

# **TEST REPORT**

То:	SHENZHENINNO ECH		То:	5	
A 44	LIGHTING CO., LIMITED		A 11		
Attn:	provide a factor of the second		Attn:	-	
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	This document includes: 35 pa	iges/ ar	nnex1: instruction	sheet	
Factory name:	Same as applicant		Offer:	ASCV-19SE16-001 LTSZP-A0	
Location:	Same as applicant		Sample No:	-	
			Start date:	September 11, 2019	
			Finish date:	September 18, 2019	
Se	e picture on page 6 to 14		Standards used: (Date):	EN 60598-1 :2015+A 1:2018 EN 60598-2-1: 1989 EN 62493:2015	
			Sections examined:	All sections Details see page 2	
			Re-testing:	None	
Me	LED Tri-proof Light odel: See model list on page 3		Remark / Note:	None	
The results give	ven in this report are related to the tes	sted sp	ecimen of the des	scribed electrical apparatus.	
CONCLUSION: T	he samples comply with the requirem	ents of	the examined sta	andards after modification.	
Test done by,		Approv	ved by,	711 200	
Lie			Centre & E & E		
Engineer: Lina WU Senior			or Engineer: Kevin WU		
Date: September 18, 2019 Date: S			September 18, 201		
This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.					

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### **HISTORICAL OF SAMPLE RECEIVED**

LCIE CHINA RECORDED N°	DETAIL OF THE SAMPLE	SPECIAL REMARKS

### **EXAMINED SECTIONS**

The product covered in this report is class I fixed luminaire intended to indoor and outdoor use.

The report is Co-report based on original report KPK-18NO269LCZP-1 dated on March 14, 2019 for update the applicant and model number.

The tests have been performed on the product: models see model list on page 3.

All models have similar construction and use same LED chip. The major differences among them are the model no., dimension, wattage and LED quantity.

All models can be the interconnected lighting, the use of external or interconnecting cable is  $3 \times 2.5 \text{ mm}^2$  for 3000W of maximum power of luminaires that may be interconnected; the use of external or interconnecting cable is  $3 \times 1.5 \text{ mm}^2$  for 2000W of maximum power of luminaires that may be interconnected.

According to information of model list, we perform tests as below: Full tests for model IT-LTF-5F-60W(Linkable); Sections 0 to 8, 11, 12.3 and 12.4 for model IT-L9-5F-60W(Linkable); Sections 0 to 8, 11 and 12.4 for models IT-LTF-20W, IT-LTF-4F-40W, IT-LTF-5F-50W; Sections 0 to 8, 11 for other models

These products have been evaluated according to EN 62471:2008 and classified as exempt group, see test report: ASCV-19SE1360LTSZP dated on September 18, 2019 for details;

These products have been evaluated according to IEC/TR 62778:2014 and classified as Risk Group 0, see test report: ASCV-19SE1360LTSZP-1 dated on September 18, 2019 for details;

All sections of EN 62493:2015 have been evaluated. According to clause 4.2 and Annex H, because the samples are LED-light-source technology, so, all samples were deemed to comply with the requirements of this standard without testing because it fulfills the inherent-compliance conditions;

The LED module has been evaluated according to EN 62031:2008+A1:2013+A2:2015.

The sample listed (models see model list on page 3) is covered by the conclusion on page 1.

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#### Model list:

Model No.	Rated Voltage (V)	Rated power (W)	LED driver	LED quanti ties (pcs)	numb intercor lumin	mum per of nnected naires ps) P <sub>Max.</sub> 2000W	ССТ	Size (mm)
IT-LTF-20W								
IT-LTF- 20W(Linkable)		00	BK-CHL024-	144	131	87		623 x 75
IT-L9-2F-20W		20	0550					x 60
IT-L9-2F- 20W(Linkable)				144	131	87		
IT-LTF-4F-40W								
IT-LTF-4F- 40W(Linkable)		40	BK-CHL042-	288	72	48		1223 x 75
IT-L9-4F-40W		40	1050				4000K,	x 60
IT-L9-4F- 40W(Linkable)	220-			288	72	48		
IT-LTF-5F-50W	240V ~ 50/60Hz						5000K, 6000K	
IT-LTF-5F- 50W(Linkable)		50	BK-CHL050-	432	48	32		1523 x 75
IT-L9-5F-50W		30	1250					x 60
IT-L9-5F- 50W(Linkable)				432	48	32		
IT-LTF-5F-60W								
IT-LTF-5F- 60W(Linkable)		60	BK-CHL060-	432	48	32		1523 x 75 x 60
IT-L9-5F-60W			1500					7 00
IT-L9-5F- 60W(Linkable)			) IT LO 2E 20W/	432	48	32		

Note: models IT-LTF-20W(Linkable), IT-L9-2F-20W(Linkable), IT-LTF-4F-40W(Linkable), IT-L9-4F-40W(Linkable), IT-LF-5F-50W(Linkable), IT-L9-5F-50W(Linkable), IT-L9-5F-60W(Linkable), IT-L9-5F-60W(Linkable) can be interconnected.



## **COPY OF RATING PLATE:**

Representive rating label (Taken IT-L9-5F-60W to example)

**LED Tri-proof light** 

Model: IT-L9-5F-60W

Input Voltage: 220-240V~50/60HZ

Dimension: 1500mm

Power: 60W Ta:45°C CCT: 5000K CRI: >80 Beam Angle: 120°

IP Grade: IP65 Material: PC Date: 201908  $\epsilon$ 

RoH



Location: Affixed on position where visible during installation

Input

Location: affixed on enclosure near input connector, visible during installation

Output

Max quantity of Interconnecting 48 pcs;

Max. 3000 W

Location: affixed on enclosure near output connector, visible during installation

L 🖫 N

Location: Printed on input connector, visible during installation.



