



CE LVD TEST REPORT

For

LED LOWBAY LIGHT

Model No.: VT-9185, VT-85, VT-299, VT-279, VT-260

Applicant: V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL,

CENTRAL, HONGKONG

Manufacturer: V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL,

CENTRAL, HONGKONG

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Report Number: A01.06.0301S-R2

Issued Date: January 16, 2019

Date of Report: January 16, 2019

Note:

- 1. The test data and result is based on the tested sample only.
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TEST REPORT

EN 62560:2012

Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications

Report reference No	A01.06.0301S-R2
Testing laboratory	Global-Standard Testing Service Co., Ltd.
Location:	Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.
Applicant	V-TAC EXPORTS LIMITED
Address:	ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD
	CENTRAL, CENTRAL, HONGKONG
Manufacturer	V-TAC EXPORTS LIMITED
Address:	ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL, CENTRAL, HONGKONG
Standards	EN 62560: 2012+ A1:2015 EN 60061-1:1993+A57:2018 EN 62031: 2008+A1:2013+A2:2015 EN 61347-1:2015 EN 61347-2-13:2014+A1:2017 EN 62471:2008 EN 62493: 2015
Procedure deviation:	N/A
Non-standard test method:	N/A
Type of test equipment	LED LOWBAY LIGHT
Trade mark:	V-TAC
Model/Type designation:	VT-9185, VT-85, VT-299, VT-279, VT-260
Rating:	220-240VAC, 50/60Hz, Max. 85W
Copyright blank test report:	Global-Standard Testing Service Co., Ltd.
Test item particulars:	
Operating Condition	Continuous
Class of equipment	Class II equipment
Protection against ingress of water	IP20



General remarks:	
"(see remark #)" refers to a remark appended to the report.	Attached with:
"(see appended table)" refers to a table appended to the report.	
Throughout this report a comma is used as the decimal separator.	
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 testing laboratory.	
Until otherwise specified, all tests are done under normal ambient condition 25℃±10℃, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.	

Brief description of the test sample:

- 1. The equipment with model VT-9185, VT-85, VT-299, VT-279, VT-260 are class II LED LOWBAY LIGHT used for Self-ballasted lamps for general lighting services;
- 2. The European standard EN 62471 for LED laser product requirement has considered;
- 3. Clauses 8,10, 11, 12, 14, 16, 17, 18, 19 and 20 of the European standard test EN61347-2-13 used in conjunction with EN 61347-1 for lamp control gear inside VT-9185, VT-85, VT-299 have been consideration;
- 4. The Safety specifications of LED modules for general lighting was evaluated with reference to EN 62031;
- 5. The European standard EN 62493 for requirement has considered.
- 6. This report is based on report A01.06.0301S-R1 dated May 07, 2018.



Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

Name and address of the testing laboratory :

Global-Standard Testing Service Co., Ltd.

Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District, Shenzhen, Guangdong, China.

Tested by: May 03, 2018
Signature Date

Evan Chen/ Engineer Name/title

Witnessed by: January 16, 2019
Signature Date

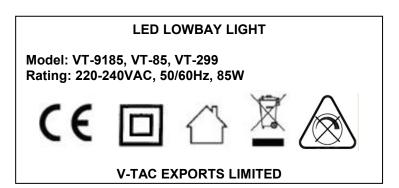
John Huang / Project Engineer Name/title

Approved by:

Nico Xie / Manat Name/title January 16, 2019 Date



Copy of marking plate



Note: Due to similarity of the labels, only above label was listed.

- The above copy of marking plate as an example, All the other models will have the same marking plate except the model name and input rating only and other parameter
- -The above markings are the minimum requirements required by the safety standard. For the final productions samples, the additional markings which do not give rise to misunderstanding may be added.
- the height of WEEE directive mark is at least 7mm height.



