufacturer:	YIN FENG LIGHTING CO.,LTD
	Huangwan Industrial,Hetang Town, Jiangmen City, Guangdong Province,China
Model/Type reference:	YF2004X (Other models see the table MODEL LIST)
Ratings:	220-240V~, 50/60Hz, Class I, see the table MODEL LIST for other parameters

TRF No. IEC60598_2_1C

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Test	ing procedure and testing location	on:
\square	Testing Laboratory:	Shenzhen United Testing Technology Co., Ltd.
Testi	ing location/ address:	2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Su, Bao'an District, Shenzhen, China
	Tested by (name + signature):	Steven Steven
	Approved by (+ signature)	
	Associated CB Laboratory:	Course Walls & Children &
Testi	ing location/ address	A Charles and the second se
	Tested by (name + signature):	
	Approved by (+ signature):	
	Testing procedure: TMP	
Testi	ing location/ address:	
	Tested by (name + signature):	
	Approved by (+ signature):	
_		
	Testing procedure: WMT	
Testi	ing location/ address:	
	Tested by (name + signature):	
	Witnessed by (+ signature):	
	Approved by (+ signature):	H. C. H
	Testing procedure: SMT	
Testi	ing location/ address	
	Tested by (name + signature):	
	Approved by (+ signature):	
	Supervised by (+ signature):	

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List of Attachments (including a total number of pages in each attachment): Attachment 1: Variations to IEC 60598-1, Ed. 7.0 (2008) for AS/NZS 60598.1:2013 (total: 7 pages)

Attachment 2: Variations to IEC 60598-2-1:1979+A1:1987 for application in Australia and New Zealand (AS/NZS 60598.2.1:2016) (total: 2 page) Attachment 3: Photographs of test samples (total: 4 pages)

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Summary of testing: Tests performed (name of test and test **Testing location:** clause): Shenzhen United Testing Technology Co., All applicable tests according to IEC 60598-2-1 were Ltd. performed on models YF2004X based on the 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 conditions which all models have similar electrical Baotian 1 Rd, Tiegang Community, Xixiang Str, and mechanical construction, the differences used Bao'an District, Shenzhen, China appearance, the test sections include: 1.5 (3) MARKING 1.6 (4) CONSTRUCTION 1.7 (11) CREEPAGE DISTANCES AND **CLEARANCES** 1.8 (7) PROVISION FOR EARTHING 1.10 (5) EXTERNAL AND INTERNAL WIRING 1.11 (8) PROTECTION AGAINST ELECTRIC SHOCK 1.12 (12) ENDURANCE TEST AND THERMAL TEST 1.13 (9) RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE 1.14 (10) INSULATION RESISTANCE AND ELECTRIC STRENGTH 1.15 (13) RESISTANCE TO HEAT, FIRE AND TRACKING For LED modules incorporated in the luminaires, the standards IEC 62031:2008 have been evaluated. See attachment 2. For Australia national deviations of AS/NZS 60598.2.1:2016 and AS/NZS 60598.1:2013, we have also considered in this test report. See attachment 3. The tested samples fulfill the requirements of the standards IEC 60598-2-1:1979 + A1:1987 and AS/NZS 60598.2.1:1998. Summary of compliance with National Differences: List of countries addressed: Austrilia The product fulfils the requirements of

IEC 60598-2-1:1979 + A1:1987 used in conjunction with IEC 60598-1:2008 AS/NZS 60598.2.1: 2016 used in conjunction with AS/NZS 60598.1:2013

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E27 MAX.40W

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.

Outdoor light

Model: YF2004X

IP44 Ta=45℃

Input: 220-240V~, 50/60Hz, E27 40WMAX

YIN FENG LIGHTING CO., LTD

Made in China

Representative model: YF2004X

Location: attached on the enclosure, visible during installation

Remarks:

- 1. The height of WEEE symbol shall be not less than 7.0mm
- 2. The height of other required graphical symbols shall be not less than 5.0mm
- 3. The height of letters and numerals shall be not less than 2.0mm
- 4. The marking plates for other models are identical with the exception of model designations, , see the table MODEL LIST.

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Test item particulars	La La
Classification of installation and use:	Class I luminaires
Supply Connection	Termina
	i i
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:	2017-11-07
Date (s) of performance of tests:	2017-11-07 to 2017-11-29

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General remarks:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a \Box comma / \boxtimes 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 IECEE 02:

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

City, Guangdong Province, China

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies): YIN FENG LIGHTING CO.,LTD Huangwan Industrial,Hetang Town, Jiangmen

General product information:

The tested samples are suspension fixed luminaires incorporated E27 lamp as light source. They are classified class I according to protection against electric shock, suitable for direct mounting on normally flammable surfaces.

The tested samples are designed for outdoor use, and intended for being suspending on the wall for general lighting. Each appliance consists of metal body and E27 lampolder which are be assembled in position by the manufacturer before delivery.

The supply voltage of the tested samples is 220-240V~ 50/60Hz, rated wattages 40W, see model list for detail information.

The maximum ambient temperature ta is considered as 45°C since it is not declared in the technical documentations.

The test samples have similar mechanical and electrical constructions, only with different appearance.

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MODEL LIST

	IV	IODEL LIST		15		8	
	No	Model no.	Input voltage	Power	Size	Photo	weight (KG)
	1	YF2010F	220-240V~,50/60Hz	E27 40WMAX	210*165*340mm		1.1kg
	2	YF8024L	220-240V~,50/60Hz	E27 40WMAX	240*150*470mm		1.9kg
-	3	YF2004X	220-240V~,50/60Hz	E27 40WMAX	185*185*600mm		کٹ 1kg
	4	YF2003S1	220-240V~,50/60Hz	E27 40WMAX	15*145*405mm		0.75kg
	5	YF2004P	220-240V~,50/60Hz	E27 40WMAX	H:900mm		2.5kg

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N	i V			N.		
3		iq,	Page 10 c	Report	No.: UNI2017112901	ISR-0
			S	2	$\mathbf{\nabla}$	
6	YF2006S1	220-240V~,50/60Hz	E27 40WMAX	H:900mm		1.2kg
		5	2	S		i,
	L'	1			•	
7	YF2016PC	220-240V~,50/60Hz	E27 40WMAX	H:1000mm	1	3.5kg
		N	4	<u>.</u>		
			5	M		
	L.	in.				
8	YF2003A	220-240V~,50/60Hz	E27 40WMAX	190*145*360mm).75kg
	i,	- i				
		L.				
		<u>.</u>	4		*	
9	YF807B	220-240V~,50/60Hz	E27 40WMAX	250*200*320mm	A REAL	0.9kg
ù						
		2	N	i.	+	
	NERO DE C		507 (0) (0 4 4 4	00011051100		
10	YF2005C	220-240V~,50/60Hz	E27 40WMAX	220*165*460mm		1kg
				U	90	
	5	J.		Ń		
	VE0107	220 24014 50 (011-	507 40VA(NAA)(240*400*240mm		1 21-2
11	YF810Z	220-240V~,50/60Hz	E27 40WMAX	240*180*340mm		1.3kg
	4			L.		
	-3	in	i.			
12	YF827E	220-240V~,50/60Hz	E27 40WMAX	280*255*370mm		3kg
	12	ia.		5		