Location: affixed on enclosure, visible during re-lamping

### Note:

- 1, Rating labels for other models have same format, except different model number, rated power and some technical parameters, details see model list on page 3.
- 2, The height of the numeral and letter is not less than 2 mm; the symbol of "WEEE" is not less than 7 mm and the height of other symbol is not less than 5 mm.
- 3. The height of symbol of "cation, risk of electrical shock" is not less than 15 mm.

Only markings in English Language present on the sample tested were checked and validated during this examination.

The text required by the standard should be translated into the official language of the country where the appliance will be sold.

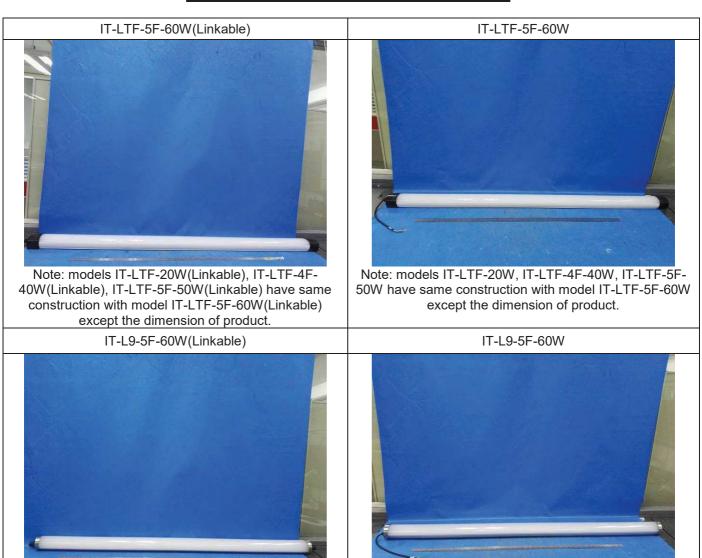


## MARKING OF TRANSFORMER:





## PICTURE OF THE SAMPLE TESTED:



Note: models IT-L9-2F-20W(Linkable), IT-L9-4F-40W(Linkable), IT-L9-5F-50W(Linkable) have same construction with IT-L9-5F-60W(Linkable) except dimension of product.

Note: models IT-L9-2F-20W, IT-L9-4F-40W, IT-L9-5F-50W have same construction with IT-L9-5F-60W except dimension of product.

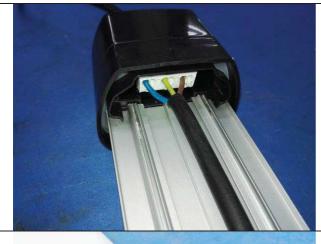


Detail construction for models IT-LTF-20W, IT-LTF-4F-40W, IT-LTF-5F-50W, IT-LTF-5F-60W

Note: models IT-LTF-20W, IT-LTF-4F-40W, IT-LTF-5F-50W, IT-LTF-5F-60W are the same, the major difference among them are the model no., dimension, wattage and LED quantity.







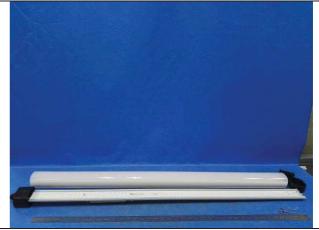












Detail construction for models IT-LTF-20W(Linkable), IT-LTF-4F-40W(Linkable), IT-LTF-5F-50W(Linkable), IT-LTF-5F-5W(Linkable), IT-LTF-5F-5W(Linkable), IT-LTF-5F-5W(Linkable), IT-LTF-5F-5W(Linkable), IT-LTF-5F-5W(Linkable), IT-LTF-5W(Linkable), IT-LTF-5W(

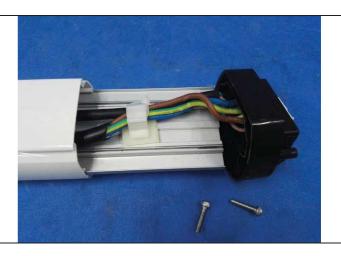
Note: models IT-LTF-20W(Linkable), IT-LTF-4F-40W(Linkable), IT-LTF-5F-50W(Linkable), IT-LTF-5F-60W(Linkable) are the same, the major difference among them are the model no., dimension, wattage and LED quantity.











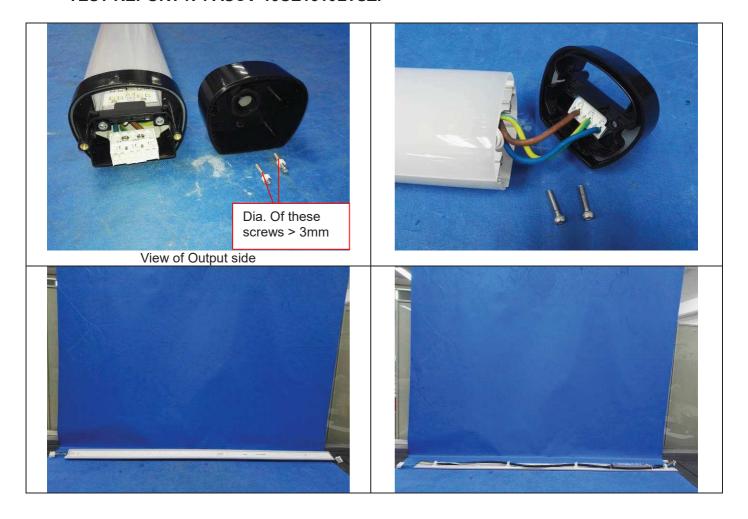
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Detail construction for models IT-L9-2F-20W, IT-L9-4F-40W, IT-L9-5F-50W, IT-L9-5F-60W

Note: models IT-L9-2F-20W, IT-L9-4F-40W, IT-L9-5F-50W, IT-L9-5F-60W are the same, the major difference

among them are the model no., dimension, wattage and LED quantity.



