



**INTEGRA96 ULUSLARARASI URUN VE SISTEM BELGELENDIRME,
BAGIMSIZ GOZETIM, DENETIM, EGITIM HIZMETLERI LTD. STİ.**

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2014/35/EU

Technical Requirement Assesment Report

EN IEC 60598-1:2021

Luminaires - Part 1: General requirements and tests

Manufacturer..... :	MAYREK AÇIK HAVA REKLAM TANITIM DANIŞMANLIK SANAYİ VE TİCARET ANONİM ŞİRKETİ		
Adress..... :	MERİÇ MAH. KEMALPAŞA CAD. NO: 33 C BORNOVA / İZMİR		
Product / Model(s).....:	Yol Aydınlatma Armatürü - AKA010-DR200 <i>Road Lighting Luminaire - AKA010-DR200</i>		
Report Number..... :	TRM-22-2537/02(Rev.01)		
Date of issue..... :	21.06.2022		
Standard..... :	EN IEC 60598-1:2021		
Number of pages (Report)..... :	28		
Number of pages (Attachments)..... :	-		
Compiled by : Eng. C. HURSI TOĞLU	Approved	Eng. C. TAHİR	
(+ signature)	(+)		
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)		
General Remarks			

The variant (AKA010-DR300, AKA020-DR200, AKA020-DR300, AKA030-DR200, AKA030-DR300, AKA040-DR200, AKA040-DR300, AKA050-DR200, AKA050-DR300, AKA060-DR200, AKA060-DR300) was analyzed and verified similar to the tested one (In electrical characteristic, all models mentioned above are similar, the difference among them are appearance and rated input power). The difference has no impact on the safety characteristics, then the result of this test report are valid for all models.

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

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

Through out this report a comma is used as the decimal separator.

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Test item description	Road Lighting Luminaire
Trade Mark	FONE LIGHT
Manufacturer	MAYREK AÇIK HAVA REKLAM TANITIM DANIŞMANLIK SANAYİ VE TİCARET ANONİM ŞİRKETİ
Model/Type reference	AKA010-DR200
Ratings	220 – 240 V AC; 50/60 Hz; 1x12 W; 0,062 A; IP 65; t _a : 25°C



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0	GENERAL TEST REQUIREMENTS	P
0.1	Information for luminaire design considered Standard Yes ☒ No ☐	—
0.3	More sections applicable: Yes ☐ No ☒ See Attachment Test Report	—

2	CLASSIFICATION	P
2.2	Type of protection: Class I	—
2.3	Degree of protection: IP55	—
2.4	Luminaire suitable for direct mounting on normally flammable surfaces: Yes ☐ No ☒	—
2.5	Luminaire for normal use: Yes ☒ No ☐	—
	Luminaire for rough service: Yes ☐ No ☒	—

3	MARKING	N/A
3.2	Mandatory markings	N/A
	Position of the marking	On the enclosure
	Format of symbols/text	N/A
3.3	Additional information	N/A
	Language of instructions	In official language
3.3.1	Combination luminaires	N/A
3.3.2	Nominal frequency in Hz	50/60 Hz
3.3.3	Operating temperature	t _a : 25 °C
3.3.4	Symbol or warning notice	N/A
3.3.5	Wiring diagram	N/A
3.3.6	Special conditions	No special condition
3.3.7	Metal halide lamp luminaire – warning	No metal halide lamp
3.3.8	Limitation for semi-luminaires	No semi-luminaire
3.3.9	Power factor and supply current	N/A
3.3.10	Suitability for use indoors	 N/A
3.3.11	Luminaires with remote control	N/A
3.3.12	Clip-mounted luminaire – warning	Not clip-mounted luminaire
3.3.13	Specifications of protective shields	No protective shields
3.3.14	Symbol for nature of supply	AC
3.3.15	Rated current of socket outlet	N/A