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	j		Page 11 c	of 53 Repo	rt No.: UNI2017112	901SR-0
13	YF2001G	220-240V~,50/60Hz	E27 40WMAX	260*155*460mm		1.2kg
14	YF803V	220-240V~,50/60Hz	E27 40WMAX	280*220*500mm		1.1kg
15	YF801J	220-240V~,50/60Hz	E27 40WMAX	225*200*445mm	R	1.5kg
16	YF2021K	220-240V~,50/60Hz	E27 40WMAX	255*00*450mm		1.5kg
17	YF846U	220-240V~,50/60Hz	E27 40WMAX	210*185*375mm		1kg
18	YF812W	220-240V~,50/60Hz	E27 40WMAX	285*230*500mm		2.2kg
19	YF866N	220-240V~,50/60Hz	E27 40WMAX	170*170*355mm		1.38k

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	S	N	N	
20 YF80	3Q 220-240V~,50/60H	Hz E27 40WMAX	230*180*390mm	1.4k
	NU	i i	N	

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	IEC 60598-2-1_ATTACHMENT					
Clause	Requirement + Test	Result - Remark	S	Verdict		
1.2 (0)	GENERAL TEST REQUIREMENTS	1		Р		
1.2 (0.1)	Information for luminaire design considered	Yes 🛛 No		—		
1.2 (0.3)	More sections applicable:	Yes 🗌 No	\boxtimes			

1.4 (2)	CLASSIFICATION		Р
1.4 (2.2)	Type of protection:	Class I	
1.4 (2.3)	Degree of protection:	IP 44	
1.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes 🛛 No 🗌	
1.4 (2.5)	Luminaire for normal use:	Yes 🛛 No 🗌	_
1	Luminaire for rough service:	Yes 🗌 No 🖂	

1.5 (3)	MARKING		Р
1.5 (3.2)	Mandatory markings		Р
	Position of the marking	On the enclosure	Р
	Format of symbols/text	WEEE symbol: 7.0mm(MIN) Letters/numerals: 2.0mm(MIN)	P
1.5 (3.3)	Additional information	In the instruction leaflet	Р
	Language of instructions	English	Ρ
1.5 (3.3.1)	Combination luminaires		N/A
1.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	Р
1.5 (3.3.3)	Operating temperature	2	N/A
1.5 (3.3.4)	Symbol or warning notice		N/A
1.5 (3.3.5)	Wiring diagram	i la	N/A
1.5 (3.3.6)	Special conditions	5	N/A
1.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
1.5 (3.3.8)	Limitation for semi-luminaires	1	N/A
1.5 (3.3.9)	Power factor and supply current		N/A
1.5 (3.3.10)	Suitability for use indoors		N/A
1.5 (3.3.11)	Luminaires with remote control	5	N/A
1.5 (3.3.12)	Clip-mounted luminaire – warning	Fixed luminaires	N/A
1.5 (3.3.13)	Specifications of protective shields		N/A

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	IEC 60598-2-1_ATTACHM	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
1.			I
1.5 (3.3.14)	Symbol for nature of supply	~	Р
1.5 (3.3.15)	Rated current of socket outlet	L.	N/A
1.5 (3.3.16)	Rough service luminaire	Normal use luminaires	N/A
1.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Terminal block	N/A
1.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
1.5 (3.3.19)	Protective conductor current in instruction if applicable	L L	N/A
1.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
1.5 (3.4)	Test with water	15 s	Р
11	Test with hexane	15 s	Р
V	Legible after test	i di	Р
	Label attached	1	Р

1.6 (4)	CONSTRUCTION		Р
1.6 (4.2)	Components replaceable without difficulty		Р
1.6 (4.3)	Wireways smooth and free from sharp edges	1. 2	Р
1.6 (4.4)	Lampholders		Р
1.6 (4.4.1)	Integral lampholder		N/A
1.6 (4.4.2)	Wiring connection	L.	N/A
1.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
1.6 (4.4.4)	Positioning	i hi	Р
	- pressure test (N):		N/A
	After test the lampholder comply with relevant standard sheets and show no damage	N 17	N/A
5	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	N	N/A
i h	- bending test (N)	E27 2.0Nm	P
	After test the lampholder have not moved from its position and show no permanent deformation	N	P
1.6 (4.4.5)	Peak pulse voltage		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
È,			
1.6 (4.4.6)	Centre contact	_	N/A
1.6 (4.4.7)	Parts in rough service luminaires resistant to tracking	L.	N/A
1.6 (4.4.8)	Lamp connectors		N/A
1.6 (4.4.9)	Caps and bases correctly used	5	N/A
1.6 (4.5)	Starter holders	No starter holder used	N/A
	Starter holder in luminaires other than class II	1	N/A
1	Starter holder class II construction	5	N/A
1.6 (4.6)	Terminal blocks	<i>4</i> .	Р
	Tails	5	N/A
in i	Unsecured blocks		N/A
1.6 (4.7)	Terminals and supply connections		Р
1.6 (4.7.1)	Contact to metal parts	5	Р
.6 (4.7.2)	Test 8 mm live conductor		Р
	Test 8 mm earth conductor	i i	Р
1.6 (4.7.3)	Terminals for supply conductors	2	Р
1.6 (4.7.3.1)	Welded connections:		N/A
	- stranded or solid conductor	5	N/A
À	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment	5	N/A
. 5	- mechanical test according to 15.8.2		N/A
	- electrical test according to 15.9	L .	N/A
	- heat test according to 15.9.2.3 and 15.9.2.4		N/A
.6 (4.7.4)	Terminals other than supply connection		Р
1.6 (4.7.5)	Heat-resistant wiring/sleeves	J	Р
.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N	1	N/A
.6 (4.8)	Switches:		N/A
1	- adequate rating		N/A
	- adequate fixing	, N	N/A
	- polarized supply		N/A

