

LOW VOLTAGE DIRECTIVE TEST REPORT

For

LASER LIGHT

Model: X-RGB; X-G; X-B; X-R; X-P; X-GO; X-SP; X-U; X-LR; X-LG; X-LB; X-LL1-LL50

Brand Name: XLIGHTING

Report No.: ENC161213GZ12L1

Date of Issue: Dec. 15, 2016

Prepared For

X Lighting Co., Limited

Fourth Industrial, Jiaoxin, Shijing Town, Baiyun District, Guangzhou, China

TEL: +86-20-86020600

Prepared By

East Notice Certification Service Co., Ltd.

1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District,
Guangzhou City, China

TEL: +86-20-2331 4234

FAX: +86-20-8256 8534

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TEST REPORT EN 60598-2-17

Luminaires - Part 2: Particular requirements Section Seventeen - Luminaires for stage lighting, television and film studios (outdoor and indoor)

Report reference No.: ENC161213GZ12L1

Tested by: Samliu Review by (+ Signature). Yemig

Testing laboratory

Name: East Notice Certification Service Co., Ltd.

Tianhe District, Guangzhou City, China

Testing location: Same as above

Application

Name...... X Lighting Co., Limited

Address Fourth Industrial, Jiaoxin, Shijing Town, Baiyun District,

Guangzhou, China

Manufacturer

Name...... Guangzhou X Lighting Co., Limited

Address Fourth Industrial, Jiaoxin, Shijing Town, Baiyun District,

Guangzhou, China

Test specification

Standard EN 60598-2-17:1989+A2:1991, EN 60598-1:2015,

EN 62493:2010, EN 60825-1: 2007

Test Report Form/blank test report

Test Report Form No. : ENC60598-2-17A2

TRF originator. : ENC

Test item

Description: LASER LIGHT
Brand name: XLIGHTING

Model and/or type reference: X-RGB

Series models: X-RGB; X-G; X-B; X-P; X-GO; X-SP; X-U; X-LR; X-LG;

X-LB; X-LL1-LL5037, LD038, LD039, LD040, LD041, LD042, LD043, LD044, LD045, LD046, LD047, LD048, LD049, LD050

Rating(s) 100-240V~, 50/60Hz, 120W

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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)

Testing

Date of receipt of test item Dec. 9, 2016

Date(s) of performance of test Dec. 9, 2016 – Dec. 15, 2016

General remarks

This test 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 tested.

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

"(see appended table)" refers to a table appended to the report.

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

When determining the test result, measurement uncertainty has been considered.

Note:

This report shall not be altered, increase and deleted.

The results relate only to the items tested.

This report shall not be published as advertisement without the approval of ENC.

This report shall not be copied partly without the written approval of ENC.

Should any objections to the test reports occurred, should submit it to the company within ten days since the issuing of the report, Fail to accept.

Special description:

- 1. All tests are basic on model X-RGB.
- 2. All models have similar structure as X-RGB, except for the different appearance and power.
- 3. If not otherwise specified, the tests were performed on model X-RGB to represent the other similar models.
- 4. Specified maximum ambient temperature is 40 °C.

Summary of testing

All tests were found satisfactory in accordance with EN 60598-2-17:1989+A2:1991, EN 60598-1:2015, EN 62493:2010.

The product was classified as Class IIIb Laser product according to EN 60825-1: 2007

Marking on the appliance:

LASER LIGHT

Model: X-RGB

Rated Voltage: 100-240V~, 50/60Hz

Rated Power: 120W

X Lighting Co., Limited







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1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District, Guangzhou City Tel:+86-020-2331 4234 E-mail: enc@ enc-lab.com Fax:+86-020-8256 8534 Http://www.enc-lab.com



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	EN 60598-2-17			
Clause	Requirement - Test	Result		Verdict
17.1 (0)	SCOPE			
17.1 (0.2)	More sections applicable:	Yes⊠	No□	P

17.4 (2)	CLASSIFICATION		
17.4 (2.2)	Type of protection:	Class I	- 6
17.4 (2.3)	Degree of protection:	IP20	1 1 Th
17.4 (2.4)	Portable and handheld luminaries:	No	0.40
4	Fixed luminaire suitable for normally flammable surfaces:	Yes	- 4
047	Fixed luminaire suitable for noncombustible materials only:	No O4	000
17.4 (2.5)	Luminaire for normal use:	Yes	2
ò	Luminaire for rough service:	No o	- ć

17.5 (3)	MARKING		
17.5 (3.2)	Mandatory markings	4" 4"	Р
17.5 (-)	Additional marking 17.5.1 to 17.5.7	See below.	Р.(
005 0	Position of the marking	Affixed on enclosure.	OP
	Format of symbols/text		Р
17.5(3.2.1)	Mark of origin / Trade mark	X Lighting Co., Limited	Р
17.5(3.2.2)	Rated voltage	100-240V	P
17.5(3.2.3)	Rated maximum ambient temperature t _a	4 ,04	ON
17.5(3.2.4)	Symbol for Class II luminaires	D. T. D. T.	N
17.5(3.2.5)	Symbol for Class III luminaires	0 0	N
17.5(3.2.6)	Marking with IP numbers	IP20	N
17.5(3.6.7)	Model number or type reference	X-RGB	P
17.5(3.2.8)	Rated wattage or the type of lamp	120W	P 4
17.5(3.2.9)	The symbol for suitability or non-suitability for direct mounting on normally flammable surfaces	40 000	N
17.5(3.2.10)	Information concerning special lamps	V 100	N
17.5(3.2.11)	Symbol for lamps of similar shape to "cool beam"	4 4	N 4
17.5(3.2.12)	Terminations clearly marked or otherwise identified to give a clear indication as to which termination should be connected to the live side of the supply. Earthing terminations is clearly indicated by the symbol shown in IEC 60417	Compliance.	0 P
17.5(3.2.13)	Symbol for minimum distance from lighted objects	,0 ,0	N .