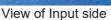


None

Detail construction for models IT-L9-2F-20W(Linkable), IT-L9-4F-40W(Linkable), IT-L9-5F-50W(Linkable), IT-L9-5F-60W(Linkable)

Note: models IT-L9-2F-20W(Linkable), IT-L9-4F-40W(Linkable), IT-L9-5F-50W(Linkable), IT-L9-5F-60W(Linkable) are the same, the major difference among them are the model no., dimension, wattage and LED quantity.











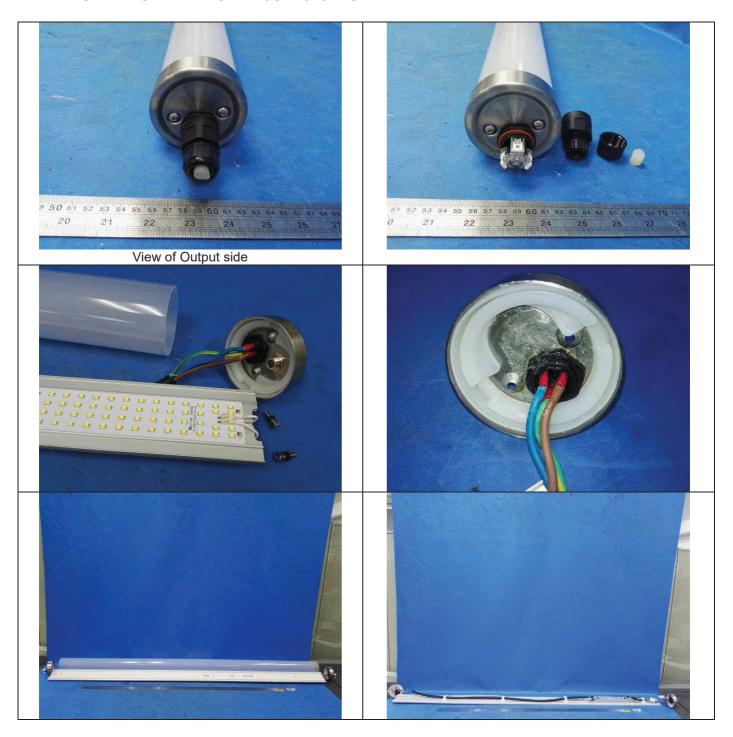
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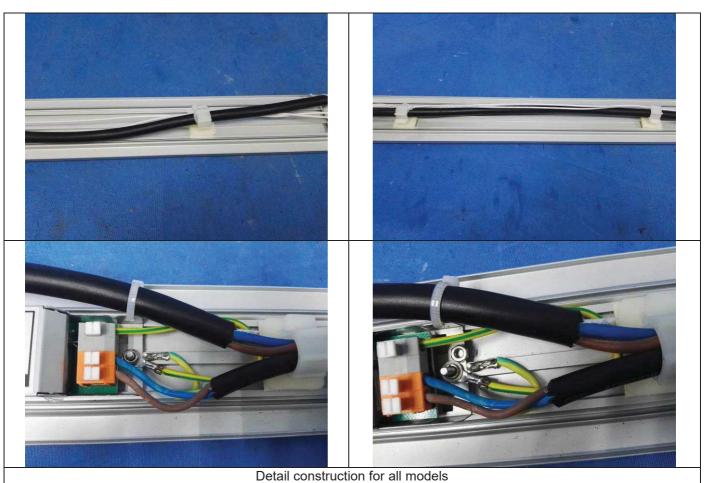
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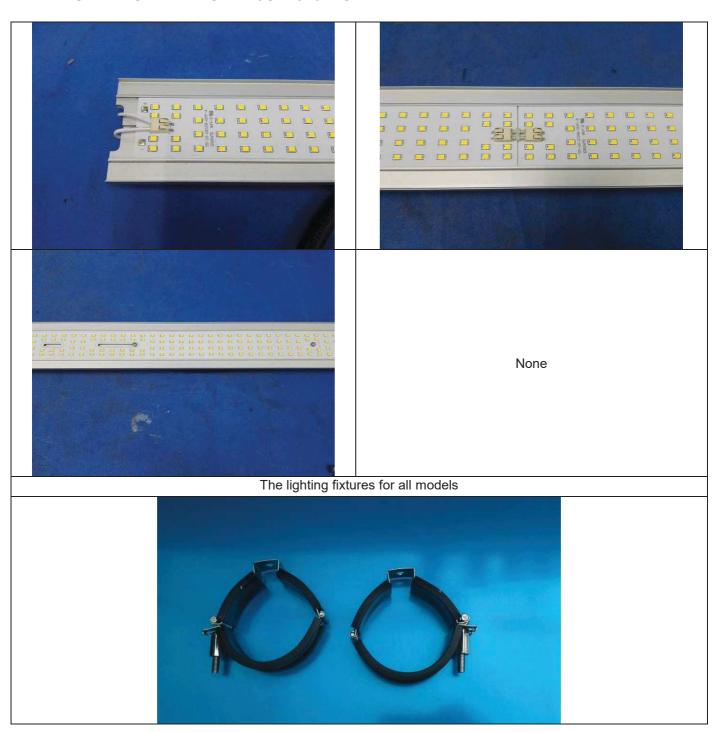












