



CE LVD REPORT

Prepared For:	GOLDEN STAR STAGE LIGHTING CO.,LIMITED No. 6 Jin sha Road, Jin pen Village, Zhong luo tan town,Baiyun district,Guangzhou,China
Product Name:	Stage Laser System
Trade Mark:	 金量激光 Goldenstar laser
Main Test Model:	W-RGB30
Additional Models:	W-RGB10, W-RGB15, W-RGB20, W-RGB30, W-RGB40, W-RGB50, W-RGB60, W-RGB80, W-RGB100, W-RGB120, GS-RGB3000, GS-RGB5000, GS-RGB10, GS-RGB15, GS-RGB20, GS-RGB24, GS-RGB30, GS-RGB35, GS-RGB40, GS-RGB50, GS-RGB60, GS-RGB80, GS-RGB100, GS-RGB120
Prepared By :	Dongguan True Safety Testing Co., Ltd. Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
Test Date:	Feb. 26, 2023 To Mar. 07, 2023
Date of Report :	Mar. 07, 2023
Report No.:	TST20230380071-1SR



TEST REPORT EN 60598-1 & EN 60598-2-17 Luminaires Part 1: General requirements and tests Part 2: Particular requirements Section Seventeen – Luminaires for Stage light, television and film studios (outdoor and indoor)	
Testing Laboratory Name	Dongguan True Safety Testing Co., Ltd.
Address	Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
Testing location	Dongguan True Safety Testing Co., Ltd.
Applicant's Name	GOLDEN STAR STAGE LIGHTING CO.,LIMITED
Address	No. 6 Jin sha Road, Jin pen Village, Zhong luo tan town,Baiyun district,Guangzhou,China
Manufacturer	GOLDEN STAR STAGE LIGHTING CO.,LIMITED
Address	No. 6 Jin sha Road, Jin pen Village, Zhong luo tan town,Baiyun district,Guangzhou,China
Test specification	
Standard.....	EN IEC 60598-2-17:2018 Used In Conjunction With EN IEC 60598-1:2021
Test item description	Stage Laser System
Trademark	 金星激光 Goldenstar laser
Model and/or type reference	W-RGB30
Rating(s).....	100-240V 50/60Hz 10A 2000W
Test case verdicts	
Test case does not apply to the test object	N/A
Test item does meet the requirement	P(ass)
Test item does not meet the requirement	F(ail)

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

”(see remark #)” refers to a remark appended to the report.

”(see Annex #)” refers to an annex appended to the report.

Clause numbers between brackets refer to clauses in IEC 60598-1 (EN 60598-1)

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

General product information:

The series products have the same circuit diagram, PCB

layout and functionality. The differences are the model name and appearance,
so, we select W-RGB30 to test.

Copy of marking plate and summary of test results:

Stage Laser System

Model: W-RGB30

Rating: 100-240V 50/60Hz 10A 2000W



GOLDEN STAR STAGE LIGHTING CO.,LIMITED



Name and address of the testing laboratory : Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie,
Dongguan, Guangdong, China

Test by :

Janice Li

Signature

Mar. 07, 2023

Date

Technician

Title

Review by :

Apple Li

Signature

Mar. 07, 2023

Date

Project Engineer

Title

Approved by :

Andy

Signature



Mar. 07, 2023

Date

Andy Zheng/ Manager

Name and Title



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict

17.1 (0)	SCOPE		P
17.1 (0.1)	More sections applicable..... :	Yes [☒] No [☐]	—

17.4 (2)	CLASSIFICATION		P
17.4 (2.2)	Type of protection..... :	Class I	—
17.4 (2.3)	Degree of protection..... :	IP 20	—
17.4 (2.4)	Portable or handheld luminaire :	No	—
	Fixed luminaire suitable for normally flammable surfaces..... :	Yes	—
	Fixed luminaire suitable for non-combustible materials only :	No	—
17.4 (2.5)	Luminaire for normal use :	Yes	—
	Luminaire for rough service :		—