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Clause	Requirement - Test	Result	Verdict
17.5(3.2.14)	Symbol for rough service luminaries	Ordinary luminaire.	N
17.5(3.2.15)	Symbol for use with bowl mirror lamps	Not applicable.	N_
17.5(3.2.16)	Marking for luminaires incorporating a glass protective shield	4, 04,	N
17.5(3.2.17)	The maximum number of luminaries that provided for looping-in connection to the mains supply	30 30	N
17.5(3.2.18)	A warning symbol or notice for luminaries with ignitors	DY 047	ON
17.5(3.2.19)	Symbol for luminaires which are designed for use with self-shielded tungsten halogen lamps	45 45	N
17.5(3.2.20)	The adjustment not obvious, need to be identify.	30 30	Р
17.5(3.2.21)	Symbol for luminaires not suitable for covering with thermally insulated material	47 2047	ON
17.5(3.2.22)	Symbol for luminaires with internal replaceable fuses	4	N
17.5 (3.3)	Additional information	See below.	Р
025 0	Language of instructions	Additional	OB
17.5 (3.3.1)	Combination luminaire(IPX)	IP20	N
17.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	Р
17.5 (3.3.3)	Operating temperature	i i	N_á
17.5 (3.3.4)	Warning notice	See marking plate	04P
17.5 (3.3.5)	Wiring diagram	45° 45°	N
17.5 (3.3.6)	Special conditions	0 0	N
17.5 (3.3.7)	Metal halide lamp	15 C 15	N
17.5 (3.3.8)	Limitation for semi-luminaires	4 704	N
17.5 (3.3.9)	Power factor and supply current	4 4	N
17.5(3.3.10)	Suitability for use indoors		P
17.5(3.3.11)	Luminaires with remote control	A TOTAL	N
17.5(3.3.12)	Clip-mounted luminaire-warning	4 4	N
17.5(3.3.13)	Specifications of all protective	30 30	N
17.5(3.3.14)	Symbol for nature of supply	\$.OD	OP
17.5(3.3.15)	The rated current	15	N
17.5(3.3.16)	The information about rough service	7, 7,	N
17.5(3.3.17)	Attachments of type	Type X attachment	Pé
17.5(3.3.18)	Non-ordinary luminaires with PVC cable	4 204	ON
17.5(3.3.19)	For luminaires protective conductor current greater than 10 mA, clearly stated in the manufacturers' instructions.	47 47 0 0	N

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Clause	Requirement - Test	Result	Verdict
17.5(3.3.20)	Wall mounted and adjustable luminaires provided with information to advise their correct installation.	Account on user's manual.	N
17.5 (3.4)	Test of marking See below	6 06°	OBY
1.5	Test with water 15s	15S	Р
*	Test with hexane 15s	15S	Р
- Line	Legible after test Still legible	No any curling.	P
24 10	Label attached Still attached	No any curling.	0 P

17.6 (4)	CONSTRUCTION		
17.6.1 (-)	Lamp replacement	学 小学	P
17.6.2 (-)	Explosion risk	No explosion risk.	N
17.6.3 (-)	Protective shield	Compliance.	Р 🦠
17.6.4 (-)	Hanger (stirrup)	20 20	P . 6
17.6.5 (-)	Removable accessories	No such device	N
17.6.6 (-)	Secondary suspension	7	N
17.6.7 (-)	Handles	49 49	N
17.6 (4.2)	Components replaceable without difficulty	النبر النبر	N
17.6 (4.3)	Wireways smooth and free from sharp edges	4 ,04	ON
17.6 (4.4)	Lampholders	D. T. D. T.	N
17.6 (4.4.1)	Integral lampholder	0 0	N
17.6 (4.4.2)	Wiring connection	1 The 1 The 1	N
17.6 (4.4.3)	Lampholder for end-to-end mounting	4 704	N
17.6 (4.4.4)	Positioning	47 47	N 4
20	Pressure test (N)	20 20	N 🦚
045 30	After test the lampholder comply with relevant standard sheets and show no damage	45 7045	ON
30	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	4	N
04 ,0	Bending test(N)	4 204	ON
47	After test the lampholder have not moved from its position and show no permanent deformation	47 47	N 4
17.6 (4.4.5)	Peak pulse voltage	کنے کنے	N
17.6 (4.4.6)	Centre contact	4" 204"	ON
17.6 (4.4.7)	Rough service luminaires	15 15 15 V	N
17.6 (4.4.8)	Lamp connectors	0 0	N

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Clause	Requirement - Test	Result	Verdict
17.6 (4.4.9)	Caps and bases correctly used	×. 3	N
17.6 (4.5)	Starter holders	No starter	N
14 ,0	Starter holder in luminaires other than Class II	04' 204'	ON
45	Starter holder Class II construction	45 A	N
17.6 (4.6)	Terminal blocks	6 6	Р
The same	Tails	1 1 1 1 1	Р
140	Unsecured blocks	000	Р
17.6 (4.7)	Terminals and supply connections	4 4	Р
17.6 (4.7.1)	Contact to metal parts	,0 ,0	P
17.6 (4.7.2)	Location stranded wires	005 005	O N
The state of	8 mm test live conductor	4	N
4	8 mm test earth conductor	4 4	N
17.6 (4.7.3)	Terminals for supply cord	30 30	N.S
14,0	Welded connections:	04,04	04
A.T	- stranded or solid conductor	A. T. D.	N
7	- spot welding	7	N
The state of the s	- welding between wires		NÓ
14	- Type Z attachment	06, 706,	N
4	- mechanical test according to 15.8.2	47 4	N
,0	- electrical test according to 15.9	,0 ,0	N
105	- heat test according to 15.9.2.3 and 15.9.2.4	005 005	A.N
17.6 (4.7.4)	Terminals other than supply connection		N
17.6 (4.7.5)	Heat-resistant wiring/sleeves	4/ 4/	N
17.6 (4.7.6)	Multi-pole plug	40 40	N
17.6 (4.8)	Switches:	04,04	OP
A. The	- adequate rating	15	Р
X	- adequate fixing	× 2	Р
- File	- polarized supply		Pé
14	- compliance with 61058-1 for electronic switches	04 704	30 P
17.6 (4.9)	Insulating lining and sleeves	45	Р
17.6 (4.9.1)	Retainment	,0 .0	Р,
105	Method of fixing :	COST COST	A.PS
17.6 (4.9.2)	Insulated linings and sleeves	204	P
4)	Resistant to a temperature >20°C to the wire temperature or	0 4	Р