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3.3.16	Rough service luminaire	Not rough service luminaire	N/A
3.3.17	Mounting instruction for type Y, type Z and some type X attachments		N/A
3.3.18	Non-ordinary luminaires with PVC cable	Ordinary luminaire	N/A
3.3.19	Protective conductor current in instruction if applicable		N/A
3.3.20	Provided with information if not intended to be mounted within arm's reach		P
4.6 (3.3.21)	Luminaires with non-replaceable and non-user replaceable light source, the instruction sheet shall contain the substance of the following information:		N/A
	For non replacable light sources: "The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced"		N/A
	For non-user replaceable light sources: "The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person."		N/A
	Symbol for risk of electric shock		N/A
4.6 (3.3.22)	For controllable luminaires the classification of insulation that has been maintained between LV supply and control conductors shall be provided. E.g. basic insulation, reinforced insulation.		N/A
4.6 (3.3.23)	Luminaires delivered without control-gear shall be provided with the necessary information for the selection of the appropriate component together with the highest allowed Uout value of the control-gear and the maximum Up or equivalent peak voltage Up where pulse voltages are used.		N/A
	In addition, the classification of insulation of the external control-gear that has been maintained between LV supply and secondary output shall be provided if there is a need for at least basic insulation.		N/A
	For luminaires that require no insulation between LV supply and output of the external control-gear no additional information is required.		N/A
	For luminaires that require basic insulation between the primary and secondary part of the control-gear the substance of the following information is required:		N/A
	External control-gear shall provide at least basic insulation between LV supply and output		N/A



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	For luminaires that are not classified as Class III but require double or reinforced insulation between the primary and secondary part of the controlgear the substance of the following information is required:		N/A
	External control-gear shall provide at least double or reinforced insulation between LV supply and output		N/A
	For luminaires that are classified as Class III, an indication that the controlgear shall be SELV is required.		N/A
4.6 (3.3.24)	Where the terminal block is not supplied with the luminaire, the packaging shall contain the following wording:	No terminal block	N/A
	"Terminal block not included. Installation must be performed by a qualified person."		N/A
4.6 (3.4)	Test with water		N/A
	Test with hexane		N/A
	Legible after test		N/A
	Label attached		N/A

4.7 (4)	CONSTRUCTION		P
4.7 (4.2)	Components replaceable without difficulty		P
4.7 (4.3)	Wireways smooth and free from sharp edges		P
4.7 (4.4)	Lampholders		N/A
4.7 (4.4.1)	Integral lampholder		N/A
4.7 (4.4.2)	Wiring connection		P
4.7 (4.4.3)	Lampholder for end-to-end mounting		N/A
4.7 (4.4.4)	Positioning	Not replaced by the user	N/A
	- pressure test (N)		—
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)		—
	After test the lampholder have not moved from its position and show no permanent deformation		N/A
4.7 (4.4.5)	Peak pulse voltage	Approved component used	N/A
4.7 (4.4.6)	Centre contact		N/A
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking	Not used in rough service	N/A



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4.7 (4.4.8)	Lamp connectors		N/A
4.7 (4.4.9)	Caps and bases correctly used		N/A
4.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
4.7 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II	No starter holder	N/A
	Starter holder class II construction		N/A
4.7 (4.6)	Terminal blocks		N/A
	Tails	No terminal block	N/A
	Unsecured blocks		N/A
4.7 (4.7)	Terminals and supply connections		P
4.7 (4.7.1)	Contact to metal parts	Live parts are separated from metal parts.	N/A
4.7 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
4.7 (4.7.3)	Terminals for supply conductors		N/A
4.7 (4.7.3.1)	Welded connections:		N/A
	- stranded or solid conductor	No welded connection	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
4.7 (4.7.4)	Terminals other than supply connection		N/A
4.7 (4.7.5)	Heat-resistant wiring/sleeves	Separately approved supply cord is used.	N/A
4.7 (4.7.6)	Multi-pole plug	No multi-pole plug	N/A
	- test at 30 N		N/A
4.7 (4.8)	Switches:		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A



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	- compliance with 61058-1 for electronic switches	Electronic switch is not separately approved component however the manufacturer declared the operating cycles as 10.000 and the flammability class as V2.	N/A
4.7 (4.9)	Insulating lining and sleeves		P
4.7 (4.9.1)	Retainment		P
	Method of fixing :	Fixing with a nut.	P
4.7 (4.9.2)	Insulated linings and sleeves		P
	Resistant to a temperature > 20 °C to the wire temperature or	Checked by inspection	P
	a) & c) Insulation resistance and electric strength		P
	b) Ageing test. Temperature (°C) :		N/A
4.7 (4.10)	Insulation of Class II luminaires		P
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	Not metal encased class I luminaire	N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
4.7 (4.10.2)	Assembly gaps:		N/A
	- not coincidental	No assembly gap	N/A
	- no straight access with test probe		N/A
4.7 (4.10.3)	Retainment of insulation:		P
	- fixed	Checked by inspection	P
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lampholder		P
4.7 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	No protective impedance device	N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
4.7 (4.11)	Electrical connections		P
4.7 (4.11.1)	Contact pressure		P
4.7 (4.11.2)	Screws:		N/A



