



CE LVD TEST REPORT

For
LED FLOOD LIGHT

Model No.: VT-10-S, VT-20-S, VT-30-S, VT-50-S, VT-44030-1, VT-44033, VT-4455, VT-44101, VT-44153, VT-44201, VT-44003, VT-44032PS, VT-44052PS, VT-44103PS, VT-44153PS, VT-44203PS, VT-4850, VT-48100, VT-48150, VT-48200, VT-48500, VT-4931, VT-49161, VT-49151, VT-58

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 : GST.240115.J501S

Issued Date : January 30, 2024

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Note:

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LVD Report EN60598-1&EN60598-2-3 Luminaires—Part 1 :General requirements and tests Part 2: Particular requirements Section Three – Luminaires for road and street lighting	
Report reference No.:	GST.240115.J501S
Testing laboratory	Global-Standard Testing Service Co., Ltd.
Location.....:	Room 1505, Building B, Chuangxin Plaza, Pingshan Avenue, Pingshan District, Shenzhen, 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 IEC 60598-1:2021 EN 60598-2-3: 2003+A1:2011
Procedure deviation.....:	N/A
Non-standard test method.....:	N/A
Type of test equipment	LED FLOOD LIGHT
Trade mark.....:	 Meaningful Innovation.
Model/Type designation.....:	VT-10-S, VT-20-S, VT-30-S, VT-50-S, VT-44030-1, VT-44033, VT-4455, VT-44101, VT-44153, VT-44201, VT-44003, VT-44032PS, VT-44052PS, VT-44103PS, VT-44153PS, VT-44203PS, VT-4850, VT-48100, VT-48150, VT-48200, VT-48500, VT-4931, VT-49161, VT-49151, VT-58
Rating.....:	220-240VAC, 50Hz, 1.2A, 200W
TRF originator.....:	Global-Standard Testing Service Co., Ltd.
Copyright blank test report.....:	Global-Standard Testing Service Co., Ltd.
Test item particulars.....:	--
Operating Condition.....:	Continuous
Tested for IT power systems.....:	No
IT testing, phase-phase voltage (V)....:	N/A.
Class of equipment.....:	Class I equipment
Protection against ingress of water.....:	IP65

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 1505, Building B, Chuangxin Plaza, Pingshan Avenue,
Pingshan District, Shenzhen, China

Tested by : John Huang January 25, 2024
Signature Date

John Huang /Senior Project Engineer
Name/title

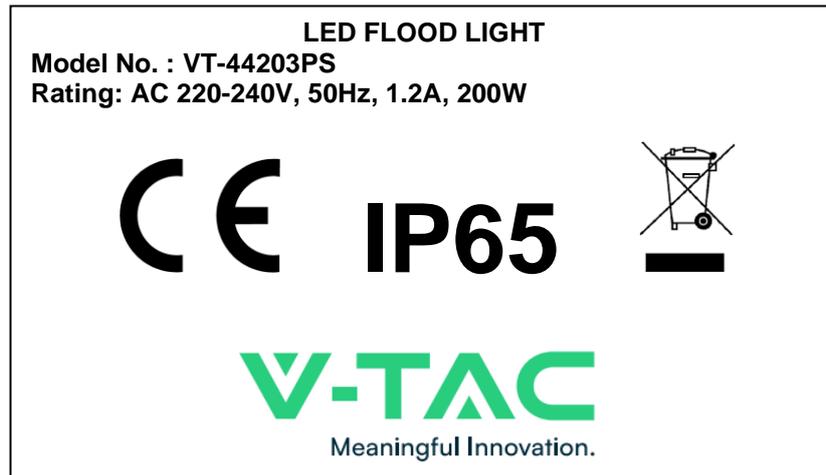
Reviewed by : Nico Xie January 30, 2024
Signature Date

Nico Xie / Manager
Name/title

General remarks:	
<p>Clause number between brackets refer to clauses in IEC 60598-1</p> <p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p>	<p>Attachment with:</p> <p>1) Photo documentation</p>
Summary of testing:	
<p>The submitted samples are also fulfilled the requirements of specified standard of:</p> <p>1.This report covers the LED FLOOD LIGHT with models VT-10-S, VT-20-S, VT-30-S, VT-50-S, VT-44030-1, VT-44033, VT-4455, VT-44101, VT-44153, VT-44201, VT-44003, VT-44032PS, VT-44052PS, VT-44103PS, VT-44153PS, VT-44203PS, VT-4850, VT-48100, VT-48150, VT-48200, VT-48500, VT-4931, VT-49161, VT-49151, VT-58.</p> <p>2.All models have the same construction except for LED number and wattage</p> <p>3.The model VT-44203PS was selected representative sample to perform all testing due to maximum wattage.</p>	

Label

Representative



Note:

1. Due to similarity of the labels, only above label was listed.
2. All models have the same marking plate except the model name and input rating with wattage.
3. Height of CE marking at least 5mm, height of WEEE mark at least 7mm, height of other marks at least 5mm, height of letters and numerals at least 2mm.