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EN 60598-2-17			
Clause	Requirement - Test	Result	Verdict
×.	a) & c) Insulation resistance and electric strength	× ×	Р
, in the	b) Ageing test. Temperature (°C):	کنے کئے	N
17.6 (4.10)	Double and reinforced insulation	4 204	04
17.6(4.10.1)	No contact metal-basic insulation	45 45 Y	Р
Ó	Safe installation fixed luminaires	0 0	Р
1. 15	Capacitors	17 17	P
10 A T	Interference suppression capacitors according to IEC 60384-14	15 15 15 15 15 15 15 15 15 15 15 15 15 1	N
17.6(4.10.2)	Assembly joints:	6 6	N
1. 17	- not coincidental	The state of the s	N
14	- no straight access	4 704 7	N
47	- degree of protection	4 4	N
17.6(4.10.3)	Retainment of insulation:	20 20	N
005 0	- fixed	05 005	N
7	- unable to be replaced; luminaire inoperative	7	N
49	- sleeves retained in position	49 49	N
- i	- lining in lampholder	کنے کنے	N
17.6 (4.11)	Electrical connections	4 ,04	0 P
17.6(4.11.1)	Contact pressure	105 D54	Р
17.6(4.11.2)	Screws:	0 0	N
	- spaced threaded screws	THE STATES	N
140	- thread-cutting screws	4 704	N
47	- earth continuity	47 47	N
17.6(4.11.3)	Screw locking:	20 20	- ,
005 0	- spring washer	5 005	N
The state of the s	- rivets	The state of the s	N
17.6(4.11.4)	Material of current-carrying parts	Cu	Р
17.6(4.11.5)	No contact to wood	No wood.	P
17.6(4.11.6)	Electro-mechanical contact systems	4,04	ON
17.6 (4.12)	Mechanical connections and glands	15 D.S	
17.6(4.12.1)	Mechanical stress	8 8	Р
The state of the s	Not made of soft metal	4	P
J. W. YO	Screws of insulating material	4 204	N
45	Torque test : torque (N·m) ; part:	47 45°	Р
17.6(4.12.2)	Screw diameter up to 3 mm	No such terminal.	N

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EN 60598-2-17			
Clause	Requirement - Test	Result	Verdict
17.6(4.12.4)	Locked connections:	× ×	Р
in the state of th	- fixed arms; torque (N·m):	نے نے	P
14 20	- lampholder; torque (N·m):	4 204	ON
20	- push-button switches; torque (N·m):	45 45	Р
17.6(4.12.5)	Screwed glands; force (N):	0 0	N
17.6 (4.13)	Mechanical strength	17 11 T	P
17.6(4.13.1)	Impact tests:	4 704	Р
47	- fragile parts ; energy (N·m):	4 4	N
,0	- other parts; energy (N·m):	Exceed 0,7Nm	Р
10,50	1) live parts	Inaccessible.	OP
7 74	2) linings	7	N
4	3) protection	4	Р
i C	4) covers	30 30	N_S
17.6(4.13.3)	Straight test finger	30N	OP
17.6(4.13.4)	Rough service luminaires	65	N
6	a) fixed	6 6	N
- F	b) hand-held	\$ 1 F	N
14 30	c) delivered with a stand	9 404	N
47	d) for temporary installations and suitable for mounting on a stand	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N
17.6(4.13.6)	Tumbling barrel		N
17.6 (4.14)	Suspensions and adjusting devices	4 704	P
17.6(4.14.1)	Mechanical load:	47 47	Р
,0	A) four times the weight	X4	Р
105 0	B) torque 2,5 N·m	05 005	OPY
The state of the s	C) bracket arm; force (N):	10N	Р
49	D) load track-mounted luminaires	49 49	N
105 C	E) clip-mounted luminaires, glass-shelve; thickness (mm):	05 00F	N.S
The state of the s	metal rod; diameter (mm):	4	N
17.6(4.14.2)	Load to flexible cables:	4	N
-10	- mass (kg):	30 30	N
14,0	- stress in conductors (N/mm²):	4,04	ON
15	- semi-luminaires; mass (kg):	A. A.S	N
7	- semi-luminaires ; bending moment (N·m) :	Y Y	N

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EN 60598-2-17			
Clause	Requirement - Test	Result	Verdict
17.6(4.14.3)	Adjusting devices:	× ×	
25	- rotating test; number of cycles:	کنے کنے	N
14 ,0	- strands broken	4 204	ON
A5 4	- high voltage test and insulation resistance Test	Any An	N ,
17.6(4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	30 30	N
17.6(4.14.5)	Guide pulleys	4 104	ON
17.6(4.14.6)	Strain on socket-outlets	De De	N
17.6 (4.15)	Flammable materials:	6 6	N
The same of	- glow-wire test 65°C	The state of the s	N
140	- spacing≥30 mm	4 704	N
47	- screen withstanding test of 13.3.1	47 47	N
,0	- screen dimensions	,0 ,0	N
105 0	- no fiercely burning material	5 05	O N
4	- thermal protection	The state of the s	N
4	- electronic circuits exempted	4 4	N
17.6(4.15.2)	Luminaires made of thermoplastic material	40	N
14,0	a) construction	4,04	ON
AT	b) temperature sensing control	AT A	N
6	c) surface temperature	6 6	N
17.6 (4.16)	Luminaires for mounting on normally flammable surfaces	45 ,045 T	ON
AT	No lamp control gear	A. A.	N
17.6(4.16.1)	Lamp control gear spacing:	6 6	N
THE RESERVE	- spacing 35 mm	The state of the s	N
14 70	- spacing 10 mm	000	N
17.6(4.16.2)	Thermal protection:	47 49	N
,0	- in ballast or transformer	,0 ,0	N
10,5	- external	10.5 CIDS	N
7	- fixed position	A	N
4	- temperature marked lamp control gear	4	N
17.6(4.16.3)	Design to satisfy the test of 12.6	(see 12.6)	N
17.6 (4.17)	Drain holes	4,00	OW
4.5	Clearance at least 5 mm	A. A.	N
17.6 (4.18)	Resistance to corrosion:	7 9	