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Clause	IEC 60598-2-1_ATTACHM		Vardia
Clause	Requirement + Test	Result - Remark	Verdic
5	- compliance with 61058-1 for electronic	~	N/A
	switches	15	
1.6 (4.9)	Insulating lining and sleeves		Р
1.6 (4.9.1)	Retainement		Р
	Method of fixing:	Heat-shrinkable tubing	Р
1.6 (4.9.2)	Insulated linings and sleeves		Р
	Resistant to a temperature > 20 °C to the wire temperature or	N 12	Р
	a) & c) Insulation resistance and electric strength	-i	N/A
2	b) Ageing test. Temperature (°C):	L'	N/A
1.6 (4.10)	Insulation of Class II luminaires	·	N/A
1.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	N	N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches	in i	N/A
	Interference suppression capacitors according to IEC 60384-14	L'	N/A
1.6 (4.10.2)	Assembly gaps:	4,	N/A
4	- not coincidental		N/A
5	- no straight access with test probe	5	N/A
.6 (4.10.3)	Retainment of insulation:	5	N/A
. 5	- fixed		N/A
	- unable to be replaced; luminaire inoperative	-1	N/A
	- sleeves retained in position	L.	N/A
	- lining in lampholder	<i>x</i>	N/A
.6 (4.11)	Electrical connections	in in	Р
.6 (4.11.1)	Contact pressure		Р
1.6 (4.11.2)	Screws:		Р
	- self-tapping screws	5	N/A
h,	- thread-cutting screws		N/A
1.6 (4.11.3)	Screw locking:	1	Р
	- spring washer	5	N/A
	- rivets		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
, N			
1.6 (4.11.4)	Material of current-carrying parts	Copper or copper alloy used	Р
1.6 (4.11.5)	No contact to wood or mounting surface		Р
1.6 (4.11.6)	Electro-mechanical contact systems		N/A
1.6 (4.12)	Mechanical connections and glands	S	Р
1.6 (4.12.1)	Screws not made of soft metal		Р
	Screws of insulating material	L 4	N/A
i.	Torque test: torque (Nm); part:	0.60 Nm for fixing earth terminal	Р
	Torque test: torque (Nm); part:	0.50 Nm for fixing terminal block	Р
5	Torque test: torque (Nm); part:		N/A
1.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal	N	N/A
1.6 (4.12.4)	Locked connections:		Р
	- fixed arms; torque (Nm):	No fixed arms used	N/A
	- lampholder; torque (Nm):	E27 2.0Nm	Р
	- push-button switches; torque 0,8 Nm:		N/A
1.6 (4.12.5)	Screwed glands; force (Nm):	7. 2	N/A
1.6 (4.13)	Mechanical strength		Р
1.6 (4.13.1)	Impact tests:		Р
	- fragile parts; energy (Nm):	0.20 Nm	Ρ
15	- other parts; energy (Nm):	0.35 Nm	Р
	1) live parts	in i	Р
	2) linings		Р
	3) protection	1	Р
	4) covers	7, 7	Р
.6 (4.13.3)	Straight test finger	30 N	Р
.6 (4.13.4)	Rough service luminaires luminaires	Normal use	N/A
in.	- IP54 or higher		N/A
V	a) fixed	1	N/A
	b) hand-held	L.	N/A
	c) delivered with a stand		N/A

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	IEC 60598-2-1_ATTACHME		Mar P
Clause	Requirement + Test	Result - Remark	Verdic
S.	d) for temporary installations and suitable for mounting on a stand	i,	N/A
1.6 (4.13.6)	Tumbling barrel		Р
1.6 (4.14)	Suspensions and adjusting devices	4	Р
1.6 (4.14.1)	Mechanical load:	5	Р
	A) four times the weight	Model YF827E with biggest mass was tested:4x3kg=12kg	Р
L.	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm):	i.	N/A
	D) load track-mounted luminaires	L'	N/A
5	E) clip-mounted luminaires, glass-shelve. Thickness (mm):	Not clip-mounted luminaires	N/A
	Metal rod. diameter (mm):	5	N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
1.6 (4.14.2)	Load to flexible cables	5	N/A
0	Mass (kg)		N/A
	Stress in conductors (N/mm ²):	1	N/A
i.	Mass (kg) of semi-luminaire:		N/A
5	Bending moment (Nm) of semi-luminaire:		N/A
1.6 (4.14.3)	Adjusting devices:	5	N/A
	- flexing test; number of cycles:		N/A
	- strands broken		N/A
	- electric strength test afterwards	S	N/A
1.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	No cable with such construction used	N/A
1.6 (4.14.5)	Guide pulleys	No guide pulley used	N/A
1.6 (4.14.6)	Strain on socket-outlets		N/A
1.6 (4.15)	Flammable materials:	1	Р
1	- glow-wire test 650 °C		Р
5	- spacing ≥ 30 mm	4	N/A
	- screen withstanding test of 13.3.1	5	N/A
	- screen dimensions		N/A
	- no fiercely burning material	6	Р

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Clause	Requirement + Test	Result - Remark	Verdic	
V.	- thermal protection		N/A	
	- electronic circuits exempted	S	N/A	
1.6 (4.15.2)	Luminaires made of thermoplastic material wi	th lamp control gear	N/A	
V	a) construction	4	N/A	
	b) temperature sensing control		N/A	
	c) surface temperature	4	N/A	
1.6 (4.16)	Luminaires for mounting on normally flammat	ble surfaces	Р	
Ľ,	No lamp control gear	(compliance with Section 12)	N/A	
1.6 (4.16.1)	Lamp control gear spacing:	5	N/A	
h.	- spacing 35 mm		N/A	
V	- spacing 10 mm	-i	N/A	
1.6 (4.16.2)	Thermal protection:	L.	N/A	
	- in lamp control gear		N/A	
	- external	in a	N/A	
2	- fixed position		N/A	
	- temperature marked lamp control gear		N/A	
1.6 (4.16.3)	Design to satisfy the test of 12.6	(see 12.6)	N/A	
1.6 (4.17)	Drain holes		N/A	
	Clearance at least 5 mm	i.	N/A	
1.6 (4.18)	Resistance to corrosion:	L	N/A	
1.6 (4.18.1)	- rust-resistance		N/A	
1.6 (4.18.2)	- season cracking in copper	1	N/A	
1.6 (4.18.3)	- corrosion of aluminium		N/A	
1.6 (4.19)	Ignitors compatible with ballast		N/A	
1.6 (4.20)	Rough service vibration	Normal use luminaires	N/A	
1.6 (4.21)	Protective shield:		N/A	
1.6 (4.21.1)	Shield fitted	L.	N/A	
5	Shield of glass if tungsten halogen lamps		N/A	
1.6 (4.21.2)	Particles from a shattering lamp not impair safety	-i	N/A	
1.6 (4.21.3)	No direct path		N/A	
1.6 (4.21.4)	Impact test on shield		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
17.			
	Glow-wire test on lamp compartment	i.	N/A
1.6 (4.22)	Attachments to lamps	V.	N/A
1.6 (4.23)	Semi-luminaires comply Class II		N/A
1.6 (4.24)	UV radiation for tungsten halogen lamps and metal halide lamps (Annex P)	N	N/A
1.6 (4.25)	No sharp point or edges		Р
1.6 (4.26)	Short-circuit protection:	1 4	N/A
1.6 (4.26.1	I) Uninsulated accessible SELV parts	L.	N/A
1.6 (4.26.2	2) Short-circuit test	4	N/A
1.6 (4.26.3	3) Test chain according to Figure 29	5	N/A
1.6 (4.27)	Terminal blocks with integrated screwless ear according Annex V	thing contacts tested	N/A
	Pull test of terminal fixing (20 N)	L.	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	L.	N/A
	Voltage drop test, resistance < 0,05 Ω		N/A

1.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		Р
C .	Working voltage (V):	240 V r.m.s (Input)	
5	Voltage form	Sinusoidal 🛛 For LED driver input Non-sinusoidal 🗔	
	PTI	< 600 🛛 <u>></u> 600 🗌	_
	Impulse withstand category (Normal category II) (Category III Annex U)	Category II 🛛 Category III	
4	Rated pulse voltage (kV):	No pulse voltage generated	
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm):	Cr=cl>5 mm (Limit: cl=2.5mm, cr=1.5mm)	P
S	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm):	cr=cl>5 mm(Limit: cl=2.5mm, cr=1.5mm)	Р
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm):		N/A

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5	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm):	i pi	N/A
V	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm):	cr>2.5mm, cl> 1.5mm(Limit: cl=2.5mm, cr=1.5mm)	P