17.5 (3)	MARKING		P
17.5 (3.2)	Mandatory markings		P
17.5 (-)	Additional marking 17.5.1 to 17.5.7		P
17.5 (3.2)	Position of the marking	On luminaires	P
	Format of symbols/text	Symbols $\geq 5\text{mm}$, Text $\geq 2\text{mm}$	P
17.5 (3.3)	Additional information		N/A
17.5.8 (-)	Instruction leaflet		P
	Language of instructions	English	P
17.5 (3.3.1)	Combination luminaires		N/A
17.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
17.5 (3.3.3)	Operating temperature		N/A
17.5 (3.3.4)	Symbol or warning notice		P
17.5 (3.3.5)	Wiring diagram		N/A
17.5 (3.3.6)	Special conditions		N/A
17.5 (3.3.7)	Metal halid lamp luminaire – warning		N/A
17.5 (3.3.8)	Limitation for semi-luminaires		N/A
17.5 (3.3.9)	Power factor and supply current		N/A
17.5 (3.3.10)	Suitability for use indoors		P
17.5 (3.3.11)	Luminaires with remote control	No such parts	N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.5 (3.3.12)	Clip-mounted luminaire - warning		N/A
17.5 (3.3.13)	Specifications of protective shields		N/A
17.5 (3.3.14)	Symbol for nature of supply	~	P
17.5 (3.3.15)	Rated current of socket outlet		N/A
17.5 (3.3.16)	Rough service luminaire		N/A
17.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type X attachment	P
17.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
17.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P

17.6 (4)	CONSTRUCTION		P
17.6.1 (-)	Lamp replacement		N/A
17.6.2 (-)	Explosion risk		P
17.6.3 (-)	Protective shield		N/A
17.6.4 (-)	Hanger (stirrup)		N/A
17.6.5 (-)	Removable accessories		P
17.6.6 (-)	Secondary suspension		N/A
17.6.7 (-)	Handles		N/A
17.6 (4.2)	Components replaceable without difficulty		P
17.6 (4.3)	Wireways smooth and free from sharp edges		P
17.6 (4.4)	Lampholders		N/A
17.6 (4.4.1)	Integral lampholder		N/A
17.6 (4.4.2)	Wiring connection		N/A
17.6 (4.4.3)	Lampholder for end- to- end mounting		N/A
17.6 (4.4.4)	Positioning		N/A
17.6 (4.4.5)	Peak pulse voltage		N/A
17.6 (4.4.6)	Centre contact		N/A
17.6 (4.4.7)	Rough service luminaires		N/A
17.6 (4.4.8)	Lamp connectors		N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.6 (4.5)	Starter holders		--
	Starter holder in luminaires other than class II	No such parts	N/A
	Starter holder class II construction		N/A
17.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
17.6 (4.7)	Terminals and supply connections		--
17.6 (4.7.1)	Contact to metal parts		P
17.6 (4.7.2)	Test 8 mm live conductor		P
	Test 8 mm earth conductor		P
17.6 (4.7.3)	Terminals for supply conductors		P
17.6 (4.7.4)	Terminals other than supply connection		P
17.6 (4.7.5)	Heat-resistant wiring/sleeves		P
17.6 (4.7.6)	Multi-pole plug		P
17.6 (4.8)	Switches:		--
	- adequate rating		P
	- adequate fixing		P
	- polarized supply		N/A
17.6 (4.9)	Insulating lining and sleeves		--
17.6 (4.9.1)	Retainment		P
	Method of fixing.....:		P
17.6 (4.9.2)	Insulated linings and sleeves		--
	a) & c) Insulation resistance and electric strength		P
	b) Ageing test. Temperature (°C).....:		N/A
17.6 (4.10)	Insulation of Class II luminaires		--
17.6 (4.10.1)	No contact, mounting surface - accessible metal parts - wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
17.6 (4.10.2)	Assembly gaps:		--
	- not coincidental		N/A
	- no straight access with test probe		N/A
17.6 (4.10.3)	Retainment of insulation:		--



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
17.6 (4.11)	Electrical connections		P
17.6 (4.11.1)	Contact pressure		P
17.6 (4.11.2)	Screws:		--
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
	- at least two self-tapping screws		N/A
17.6 (4.11.3)	Screw locking:		P
	- spring washer		P
	- rivets		N/A
17.6 (4.11.4)	Material of current-carrying parts		P
17.6 (4.11.5)	No contact to wood		P
17.6 (4.11.6)	Electro-mechanical contact systems		N/A
17.6 (4.12)	Mechanical connections and glands		--
17.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		P
	Torque test: torque (Nm); part.....:	1.2Nm	P
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
17.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
17.6 (4.12.4)	Locked connections:		--
	- fixed arms; torque (Nm).....:		N/A
	- lampholder; torque (Nm).....:		N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
17.6 (4.12.5)	Screwed glands; force (N).....:		N/A
17.6 (4.13)	Mechanical strength		--