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Tel:+86-020-2331 4234

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Clause	Requirement - Test	Result	Verdict	
17.6(4.18.1)	- rust-resistance	Y Y	N	
17.6(4.18.2)	- season cracking in copper	in the same	N_A	
17.6(4.18.3)	- corrosion of aluminium	04' 204'	ON	
17.6 (4.19)	Ignitors compatible with ballast	65 65	N	
17.6 (4.20)	Rough service vibration:	No such requirement	N	
17.6 (4.21)	Protective shield	1. 1. The 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	N	
17.6(4.21.1)	Appropriate symbol	704	N	
4	Shield fitted	4' 4'	N	
17.6(4.21.2)	Particles from a shattering lamp not impair safety	20 20	N	
17.6(4.21.3)	- no direct path	00 00	ON	
17.6(4.21.4)	Impact test on shield	7	N	
49	Glow-wire test on lamp compartment	49 49	N	
17.6 (4.22)	Attachments to lamps	الله الله	N	
17.6 (4.23)	Semi-luminaires comply with Class II	04',04'	ON	
17.6 (4.24)	UV radiation, metal halide lamps	No UV radiation	N	
17.6 (4.25)	No sharp point or edges	0 0	Р	
17.6 (4.26)	Short-circuit protection		N	
17.6(4.26.1)	- uninsulated accessible SELV parts	09 309	N	
17.6(4.26.2)	Short-circuit test	4" 4"	N	
17.6(4.26.3)	Test chain	,0 ,0	N	
17.6 (4.27)	Terminal blocks with integrated screwless earthing contacts	045 2045	ON	

17.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		
	Class of protection:	Class I	005
Trial and the same	Working voltage (V):	100-240V	· -
49	Voltage form:	Sinusoidal	
4	PTI:	< 600	
047	Impulse withstand category	Category II	04
0,5	Rated pulse voltage (Kv):	59 59	
ó	(1) Live parts of different polarity: cr (mm); cl (mm)	Cr > 2,5 mm; Cl >1.5 mm	Р
) 4°	(2) Live parts and accessible parts: cr (mm); cl (mm)	Cr > 2,5 mm; Cl >1.5 mm	OP
,0	(3) Parts becoming live: cr (mm); cl (mm) :	Cr > 2,5 mm; Cl >1.5 mm	Р

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Clause	Requirement - Test	Result	Verdict
X	(4) Outer surface of cable: cr (mm); cl (mm) :	× ×	N
045	(5) Live parts of switches: cr(mm); cl(mm) :	Cr > 2,5 mm; Cl >1.5 mm	P
45	(6) Live parts and supporting surface: cr (mm); cl (mm)	Cr > 2,5 mm; Cl >1.5 mm	Р

17.8 (7)	PROVISION FOR EARTHING		
17.8(7.2.1+7.2 .3)	Metal parts	Dependable earthing.	Р
10	Accessible metal parts	20 20	P
0000	Metal parts and supporting surface	105 00°	OB
7	Resistance < 0.5Ω	0,036Ω	Р
49	Two spaced threaded screws used	4	N
- i	Thread-forming screws	- Line 1	N
14 ,0	Connector earthing first	14' 104'	OP
17.8(7.2.2+7.2 .3)	Earth continuity	Compliance.	P 4
17.8 (7.2.4)	Locking of clamping means	Line 1	P
14 ,0	Compliance with 4.7.3	14 ,04	OP'
45	Adequate locking	DY DY	Р
Ó	Loosening of clamping means	0 0	Р
17.8 (7.2.5)	Connector socket	The same	P
17.8 (7.2.6)	Position of the earth terminal	14 700 P	P
17.8 (7.2.7)	Corrosion of the earth terminal	47 47	Р 🦠
17.8 (7.2.8)	Material of earth terminal	Cu	Р 🤏
0	Contact surface bare metal	105 005	OB
17.8 (7.2.10)	Class II luminaire for looping-in	The state of the state of	N
17.8 (7.2.11)	Earthing core coloured green-yellow	9 9	Р
250	Length of earth conductor	More than L/N.	P

17.9 (14)	SCREW TERMINALS		
ó	Separately approved; component list	ó ó	N Ó
1 1 T	Part of the luminaire	(See Annex 3)	N

17.9 (15)	SCREWLESS TERMINALS				
,0	Separately approved; component list	,0	,0	0	N , C

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Clause	Requirement - Test	Result	Verdict
17.9 (-)	Part of the luminaire (restriction)	(See Annex 4)	N