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.2 (0)	GENERAL TEST REQUIREMENTS		
3.2 (0.3)	More sections applicable.....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Section/s:	—
3.2 (0.5)	Components	(see Annex 1)	—
3.2 (0.7)	Information for luminaire design in light sources standards		—
3.2 (0.7.2)	Light source safety standard		—
	Luminaire design in the light source safety standard		P

3.4 (2)	CLASSIFICATION		
3.4 (2.2)	Type of protection	Class I	—
3.4 (2.3)	Degree of protection.....	IP65	—
3.4 (2.4)	Portable or handheld luminaire	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	Luminaire suitable for normally flammable surfaces	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	Luminaire suitable to be covered by insulating materials	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
3.4 (2.5)	Luminaire for normal use	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

3.5 (3)	MARKING		P
3.5 (3.2)	Mandatory markings		P
	Position of the marking	On the body	P
	Format of symbols/text		P
3.5 (3.3)	Additional information		P
	Language of instructions	English	P
3.5 (3.3.1)	Combination luminaires		N/A
3.5 (3.3.2)	Nominal frequency in Hz	50Hz	P
3.5 (3.3.3)	Operating temperature		N/A
3.5 (3.3.4)	Symbol or warning notice	See above the label	P
3.5 (3.3.5)	Wiring diagram		N/A
3.5 (3.3.6)	Special conditions		N/A
3.5 (3.3.7)	Metal halid lamp luminaire – warning		N/A
3.5 (3.3.8)	Limitation for semi-luminaires		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.5 (3.3.9)	Power factor and supply current		N/A
3.5 (3.3.10)	Suitability for use indoors	Street light	N/A
3.5 (3.3.11)	Luminaires with remote control	No this part	N/A
3.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
3.5 (3.3.13)	Specifications of protective shields		N/A
3.5 (3.3.14)	Symbol for nature of supply	AC	P
3.5 (3.3.15)	Rated current of socket outlet		N/A
3.5 (3.3.16)	Rough service luminaire		N/A
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
3.5 (3.3.101)	Adequate warning on the package (EN)		N/A
3.5 (-)	All relevant information provided on the instruction leaflet		N/A
3.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P