1.8 (7)	PROVISION FOR EARTHING		Р
1.8 (7.2.1 + 7.2.3)	Accessible metal parts	L L	Р
	Metal parts in contact with supporting surface		Р
	Resistance < 0,5 Ω	0.056Ω	P
h.	Self-tapping screws used		N/A
	Thread-forming screws	1	Р
	Thread-forming screw used in a grove	C.	N/A
1	Earth makes contact first		Р
	Terminal blocks with integrated screwless earthing contacts tested according Annex V	in Ni	N/A
1.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		Р
1.8 (7.2.4)	Locking of clamping means	V J	Р
5	Compliance with 4.7.3		Р
	Terminal blocks with integrated screwless earthing contacts tested according Annex V	5	N/A
1.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
1.8 (7.2.6)	Earth terminal adjacent to mains terminals	L.	N/A
1.8 (7.2.7)	Electrolytic corrosion of the earth terminal	4	N/A
1.8 (7.2.8)	Material of earth terminal	1	Р
i.	Contact surface bare metal		Р
1.8 (7.2.10)	Class II luminaire for looping-in	. 1	N/A
i.	Double or reinforced insulation to functional earth		N/A
1.8 (7.2.11)	Earthing core coloured green-yellow		Р
	Length of earth conductor	5	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.9 (14)	SCREW TERMINALS	1	Р
	Separately approved; component list	With approved driver	Р
	Part of the luminaire	(see Annex 3)	N/A

1.9 (15)	5) SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 4)	N/A

1.10 (5)	EXTERNAL AND INTERNAL WIRING		P
1.10 (5.2)	Supply connection and external wiring	L.	Р
1.10 (5.2.1)	Means of conne4ction	Terminal block	Р
1.10 (5.2.2)	Type of cable	, N	N/A
	Nominal cross-sectional area (mm ²)		N/A
	Cables equal to IEC 60227 or IEC 60245		N/A
1.10 (5.2.3)	Type of attachment, X, Y or Z	·	N/A
1.10 (5.2.5)	Type Z not connected to screws		N/A
1.10 (5.2.6)	Cable entries:	i.	N/A
1	- suitable for introduction	5	N/A
5	- adequate degree of protection		N/A
1.10 (5.2.7)	Cable entries through rigid material have rounded edges	5	N/A
1.10 (5.2.8)	Insulating bushings:		N/A
	- suitably fixed	4	N/A
	- material in bushings		N/A
9	- material not likely to deteriorate	1	N/A
	- tubes or guards made of insulating material	7. 7	N/A
1.10 (5.2.9)	Locking of screwed bushings		N/A
1.10 (5.2.10)	Cord anchorage:	N'	N/A
h.	- covering protected from abrasion		N/A
	- clear how to be effective	i.	N/A
	- no mechanical or thermal stress	0.	N/A
	- no tying of cables into knots etc.		N/A

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Clause	Requirement + Test	Result - Remark	Verdic
5	- insulating material or lining		N/A
1.10			N/A
(5.2.10.1)	Cord anchorage for type X attachment:		IN/A
	a) at least one part fixed		N/A
	b) types of cable	S.	N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted	4	N/A
1	e) no touching of clamping screws	L.	N/A
	f) metal screw not directly on cable	6	N/A
	g) replacement without special tool	5	N/A
ia .	Glands not used as anchorage		N/A
V	Labyrinth type anchorages		N/A
1.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	L.	N/A
1.10 (5.2.10.3)	Tests:	in in	N/A
	- impossible to push cable; unsafe		N/A
	- pull test: 25 times; pull (N)		N/A
<i>.</i>	- torque test: torque (Nm)		N/A
5	- displacement ≤ 2 mm		N/A
	- no movement of conductors	A.	N/A
	- no damage of cable or cord		N/A
1.10 (5.2.11)	External wiring passing into luminaire	i.	N/A
1.10 (5.2.12)	Looping-in terminals	Not loop-in luminaire	N/A
1.10 (5.2.13)	Wire ends not tinned	N N	N/A
	Wire ends tinned: no cold flow		N/A
1.10 (5.2.14)	Mains plug same protection	L'	N/A
15	Class III luminaire plug		N/A
1.10 (5.2.16)	Appliance inlets (IEC 60320)	No appliance inlet used	N/A
	Appliance couplers of class II type		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
			voraioi
1.10 (5.2.17)	No standardized interconnecting cables properly assembled	in,	N/A
1.10 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083	17,	N/A
	- other standard		N/A
1.10 (5.3)	Internal wiring	i la	Р
1.10 (5.3.1)	Internal wiring of suitable size and type	2	Р
	Through wiring		N/A
	- not delivered/ mounting instruction	4.	N/A
1	- factory assembled		N/A
5	- socket outlet loaded (A)		N/A
	- temperatures		N/A
	Green-yellow for earth only		Р
1.10 (5.3.1.1)	Internal wiring connected directly to fixed wirin	ng	Р
ē.	Cross-sectional area (mm ²)		Р
	Insulation thickness	i.	Р
	Extra insulation added where necessary	5	N/A
1.10 (5.3.1.2)	Internal wiring connected to fixed wiring via in	ternal current-limiting device	N/A
	Adequate cross-sectional area and insulation thickness		N/A
1.10 (5.3.1.3)	Double or reinforced insulation for class II	in,	N/A
1.10 (5.3.1.4)	Conductors without insulation	No conductors without insulation used	N/A
1.10 (5.3.1.5)	SELV current-carrying parts	L N	N/A
.10 5.3.1.6)	Insulation thickness other than PVC or rubber	i, hi	N/A
1.10 (5.3.2)	Sharp edges etc.		Р
5	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices	'n,	Р
	Telescopic tubes etc.		N/A

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	IEC 60598-2-1_ATTACH		
Clause	Requirement + Test	Result - Remark	Verdict
17.			1
	No twisting over 360°	Not withstand rotation along cable longitudinal axis	P
1.10 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed	7,	N/A
	- material in bushings		N/A
	- material not likely to deteriorate	i i	N/A
	- cables with protective sheath	2	N/A
1.10 (5.3.4)	Joints and junctions effectively insulated		N/A
1.10 (5.3.5)	Strain on internal wiring	1	N/A
1.10 (5.3.6)	Wire carriers	Not make cable damaged during adjusting luminaire height	N/A
1.10 (5.3.7)	Wire ends not tinned	L.	Р
	Wire ends tinned: no cold flow		N/A

1.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		Ρ
1.11 (8.2.1)	Live parts not accessible		Р
1	Basic insulated parts not used on the outer surface without appropriate protection	5 5	Р
	Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires	N	N/A
5	Basic insulated parts not accessible with Ø 50 mm probe from outside, within arm's reach, on wall-mounted luminaires	, pi	Ρ
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements	i 1	N/A
r,	Basic insulation only accessible under lamp or starter replacement		Ρ
	Protection in any position	in in	Р
1	Double-ended tungsten filament lamp		N/A
5	Insulation lacquer not reliable		N/A
	Double-ended high pressure discharge lamp	LED module used as light source	N/A
V	Relevant warning according to 3.2.18 fitted to the luminaire	1	N/A