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.6 (4.13.1)	Impact tests:		--
	- fragile parts; energy (Nm)..... :	0.35Nm	P
	- other parts; energy (Nm)..... :	0.5Nm	P
	1) live parts		P
	2) linings		P
	3) protection		P
	4) covers		P
17.6 (4.13.3)	Straight test finger		P
17.6 (4.13.4)	Rough service luminaires		--
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
17.6 (4.13.6)	Tumbling barrel		N/A
17.6 (4.14)	Suspensions and adjusting devices		--
17.6 (4.14.1)	Mechanical load:		--
	A) four times the weight		P
	B) torque 2,5 Nm		P
	C) bracket arm; bending moment (Nm)..... :		N/A
	D) load track- mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)..... :		N/A
	metal rod. Diameter (mm)..... :		N/A
17.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)..... :		N/A
	Stress in conductors (N/mm ²)..... :		N/A
17.6 (4.14.3)	Adjusting devices:		--
	- flexing test; number of cycles..... :		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
17.6 (4.14.5)	Guide pulleys		N/A
17.6 (4.14.6)	Strain on socket-outlets		N/A
17.6 (4.15)	Flammable materials:		--
	- glow- wire test 650 °C		P
	- spacing ≥ 30 mm		P
	- screen withstanding test of 13.3.1		P
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		P
	- electronic circuits exempted		P
17.6 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		--
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
17.6 (4.16)	Luminaires marked with F-symbol		N/A
	No lamp control gear	(compliance with Section 12)	N/A
17.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
17.6 (4.16.2)	Thermal protection:		--
	- in ballast or transformer		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
17.6 (4.16.3)	"F" curve measured	(see 12.6)	N/A
17.6 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
17.6 (4.18)	Resistance to corrosion:		--
17.6 (4.18.1)	- rust- resistance		P



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.6 (4.18.2)	- season cracking in copper		P
17.6 (4.18.3)	- corrosion of aluminium		P
17.6 (4.19)	Ignitors compatible with ballast		N/A
17.6 (4.20)	Rough service vibration		N/A
17.6 (4.21)	Protective shield:		--
17.6 (4.21.1)	Shield fitted		N/A
17.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
17.6 (4.21.3)	No direct path		N/A
17.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment		N/A
17.6 (4.22)	Attachments to lamps		N/A
17.6 (4.23)	Semi-luminaires comply class II		N/A
17.6 (4.24)	UV radiation, metal halide lamps		N/A
17.6 (4.25)	No sharp point or edges		P
17.6 (4.26)	Short-circuit protection:		--
17.6 (4.26.1)	Uninsulated accessible SELV parts		N/A
17.6 (4.26.2)	Short-circuit test		N/A
17.6 (4.26.3)	Test chain according to IEC 61032		N/A

17.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Working voltage (V).....:	100-240V~	—
	Voltage form	Sinusoidal [√] Non-sinusoidal []	—
	PTI	< 600 [√] ≥ 600 []	—
	Rated pulse voltage (kV).....:		—
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm).....:		P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm).....:		P



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm)..... :		P
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm)..... :		P
	(5) Current-carrying parts of switches and metal parts, after removal of insulation: cr (mm); cl (mm)..... :		N/A
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm)..... :		P

17.8 (7)	PROVISION FOR EARTHING		P
17.8 (7.2.1 + 7.2.3)	Accessible metal parts		P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω	0.06Ω	P
	Two self-tapping screws used		N/A
	Thread-forming screws		N/A
	Connector earthing first		N/A
17.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		N/A
17.8 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
17.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
17.8 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
17.8 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
17.8 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
17.8 (7.2.10)	Class II luminaire for looping-in		N/A
17.8 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A

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

17.9 (15)	SCREWLESS TERMINALS		N/A
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EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	Separately approved; component list	(see Annex 1)	N/A
17.9 (-)	Part of the luminaire (restriction)	(see Annex 4)	N/A