3.6 (4)	CONSTRUCTION		P
3.6.1 (-)	At least IP X3 or X5 respectively	IP65	P
	Column-integrated luminaires:		-
	- parts below 2,5 m		P
	- parts above 2,5 m		N/A
3.6.2 (-)	Suspension on span wires		N/A
3.6.3 (-)	Fixing device		P
3.6.3.1(-)	Static load test		-
	-drag coefficient		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
	-loaded area (m ²)		N/A
	-used load (N)		N/A
	-measured deformation (cm/m)		N/A
	-no rotation		N/A
3.6.4 (-)	Adjustable lampholders		N/A
3.6.5 (-)	Glass cover:		-
	- . means of protection		N/A
	- . number of particles		N/A
3.6.6 (-)	Connection compartment of column-integrated luminaire		-
	- provides adequate space		N/A
	- means for attachment		N/A
3.6.7 (-)	Compliance with		N/A
3.6.8 (-)	Doors of column-integrated luminaires:		-
	- corrosion resistance according to 4.18 of Part 1		N/A
	- opening of the door only possible for an authorized person		N/A
	- impact test on the door at an energy of (5 Nm)		N/A
3.6.9 (-)	Column-integrated luminaire:		-
	- dimension of the entry slot (mm)		N/A
	- cable path from the slot to the connection compartment (mm)		N/A
	- cable path free from obstruction that might cause abrasion of the cable		N/A
3.6 (4.2)	Components replaceable without difficulty	No replaceable parts	N/A
3.6 (4.3)	Wireways smooth and free from sharp edges		P
3.6 (4.4)	Lampholders		N/A
3.6 (4.4.1)	Integral lampholder		N/A
3.6 (4.4.2)	Wiring connection		N/A
3.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
3.6 (4.4.4)	Positioning		N/A
	- pressure test (N)		N/A
	-bending test (Nm)		N/A
3.6 (4.4.5)	Peak pulse voltage		N/A
3.6 (4.4.6)	Centre contact		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
3.6 (4.4.8)	Lamp connectors		N/A
3.6 (4.4.9)	Caps and bases correctly used		N/A
3.6 (4.5)	Starter holders		-
	Starter holder in luminaires other than class II		N/A
	Starter holders class II construction		N/A
3.6 (4.6)	Terminal blocks		-
	Tails		P
	Unsecured blocks		N/A
3.6 (4.7)	Terminals and supply connections		-
3.6 (4.7.1)	Contact to metal parts		P
3.6 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
3.6 (4.7.3)	Terminals for supply conductors		N/A
3.6 (4.7.3.1)	Welded connections:		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.8.2		N/A
	- electrical test according to 15.9		N/A
	- heat test according to 15.9.2.3 and 15.9.2.4		N/A
3.6 (4.7.4)	Terminals other than supply connection		N/A
3.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A
3.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
3.6 (4.8)	Switches:		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
3.6 (4.9)	Insulating lining and sleeves		N/A
3.6 (4.9.1)	Retainment		N/A
	Method of fixing.....:		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.6 (4.9.2)	Insulated linings and sleeves		P
	a) & c) Insulation resistance and electric strength		P
	b) Ageing test. Temperature (°C)..... :		N/A
3.6 (4.10)	Insulation of Class II luminaires		N/A
3.6 (4.10.1)	No contact, mounting surface - accessible metal parts - wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
3.6 (4.10.2)	Assembly gaps:		P
	- not coincidental		P
	- no straight access with test probe		P
3.6 (4.10.3)	Retainment of insulation:		P
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lampholder		N/A
3.6 (4.11)	Electrical connections		P
3.6 (4.11.1)	Contact pressure		P
3.6 (4.11.2)	Screws:		P
	- self-tapping screws		N/A
	- thread-cutting screws		P
	- at least two self-tapping screws		N/A
3.6 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
3.6 (4.11.4)	Material of current-carrying parts		P
3.6 (4.11.5)	No contact to wood	No wood	N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.6 (4.11.6)	Electro-mechanical contact systems		N/A
3.6 (4.12)	Mechanical connections and glands		P
3.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part	1.2Nm	P
	Torque test: torque (Nm); part		N/A
	Torque test: torque (Nm); part		N/A
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
3.6 (4.12.4)	Locked connections:		P
	- fixed arms; torque (Nm)	5.0Nm	P
	- lampholder; torque (Nm)		N/A
	- push-button switches; torque 0,8 Nm		N/A
3.6 (4.12.5)	Screwed glands; force (N)	No this part	N/A
3.6 (4.13)	Mechanical strength		P
3.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)		P
	- other parts; energy (Nm)		P
	1) live parts		P
	2) linings		P
	3) protection		P
	4) covers		N/A
3.6 (4.13.3)	Straight test finger		P
3.6 (4.13.4)	Rough service luminaires		P
	- IP54 or higher		P
	a) fixed		P
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		P