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	- self-tapping screws	No self-tapping screw except the mechanical connection on switch	N/A
	- thread-cutting screws	No thread-cutting screw	N/A
4.7 (4.11.3)	Screw locking:		N/A
	- spring washer	No spring washer	N/A
	- rivets	No rivet	N/A
4.7 (4.11.4)	Material of current-carrying parts	Separately approved component	P
4.7 (4.11.5)	No contact to wood or mounting surface	External wiring passes into the luminaire, it complies with the appropriate insulation requirements and it is not in direct contact to wood or mounting surface.	P
4.7 (4.11.6)	Electro-mechanical contact systems	No electro-mechanical contact system	N/A
4.7 (4.12)	Mechanical connections and glands		P
4.7 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material	Fixing screw of switch thermoplastic enclosure	P
	Torque test: torque (Nm); part		N/A
	Torque test: torque (Nm); part		N/A
	Torque test: torque (Nm); part		N/A
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal	No screw which is operated when mounting or connecting the luminaire.	N/A
4.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm)..... :		N/A
	- lampholder; torque (Nm)		N/A
	- push-button switches; torque 0,8 Nm..... :		N/A
4.7 (4.12.5)	Screwed glands; force (Nm)..... :		N/A
4.7 (4.13)	Mechanical strength		P
4.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)..... :		N/A
	- other parts; energy (Nm)	Downside of the luminaire: 0,50 Nm Luminaire cover: 0,5 Nm Lamp holder: 0,5 Nm	P
	1) live parts	Not have become accessible	P
	2) linings	Not have been impaired	P



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	3) protection	IP55	P
	4) covers		P
4.7 (4.14.2)	Metal parts have adequate mechanical strength	No metal part enclosing live parts	N/A
4.7 (4.14.3)	Straight test finger		N/A
4.7 (4.14.4)	Rough service luminaires		N/A
	- IP54 or higher	Not rough service luminaire	N/A
	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
4.7 (4.13.6)	Tumbling barrel		N/A
4.7 (4.14)	Suspensions and adjusting devices		N/A
4.7 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	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
	Fixed luminaire or independent control gear without fixing devices		N/A
4.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		N/A
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
4.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
4.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
4.7 (4.14.5)	Guide pulleys		N/A
4.7 (4.14.6)	Strain on socket-outlets		N/A
4.7 (4.15)	Flammable materials:		P



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	- glow-wire test 650 °C		N/A
	- spacing ≥ 30 mm	Covers, shades and similar parts not having an insulation function are adequately spaced from any heated part of the luminaire.	P
	- screen withstanding test of 13.3.1	No screen	N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection	No thermal protection	N/A
	- electronic circuits exempted	No electronic circuit	N/A
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
4.7 (4.16)	Luminaires for mounting on normally flammable surfaces		N/A
	No lamp control gear		N/A
4.7 (4.16.1)	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
4.7 (4.16.2)	- spacing 10 mm		N/A
4.7 (4.16)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
4.7 (4.16.3)	Design to satisfy the test of 12.6		N/A
4.7 (4.17)	Drain holes	No drain hole	N/A
	Clearance at least 5 mm		N/A
4.7 (4.18)	Resistance to corrosion:		N/A
4.7 (4.18.1)	- rust-resistance		N/A
4.7 (4.18.2)	- season cracking in copper		N/A
4.7 (4.18.3)	- corrosion of aluminium		N/A
4.7 (4.19)	Ignitors compatible with ballast	No ignitor	N/A
4.7 (4.20)	Rough service vibration		N/A
4.7 (4.21)	Protective shield:		N/A