17.10 (5)	EXTERNAL AND INTERNAL WIRING		P
17.10 (5.2)	Supply connection and external wiring		P
17.10 (5.2.1)	Means of connection.....:		P
17.10 (5.2.2)	Type of cable.....:		P
17.10.1 (-)	Nominal cross-sectional area (mm ²) (modification)... :	1.0mm ²	P
17.10 (5.2.3)	Type of attachment, X, Y or Z	Type X	P
17.10 (5.2.5)	Type Z not connected to screws		N/A
17.10 (5.2.6)	Cable entries:		--
	- suitable for introduction		P
	- adequate degree of protection		P
17.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
17.10 (5.2.8)	Insulating bushings:		--
	- suitably fixed		P
	- material in bushings		P
	- tubes or guards made of insulating material		P
17.10 (5.2.9)	Locking of screwed bushings		N/A
17.10 (5.2.10)	Cord anchorage:		--
	- covering protected from abrasion		N/A
	- clear how to be effective		N/A
	- no mechanical or thermal stress		N/A
	- no tying of cables into knots etc.		N/A
	- insulating material or lining		N/A
17.10 (5.2.10.1)	Cord anchorage for type X attachment:		--
	a) at least one part fixed		P
	b) types of cable		P
	c) no damaging of the cable		P



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	d) whole cable can be mounted		P
	e) no touching of clamping screws		P
	f) metal screw not directly on cable		P
	g) replacement without special tool		P
	Glands not used as anchorage		P
	Labyrinth type anchorages		N/A
17.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		--
17.10 (5.2.10.3)	Tests:		--
	- 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
17.10 (5.2.11)	External wiring passing into luminaire		N/A
17.10 (5.2.12)	Looping- in terminals		N/A
17.10 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P
17.10 (5.2.14)	Mains plug same protection	No such parts	N/A
	Class III luminaire plug		N/A
17.10 (5.2.15)	Colour code low voltage	Not fluorescent lamp.	N/A
17.10 (5.2.16)	Appliance inlets (IEC 60320)		P
	Appliance couplers of class II type		N/A
17.10.2 (-)	Plugs and sockets		P
17.10 (5.3)	Internal wiring		P
17.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		--
	- not delivered/ mounting instruction	No through wiring	N/A
	- factory assembled		P
	- socket outlet loaded (A)..... :		N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	- temperatures..... :	(see Annex 2)	P
	Green- yellow for earth only		P
17.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		--
	Cross-sectional area (mm ²).....:		P
	Insulation thickness		N/A
	Extra insulation added where necessary		N/A
17.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		--
	Adequate cross-sectional area and insulation thickness		N/A
17.10 (5.3.1.3)	Double or reinforced insulation for class II		N/A
17.10 (5.3.1.4)	Conductors without insulation		N/A
17.10 (5.3.1.5)	SELV current-carrying parts		N/A
17.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
17.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		P
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
17.10 (5.3.3)	Openings		N/A
	Bushings not removable	No such parts	N/A
	Bushings in sharp openings		N/A
	Cables with protective sheath		N/A
17.10 (5.3.4)	Joints and junctions effectively insulated		P
17.10 (5.3.5)	Strain on internal wiring		N/A
17.10 (5.3.6)	Wire carriers		N/A
17.10 (5.3.7)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A
17.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
17.11 (8.2.1)	Live parts not accessible		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
17.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
17.11 (8.2.3)	Class II luminaire:		--
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
	Class I luminaire with BC lampholder		N/A
17.11 (8.2.4)	Portable luminaire:		N/A
	- protection independent of supporting surface		N/A
	- terminal block completely covered		N/A
17.11 (8.2.6)	Covers reliably secured		P
17.11 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$		P
	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		P

17.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
17.12 (12.3)	Endurance test:		P
	- mounting- position.....:	Normal	—
	- test temperature (°C).....:	35°C	—
	- total duration (h).....:	168h	—
	- supply voltage: Un factor; calculated voltage (V).....:	242V	—
	- lamp used.....:	Laser	—
17.12 (12.3.2)	After endurance test:		--