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	IEC 60598-2-1_ATTACHME	ENT	
Clause F	Requirement + Test	Result - Remark	Verdict
1.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position	in i	N/A
1.11 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement	S	N/A
	- basic insulation not accessible other than during starter or lamp replacement	i in	N/A
ذر ا	- glass protective shields not used as supplementary insulation	L.	N/A
1.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed	N'	N/A
1.11 (8.2.3.c)	Class III luminaires with exposed SELV parts:		N/A
	Ordinary luminaire:	L.	N/A
	- touch current:		N/A
	- no-load voltage:	in i	N/A
	Other than ordinary luminaire:	V	N/A
	- nominal voltage:		N/A
1.11 (8.2.4)	Portable luminaire have protection independent of supporting surface	Fixed luminaires	N/A
1.11 (8.2.5)	Compliance with the standard test finger or relevant probe	, N	Р
1.11 (8.2.6)	Covers reliably secured		N/A
1.11 (8.2.7)	Discharging of capacitors $\geq 0,5~\mu F$		N/A
	Portable plug connected luminaire with capacitor	N	N/A
	Other plug connected luminaire with capacitor	i i	N/A
1	Discharge device on or within capacitor	V	N/A
	Discharge device mounted separately		N/A

1.12 (12)	ENDURANCE TEST AND THERMAL TEST		Р
1.12 (-)	If IP > IP 20 relevant test of (12.4) , (12.5) and (12.6) after (9.2) before (9.3) specified in 1.13	IP44	—
1.12 (12.3)	Endurance test:		Р

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Clause	Requirement + Test	Result - Remark	Verdic
		Robalt Roman	voraio
	- mounting-position:	Normal use	
	- test temperature (°C):	55 °C	
1	- total duration (h):	240 h	_
	- supply voltage: Un factor; calculated voltage (V):	1.1 X 40W	
	- lamp used:	E27 Incandescent lamp	—
l.12 12.3.2)	After endurance test:	N N	Р
	- no part unserviceable		Р
	- luminaire not unsafe	4,	Р
i	- no damage to track system		N/A
V	- marking legible	5. C	Р
	- no cracks, deformation etc.	5	Р
.12 (12.4) Thermal test (normal operation)	(see Annex 2)	Р
.12 (12.5) Thermal test (abnormal operation)	i l	N/A
1.12 (12.6) Thermal test (failed lamp control gear conditio	n):	N/A
l.12 12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)	A.	_
- 1	- case of abnormal conditions:	U U	—
5	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un	N	
V	- measured mounting surface temperature (°C) at 1,1 Un:	i.	N/A
	- calculated mounting surface temperature (°C):		N/A
	- track-mounted luminaires	in in	N/A
l.12 12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions:	1	—
1	- thermal link		N/A
Ch.	- manual reset cut-out	4	N/A
	- auto reset cut-out	5	N/A
1	- measured mounting surface temperature (°C)		N/A

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Clause	Requirement + Test Result - Remark	Verdic
À,		
	- track-mounted luminaires	N/A
1.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):	N/A
1.12 (12.7.1)	Luminaire without temperature sensing control	N/A
1.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	N/A
	Test method 12.7.1.1 or Annex W	_
6	Test according to 12.7.1.1:	N/A
	- case of abnormal conditions	
	- Ballast failure at supply voltage (V)	
i	- Components retained in place after the test	N/A
S	- Test with standard test finger after the test	N/A
	Test according to Annex V:	N/A
	- case of abnormal conditions	_
	- measured winding temperature (°C): at 1,1 Un	
0	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	_
i,	- calculated temperature of fixing point/exposed part (°C)	_
	Ball-pressure test:	N/A
	- part tested; temperature (°C)	N/A
11	- part tested; temperature (°C)	N/A
1.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA	N/A
	- case of abnormal conditions	
	- measured winding temperature (°C): at 1,1 Un	
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	
'n,	- calculated temperature of fixing point/exposed part (°C)	
	Ball-pressure test:	N/A
	- part tested; temperature (°C)	N/A
	- part tested; temperature (°C)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.			
1.12 (12.7.1.3)	Luminaire with short circuit proof transformers $\leq 10 \text{ VA}$	in,	N/A
	- case of abnormal conditions		
V	- Components retained in place after the test		N/A
	- Test with standard test finger after the test	S	N/A
1.12 (12.7.2)	Luminaire with temperature sensing control	i la	N/A
4	- thermal link	Yes 🗌 No 🗌 🕥	_
	- manual reset cut-out	Yes No	_
	- auto reset cut-out	Yes No	_
i	- case of abnormal conditions		
U.	- highest measured temperature of fixing point/exposed part (°C):	in,	_
	Ball-pressure test:		N/A
	- part tested; temperature (°C)		N/A
	- part tested; temperature (°C):	5	N/A

1.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS A	ND MOISTURE	Р
1.13 (-)	If IP > IP 20 the order of the test specified in clause 1.12		Р
1.13 (9.2)	Tests for ingress of dust, solid objects and mo	isture:	Р
	- classification according to IP:	IP44	—
	- mounting position during test		
V	- fixing screws tightened; torque (Nm):	1	
	- tests according to clauses:	C.	_
	- electric strength test afterwards		Р
	a) no deposit in dust-proof luminaire	4. 7	N/A
L)	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard	N'	N/A
5	d) i) For luminaires without drain holes – no water entry	i.	N/A
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
17.			I
	f) no contact with live parts (IP 2X)	1	N/A
	f) no entry into enclosure (IP 3X and IP 4X)	5	P
	f) no contact with live parts (IP3X and IP4X)		Р
	g) no trace of water on part of lamp requiring protection from splashing water	Z	Р
	h) no damage of protective shield or glass envelope	i i	Р
1.13 (9.3)	Humidity test 48 h	93% 25°C	Р

1.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH				
1.14 (10.2.1)	Insulation resistance test				
	Cable or cord covered by metal foil or replaced by a metal rod of mm \emptyset :	Covered by metal foil			
	Insulation resistance ($M\Omega$)				
	SELV:	in in	N/A		
i.	- between current-carrying parts of different polarity		N/A		
	- between current-carrying parts and mounting surface:	5 5	N/A		
5	- between current-carrying parts and metal parts of the luminaire:	i.	N/A		
5	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:		N/A		
	- Insulation bushings as described in Section 5	Not used	N/A		
	Other than SELV:	1	Р		
	- between live parts of different polarity:	>100 MΩ	Р		
7	- between live parts and mounting surface:	>100 MΩ	Р		
	- between live parts and metal parts:	>100 MΩ	Р		
in,	- between live parts of different polarity through action of a switch:	1	N/A		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	N'	N/A		

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Clause	Requirement + Test	Result - Remark	Verdict
U.	- Insulation bushings as described in Section 5	in,	N/A
1.14 (10.2.2)	Electric strength test		Р
	Dummy lamp	4,	N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors	i la	N/A
4	Test voltage (V):	2	N/A
-	SELV:		N/A
2	- between current-carrying parts of different polarity:	N'	N/A
5	- between current-carrying parts and mounting surface:		N/A
	- between current-carrying parts and metal parts of the luminaire:	L.	N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	in in	N/A
	- Insulation bushings as described in Section 5	4,	N/A
1	Other than SELV:	L L	Р
5	- between live parts of different polarity:	1480 V/1 min	Р
	- between live parts and mounting surface:	1480 V/1 min	Р
	- between live parts and metal parts:	1480 V/1 min	Р
V	- between live parts of different polarity through action of a switch:	No switch used	N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	i in	Р
i.	- Insulation bushings as described in Section 5	L.	N/A
1.14 (10.3) Touch current or protective conductor current (mA):		Р

1.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING	(Approved driver)	Р
1.15 (13.2.1)	Ball-pressure test:	V	P

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深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co.,Ltd. United Testing Technology(Hong Kong) Limited