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4.7 (4.21.1)	Shield fitted		N/A
	Shield of glass if tungsten halogen lamps		N/A
4.7 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
4.7 (4.21.3)	No direct path		N/A
4.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment		N/A
4.7 (4.22)	Attachments to lamps		N/A
4.7 (4.23)	Semi-luminaires comply Class II	Not semi-luminaire	N/A
4.7 (4.24)	Photobiological hazards		N/A
4.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Luminaire is not provided with any light source.	N/A
4.7 (4.24.2)	Retinal blue light hazard		N/A
	Class of risk group assessed according to IEC/TR 62778.....:		
	Luminaires with E_{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2 ...:		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
4.7 (4.25)	Mechanical hazards		P
	No sharp point or edges		P
4.7 (4.26)	Short-circuit protection:		N/A
4.7 (4.26.1)	Uninsulated accessible SELV parts	No SELV part.	N/A
4.7 (4.26.2)	Short-circuit test		N/A
	Test chain according to Figure 29		N/A
4.7 (4.27)	Terminal blocks with integrated screwless earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A



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4.7 (4.28)	Fixing of thermal sensing control	No thermal sensing control	N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C) :		N/A
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
4.7 (4.29)	Luminaires with non-replaceable light source		N/A
	Not possible to replace light source	Luminaire with replaceable light source	N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
4.7 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with "caution, electric shock risk" symbol:		N/A
	Minimum two fixing means		N/A
4.7 (4.31)	Insulation between circuits		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		P
4.7 (4.31.1)	SELV circuits		N/A
	Used SELV source	No SELV part	N/A
	Voltage ≤ ELV		N/A
	Insulating of SELV circuits from LV supply		N/A
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A



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	Plugs and socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.2)	FELV circuits		N/A
	Used FELV source	No FELV circuit	N/A
	Voltage $\leq$ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.3)	Other circuits		P
	Other circuits insulated from accessible parts according Table X.1	No controlgear. Double or reinforced insulation complying with LV _{supply} between live parts and accessible parts.	P
	Class II construction with equipotential bonding for protection against indirect contacts with live parts		P
	- conductive parts are connected together		N/A
	- test according 7.2.3	Class I luminaire	N/A
	- conductive part not cause an electric shock in case of an insulation fault		P
	- equipotential bonding in master/slave applications	Not master/slave luminaire	N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
4.7 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11	No overvoltage protective device	N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A



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4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Creepage distances and clearances..... :	Full disconnection	P
4.8 (11.2.1)	Impulse withstand category (Normal category II) (Category III Annex U)	Category II ☐ Category III ☐	—
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
4.7 (11.2.2)	Creepage distances for frequency up to 30 kHz		N/A
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w		N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347		N/A
4.7 (11.2.3)	Clearances for frequency up to 30 kHz		N/A
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P		N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347		N/A
4.9 (7)	PROVISION FOR EARTHING		N/A
4.9 (7.2.1 + 7.2.3)	Accessible metal parts	Class I luminaire	N/A
	Metal parts in contact with supporting surface		N/A
	Resistance $< 0,5 \Omega$		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a grove		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control-gear		N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		N/A
4.9 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
4.9 (7.2.5)	Earth terminal integral part of connector socket		N/A
4.9 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
4.9 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A



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4.9 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
4.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
4.9 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A

14	SCREW TERMINALS		N/A
	Separately approved; component list		
	Part of the luminaire		

15	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
	Separately approved; component list		
	Part of the luminaire		

5	EXTERNAL AND INTERNAL WIRING		
5.2	Supply connection and external wiring		
5.2.1	Means of connection	Supply cords with plugs	P
5.2.2	Type of cable		N/A
	Nominal cross-sectional area (mm ²).....		P
	Cables equal to IEC 60227 or IEC 60245		P
5.2.3	Type of attachment, X, Y or Z	Type Y connection	P
5.2.5	Type Z not connected to screws		P
5.2.6	Cable entries:		
	- suitable for introduction	Cable entries:	P
	- adequate degree of protection		P
5.2.7	Cable entries through rigid material have rounded edges		P
5.2.8	Insulating bushings:		
	- suitably fixed	Insulating bushings:	N/A
	- material in bushings	No insulating bushing	N/A
	- material not likely to deteriorate		N/A
	- tubes or guards made of insulating material		N/A
5.2.9	Locking of screwed bushings		N/A
5.2.10	Cord anchorage:		
	- covering protected from abrasion	Cord anchorage:	P