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system	No track system	N/A
	- marking legible		P
	- no cracks, deformation etc.		P
17.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
17.12.1 (-)	Exterior surface temperature	(see Annex 2)	P
17.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	P
17.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
17.12 (12.6.1)	- case of abnormal conditions..... :		—
	- electronic lamp control gear		P
	- 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
17.12 (12.6.2)	Temperature sensing control		--
	- 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
17.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		--
	- case of abnormal conditions..... :		—
17.12 (12.7.1)	- measured winding temperature (°C): at 1,1 Un..... :		—
	- measured temperature of fixing point/ exposed part (°C): at 1,1 Un..... :		N/A
	- calculated temperature of fixing point/ exposed part (°C)..... :		N/A
17.12 (12.7.2)	Temperature sensing control		N/A
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	- measured temperature of fixing point/ exposed part (°C):..... :		N/A

17.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
17.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		--
	- classification according to IP..... :	IP 20	—
	- mounting position during test..... :	In normal used	—
	- fixing screws tightened; torque (Nm)..... :	--	—
	- tests according to clauses..... :	Cl9.2 EN 60598-1	—
	- electric strength test afterwards	CL 10.2.2	P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or where it could become a hazard		N/A
	d) i) For luminaires without drain holes – no water entry		N/A
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		N/A
	f) no contact with live parts (IP 2X)		P
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
17.13 (9.3)	Humidity test 48 h	25°C, 93%RH, 48h	P

17.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
17.14 (10.2.1)	Insulation resistance test		P
	Insulation resistance (MΩ):		P
	SELV:		--
	- 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..... :	>10MΩ	P
	- between live parts and mounting surface..... :	>10MΩ	P
	- between live parts and metal parts..... :	>10MΩ	P



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	- between live parts of different polarity through action of a switch.....:		N/A
17.14 (10.2.2)	Electric strength test		--
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		--
	SELV:		--
	- 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:		--
	- between live parts of different polarity..... :	1440Vac	P
	- between live parts and mounting surface..... :	1440Vac	P
	- between live parts and metal parts.....:	1440Vac	P
	- between live parts of different polarity through action of a switch.....:		N/A
17.14 (10.3.1)	Leakage current (mA).....:	0.07mA	P

17.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		N/A
17.15 (13.2.1)	Ball-pressure test:		--
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
17.15 (13.3.1)	Needle flame test (10 s):		
	- part tested..... :		N/A
	- part tested..... :		N/A
17.15 (13.3.2)	Glow-wire test (650°C):		--
	- part tested..... :		N/A
	- part tested..... :		N/A
17.15 (13.4.1)	Tracking test: part tested..... :		N/A



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	COMMON MODIFICATIONS		N/A
(3.3.101 + 5.2.1)	For luminaires connected by tails, information about terminal block		N/A
(5.2.2)	Cables equal to HD 21 S2 or HD 22 S2		N/A
(5.2.15)	Colour code low voltage		N/A

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS		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)	DK, FI, SE, GB: type of plug		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS		N/A
(13.3)	DK: Needle flame test or glow-wire test 750°C for luminaires in access routes		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 and workers		N/A

ANNEX 1:	components				P
object/part No.	manufacturer/ trademark	type/model	technical data	mark(s) of conformity	
Plug of cord Set	Various	Various	250 V, 15 A/20A	VDE	
Power cord of cord set	Various	Various	3×1.0 mm ²	VDE	
PCB	Various	Various	130 °C V-0	VDE	
Internal wire	Various	Various	20-18AWG/105°C	VDE	
	ANNEX 2: temperature measurements, thermal tests of Section 12				P
	Type reference.....	:	W-RGB30		—
	Lamp used.....	:	Laser		—
	Lamp control gear used.....	:	--		—
	Mounting position of luminaire.....	:	Normal Mounting		—
	Supply wattage (W).....	:	1000.2W		—
	Supply voltage (V).....	:	233.2V		—
	Supply current (A).....	:	4.432A		—



EN 60598-1 & EN 60598-2-17							
Cl.	Requirement – Test	Result			Verdict		
	Calculated power factor.....:	0.94			—		
	Table: measured temperatures corrected for ta = 25 °C:					P	
	- abnormal operating mode.....:	--			—		
	- test 1: rated voltage..... :	--			—		
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....:	233.2V			—		
	- 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
Exterior surface		--	39.5	--	85	--	--
Power cord		--	32.4	--	105	--	--
Internal wiring		--	36.7	--	105	--	--
Ambient		--	25.5	--	--	--	--