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DESCRIPTION	
Trademark:	
Type of light source	Non-user replaceable LED light sources
Type of appliance:	Fixed luminaire
Type / model:	See model list on page 3
Color of enclosure:	See picture on page 6 to 14
Rated Voltage (V):	220-240 V
Nature of supply:	~
Rated power (W)	Details see model list on page 3
Class of protection against electrical shock:	Class I
Degree of protection against moisture:	IP65
CE marking:	Present
Type of switch:	NA
Type of fixation (X, Y, M, Z):	NA
Marking on knobs:	NA
Supply connection:	Terminal block for interconnected luminaires
Supply connection:	Lead wire(tail) for Non- interconnected luminaires
Other information about appliance:	NA
Accessory provided with the luminaire:	Instruction sheet

Possible test case verdicts:	
- Test object does meet the requirement	P (Pass)
- Test case does not apply to the test object	NA (Not applicable)
- Test object does not meet the requirement	F (Fail)
- Test object does not demand	ND (Not demanded)
General remarks:	

"(See remark #)" refers to a remark appended to the report.

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



	EN 60598-1		
Section	Requirement Test	Result – Value – Remark	Verdict
0	COMPONENTS OF LUMINAIRES		Р
	Components comply with the requirements of the		Р
2	relevant standards (see page 23-25/35)  CLASSIFICATION		P
2	. Compliance of the classification	T	P
3	MARKING		P
3			P
	Marking on the luminaires     Other requirements		P
4	CONSTRUCTION		P
4.2		T	NA
4.2	- Replaceable components		P
4.4	- Wire ways - Lamp holders		NA NA
4.4	- Starter holders		
	- Starter holders - Terminal blocks		NA NA
4.6			NA P
	- Terminals and supply connections - Switch		-
4.8	2 111211		NA D
4.9	- Insulating linings and sleeves		P
4.10	- Double and reinforced insulation		NA
4.11	- Electrical connections and current-carrying parts		Р
4.12	-Screws and connections (mechanical), glands		Р
4.13	- Mechanical strength	1	Р
4.14	- Suspensions and adjusting devices (1)		Р
4.15	- Flammable materials		Р
	- Luminaires for mounting on normally flammable		Б
4.16	surfaces		P
4.17	- Drain holes		NA
4.18	- Resistance to corrosion		NA
4.19	- Ignitors		NA
4.20	- Rough service luminaires		NA
	- Vibrations requirements		NA
4.21	- Protective shield		NA
4.22	- Attachments to lamps		NA
4.23	- Semi- luminaires		NA
4.24	- Photobiological hazards	GR0	Р
4.25	- Mechanical hazard		Р
4.26	- Short-circuit protection		NA
4.27	- Terminal blocks with integrated screwless		NA
	earthing contacts		
4.28	Fixing of thermal sensing controls		NA
4.29	Luminaire with non-replaceable light source		NA
4.30	Luminaires with non-user replaceable light		Р

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EN 60598-1						
Section	Requirement Test	Result – Value – Remark	Verdict			
		•				
	sources					
4.31	Insulation between circuits		Р			
4.32	Overvoltage protective devices		NA			

<sup>1.</sup> Frequently adjusted [] occasionally adjusted [] adjusted during installation only []

11	CREEPAGE DISTANCES AND CLEARANCES					
	Minimun	n distances (m	nm)	Р		
	Basic insulation for SELV	1,2 - 0,2	Pass the electrical strength test of table 10.2 (500V)	Р		
	Basic insulation	2,5 - 1,5		Р		
	Supplementary insulation	2,5 - 1,5		Р		
	Reinforced insulation	5,0 - 3,0		Р		
7	PROVISION FOR EARTHING			Р		
	. No provision for class II and class II	l appliances		Р		
	. Earthing connections of low resistar	nce		Р		
	- Test: >10A, <12V – Result: R<0,5Ω			Р		
	. Other requirements			Р		
14	SCREW TERMINALS			NA		
	. Compliance with the requirements of standards	of relevant		NA		
	. Compliance with the requirements of	of this section		NA		
15	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS					
	. Compliance with the requirements of standards	of relevant	Approved terminal block	Р		
	. Compliance with the requirements of	of this section		NA		
5	EXTERNAL AND INTERNAL WIRIN	G		Р		
5.2	. Supply connection and other extern	al wiring		Р		
5.3	. Internal wiring			Р		
8	PROTECTION AGAINST ELECTRIC	SHOCK		Р		
	. Live parts not accessible			Р		
	. Other requirements			Р		
12	ENDURANCE TEST AND THERMA	L TEST		Р		
12.3	- Endurance test			Р		
	. ta = 55°C [X] - ta = 25°C [ ]			Р		
	. U = 1,05 U to Pn [] - P = 1,05 Pn []	- U = 1,1 Un		Р		
	. 10 cycles [X] - 7 cycles []			Р		
	. Results			Р		
12.4	- Thermal test (normal operation)			Р		
	. ta = 45°C			Р		
	. P = 1,05 Pn [ ] - U = 1,0 Un puis 1,0 1,06 Un [X]	6 Un [] - U =		Р		
	. Results (below)		Interconnecting Max. wattage	Р		

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		EN 60598-1		
Section	Requirement Test		Result – Value – Remark	Verdict