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	IEC 60598-2-1_ATTA	CHMENT	
Clause	Requirement + Test	Result - Remark	Verdict
17.			T
V	- part tested; temperature (°C)	Enclosure, 125°C,1.1mm	Р
	- part tested; temperature (°C)	Terminal, 125℃,0.9mm	Ρ
0	- part tested; temperature (°C)	Lampholder, 125°C, 0.9mm	Р
1.15 (13.3.1)	Needle flame test (10 s):	N N	Р
	-part tested	: Terminal	Р
	-part tested	1	N/A
1.15 (13.3.2)	Glow-wire test (650°C):		N/A
-	- part tested	: Lampholder no flame no burning	Р
5	-part tested	: Enclosure box no flame no burning	Р
1.15 (13.4.1)	Tracking test:	C.	N/A

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IEC 60598-2-1_ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	

ANNEX 1: components

				10 March 10		
object/part No.	code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
E27 lampholder	A	VLM Asia Limited	78N	250V	AS/NZS 60238.2.004	ESV130456/ 00
-Alt.	А	-	SZ-2701	250V 4A T210	AS/NZS 60238	SAA13116 1EA
Internal wire	A	Zhongshan Henglan Boyi Electrical Appliacne Factory	H03VVH2-F	2X0.50mm ²	AS/NZS 60227	SAA13052 7EA
Terminal block	A	Foshan Shunde Jinjin Electrical CO.,LTD	KZ8-PA10	450V 35A	EN 60998-1 EN 60998-2-1	VDE 40018824

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 authorized by the test house
- C Integrated component tested together with the appliance
- D Alternative component

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IEC 60598-2-1_ATTACHMENT				
Clause	Requirement + Test		Result - Remark	Verdict

	ANNEX 2': temperature measurements, the	rmal tests of Section 12	Р
	i i		V
	Type reference	YF2004X	
	Lamp used	E27 Incandescent lamp	
	Lamp control gear used	4	
	Mounting position of luminaire	See user manual	
C)	Supply wattage (W)	-	_
	Supply current (A):		_
5	Calculated power factor		
5	Table: measured temperatures corrected for ta	a = 45 °C:	Р
	- abnormal operating mode:	1	
	- test 1: rated voltage:	N/A	
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	1.05 X 40W	
6	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	N/A	
i.	- test 4: 1,1 times rated voltage or 1,05 times rated wattage	N/A	
5	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	

temperature (°C) of part		Clause 12	2.4 – norm	al	Clause 12.	5 – abnormal
	test 1	test 2	test 3	limit	test 4	limit
Terminal block	-	48.6		80	-	-
Internal wire		51.3		90	-	
Lampholder Rim		95.8		210	-	5 -
Lampholder Contact		82.3	1	210		
Lampholder wire		79.7		90	2	- 1
Mounting surface	-	45.6	-	90		

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	IEC 60598-2-1_ATTACHMENT					
Clause Requirement + Test Result - Remark						

ANNEX 2": temperature measurements, thermal tests of Section 12

15	Type reference	YF2004P	—
	Lamp used	E27 Incandescent lamp	
	Lamp control gear used		
	Mounting position of luminaire	See user manual	
	Supply wattage (W)	7	
	Supply current (A)	-	_
	Calculated power factor	·	
i	Table: measured temperatures corrected for ta	a = 45 °C:	Р
5	- abnormal operating mode	6	
	- test 1: rated voltage	N/A	
1	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	1.05 X 40W	—
C.	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	N/A	
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage	N/A	—
نی	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—
10 M			

temperature (°C) of part	(Clause 12	2.4 – norm	nal	Clause 12.	5 – abnormal
	test 1	test 2	test 3	limit	test 4	limit
Terminal block	-	46.5		80	-5	-
Internal wire		50.7		90	-	-
Lampholder Rim		89.6		210	-	
Lampholder Contact		75.4		210		5
Lampholder wire		66.9	1	90		
Mounting surface	-	45.6	- `	90	5-	1

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IEC 60598-2-1_ATTACHMENT				
Clause	Requirement + Test	Result - Remark	Verdict	

	ANNEX 3: screw terminals (part of the lumit	naire)	N/A
15			
(14)	SCREW TERMINALS	L.	N/A
(14.2)	Type of terminal:	L'	
	Rated current (A):		
(14.3.2.1)	One or more conductors	4, 2	N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size	i.	N/A
	Cross-sectional area (mm ²):		N/A
(14.3.3)	Conductor space (mm):		N/A
(14.4)) Mechanical tests		N/A
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread):	Μ	N/A
	External wiring	2.7	N/A
1	No soft metal		N/A
(14.4.5)	Corrosion	i.	N/A
(14.4.6)	Nominal diameter of thread (mm):	L'	N/A
5	Torque (Nm):		N/A
(14.4.7)	Between metal surfaces	. 1	N/A
	Lug terminal		N/A
	Mantle terminal	i.	N/A
	Pull test; pull (N)	7, 7	N/A
(14.4.8)	Without undue damage		N/A

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	IEC 60598-2-1_ATTACHMENT					
Clause	Requirement + Test		Result - Remark	Verdict		

	ANNEX 4: screwless terminals (part of the lu	iminaire)	N/A
	i a		
(15)	SCREWLESS TERMINALS	i.	N/A
(15.2)	Type of terminal	L.	
	Rated current (A)	6	
(15.3.1)	Material	J 1	N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop	i.	N/A
(15.3.4)	Unprepared conductors	L.	N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method	i.	N/A
(15.3.7)	Clamping independently	G	N/A
(15.3.8)	Fixed in position	4	N/A
(15.3.10)	Conductor size	4.	N/A
	Type of conductor		N/A
(15.5.1)	Terminals internal wiring	i	N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples):	5	N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	in,	N/A
	Insertion force not exceeding 50 N		N/A
(15.5.2)	Permanent connections: pull-off test (20 N)		N/A
(15.6)	Electrical tests	S	N/A
	Voltage drop (mV) after 1 h (4 samples):		N/A
	Voltage drop of two inseparable joints	i n	N/A
1	Number of cycles	L.	
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples):	in,	N/A
in,	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	N/A
1	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)		N/A

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		2	I	EC 6059	8-2-1_A	ГТАСНМ	ENT	1			
Clause	Require	ement + Te	est				Result	- Remark		S	Verdict
(15.7)	Torm	ingle ovte	rpolwir	ina							N/A
(15.7)		inals exte		•	5			in,			N/A
-		est spring		•	or weld	ed					N/A
(10.0.1)		ections (4									
		est pin or N)							5		N/A
(15.9)	A	act resista					in				N/A
6	Volta	ge drop (mV) afte	er 1 h					1	2	N/A
terminal	•	1	2	3	4	5	6	7	8	9	10
voltage dro	op (mV)		-		3	-	-	1	-	-	
j_	١	/oltage di	op of tw	o insepa	arable jo	oints				1	5
Vo		/oltage di	op after	10th alt	. 25th c	ycle			0		-
	Ν	Max. allov	ved volta	age drop	o (mV)	:		13			
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	op (mV)	-	- \	-	-		3 -	-	-	-	-
	١	/oltage di	op after	50th alt	. 100th	cycle			V	a.19	-
0	Ν	Max. allow	ved volta	age drop	o (mV)	:					
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	op (mV)	- ,	-	-	-	-	-	-	-	2	-
V	C	Continued	ageing	: voltage	e drop at	fter 10th	alt. 25t	h cycle			-
	Ν	Max. allow	ved volta	age drop	o (mV)	:		5			
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop (mV)		-	5	-	-	2	-	-	1	-	-
	C	Continued	lageing	: voltage	e drop at	fter 50th	alt. 100	th cycle)			-
	M	Max. allow	ved volta	age drop	o (mV)	:	-				
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	op (mV)	-	-	-	-	-	-	-	- 1	-	-