17.10 (5)	EXTERNAL AND INTERNAL WIRING		
17.10 (5.2)	Supply connection and external wiring	A. T. A. T.	P
17.10(5.2.1)	Means of connection :	6 6	P
17.10(5.2.2)	Type of cable :	H05VV-F	Р
17.10.1 (-)	Nominal cross-sectional area(mm²) :	3x0,75 mm²	P
17.10(5.2.3)	Replacement of non- detachable cable and cords.	Type X attachment	Р 🤻
17.10 (5.2.5)	Non-screw connection of type Z.	,0 ,0	N 6
17.10 (5.2.6)	Cable entries	105 005	00
The state of the s	- suitable for introduction		N
20	- adequate degree of protection	4	N
17.10 (5.2.7)	Cable entries through rigid material have rounded edges	00th 00th	N.S.
17.10 (5.2.8)	Insulating bushings:	7	· <u>-</u>
49	- suitably fixed	49 49	N
- i	- material in bushings	کنے کنے	N
04,0	- tubes or guard made of insulating material	14,04	ON
17.10 (5.2.9)	Locking of bushings	AT AT	N ø
17.10(5.2.10)	Cord anchorage:	0 0	- 2
	- covering protected from abrasion	The same	N
140	- clear how to be effective	14 704	N
47	- no mechanical or thermal stress	47 47	N 4
,0	- no tying of cables into knots etc.	,0 ,0	N (
005 0	- insulating material or lining	105 005	N
17.10(5.2.10.1)	Cord anchorages of type X attachment	45 45	Р
,0	a) at least one part fixed	,0 ,0	P (
005 0	b) types of cable	105 005	OPY
The state of the s	c) no damaging of the cable	4	Р
49	d) whole cable can be mounted	49 49	P 🦠
4	e) no touching of clamping screws	- i	P
04",0	f) metal screw not directly on cable	14,04	0 P
0.5	g) replacement without special tool	0,5 D,5	Р
ò	Glands not used as anchorage	0 0	Р

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Clause	Requirement - Test	Result	Verdict
×.	Labyrinth type anchorages	*	Р
17.10(5.2.10.2)	Type Y and Z attachments have adequate cord anchorages	Type X attachment	ONS
17.10(5.2.10.3)	Tests:	47 45	N
20	- impossible to push cable; unsafe	20 20	N
10	- pull test: 25 times; pull (N)	00 00	ON
17	- torque test: torque (Nm)	· · · · · · · · · · · · · · · · · · ·	N
**	- displacement<2 mm	9 9	N
and C	- no movement of conductors	- i	N
10	- no damage of cable or cord	04',04'	ON
17.10(5.2.11)	External wiring passing into luminaire	No such parts	N
17.10(5.2.12)	Looping-in terminals	6 6	N
17.10(5.2.13)	Wire ends not tinned	1 3 1 3	N
14 50	Wire ends tinned: no cold flow	00 00	N
17.10(5.2.14)	Plug against electric shock protection	47 47	Р
,0	Class III luminaire plug	No this plug	N
17.10(5.2.16)	Appliance inlets (IEC 320)	005 005	OP
The state of the s	Appliance couplers of class II type		N
17.10(5.2.17)	Inter-connecting cables not made of standardized insulated and sheathed cables	, 6 , 6	N
17.10(5.2.18)	Portable luminaires with socket outlet	005 005	ON
17.10.2 (-)	Plugs and sockets	4	Р
17.10 (5.3)	Internal wiring	4	Р
17.10 (5.3.1)	Internal wiring of suitable size and type	VW-1	P
14,0	Through wiring	04',04'	04
AT	- not delivered/ mounting instruction	D. Y D. Y	N
ŏ	- factory assembled	6 6	N
Till	- socket outlet loaded (A):	1 7 1 7	N
10	- temperatures:	000	N
47	Green-yellow for earth only	Green/yellow	N
17.10(5.3.1.1)	Internal wiring connected directly to fixed wiring	,0 ,0	Р
105 0	Cross-sectional area (mm²)	009 009	OPS
7	Insulation thickness	>0,6mm ²	Р
4	Extra insulation added where necessary	\$ \$\psi' \psi'	N

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Clause	Requirement - Test	Result	Verdict
17.10(5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device	20 20	N
4 20	Adequate cross-sectional area and insulation thickness	47 2047	ON
17.10(5.3.1.3)	Double or reinforced insulation for class II	4 4	N
17.10(5.3.1.4)	Conduct without insulation	20 20	N <
17.10(5.3.1.5)	SELV current-carrying parts	00	ON
17.10(5.3.1.6)	Insulation thickness other than PVC or rubber	A. T. A.	N
17.10 (5.3.2)	Sharp edges etc.	~ ~	Р
reid C	No moving parts of switches etc.	ei ei	P
14 20	Joints, raising/lowering devices	04' 204'	204N
45	Telescopic tubes etc.	15° 16	N
Ó	No twisting over 360°	0 0	Р
17.10 (5.3.3)	Openings	1 15 1 15	N
14 D	Bushings not removable	76	N
47	Cables with protective sheath	4 4	N
17.10 (5.3.4)	Joints and junctions:	,0 ,0	Р
10 0	- easily accessible	005	OPS
15	- effectively insulated	7	P
17.10 (5.3.5)	Strain on internal wiring No such wiring	49 49	N
17.10 (5.3.6)	Wire carriers	کنے کنے	N
17.10 (5.3.7)	Wire ends not tinned	14" 104"	ON
But	Wire ends tinned:	AT A	Р

17.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		
17.11(8.2.1+8. 2.5)	Live parts are not accessible	4 5 0 4 5 3	P
ò	Protection in any position	ó ó	P 2
C. The C.	Insulation lacquer not reliable	The state of the s	P
J 40	Double-ended tungsten filament lamp	9 10 9 1	N
4	Double-ended high pressure discharge lamp	4 4	N 4
1. 1. 5°	Ø 50 mm probe according to Figure 1 in IEC 61032 for wall-mounted luminaires	ATO CATO	P
17.11 (8.2.2)	Portable luminaire	4 204 3	0.40
47	a)Class II luminaire:	4 4	Р 🦂