PARTS	N	Maximum	Maximum temperature measured (°C)		
TANIO		temperature specified (°C+5°C)	IT-LTF-5F- 60W(Linkable)	IT-L9-5F- 60W(Linkable)	
. Lamps caps	Х		0000 (LITIKADIE)	0000(LITIKADIE)	
. Ballast winding:	X				
- tw 130	X				
- tw	X				
. Transformer winding:	1				
- Class H	Х				
- Class	X				
. Case:	X				
- Of capacitor	X				
- Of starting device	X				
- Of ballast	X				
- Of Tc of LED driver @ 240V	1	90	89	89	
. Insulation of wiring not stressed (mechanical					
stress):					
- PVC (external) supply cord		90	69	59	
- PVC (internal) through wire		90	72	73	
- PVC (internal) input wire of LED module		90	77	73	
- PVC with sleeve	Х			7.0	
- Silicone [] -glassfibre []	X				
-PTFE	X				
. Insulation of wiring stressed (mechanical	1				
stress):	X				
- PVC	Х				
- Silicone [] -glassfibre []	X				
. Heat-resisting sleeves	X				
. Contacts of ceramic lampholders	X				
. Insulating material	X				
- Of lampholder	Х				
- Of starter holder	Х				
. Switches	Х				
. Insulating materials retaining current-carrying		440		7.0	
parts in position(Terminal block)		110	89	76	
. Insulating materials retaining current-carrying		(4)		70	
parts in position(connector in LED module)		(1)	73	73	
. Insulating materials providing protection					
against electric shock	X				
. Mounting surface		90	54	51	
. Means of adjustment	Х				
. Means of adjustment's surrounding space	Х				
. Objects lighted (d =0,1 m)		90	57	50	
. Test recess	Х				
. Track	Х				



	EN 60598-1		
Section	Requirement Test	Result – Value – Remark	Verdict

DADTO	NIA	Maximum temperature	Maximum temperature measured (°C)			
PARTS	NA	specified (°C+5°C)	IT-LTF-5F-	IT-L9-5F-		
			60W(Linkable)	60W(Linkable)		
. Mains socket-outlet-mounted-	X					
luminaire and plug-ballast-transformer:	^					
- Case intended to be gripped by hand	Х					
- Plug-socket interface	Х					
- Other parts	Х					
. Wood	Х					
. Other requirements						
LED		(1)	86	88		
LED module PCB		(1)	77	74		
Translucent lens		(1)	67	56		
(1) No limit is specified, but these materials must satisfy the tests of section 13						

Note: Thermal test (normal operation) of models IT-LTF-5F-60W(Linkable) and IT-L9-5F-60W(Linkable) in normal use with  $P_{\text{Max}}$ : 3000W loading.

PARTS		Maximum	Maximum temperature measured (°C)				
	NA	temperature	IT-LTF-20W	IT-LTF-4F-	IT-LTF-5F-		
		specified (°C+5°C)	11-616-2000	40W	50W		
- Of Tc of LED driver @ 240V		90	76	82	88		



	EN 60598-1		
Section	Requirement Test	Result – Value – Remark	Verdict

12.5	- Thermal test (abnormal operation)	Р
	. ta = 25°C	Р
	. P = 1,05 Pn [] - U = 1,1 Un [X] -U = 1,06 Un []	Р
	. Abnormal circuit condition applied:	Р
	- Short-circuit of starter contacts [ ]	NA
	- Overturning []	NA
	- Unfavorable adjusting to the lighted surface [ ]	NA
	- Secondary circuit short-circuited [X]	Р
	- Other condition [X] : short-circuit one LED and short-circuit LED driver	Р
	. Results (below)	Р

<sup>(\*\*)</sup> The samples were stable to 15°

PARTS	NA	Maximum temperature	Maximum temperature measured (°C)			
174410	14/ (	specified (°C+5°C)	IT-LTF-5F- 60W(Linkable)	IT-L9-5F- 60W(Linkable)		
. Ballast winding:	X		000V(LITRADIC)	0000(Lilikable)		
- tw 130	X					
- tw	Х					
. Transformer winding:	Х					
- Class H	Х					
- Class	Х					
. Case of capacitor	Х					
. Mounting surface [X]		130	54	50		
. Lighted surface [X]		175	57	51		
. Test recess	Х					
. Track	Х					
. Mains socket-outlet-mounted-luminaires and plug-ballast case parts intended to be gripped by hand	Х					
Transformer case parts intended to be gripped by hand	Х					



EN 60598-1						
Section	Requirement Test	Result – Value – Remark	Verdict			

12.6	- Thermal test (failed lamp control gear conditions)				NA
	. ta = 25°C				NA
12.6.1	- Ballast/transformer wi	thout thermal cut-outs:			NA
	. Abnormal condition ap	plied:			NA
	- Lamp not start [ ]				NA
	- Other condition []:				NA
	. Results (below):				NA
	- T° of mounting surface 350°C	e 180°C for T° winding =			NA
	Supply voltage		Temperat		
		Of ballast windin	g	Of mounting surface	
	0,9 Un 1,0 Un				
	1,0 0H 1.1 Un	<del></del>			
12.6.2	- Ballast/transformer wi	th thermal cut-outs:			NA
12.0.2		. Abnormal condition applied:			NA
	- Lamp not start [ ]	• • • • • • • • • • • • • • • • • • • •			NA
	- Other condition []:				NA
	. Results:				NA
	- T° mounting surface	- T° mounting surface 135°C (110°C)			NA
12.7	Thermal test (fault concontrolgear or electro	nditions in lamp			NA
9	RESISTANCE TO DUS	T, SOLID OBJECTS			Р
9.2	- Tests for ingress,	- Tests for ingress,			Р
	. Of solid objects IP3X [	] - 4X []			NA
	. Of dust IP5X [] - 6X [)	(]	IP6X		Р
	. Of moisture IPX1 [ ]- X5[X] - X6[ ] - X7 [ ] - X		IPX5		Р
9.3	- Humidity test		48 hours,	93 %, 25 °C	Р