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.6 (4.13.6)	Tumbling barrel		N/A
3.6 (4.14)	Suspensions and adjusting devices		N/A
3.6 (4.14.1)	Mechanical load:		P
	A) four times the weight	3.2 Kg	P
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm)	2.5Nm	P
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm).....		N/A
	metal rod. Diameter (mm)		N/A
3.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		N/A
	Stress in conductors (N/mm ²)		N/A
3.6 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
3.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
3.6 (4.14.5)	Guide pulleys		N/A
3.6 (4.14.6)	Strain on socket-outlets		N/A
3.6 (4.15)	Flammable materials:		N/A
	- glow-wire test 650 °C		N/A
	- spacing ≥ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		N/A
	- thermal protection		N/A
	- electronic circuits exempted		N/A
3.6 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
3.6 (4.16)	Luminaires marked with F-symbol		N/A
	No lamp control gear	(compliance with section 12)	N/A
3.6 (4.16.1)	Lamp control gear spacing:		-
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
3.6 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
3.6 (4.16.3)	"F" curve measured	(see 12.6)	N/A
3.6 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
3.6 (4.18)	Resistance to corrosion:		P
3.6 (4.18.1)	- rust-resistance		P
3.6 (4.18.2)	- season cracking in copper		N/A
3.6 (4.18.3)	- corrosion of aluminium		P
3.6 (4.19)	Ignitors compatible with ballast	No this part	N/A
3.6 (4.20)	Rough service vibration		N/A
3.6 (4.21)	Protective shield:		N/A
3.6 (4.21.1)	Shield fitted		N/A
3.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
3.6 (4.21.3)	No direct path		N/A
3.6 (4.21.4)	Impact test on shield		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
	Glow-wire test on lamp compartment		N/A
3.6 (4.22)	Attachments to lamps		N/A
3.6 (4.23)	Semi-luminaires comply class II		N/A
3.6 (4.24)	UV radiation, metal halide lamps		N/A
3.6 (4.25)	No sharp point or edges		P
3.6 (4.26)	Short-circuit protection:		N/A
3.6 (4.26.1)	Uninsulated accessible SELV parts		N/A
3.6 (4.26.2)	Short-circuit test		N/A
3.6 (4.26.3)	Test chain according to Figure 29		N/A

3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Working voltage (V).....:	AC 220-240V	—
	Voltage form	Sinusoidal <input checked="" type="checkbox"/> Non-sinusoidal <input type="checkbox"/>	—
	PTI	< 600 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/>	—
	Rated pulse voltage (kV).....:		—
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm)4.0/3.0.....:	>3.0mm	P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm)6.5.....:	>6.5mm	P
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm).....:		N/A
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm).....:		N/A
	(5) Not used		—
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm).....:		N/A

3.8 (7)	PROVISION FOR EARTHING		P
3.8.1 (-)	Attachment prevented from rotation		N/A
3.8 (7.2.1 + 7.2.3)	Accessible metal parts		P

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω		P
	Two self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
3.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		N/A
3.8 (7.2.4)	Locking of clamping means		P
	Compliance with 4.7.3		P
3.8 (7.2.5)	Earth terminal integral part of connector socket		P
3.8 (7.2.6)	Earth terminal adjacent to mains terminals		P
3.8 (7.2.7)	Electrolytic corrosion of the earth terminal		P
3.8 (7.2.8)	Material of earth terminal		P
	Contact surface bare metal		P
3.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
3.8 (7.2.11)	Earthing core coloured green-yellow		P
	Length of earth conductor		P

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

3.9 (15)	SCREWLESS TERMINALS		P
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 4)	P

3.10 (5)	EXTERNAL AND INTERNAL WIRING		P
3.10 (5.2)	Supply connection and external wiring		P

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
3.10 (5.2.1)	Means of connection	Connector	P
	Connecting leads (EN):		P
	- without a means for connection to the supply		P
	- terminal block specified		P
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
3.10 (5.2.2)	Type of cable.....		P
	Cables equal to HD21S2 or HD22S2 (EN)		P
	Nominal cross-sectional area (mm ²)	0.75 mm ²	P
3.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
3.10 (5.2.5)	Type Z not connected to screws		N/A
3.10 (5.2.6)	Cable entries:		P
	- suitable for introduction		N/A
	- adequate degree of protection		P
3.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
3.10 (5.2.8)	Insulating bushings:		N/A
	- suitably fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- tubes or guards made of insulating material		N/A
3.10 (5.2.9)	Locking of screwed bushings		N/A
3.10 (5.2.10)	Cord anchorage:		N/A
3.10.1 (-)	- additional requirements		N/A
3.10 (5.2.10)	- covering protected from abrasion		N/A
	- clear how to be effective		N/A
	- no mechanical or thermal stress		N/A