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EN 60598-2-17			
Clause	Requirement - Test	Result	Verdict
Š	-basic insulated metal parts not accessible during starter or lamp replacement	20 2	N
147	-basic insulation not accessible other than during starter or lamp replacement	14 204°	ON
.0	-glass protective shields not used as supplementary insulation	0 2	N
14 Th	- glass protective shields not used as supplementary insulation	45 C45	ON
45	b).Class I luminaire with BC lampholder	45° 4	N N
.0	c). Class III luminaires with exposed SELVS:	.0 .6) N
12.5	Ordinary luminaire:	115 115 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
A. A.	- touch current:	4 504	N
4	- no-load voltage	4	N
30	Other than ordinary luminaire:	30 30	N s
10	- nominal voltage:	00	ON
17.11 (8.2.4)	Portable luminaire:	4.5	N
×.	- protection independent of supporting surface	7, 3	N
25	- terminal block completely covered	the state of	N
17.11(8.2.5)	Compliance with the standard test finger or relevant probe	1	P
17.11 (8.2.6)	Covers have adequate strength	(see 4.13)	P
4	Covers reliably secured	A A	P.
17.11 (8.2.7)	Discharging of capacitors 0,5 Uf	04, 04,	ON
45	Plug connected luminaire with capacitor	45 4	N
.0	Other plug connected luminarie with capacitor	.0 .6) N
17	Discharge device on or within capacitor	15 1 15 Th	N
The state of the s	Discharge device mounted separately	704	N

17.12 (12)	17.12 (12) ENDURANCE TEST AND THERMAL TEST		
17.12 (12.3)	Endurance test:	00 00	OP
17	- mounting-position:	(see Annex 2)	Р
7	- test temperature (°C):	25 ℃	P
	- total duration (h):	168h	P
04 ,0	- supply voltage: Un factor; calculated voltage (V)	1,10×240 V	OP'
0,5	- lamp used:	Laser	P
17.12(12.3.2)	After endurance test:	0 0	Р

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EN 60598-2-17				
Clause	Requirement - Test	Result	Verdict	
×.	- no part unserviceable	Y Y	Р	
Line Comment	- luminaire not unsafe	کیے کیے	P	
14' ,0	- no damage to track system	4' ,04'	ON	
Dist.	- marking legible	As As	Р	
6	- no cracks, deformation etc.	6 6	Р	
17.12 (12.4)	Thermal test (normal operation)	The state of the s	P	
17.12.1 (-)	Exterior surface temperature	40°C	P	
17.12 (12.5)	Thermal test (abnormal operation)	4 4	Р	
17.12 (12.6)	Thermal test (failed ballast or transformer condition):	,0 ,0	,	
17.12(12.6.1)	Through wiring or looping-in wiring loaded by a current of (A):	45 7045	ON	
4	- case of abnormal conditions:	4" 4	N	
,0	- electronic ballast	,0 ,0	N	
105 0	- measured winding temperature (℃): at1,1 Un	05 005	ON	
4,4	- measured mounting surface temperature (°C): at 1,1 Un:	4 4	N	
,0	- calculated mounting surface temperature(℃)	,0 ,0	N	
005 0	- track-mounted luminaires	05 005	ON	
17.12(12.6.2)	Temperature sensing control	7	÷ -	
4	- case of abnormal conditions:	47 49	N	
A	- thermal links:	× ×	N	
14,0	- manual reset cut-out	4,04	ON	
4.5	- auto reset cut-out	D. Y D.	N	
- A	- measured mounting surface temperature (°C) :	6 6	N	
The same of	- track-mounted luminaires	The state of the s	N	
17.12 (12.7)	Thermal test (failed ballast or transformer in plastic luminaires):	\$ 50 Q	\$ 0 P	
17.12(12.7.1)	Test for luminaires without temperature sensing controls:	30 30	N	
17.12(12.7.1.1	Test for luminaires incorporating ballast(s) of fluorescent lamps with a lamp load ≤70 W	4 04	N	
4	Test method 12.7.1.1 or Annex V:	4	N	
- i	Test according to 12.7.1.1:	30 30	N	
14,0	- case of abnormal conditions:	4,04	ON	
0.3	- Ballast failure at supply voltage(V):	A. A.	N	
7	- Components retained in place after the test	7 7	N	

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EN 60598-2-17			
Clause	Requirement - Test	Result	Verdict
*	- Test with standard test finger after the test	× >	N
, in the	Test according to Annex V:	المر المر	N
04 ,0	-case of abnormal conditions	4 ,04	ON
A)	-measured winding temperature(℃): at 1.1Un.:	A5 A	N
40	-measured temperature of fixing point/exposed part(°C): at 1.1Un:	à à à	N
04 ,0	-calculated temperature of fixing /esposed part(°C):	4 ,04	ON
Di	Ball-pressure test:	D D	, N
Ó	-part tested; temperature(°C)::	6 6	N
a The same	-part tested; temperature(°C)::	The state of the s	N
17.12(12.7.1.2)	Test for luminaires incorporating discharge lamps, fluorescent lamps (>70 W),transformer of power >10 VA	47 4	N
reis C	- case of abnormal conditions:	reis reis	N
12.7.1	-measured winding temperature(°C) at1.1Un	4, 104,	ON
47	- measured mounting surface temperature (°C) at 1,1 Un:	47 4	N
, Lie	- calculated mounting surface temperature (°C)	in the state of th	N
04, 0	Ball-pressure test:	4 204	ON
25	-part tested; temperature(°C)::	45° A	N
17.12(12.7.1.3)	Test for luminaires with inherently short-circuit proof transformer of power ≤10 VA	خ خ	N
04 10	-case of abnormal conditions	4 ,04	ON
A) Y	-components retained in place after the test	A3 A	N
Ó	-test with standard test finger after the test	0 8	N
17.12(12.7.2)	Temperature sensing control:	15 1 15 Th	N
- A	- thermal link	4 704	N
47	- manual reset cut-out	4 4	N A
10	- auto reset cut-out	20 20	N (
045 DO	- measured temperature of fixing point/ exposed part (°C):	45 2045	ON
4	Ball-pressure test:	4 4	N A
,0	-part tested; temperature(°C)::	,0 ,0	N .