EN 60598-1						
Section	Requirement Test		Result – Value – Remark	Verdict		

10	INSULATION RESISTANCE AND ELECTRIC STRENGTH				Р
10.2	Insulation	Insulation resistance		Electric strengt	h
	Basic	$\geq 1 \text{ M}\Omega [X] \geq 2 \text{ M}\Omega [X]$		500 V [X] 1480 V	[X]
	Reinforced	$\geq$ 4 M $\Omega$ []		2960 V [ ]	
	Supplementary	$\geq$ 2 M $\Omega$ []		1480 V [ ]	
	. Results				Р
	- Parts stressed by the	ne pulse voltage			NA
10.3	- Touch current				NA
	- Protective conductor current		Max pea	c.0,05 mA (Limit: 3,5 mA k)	Р
13	RESISTANCE TO H TRACKING	RESISTANCE TO HEAT, FIRE AND TRACKING			Р
13.2	- Resistance to heat				Р
	. Ball pressure test			nslucent lens and losure: 92 °C	Р
13.3	- Resistance to flame	- Resistance to flame and ignition			Р
	. Needle-flame test		Con	nector in LED module	Р
	. Glow-wire test 850°C			Translucent lens and enclosure	
13.4	- Resistance to track	- Resistance to tracking			NA
	REQUIREMENTS STANDARD EN 60598-2-1				Р
	REQUIREMENTS S	REQUIREMENTS STANDARD EN 62031			
	REQUIREMENTS S		Р		



EN 60598-1					
Section	Requirement Test	Result – Value – Remark	Verdict		

## **Components list:**

Object/part No.	Manufacturer/tr ademark	Type/model	Technical data	Mark(s) of conformity	1	2	3	R
LED driver	Ą	BK-CHL024- 0550	Input: 220-240 V~, 50/60Hz, 0,15A Max.; Output: 30-42Vdc, 550mA, 23,1W Max. Uo: 60Vdc Max., ta: 60°C, tc: 90°C; Class I, built- in, SELV	TUVSUD	X			
LED driver		BK-CHL042- 1050	Input: 220-240 V~, 50/60Hz, 0,25A Max.; Output: 30-40Vdc, 1050mA, 42W Max. Uo: 60Vdc Max., ta: 60°C, tc: 90°C; Class I, built-in, SELV	TUVSUD	X			
LED driver		BK-CHL050- 1250	Input: 220-240 V~, 50/60Hz, 0,4A Max.; Output: 30-42Vdc, 1.25A, 52,5W Max. UMax.: 63Vdc Max., ta: 55°C, tc: 90°C; Class I, built- in, SELV	TUVSUD	x			
LED driver		BK-CHL060- 1500	Input: 220-240 V~, 50/60Hz, 0,45A Max.; Output: 30-40Vdc, 1.5A, 60W Max. UMax.: 63Vdc Max., ta: 55°C, tc: 90°C; Class I, built- in, SELV	TUVSUD	x			
Supply cord (for Non- interconnect)		H05RN-F	3 x 1,0 mm <sup>2</sup>	VDE	Х			
Input wire of LED module	Ą.	H05V-U	1 x 0,5 mm <sup>2</sup>	VDE	Х			

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EN 60598-1					
Section	Requirement Test		Result – Value – Remark	Verdict	

Object/part No.	Manufacturer/tr ademark	Type/model	Technical data	Mark(s) of conformity	1	2	3	R
Through wire (For IT-LTF- 20W(Linkable), IT-LTF-4F- 40W(Linkable), IT-LTF-5F- 50W(Linkable), IT-LTF-5F- 60W(Linkable), IT-L9-2F- 20W(Linkable), IT-L9-4F- 40W(Linkable), IT-L9-5F- 50W(Linkable), IT-L9-5F- 60W(Linkable))		H07RN-F	3 x 2,5 mm²	VDE	X			
Terminal block (for IT-LTF-20W, IT-LTF-4F-40W, IT-LTF-5F-50W, IT-LTF-20W(Linkable), IT-LTF-4F-40W(Linkable), IT-LTF-5F-50W(Linkable), IT-LTF-5F-60W(Linkable), IT-L9-2F-20W(Linkable), IT-L9-4F-40W(Linkable), IT-L9-5F-50W(Linkable), IT-L9-5F-50W(Linkable), IT-L9-5F-60W(Linkable))		863	450 V~, 16 A, T110	ENEC25	X			

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TEST REPORT EN 60598-1+A1 VER.1.0



		EN 60598-1		
Section	Requirement Test		Result – Value – Remark	Verdict

Object/part No.	Manufacturer/tr ademark	Type/model	Technical data	Mark(s) of conformity	1	2	3	R
Connector (For IT-L9-2F- 20W(Linkable), IT-L9-4F- 40W(Linkable), IT-L9-5F- 50W(Linkable), IT-L9-5F- 60W(Linkable))		XY22M, XY22F	250 V~, 16 A	TUVRheinland	X			
Connector in LED module		2062-2P	-	Tested with appliance			Х	
LED PCB	巫	CY-AL-P01	V-0, 90 °C, E353472	Tested with appliance			x	
Plastic enclosure and Translucent lens		M7025L2	V-2, 80 °C, E53664	Tested with appliance			Х	
Rubber gasket for waterproof	巫	YY-4153	-	Tested with appliance			Х	
LED		HL-A- 2835H421W- S1-08-HR3	Vf: 2,8-3,4 V, If: 60 mA, CCT: 4000 K, 5000 K, 6000 K	Tested with appliance			Х	

<sup>(1)</sup> 

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This component bears the stamp of a European conformity mark or has been granted a certificate of conformity. Applicable specific rules do not exist for this component; consequently, it has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory. (2)

<sup>(3)</sup> This component has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory.