	EN 62560			
Clause	Requirement	Result - Remark	Verd.	
4	GENERAL REQUIREMENTS		Р	
4.1	The lamp shall be so designed and constructed that in normal use cause no danger to the user.		Р	
4.2	Self-ballasted LED-Lamp are non-repairable.		Р	

5.	MARKING		Р
5.1	Mandatory marking	V-TAC EXPORTS LIMITED	Р
	- mark of origin		Р
	- rated supply voltage (V)	See label	Р
	- rated wattage (W)	See label	Р
	- rated frequency (Hz)	See label	Р
5.2	Addition marking	See label	Р
	- burning position		N
	- rated current (A)	See label	Р
	- weight significantly higher	Warning:increased weight of lamp may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lanp retention (inthe instruction manual)	Р
	- special conditions or restrictions		N
	Not suiltable for dimming;symbol used		Р
	- eye protection	The products are classified as exempt group according to IEC 62471:2006.	Р
5.3	Marking durable and legible		Р
	rubbing 15 s water, 15 s petroleum; marking legible		Р
Addition:	Position of the marking	On the body	Р
	Language of instructions	English	Р
	Suitability for use indoors		Р
	Wireways smooth and free from sharp edges		Р



		EN 62560		
Clause	Requirement – Test	Result -	Remark	Verdict
		I		

6	INTERCHANGEABILITY	
6.1	Cap interchangeability in accordance with IEC 60061-1	Р
	Gauge in accordance with IEC 60061-3	Р
6.2	Bending moment,axial pull ande mass	Р
	Bending moment imparted by the lamp at the lampholder	Р
	Lamp construction withstands axial pull (N) 40N	Р
	Mass not exceeding value tabel 2 (kg):	Р

7.	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		Р
	Internal, basic insulated or live metal parts not accessible		Р
	Tested with a test finger with a force of 10 N		Р
	Compliance checked with appropriate gauges		Р
Addition:	Live parts not accessible		Р
	Protection in any position		Р
	Insulation lacquer not reliable		Р
	Class II luminaire:		Р
	- insulation-encased, reinforced insulation		Р
	- glass protective shields not used as supplementary insulation		N
	Covers have adequate strength		Р
	Covers reliably secured		Р
	Portable plug connected luminaire with capacitor		N

8.	INSULATION RESISTANCE AND ELECTRIC ST	INSULATION RESISTANCE AND ELECTRIC STRENGTH AFTER HUMIDITY TREATMENT	
8.1	Insulation resistance and electric strength shall be the lamp and accessible parts of the lamp.	Insulation resistance and electric strength shall be adequate between live parts of the lamp and accessible parts of the lamp.	
8.2	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V ($M\Omega$):		Р
	\geq 4 M Ω for double or reinforced insulation :	>100MΩ.	Р
8.3	Immediately after clause 8.2 electric strength test for 1 min		Р
	Double or reinforced insulation, 4U + 2000 V	2960	Р



Global-Stand	Global-Standard Testing Report Reference No.: A01.06.0301S-R		
Clause	Requirement – Test	Result - Remark	Verdict
			<u> </u>
	No flashover or breakdown		P
9.	MECHANICAL STRENGTH		Р
	Torsion resistance of unused lamps		
9.1	Torque test		Р
	B 15 d Cap1,15 Nı	m	N
	B 22 d Cap	m	N
	E 11 Cap	m	N
	E 12 Cap	m	N
	GU10 Cap 1.15Nn		N
	E 14 Cap1,15 Nı	m	N
	E 27 Cap	m	Р
	Cap3,0 Nı	m	N
	GX 53 Cap	m	N
9.2	Torsion resistance of lamps after a defined time of	f usage	N
	Torsion resistance of used lamp		N
9.3	Repetition of clause 8		Р
	Clause 8 shall comply after the mechanical strength test.		Р
Addition:	Lampholders		N
	Mounting brackets for Edison screw or bayonet- capped lampholders are subjected to testing for 1min, to the following bending moments:		N
	Locked connections:		N
	- fixed arms; torque (Nm):		N
	- lampholder; torque (Nm):		N
	- push-button switches; torque (Nm):		N
	No sharp point or edges		N
	Impact tests:		N
	- fragile parts; energy (Nm):		N
	- other parts; energy (Nm):		N
	1) live parts		N
	2) linings		N
	3) protection		N



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	E	N 62560	
Clause	Requirement – Test	Result - Remark	Verdict
	4) covers		N
	Straight test finger		N