17.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	-
17.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	- %

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EN 60598-2-17				
Clause	Requirement - Test	Result	Verdict	
×.	- classification according to IP:	IP20		
A. C.	- mounting position during test:	کنے کنے	,\text{\(\text{\text{L}}\)	
) 4° 1	- fixing screws tightened; torque (Nm):	04' 204'	204	
25	- tests according to clauses:	45 A	· ,	
Ó	- electric strength	6 6		
1. 15	a) no deposit in dust-proof luminaire	17 17	N	
147	b) no talcum in dust-tight luminaire	700	N	
4	c) no trace of water on live parts	4 4	N	
,0	d) no accumulation of water in waterproof luminaire	20 20	N	
200	e) no water in watertight luminaire	005 005	N	
7	f) no contact with live parts		N	
49	g) no trace of water on any part of a lamp	**************************************	N	
- in	h) no damage	کنے کنے	N	
17.13 (9.3)	Humidity test	30℃, 95%RH, 48h	0 P	

17.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENG	STH	
17.14(10.2.1)	Insulation resistance test:	\$ 1.5°	1 - P
049 30	Class of protection:	Class I	0.40
47	Insulation resistance (MΩ):	47 47	4
20	SELV:	,0 ,0	- , (
045 30	- between current-carrying parts of different polarity:	45 2045	ON
4°	- between current-carrying parts and mounting surface:	4 4 4 O	N
045	- between current-carrying parts and metal parts of the luminaire:	4th 104th	ON
45	Other than SELV:	45 45	/
Ó	- between live parts of different polarity:	>2 MΩ	Р
1. 1. Th	- between live parts and mounting surface:	>2 MΩ	P
	- between live parts and metal parts:	>2 MΩ	P
4	- between live parts of different polarity through action of a switch:	\$ \$\text{\$\psi}\$	Р
17.14(10.2.2)	Electric strength test:	The state of the s	A 15
	Class of protection:	Class I	0.40
4	Luminaires with ignitors after 24 h test	4 4	4
,0	Luminaires with manual ignitors	Compliance.	, (

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Clause	Requirement - Test	Result	Verdict	
*	Test voltage (V):	× ×	3	
,eis O	SELV:	i i	A	
04' 20	- between current carrying parts of different polarity	4 204	ON	
25	- between current carrying parts and mounting surface	65 65	N	
, ió	- between carrying parts and metal parts of the luminaire	do do	N	
04' 10	Other than SELV:	4 ,04	04	
25	- between live parts of different polarity:	1480 V	Р	
Ó	- between live parts and mounting surface :	1480 V	Р	
1.15	- between live parts and metal parts:	1480 V	P	
15 To	- between live parts of different polarity through action of a switch:	15 A	Р	
17.14(10.3.1)	Touch current (mA):	0,038mA	Р	

17.15 (13)	5 (13) RESISTANCE TO HEAT, FIRE AND TRACKING		
17.15(13.2.1)	Ball-pressure test:	47 47	
1. 15	- part tested; temperature (°C)::	Terminal: 125℃; 0,6mm	Р
17.15(13.3.1)	Needle flame test (10 s):	74 704	V 40
47	- part tested:	Terminal	Р
17.15(13.3.2)	Glow-wire test (650 ℃):	70 70	- 4
045 C	- part tested	PCB	OP
17.15(13.4.1)	Tracking test: part tested:	7	N

ANNEX E	MF		
	The tested product also complies to the requireme	nts of EN 62493:2010	Р
D.	Measuring distance:	50 cm	
ó	Applied limit:	F<0,85	
1 1 Th	Measuring result:	Fmax=0,06	P

EN 60825-1				
Model Laser wave length Radiant Power under operation condition (mW)				
X-RGB	405-658	Max. 80mW	<iiib< td=""></iiib<>	

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	ANNEX 2: Temperature measure	ements, thermal tests	of Section 12	2.4	OPO
_	Type reference	5	X-RGB	Ż.	T
7	Lamp used		Laser		
, di	Ballast used		, d	in the second	
14)	Mounting position of luminaire	9	Normal mou	unting	200
4	Supply wattage (W)		116,3W	4	
,0	Supply current (A)		0,605A	2)
105	Calculated power factor		0,836	005	00
	Table: measured temperatures con	A 1 M A	7	ET DE	The state of
49	- abnormal operating mode	4	49	3	
-id	- test 2: 1.06 times rated voltage		1,06×240V	7	
Temperat	ture (℃) of part	Testing temperature	(℃)	O CLimit	(°C)
Plug	5 45 45	28,1	(A)	70	
Supply co	ord 6	29,3	ò	75	5
Inside wir	ing	36,9	1. 15	10	5
Terminal	200 200 200	28,5	70.40	90) L V 49
Enclosure	e 4 4	27,6	\$	85	5
Power su	pply	46,4	40	12	0
РСВ	.04 .04 .04	36,0	000	13	0.00
Mounting	surface	26,5	2	90) 🕏
Ambient	X X	26,1	Y	3	

04	ANNEX 3: screw terminals (part of the luminaire)	04, 704,	ON
(14)	SCREW TERMINALS	45 45	N a
(14.2)	Type of terminal:	,0 ,0	N
CAS I	Rated current (A):	CAT CLAT	N
(14.3.2.1)	One or more conductors	The state of the s	N
(14.3.2.2)	Special preparation	4	N
30	Cross-sectional area (mm²):	40	N S
(14.3.3)	Conductor space (mm):	04,04	ON
(14.4)	Mechanical tests	15 A	₹ N
(14.4.1)	Minimum distance	5 5	N
(14.4.2)	Cannot slip out	1 7 1 7	N
(14.4.3)	Special preparation	J. Q. Q. Q. Z. Q. Q. Z. Z. Q. Z.	N
(14.4.4)	Nominal diameter of thread (metric ISO thread) .	47 47	N 4
,0	External wiring	,0 ,0	N 🤇