	ANNEX 3: screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		--
(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		--
(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



EN 60598-1 & EN 60598-2-17			
Cl.	Requirement – Test	Result	Verdict
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N)..... :		N/A
(14.4.8)	Without undue damage		N/A
	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



EN 60598-1 & EN 60598-2-17											
Cl.	Requirement – Test					Result				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	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop of two inseparable joints										
	Voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV).....:									—	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV).....:									—	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV).....:									—	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV).....:									—	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											



ANNEX A:
Photo-documentation

Photo 1 General appearance of the EUT



Photo 2 General appearance of the EUT



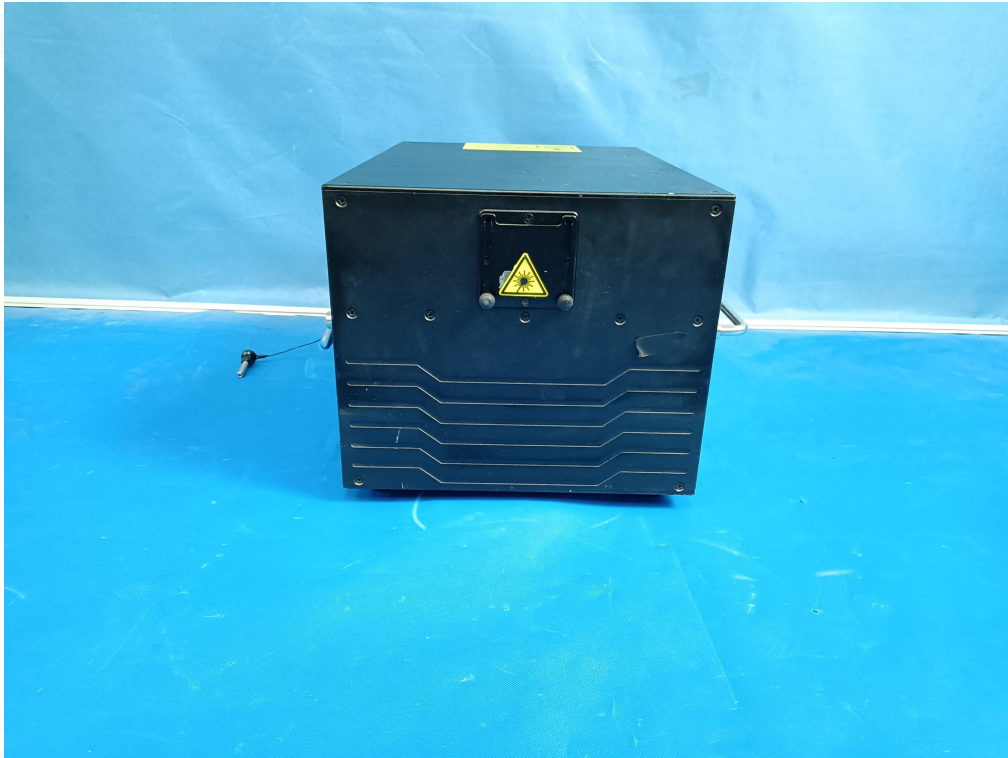
Photo 3 General appearance of the EUT**Photo 4 General appearance of the EUT**