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IEC 60598-2-1_ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		
			•		

Attachment 1: Variations to IEC 60598-1, Ed. 7.0 (2008) for AS/NZS 60598.1:2013

ZZ1	SCOPE		Р
ZZ2	VARIATIONS	2	Р
1.1 (0)	SCOPE		Р
0.1	LED light sources are subject to the same test parameters as "other discharge lamps	نی	N/A
0.2	normative references		Р
0.4.2	In Australia, for equipment, other than class III equipment, that is intended for connection to the supply mains and not marked with:	J 1	Ρ
	-a rated voltage of at least 240 V for single-phase equipment or a rated voltage of at least 415 V for three-phase equipment; or	N	N/A
	-a rated voltage range that includes 240 V for single- phase equipment and 415 V for three-phase equipment,	220-240V ~	Ρ
نى	the rated voltage is equal to 240 V for single-phase equipment and 415 V for three-phase equipment, and the upper limit of the voltage range is equal to 240 V for single-phase equipment and 415 V for three-phase equipment.		N/A
05	Throughout this document, where there is a relevant Australian/New Zealand Standard, it replaces the IEC Standard unless otherwise specified.	2	N/A
0.5.2A	Capacitors shall comply with Clause 4.2A.	ia.	N/A
1.2(1.2.87)	installation coupler		N/A
1.2(1.2.88)	installation male connector	نی	N/A
1.2(1.2.89)	installation female connector	i.	N/A
1.2(1.2.90)	installation coupler system		N/A
2.2	Class 0 luminaires are not allowed in Australia or New Zealand.	Class I	N/A
3.1	Move Item 3.2.21 from the center column to the right hand column.		P

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	IEC 60598-2-1_ATTACHMEI	NT	1
Clause	Requirement + Test	Result - Remark	Verdict
3.2.12	In Australia, luminaires for household use and similar with supply cords which are not fitted with plug shall be marked with a cord tag with the sym for "must be installed by a licensed electrician".		N/A
3.3	In Australia and New Zealand, instructions and ot texts required by this Standard shall be written in English.		P
3.3.7	Luminaires for use with metal halide lamps shall have provided with instructions that state the substance the following:		N/A
, N	-complete with its protective shield; or		N/A
	-with a double jacketed lamp.	i.	N/A
3.3.21	The instructions shall contain details related to components in the luminaire that require replacement as part of a maintenance program.		N/A
4.8	Switches that indicate an off position shall have contacts with an air break and comply with AS/NZ 3133 or AS/NZS 61058.1.	zs	N/A
4.2A	CapacitorsType	121	N/A
5.2.1	Luminaires shall be provided with only one of the following means of connection and isolation to the supply.		Р
(1)	Fixed luminaires:		P
~	- device for the connection of luminaires;		N/A
	 terminals; plug for engagement with socket- outlets; 	N	Р
	 — connecting lead (tails); 	4	N/A
4	 adapter for engagement with supply tracks; 		N/A
5	- appliance inlet;		N/A
	— installation coupler;	4	N/A
	- Iuminaire coupler; Portable Iuminaires:		N/A
5	— supply cord with plug;		N/A
	— appliance inlet.	n.	N/A
	Track-mounted luminaires:		N/A

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	IEC 60598-2-1_ATTA	CHMENT	1	6
Clause	Requirement + Test	Result	- Remark	Verdict
5	in the second se			
	— adaptor;		in i	N/A
	— connector.		L	N/A
(3)	In Australia, non-portable luminaires with a cord shall be fitted with a plug complying w AS/NZS 3112 or a coupler complying with standard, except where the luminaire has a and instructions that comply with Clause 3 which case, a plug or coupler is not require However, for other than portable luminaire not required if the luminaire has markings instructions in accordance with Clause 3.2	vith its markings .2.12, in ed. s a plug is and	نی	N/A
	The plug portion of a luminaire with integra shall comply with the relevant requirement AS/NZS 3112.		L.	N/A
5.2.2	1-Supply cords used as a means of conner the supply, when supplied by the luminaire manufacturer, shall be at least equal in the mechanical and electrical properties to tho specified in IEC 60227 and IEC 60245, as in Table 5.1, or AS/NZS 3191, and shall be of withstanding, without deterioration, the h temperature to which they may be exposed normal conditions of use.	ir se indicated capable nighest	نی ن	N/A
نی	3-To provide adequate mechanical strength, the nominal cross-sectional area of the conductors shall be not less than: 0,75 mm2; 1,0 mm2 for portable rough service luminaires.		N/A	
5.2.16	Class II luminaires for fixed wiring incorpor appliance coupler shall not have means to further luminaires to be connected, includin in by cascading.	allow	نى	N/A
	Luminaire couplers incorporated with the lush shall comply with IEC 61995-1.	uminaire		N/A
5.2.18	All portable luminaires with a flexible suppl shall be fitted with a plug complying with A 3112. Other luminaires with flexible cords a fitted with a plug complying with AS/NZS 3 unless they have the warning allowed by C 3.2.12.	S/NZS shall be 112,		N/A

 3.2.12.
 3.2.12.

 5.2.19
 Installation couplers incorporated within luminaires shall comply with the requirements of AS/NZS 61535.

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	IEC 60598-2-1_ATTACH	MENT	4	4
Clause	Requirement + Test	Resul	t - Remark	Verdict
J.	Luminaires incorporating installation couplers have means to allow further luminaires to be connected by cascading provided the through is rated for the current rating of the installation coupler.	wiring	لم	N/A
5.3.1	1-Internal wires coloured green, yellow or green/yellow combination shall be used for ma protective earth connections only. Functional of connections shall not be made by wires colour green, yellow or green/yellow combination.	earth		Р
5	2-NOTE 3 Internal wires of other colours are precluded from making protective earthing connections.	not	N,	N/A
7.2.11	All conductors, whether internal or external, construction, yellow or green/yellow combination, shube connected to an earthing terminal.		ig.	Р
8.2.1	Luminaires shall be so constructed that their lip parts and basic insulation are not accessible with the luminaire has been installed and wired as normal use. Live parts shall not be accessible the luminaire is opened as necessary for replace lamps, replaceable light sources or (replaceable starters, even if the operation cannot be achiec hand.	vhen in when acing ble)		P
3	NOTE Examples of parts with basic insulatio cables intended for internal wiring, controlgear building-in etc.		, NI	Р
2	This does not apply to the non-current -carryir parts of caps which comply with the relevant I safety standard.		ia.	N/A
L' L'	Where a protective cover is used over a non-ureplaceable light source to provide protection electric shock, and the cover is marked with the "caution, electric shock risk" symbol in accordation with IEC 60417-6042, the cover shall be left in during the tests and inspections detailed by Set 8 of this Standard. The cover shall be held set in position by fixings requiring the use of a too their removal, and at least two independent fix shall be used.	against ne ance n place ection curely I for	Non-user-replaceable	P