## Annex 1: (instruction sheet)

For models IT-LTF-20W(Linkable), IT-LTF-4F-40W(Linkable), IT-LTF-5F-50W(Linkable), IT-LTF-5F-60W(Linkable)













### General Description

IP65 fast install LED Tri-proof Light are an ideal solution for both wet and dry locations such as parking garages and warehouses as well as factory prodution areas, basements and storage areas. They are available in lengths from 600mm to 1500mm 20W/ 40W/50W/60W with both surface mount and suspended mount options.

#### **Features**

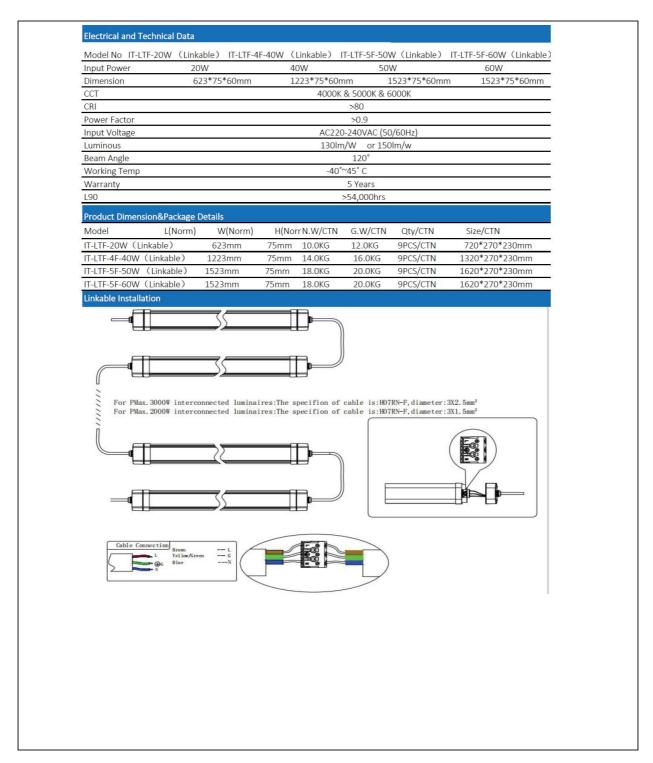
- · Fast Fit Easy Install
- System efficiency up to 130lm/W & 150lm/W
- High CRI >80
- UGR<19 options
- Environmentally friendly, no mercury, No UV, No IR
- Wide beam angle 120°
- IP65 waterproof, dust, corrosion and pressure-proof; for indoor use
- Energy Efficiency Grade: A+
- Quick Start instant 100% luminous flux
- PC housing + PC cover+ Aluminium inside
- 5 Year Warranty on complete fixture. (LED's, Driver, & Housing) Certificate: CE,RoHs Certified
- · Surface Mount or Suspended

#### **Applications**

- · Car parking Lighting
- School Lighting
- Workshops
- Supermarket
- Warehouse
- Storage

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1. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requiremnts. 2.Do not switch on before complete installation. 3. Ta-40~45℃ 4. The light source contained in this luminaire shall only be replaced by the manufacturer or his service 5.The wiring connection shall be done with IP65 connection box(or higher IP rating)



For models IT-LTF-20W, IT-LTF-4F-40W, IT-LTF-5F-50W, IT-LTF-5F-60W













#### eneral Description

IP65 fast install LED Tri-proof Light are an ideal solution for both wet and dry locations such as parking garages and warehouses as well as factory prodution areas, basements and storage areas. They are available in lengths from 600mm to 1500mm 20W/ 40W/50W/60W with both surface mount and suspended mount options.

#### Features

- Fast Fit Easy Install
- System efficiency up to 130lm/W & 150lm/W
- High CRI >80
- UGR<19 options
- Environmentally friendly, no mercury, No UV, No IR
- Wide beam angle 120°
- · IP65 waterproof, dust, corrosion and pressure-proof; for indoor use
- Energy Efficiency Grade: A+Quick Start instant 100% luminous flux
- PC housing + PC cover+ Aluminium inside
- 5 Year Warranty on complete fixture. (LED's, Driver, & Housing)
- Certificate: CE,RoHs Certified
- Surface Mount or Suspended

#### **Applications**

- · Car parking Lighting
- School Lighting
- Workshops
- Supermarket Warehouse
- Storage