Photo 5 General appearance of the EUT

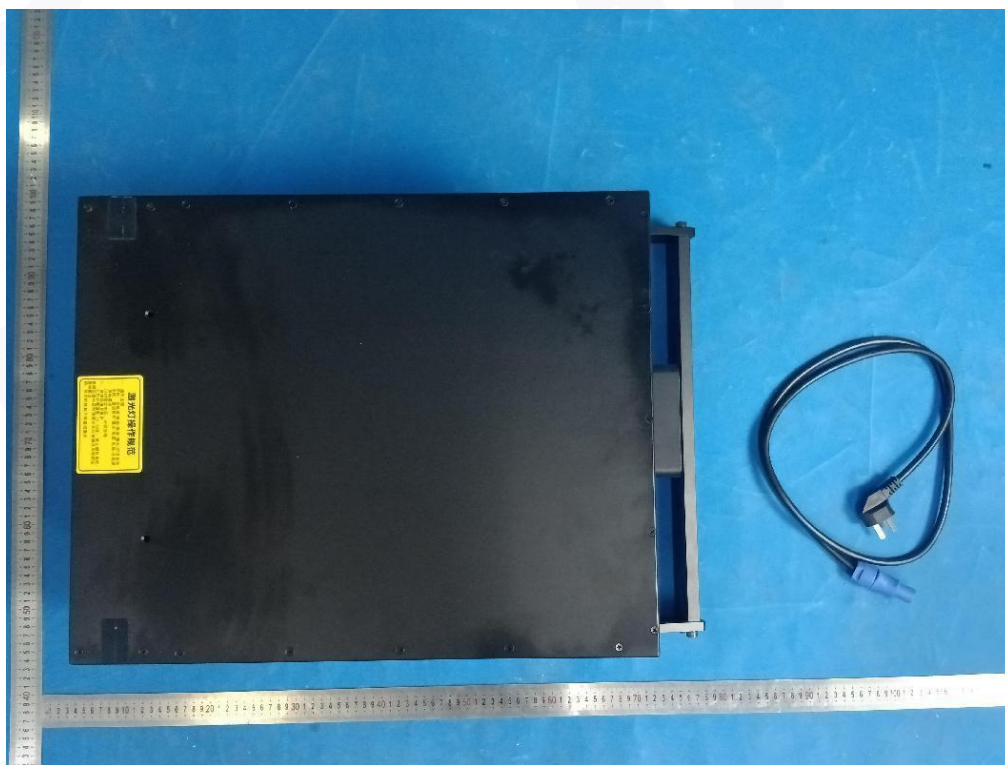
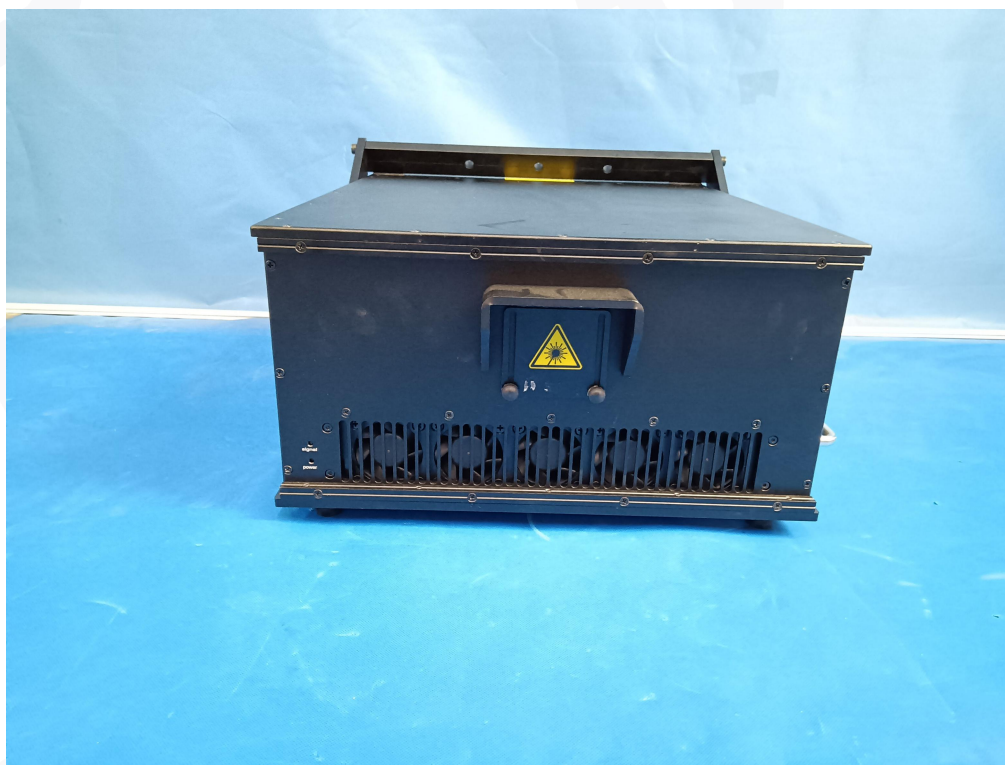


Photo 6 General appearance of the EUT



Photo 7 General appearance of the EUT



***** End of report *****