10	CAP TEMPERATURE RISE The cap temperature rise Δt_s of the lamp shall not exceed 120 K.	
	- B22d125K :	N
	- B15d120K :	N
	- E27120K : ANNEX 1	Р
	- Cap125 K :	N
	- E14125 K :	N
	-GU10100 K	N

11	RESISTANCE TO HEAT					
	External parts of insulating material providing protection against electric shock, and parts of insulating material retaining live parts in position, ball pressure test:		Р			
	Part tested; temperature (°C);	See appended table	Р			
	diameter of impression (≤ 2 mm):					
	Part tested; temperature (°C);		N			
	diameter of impression (≤ 2 mm):					
	Part tested; temperature (°C);		N			
	diameter of impression (≤ 2 mm):					

12.	RESISTANCE TO FLAME AND IGNITION			
	Parts of insulating material retaining live parts in position and external parts of insulating material providing protection against electric shock, glowwire test 650 °C		Р	
	- no flaming drops igniting tissue paper		Р	
	- flame extinguished within 30 s		Р	
	Part tested; temperature (°C)	See table 11	Р	
	No visible flame and no sustained glowing		Р	

	13	FAULT CONDITIONS	Р	
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	EN 62560					
Clause	Requirement – Test	Result - Remark	Verdict			
13.2	Extreme electrical conditions (dimmable lamps)		Р			
	Lamp withstands overpower condition >15 min.		N			
	Lamp fails safe after 15 min overpower condition		Р			
	Lamp with automatic protective device or power limiter, test performed 15 min. At limit.		Р			
13.3	Extreme electrical conditions (non-dimmable lamps)					
	Tested according 13.2 (as far as possible)		Р			
13.4	Short-circuit across capacitors	(see appended table)	Р			
13.5	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	Р			
13.6	When operated under fault conditions the lamp		Р			
	- does not emit flames or molten material		Р			
	- does not produce flammable gases or smoke		Р			
	- live parts not accessible		Р			
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1		Р			

14 (16)	CREEPAGE DISTANCES AND CLEARANCES			
	Creep age distances and clearances according to Table 3 and 4 of IEC 61347-1, as appropriate	Р		
	Printed boards see clause 14 of IEC 61347-1	Р		
	Insulating lining of metallic enclosures	N		



TABLE	List of critical components	and mate	rials	
Component	manufacturers / trademark	Type /	Value / rating	Approval/
		model		Reference
LED PCB	Shikibo Electronics Co Ltd	E4	V-0, 130℃	Appliance of test and UL
Diffuser	Celanese International Corp	T140	Min.thickness 0.75mm, HWI 3, HAI 3, RTI 3, V-0, 130℃	Appliance of test and UL
Lamp base	Zhongshan guzhen China thousand lamp factory	E27	Medium (E26) base, made of aluminium alloy. Min.tnickness	Appliance of
			0.24mm.	test
PCB of LED	Hunan Foundersoonest	FZD02	Min.thickness 0.2mm, HWI 4,	Appliance of
driver	Electronic Technology Co., Ltd.		HAI 3, RTI 3V-0, 130℃	test and UL
LED driver	Hangzhou Baoshan	KALI-BL	220-240VAC, 50/60Hz, 0.06A,	Appliance of
	Electronic Co., Ltd.	T440	9W	test
Enclosure	Celanese International	T140	Min.thickness 0.75mm, HWI 3,	Appliance of test and UL
	Corp		HAI 3, RTI 3, V-0, 130℃	
Internal wire	Dongguan Wenchang	1007	VW-1, 300V, 105℃, 22AWG	Appliance of test and UL
	Electronic Co., Ltd.			test and UL