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	IEC 60598-2-1_ATTACHMEI	NT	2
Clause	Requirement + Test	Result - Remark	Verdict
TABLE 12.1	NOTE Luminaire manufacturers should consider the maximum ambient air temperature in the vicin of components such as starting devices and electronic ballasts or converters. Component performance specifications advise manufacturers mark or supply life data as maximum ambient air temperature based on 50,000 hrs. This t-life is oft marked as ta and is the temperature of the air in the vicinity of the component and is not related to the luminaire ta. As such, luminaire manufacturers should measure air temperature in the vicinity of	to ten the	N/A
	such components, within the luminaire, as even those complying with their tc point measurements can still fail prematurely if t-life is exceeded	iی :	Å,
CLAUSE	Resistance to flame and ignition:		
13.3	Parts of non-metallic material shall be resistant to flame and ignition.	i si	Р
1	For materials other than ceramic, compliance is checked by the tests of 13.3.1 and 13.3.2, 13.3.3 and 13.3.4, as appropriate.	ia.	Р
	This requirement does not apply to decorative trinknobs, wiring insulation and other parts not likely be ignited or to propagate flames from inside the luminaire.		P
S	This Clause applies to all parts, including components, even if they have been tested to the own standard.	ir N	Р
13.3.1	Parts of non-metallic material supporting connections shall withstand the following test:	Lampholder, enclosu	ire
	Parts are subject to a test using a nickel-chromiun glow-wire.	m vi	Р
	The test apparatus and test procedure shall be th described in AS/NZS 60695.2.10.	ose	Р
i,	The glow wire is heated to 750 °C and applied to test sample for 30 s.	the	Р
N	For all tests, any flame or glowing of the sample shall extinguish within 30 s of withdrawing the glo wire, and any burning or molten drop shall not ign a single layer of tissue paper specified in 4.187 of ISO 4046-4:2002, spread out horizontally 200 mn 5 mm below the sample.	nite f	P

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	IEC 60598-2-1_ATTACHI	1 1 1		i i
Clause	Requirement + Test	Result	t - Remark	Verdict
5	i i i i i i i i i i i i i i i i i i i			
13.3.2	All other parts of non-metallic material shall withstand the following test		N	Р
N.	Parts are subject to a test using a nickel-chron glow-wire.	nium		Р
	The test apparatus and test procedure shall be described in AS/NZS 60695.2.10.	e those	2	Р
	The glow wire is heated to 650 °C and applied test sample for 30 s.	to the		Р
نی	For all tests, any flame or glowing of the samp shall extinguish within 30 s of withdrawing the wire, and any burning or molten drop shall not a single layer of tissue paper specified in 4.187 ISO 4046-4:2002, spread out horizontally 200 5 mm below the sample.	glow- ignite 7 of	Ŋ	Ρ
13.3.3	During the application of the 750 °C glow wire Clause 13.3.1, if a flame is produced that pers longer than 2 s, the luminaire is further tested follows:	ists for	S	N/A
in.	The needle-flame test of AS/NZS 60695.11.5 is applied to non-metallic parts that encroach wit envelope of a vertical cylinder having a diamet 20 mm and a height of 50 mm above the point application of the glow wire. The needle flame applied to the test sample for 30 s.	hin the ter of of	5	N/A
	Parts shielded by a barrier that meets the need flame test of AS/NZS 60695.11.5 are not tested		N	N/A
U	The duration of burning shall not exceed 30 s a removal of the test flame and any burning drop not ignite the underlying parts or tissue paper specified in 4.187 of ISO 4046-4:2002, spread horizontally 200 mm \pm 5 mm below the sample	o shall out	N	N/A
,i	The needle-flame test is not carried out on par are made of material classified as V-0 or V-1 according to AS/NZS 60695.11.10. The sampl material classified in accordance with AS/NZS 60695.11.10 shall be no thicker than the releva part.	e of	Ň	N/A
13.3.4	PCBs in luminaires shall be subject to the need flame test of AS/NZS 60695.11.5. The needle shall be applied for 30 seconds to an edge of t PCB at least 10 mm from a corner.	flame		N/A

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	IEC 60598-2-1_ATTACHMENT					
Clause	Requirement + Test Result - Remark		Verdict			
15	The duration of burning shall not exceed removal of the needle flame and any bu droplets shall not ignite the tissue paper underneath the PCB.	rning	N/A			
	The needle-flame test is not carried out made of material that is V-0 rated accor AS/NZS 60695.11.10.		N/A			

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IEC 60598-2-1_ATTACHMENT					
Clause	Requirement + Test	Result - Remark	Verdict		

	Attachment 2: Variations to IEC 60598-2-1:1979+A1:1987 for application in Australia and New Zealand (AS/NZS 60598.2.1:2016)	P		
1	SCOPE	Р		
5	CLASSIFICATION OF LUMINARES			
6	MARKING	Р		
iر ا	LED luminaires with G5 or G13 lampholders shall be marked with the following warning: WARNING: NOT FOT USE WITH ANY FLUORESCENT LAMP-FOR USE ONLY WITH TYPE X LED LAMPS			
7	CONSTRUCTION	N/A		
	LED luminaires with G5 and G13 lampholders shall include a fuse to protect a fluorescent lamp that is inadvertently installed:	N/A		
	Be of the 250V HRC type	N/A		
	Have a 0.5 A max. quick-acting type rating	N/A		
	Be used to protect a maximum of two lamps	N/A		
8	CREEPAGE DISTANCES AND CLEARANCE	Р		
9	PROVISION FOR EARTHING	P		
10	TERMINALS	Р		
11	EXTERNAL AND INTERNAL WIRING	Р		
12	PROTCETION AGAINST ELECTRONIC SHOCK	Р		
13	ENDURANCE TESTS AND THERMAL TESTS	Р		
14	RESISTANCE TO DUST AND MOISTURE	Р		
15	INSULATION RESISTANCE AND ELECTRONIC STRENGTH	P		
16	RESISTANCE TO HEAT, FIRE AND TRACKING	N/A		

APPENDIX A	N/A
SAFETY REQUIREMENTS FOR DOUBLE-CAPPED LED LAMPS	N/A

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N/A

N/A

IEC 60598-2-1_ATTACHMENT						
Clause	Requirement + Test	Result - Remark	Verdict			
1						

APPENDIX B SAFETY REQUIREMENTS FOR T8 TO T5 LAMP CONVERTERS

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Attachment 3: Photographs of test samples





Figure 1 overall



Figure 2 rear

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Figure 4 internal

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Figure 5 the earth terminal



Figure 6 terminal markings of the the EUT

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Figure 7 overall of the additional molde YF2004P



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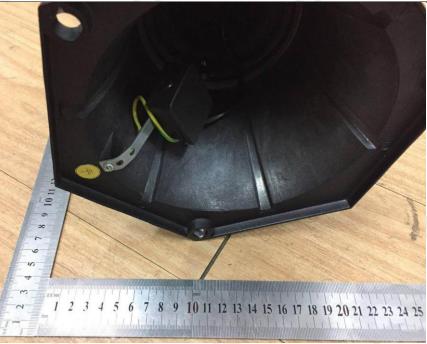


Figure 9 internal of the additional molde YF2004P

Figure 10 internal of the additional molde YF2004P

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