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00 0	No soft metal	00 00	ON
(14.4.5)	Corrosion	15	N
(14.4.6)	Nominal diameter of thread (mm):	X. X.	N
- E	Torque (Nm)		N
(14.4.7)	Between metal surfaces N	04, 704,	N
45	Lug terminal N	47 47	N 4
,0	Mantle terminal N	,0 ,0	N (
C105 1	Pull test; pull (N):	CIDE CIDE	N

4	ANNEX 4: screwless terminals (part of the luminal	re)	N
(15)	SCREWLESS TERMINALS N	- i	N
(15.2)	Type of terminal:	No such terminals	ON
45	Rated current (A):	05 D	N
(15.3.1)	Material	ò ò	N
(15.3.2)	Clamping	1 1 T	N
(15.3.3)	Stop	204	N
(15.3.4)	Unprepared conductors	4 4	N
(15.3.5)	Pressure on insulating material	20 20	N
(15.3.6)	Clear connection method	00 00	ON
(15.3.7)	Clamping independently	17 15	N
(15.3.8)	Fixed in position	Y. Y.	N
(15.3.10)	Conductor size	4 4	N
14 70	Type of conductor	04, 704,	4 O N
(15.5.1)	Terminals internal wiring	43° 43°	N
(15.5.1.1)	Pull test spring-type terminals (4 N, 4samples)	,0 ,0	N
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples)	005 005	N.
- File	Insertion force not exceeding 50 N	7 7	N
(15.5.2)	Permanent connections: pull-off test (20 N)	4 4	N
(15.6)	Electrical tests	40	N s
14,0	Voltage drop (mV) after 1 h (4 samples):	04,04	ON
0.5	Voltage drop of two inseparable joints	0.5	N
ò	Number of cycles:	6 6	N
14° , C	Voltage drop (mV) after 10th alt. 25th cycle (4 samples):	047 047	ON
47	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	4 4	N

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00000	After ag	geing, vo	oltage dr	op (mV) a	after 10t	th alt. 25	th 💍	05	00	3	ON
17	797	4 00 3	_		-	7	15	, A	Ž.	45	N
20	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):							N			
(15.7)	17.00		rnal wirir	75.	. 6	145 Y	.0	45	.00	3	ON
AT	Terminal size and rating						N				
(15.8.1)	Pull tes	t spring	-type ter	minals (4	sample	s); pull (N)	0		6	N
a The same of the	Pull tes	t pin or	tab term	inals (4 s	amples)	; pull (N)	The same		- File	N
(15.9)	Contact	t resista	nce test	04	70	149	30	4	404	,	Ñ
47	Voltage	drop (r	nV) after	1 h	4	A	D. A.	4	y	4	/
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)	♦ <u>~</u>	¢09	,	04	7	145	40	\$ <u>-</u>	¿09	,	ON
49	Voltage drop of two inseparable joints						N				
- Fix	Voltage drop after 10th alt. 25th cycle					N					
04-0	Max. al	lowed v	oltage di	rop (mV)	ا کے نا	149	, š	4	400	n de	00
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)	OF THE REAL PROPERTY.	.04	\$	045	, C	100	0	O. P.	.04	÷-	ONÉ
D. T	Voltage	drop a	fter 50th	alt. 100th	n cycle		2,5	Di	7	45	N
Ó	Max. al	lowed v	oltage di	rop (mV).	Ó		Ó	0		0	
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)		÷	***		4-5	4	25-		-	4	N
1	Continued ageing: voltage drop after 50th alt. 100th cycle						N				
04 ,0	Max. allowed voltage drop (mV) .:						04				
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)	250		\$ C	0.05	0_	10.5	- -/-	A. 5	<u></u>	\$ C	N

	ANNEX 5: National Differences for (country name) or Group Differences			
000	CENELEC COMMON MODIFICATIONS (EN)	N.		
17.5 (3)	MARKING	N		
17.5(3.3.101)	Adequate warning on the package	N		

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17.10 (5)	EXTERNAL AND INTERNAL WIRING	45		ON
17.10 (5.2.1)	Connecting leads	4)	F 45	N
,0	- without a means for connection to the supply	,0	,0	N
045 0	- terminal block specified	45	.045	O.N
45 T	- relevant information provided	A)	F 45	N
, dó	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	40	40	N
04, 70	Cables not lighter than the types in this clause	4	704	N

- A	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)					
(3.3)	DK: power supply cord with label					
47	IT: warning label on Class 0 luminaire	4	4	N	4	
(4.5.1)	DK: socket-outlets	30	30	N	50	
(5.2.1)	CY, DK, FI, SE, GB: type of plug	1 P C	D. C.	ON	4	

10	ANNEX ZC, NATIONAL DEVIATIONS (EN)	0 0	N C
(4 & 5)	FR: Shuttered socket-outlets 10/16A	4,047	ON
(13.3)	DK: Needle flame test during 30 s	45 45	N 2
(13.3)	GB: Requirements according to United Kingdom Building Regulation	40 40	N
(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	47 47	N A

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APPENDIX A PHOTOS OF PRODUCT

Front view



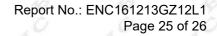
Back View



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Right View



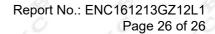
Left View



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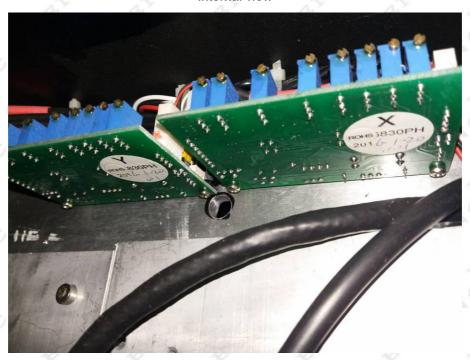
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Internal view



Internal view



-- End of Report ----

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