Test Data table

13	TABLE: tests of fault conditions										
Part	Simulated fault Result						Hazard				
C1	Short circuit	Fuse or	oen					NO			
BD1	Short circuit	Fuse or	oen					NO			
Output + and _	Short circuit	Unit shu	ut d	own, recover	rable			NO			
11	TABLE: ba	all pressure	test of therr	noplastics	<u> </u>					Р	
Part		Test tempe	rature (℃)	•	ion (mm	diameter n)	F	•		npression r (mm)	
РСВ		12	25		0.86	6		<u> </u>	≤2.0		
Diffuser		12	25		1.23	3		<u> </u>	≦2.0		
14(16)	TABLE: C	learance And	d Creep age	Distance l	Mea	asurements				Р	
	cl and creep ce decry at/of:	Up (V)	U rams. (V)	Require CI (mm		CI (mm)		quired (mm)		Cr (mm)	
L and N or	PCB		240	3.0		>3.0		5.0		>5.0	
Live parts of	on driver PCB sible part		240	3.0		>3.0		5.0		>5.0	
Primary circuit and secondary circuit of LED driver PCB			240	3.0		>3.0		5.0		>5.0	
Suppleme	ntary informatio	n:							'		
ANNEX 1	TABLE: tempe	rature meas	surements, thermal tests of Section 12						Р		
	Lamp used			:	: VT-9185, VT-85, VT-299			_			
	Ballast used			:	.: As in normal use			ver		_	
	Mounting positi	on of lumina	ire	:					_		
	Supply wattage	e (W)		:					-		
	Supply current	(A)		:	: 0.30A				-		
	Table: measure	ed temperatu	res corrected	d for Ta = 2	25°C	D:				Р	
	- abnormal ope	rating mode.		:	_					_	
	- test 1: rated voltage							_			
	- test 2: 1,06 tir rated wattage		s 1.06 *240				_				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage									_	
- test 4: 1,1 times rated voltage or 1,05 times rated wattage							-				
temperature (C) of part clause				e 12.4 - no	rma	 al		clause	12.5 -	abnorma	





	test 1	test 2	test 3	limits	test 4	limit
C1		78.8		105		
L1		90.2		120		
Bobbin of transformer		106.1		112		
Winding of transformer		107.5		110		
PCB		107.9		130		
C2		102.8		105		
Output wire of LED driver		97.0		105		
IC		108.3		Ref.		
LED		161.4		Ref.		
LED PCB		94.6		130		
Input wire of LED		93.7		105		
Diffuser		45.9		130		
Lamp enclosure		60.5		90		
Lamp base screws		74.0		Ref.		
Ambient		25.0				



Attachment –A
Photo Documentation

Report Reference No.: A01.06.0301S-R2

View:

Photo 1

[$\sqrt{\ }$] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal



Photo 2

View:

[$\sqrt{\ }$] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[] Internal

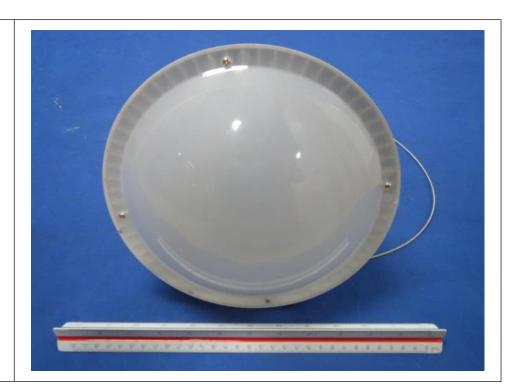




Photo 3

View:

[] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[√] Internal



Photo 4

View:

[] Front

[] Rear

[] Right side

[] Left side

[] Top

[] Bottom

[√] Internal

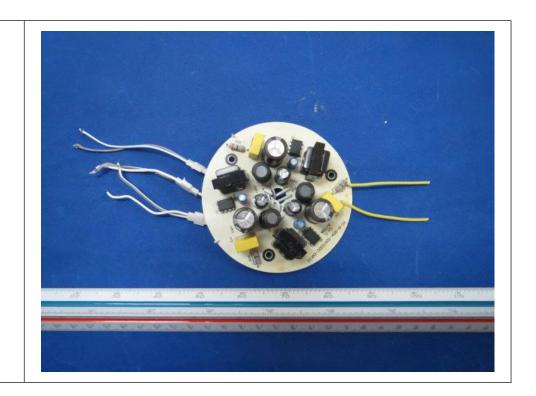




Photo	5	
View:		
[]	Front	
[]	Rear	
[]	Right side	
[]	Left side	
[]	Тор	
[]	Bottom	A S TO TO THE THE THE TOTAL TO THE TOTAL TO THE TOTAL TH
[√]	Internal	

--END.--