Input Power         20W         40W         50W         60W           Dimension         623*75*60mm         1223*75*60mm         1523*75*60mm           CCT         4000K & 5000K & 6000K           CRI         >80           Power Factor         >0.9           Input Voltage         AC220-240VAC (50/60Hz)           Luminous         130Im/W or 150Im/w           Beam Angle         120°           Working Temp         -40*~45* C           Warranty         5 Years           L90         >54,000hrs           Product Dimension&Package Details           Model         L(Norm)         W(Norm)         H(Norr N.W/CTN         G.W/CTN         Qty/CTN         Size/CTN	Electrical and Te		20\\\	IT-LTF-4F-40W	IT_I T	E-5E-50\M/	IT-LTF-5F-60W
Dimension   623*75*60mm   1223*75*60mm   1523*75*60mm   1520*75*60mm   1520*75*60mm   1520*75*60mm   1520*75*60mm   1520*75*60mm   1523*75*60mm   1523*75*							
Section   Sect							1523*75*60mm
Power Factor	CCT			4000K	& 5000K & 6	000K	
Input Voltage	CRI				>80		
Luminous   130 m/W or 150 m/w	Power Factor						
Beam Angle							
Working Temp							
S Years							
Product Dimension&Package Details   Model   L(Norm)   W(Norm)   H(NorrN.W/CTN   G.W/CTN   Qty/CTN   Size/CTN				-40			
Node    L(Norm)   W(Norm)   H(NorrN.W/CTN   G.W/CTN   Qty/CTN   Size/CTN							
Model					>34,000ms		
IT-LTF-20W   623mm   75mm   60mm   10.0KG   12.0KG   9PCS/CTN   720*270*230mm   17-LTF-4F-40W   1223mm   75mm   60mm   14.0KG   16.0KG   9PCS/CTN   1320*270*230mm   17-LTF-5F-50W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   17-LTF-5F-60W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   1620*270*230mm   17-LTF-5F-60W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   1620*270*	Product Dimens	ion&Package De	etails				
IT-LTF-4F-40W   1223mm   75mm   60mm 14.0KG   16.0KG   9PCS/CTN   1320*270*230mm   17-LTF-5F-50W   1523mm   75mm   60mm 18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   17-LTF-5F-60W   1523mm   75mm   60mm 18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   1620*270*2	Model	L(Norm)	W(Norm)		G.W/CTN		Size/CTN
T-LTF-5F-50W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   17-LTF-5F-60W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   1620*270*230mm   17-LTF-5F-60W   1523mm   75mm   60mm   18.0KG   20.0KG   9PCS/CTN   1620*270*230mm   1620*							
TT-LTF-5F-60W 1523mm 75mm 60mm18.0KG 20.0KG 9PCS/CTN 1620*270*230mm  Single Installation  Cable Connection Brown L Yellow/Green G	MANAGEMENT OF THE PARTY OF THE						
Cable Connection Rrown L Yellow/Green G			5-574 NG 22 15-55				CALCA DATA DATA DA CALCADA DA CAL
Cable Connection Rrown L Yellow/Green G	The second secon		75mm	60mm 18.0KG	20.0KG	9PCS/CTN	1620*270*230mm
			Cable Conn	L Yellow/Green	G		



1.The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requiremnts.

2.Do not switch on before complete installation.

3. Ta-40~45℃



4.If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

5.The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

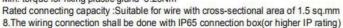
6.Terminal block not included. Installation may require advice from a qualified person.

The terminal block shall conform to IEC 60998-2-1

Screw type of terminal blaock:M3x4

Number of terminals :3-way terminals Rated voltage of terminal blck:450V/16A

Min. torque for fixing plastic gland 3.25Nm





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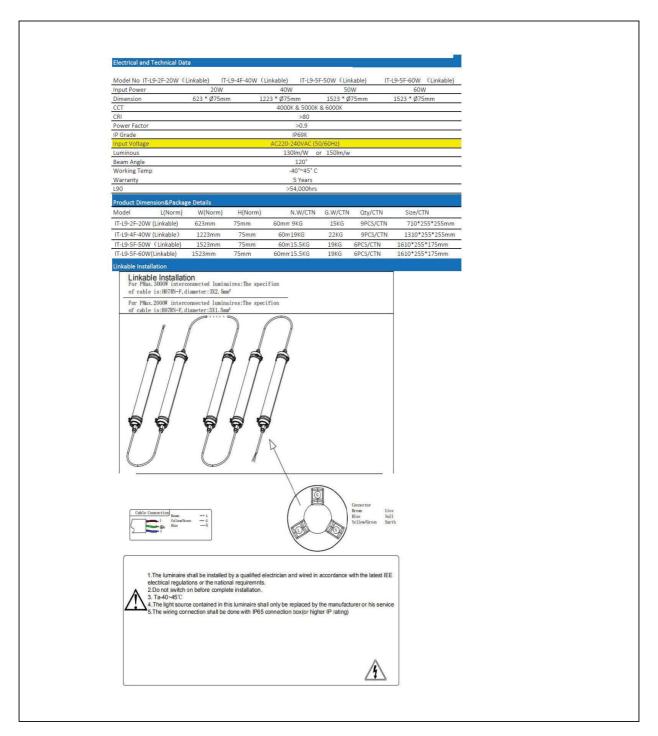
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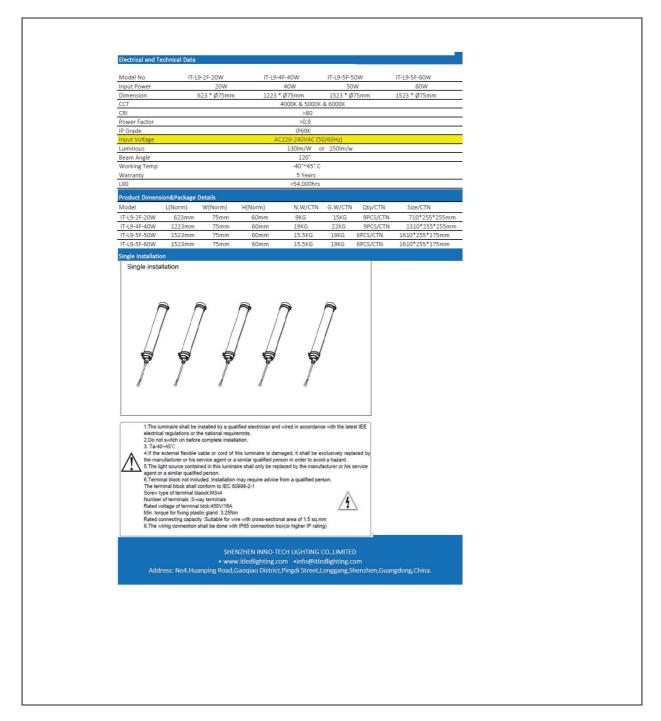












Only markings in English Language present on the sample tested were checked and validated during this examination.

The text required by the standard should be translated into the official language of the country where the appliance will be sold.