EN 60598-2-3			
Clause	Requirement – Test	Result - Remark	Verdict
	- no tying of cables into knots etc.		N/A
	- insulating material or lining		N/A
3.10 (5.2.10.1)	Cord anchorage for type X attachment:		-
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
3.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		-
3.10 (5.2.10.3)	Tests:		N/A
	- impossible to push cable; unsafe		N/A
	- pull test: 25 times; pull (N)		N/A
	- torque test: torque (Nm).....		N/A
	- displacement ≤ 2 mm		N/A
	- no movement of conductors		N/A
	- no damage of cable or cord		N/A
3.10 (5.2.11)	External wiring passing into luminaire		N/A
3.10 (5.2.12)	Looping-in terminals		N/A
3.10 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
3.10 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
3.10 (5.2.15)	Colour code low voltage (EN)		N/A
3.10 (5.2.16)	Appliance inlets (EN 60320)		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	Appliance couplers of class II type		N/A
3.10 (5.2.17)	Non standardized interconnecting cables properly assembled		N/A
3.10 (5.2.18)	Used plug in accordance with:		N/A
	- IEC 60063		N/A
	- other standard		N/A
3.10 (5.3)	Internal wiring		P
3.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		P
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A)		N/A
	- temperatures		P
	Green-yellow for earth only		P
3.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		N/A
	Cross-sectional area (mm ²)	0.75 mm ²	N/A
	Insulation thickness		N/A
	Extra insulation added where necessary		N/A
3.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Adequate cross-sectional area and insulation thickness		P
3.10 (5.3.1.3)	Double or reinforced insulation for class II		N/A
3.10 (5.3.1.4)	Conductors without insulation		N/A
3.10 (5.3.1.5)	SELV current-carrying parts		N/A
3.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
3.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	Telescopic tubes etc.		N/A
	No twisting over 360°		N/A
3.10 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
3.10 (5.3.4)	Joints and junctions effectively insulated		P
3.10 (5.3.5)	Strain on internal wiring		N/A
3.10 (5.3.6)	Wire carriers		N/A
3.10 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
3.11 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		P
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
3.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
3.11 (8.2.3)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	- glass protective shields not used as supplementary insulation		N/A
	Class I luminaire with BC lampholder		N/A
3.11 (8.2.4)	Portable luminaire:		N/A
	- protection independent of supporting surface		N/A
	- terminal block completely covered		N/A
3.11 (8.2.5)	Compliance with the standard test finger or relevant probe		N/A
3.11 (8.2.6)	Covers reliably secured		N/A
3.11 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$		N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A

3.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
3.12 (12.3)	Endurance test:		P
	- mounting-position.....:	As normal position	—
	- test temperature (°C)	55°C	—
	- total duration (h)	240	—
	- supply voltage: Un factor; calculated voltage (V) :	264V	—
	- lamp used	LED	—
3.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
3.12.1 (-)	Temperature reduction		P
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A

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Clause	Requirement – Test	Result - Remark	Verdict
3.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of A		—
	- case of abnormal conditions		—
	- electronic lamp control gear		—
	- measured winding temperature (°C): at 1,1 Un		—
	- measured mounting surface temperature (°C): at 1,1 Un		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
3.12 (12.7.1)	Through wiring or looping-in wiring loaded by a current of A		—
	- case of abnormal conditions		—
	- measured temperature of fixing point/ exposed part (°C): at 1,1 Un		N/A
	- calculated temperature of fixing point/ exposed part (°C)		N/A
3.12 (12.7.2)	Temperature sensing control		N/A
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured temperature of fixing point/ exposed part (°C):		N/A
3.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	- classification according to IP		—
	- mounting position during test.....		—
	- fixing screws tightened; torque (Nm)		—
	- tests according to clauses		—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		P
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or where it could become a hazard		P
	d) i) For luminaires without drain holes – no water entry		P
	d) ii) For luminaires with drain holes – no hazardous water entry		P
	e) no water in watertight luminaire		P
	f) no contact with live parts (IP 2X)		P
	f) no entry into enclosure (IP 3X and IP 4X)		P
	f) no contact with live parts (IP 3X and IP 4X)		P
3.13 (9.3)	Humidity test 48 h	25°C, 93%	P

3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
3.14 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ):		—
	SELV:		N/A
	- between current-carrying parts of different polarity		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire.....		N/A
	Other than SELV:		P
	- between live parts of different polarity	>2MΩ	P
	- between live parts and mounting surface		N/A
	- between live parts and metal parts	>2MΩ	P

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Clause	Requirement – Test	Result - Remark	Verdict
	- between live parts of different polarity through action of a switch.....:		N/A
3.14 (10.2.2)	Electric strength test		P
	Dummy lamp	No ignitor	N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		P
	SELV:		N/A
	- between current-carrying parts of different polarity		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire.....:		N/A
	Other than SELV:		P
	- between live parts of different polarity	1500V	P
	- between live parts and mounting surface		N/A
	- between live parts and metal parts	3000V	P
	- between live parts of different polarity through action of a switch.....:		N/A
3.14 (10.3.1)	Leakage current (mA)	0.08mA	P

3.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
3.15 (13.2.1)	Ball-pressure test:		N/A
	- part tested; temperature (°C)		N/A
	- part tested; temperature (°C)		N/A
3.15 (13.3.1)	Needle flame test (10 s):		N/A
	- part tested		N/A
	- part tested		N/A
3.15 (13.3.2)	Glow-wire test (650°C):		P
	- part tested	Reflectors	P
	- part tested		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
3.15 (13.4.1)	Tracking test: part tested		N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A
(2.2)	Class 0 not accepted		N/A
(3.3)	DK: power supply cord with label		N/A
	IT: warning label on Class 0 luminaire		N/A
(4.5.1)	DK: socket-outlets		N/A
(4.5.1)	FR: socket-outlets		N/A
(5.2.1)	CY, DK, FI, SE, GB: type of plug		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(13.3)	DK: Needle flame test during 30 s		N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation		N/A
(13.3.2)	FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public or 960°C for luminaires in emergency exits		N/A

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Clause	Requirement – Test	Result - Remark	Verdict

TABLE	List of critical components and materials			
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Certification No.
Power cord	Various	H05VV-F	3x1.0mm ²	VDE
Internal wire	Various	1015	20AWG, 105°C	UL
LED	V-TAC EXPORTS LIMITED	SMD2835	Vf: 2.5-3.8V CCT: 6000K; view angle: 120	UL
LED PCB	Dongguan Everest Electronics Technology Co., Ltd.	YD-01	V-0, 125°C, Min.0.15mm.	UL

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Clause	Requirement – Test	Result - Remark	Verdict

	ANNEX 2: temperature measurements, thermal tests of Section 12			P		
	Type reference.....:	VT-44203PS		—		
	Lamp used	LED		—		
	Ballast used	-		—		
	Mounting position of luminaire.....:	As in normal use		—		
	Supply wattage (W)	197.2W		—		
	Supply current (A).....:	0.810A		—		
	Table: measured temperatures corrected for Ta = 45°C:			P		
	- abnormal operating mode	—		—		
	- test 1: rated voltage	-		—		
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage	254.4		—		
	- 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 12.4 - normal				clause 12.5 - abnormal	
	test 1	test 2	test 3	limits	test 4	limit
Metal enclosure	--	51,5	--	Ref	--	--
Power cord	--	53.2	--	90	--	--
PCB near U1	--	61.4	--	130	--	--
Internal wire	--	72.4	--	105	--	--
LED body	--	102.1	--	Ref	--	--
LED PCB	--	92.4	--	130	--	--
Diffuser inside	--	81.5	--	Ref	--	--
Mounting surface	--	50.6	--	90	--	--
Ambient:	--	45.0	--	--	--	--

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Clause	Requirement – Test	Result - Remark	Verdict

	ANNEX 3: SCREW TERMINALS (PART OF THE LUMINAIRE)		N/A
(14)	SCREW TERMINALS		N/A
(14.2)	Type of terminal:		—
	Rated current (A) :		—
(14.3.2.1)	One or more conductors		N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		N/A
	Cross-sectional area (mm ²) :		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) :		N/A
	External wiring		N/A
	No soft metal		N/A
(14.4.5)	Corrosion		N/A
(14.4.6)	Nominal diameter of thread (mm) :		N/A
	Torque (Nm) :		N/A
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N) :		N/A
(14.4.8)	Without undue damage		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
	ANNEX 4: SCREWLESS TERMINALS (PART OF THE LUMINAIRE)		N/A
(15)	SCREWLESS TERMINALS		N/A
(15.2)	Type of terminal		—
	Rated current (A).....		—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A
(15.5.1)	Terminals internal wiring		N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples)		N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples)		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		N/A
	Voltage drop (mV) after 1 h (4 samples).....		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples)		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)		N/A
(15.7)	Terminals external wiring		N/A
	Terminal size and rating		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
(15.8.1)	Pull test spring-type terminals (4 samples); pull (N)		N/A
	Pull test pin or tab terminals (4 samples); pull (N)		N/A
(15.9)	Contact resistance test		N/A
	Voltage drop (mV) after 1 h		N/A

Appendix 1

Photo documentation

<p>Photo 1</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	
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<p>Photo 2</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input checked="" type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	
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--END--