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	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
5.2.10.1	Cord anchorage for type X attachment:		It is provided with a fixed insulating lining
	a) at least one part fixed	Cord anchorage for type X attachment:	N/A
	b) types of cable	Type Y connection	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
5.2.10.2	Adequate cord anchorage for type Y and type Z attachment		N/A
5.2.10.3	Tests:		
	- impossible to push cable; unsafe	Tests:	P
	- pull test: 25 times; pull (N)..... :		P
	- torque test: torque (Nm) :	60 N	P
	- displacement ≤ 2 mm	0,15 Nm (Tested with 0,35 Nm because of the lab conditions)	P
	- no movement of conductors		P
	- no damage of cable or cord		P
5.2.11	External wiring passing into luminaire		P
5.2.12	Looping-in terminals		P
5.2.13	Wire ends not tinned	Comply with the appropriate requirements for internal wiring	P
	Wire ends tinned: no cold flow		N/A
5.2.14	Mains plug same protection		N/A
	Class III luminaire plug		N/A
5.2.16	Appliance inlets (IEC 60320)		N/A
	Appliance couplers of class II type		N/A



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5.2.17	No standardized interconnecting cables properly assembled		N/A
5.2.18	Used plug in accordance with		
	- IEC 60083		N/A
	- other standard		N/A
5.3	Internal wiring		Separately approved component
5.3.1	Internal wiring of suitable size and type	Used plug in accordance with	P
	Through wiring		
	- not delivered/ mounting instruction	EN 50075	P
	- factory assembled	Internal wiring	P
	- socket outlet loaded (A)..... :		P
	- temperatures :	Through wiring	P
	Green-yellow for earth only		P
5.3.1.1	Internal wiring connected directly to fixed wiring		
	Cross-sectional area (mm ²) :		N/A
	Insulation thickness	See Clause 12	P
	Extra insulation added where necessary	Class II luminaire	N/A
5.3.1.2	Internal wiring connected to fixed wiring via internal current-limiting device		Internal wiring connected directly to fixed wiring
	Adequate cross-sectional area and insulation thickness		P
5.3.1.3	Double or reinforced insulation for class II		P
5.3.1.4	Conductors without insulation		P
5.3.1.5	SELV current-carrying parts	Internal wiring connected to fixed wiring via internal current-limiting device	N/A
5.3.1.6	Insulation thickness other than PVC or rubber	No current-limiting device	N/A
5.3.2	Sharp edges etc.	External wiring passing into luminaire	P
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices	No SELV part	N/A
	Telescopic tubes etc.	PVC	N/A
	No twisting over 360°		P



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5.3.3	Insulating bushings:		
	- suitable fixed	No joint	N/A
	- material in bushings	No telescopic tube	N/A
	- material not likely to deteriorate		P
	- cables with protective sheath	Insulating bushings:	N/A
5.3.4	Joints and junctions effectively insulated	Not metal encased class II luminaire	N/A
5.3.5	Strain on internal wiring		N/A
5.3.6	Wire carriers		N/A
5.3.7	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A

8	PROTECTION AGAINST ELECTRIC SHOCK		P
8.2.1	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		N/A
	Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, within arm's reach, on wall-mounted luminaires		P
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		N/A
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		N/A
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
8.2.2	Portable luminaire adjusted in most unfavourable position		N/A
8.2.3.a	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



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8.2.3.b	BC lampholder of metal in class I luminaires shall be earthed		N/A
8.2.3.c	Class III luminaires with exposed SELV parts:		N/A
	Ordinary luminaire:		
	- touch current		
	- no-load voltage		
	Other than ordinary luminaire:		
	- nominal voltage		
8.2.4	Portable luminaire have protection independent of supporting surface		N/A
8.2.5	Compliance with the standard test finger or relevant probe		N/A
8.2.6	Covers reliably secured		N/A
8.2.7	Discharging of capacitors $\geq 0,5 \mu F$		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

12	ENDURANCE TEST AND THERMAL TEST		P
	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 1.13		—
12.3	Endurance test:		P
	- mounting-position	In the same operating position	—
	- test temperature (°C)	$t_a + 10 = 35 \text{ °C}$	P
	- total duration (h)	240 h = 10 × 24 cycles at normal operation	P
	- supply voltage: Un factor; calculated voltage (V):	220 × 1,06 = 233,2 V AC	—
	- lamp used	LED	—
12.3.2	After endurance test:		
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system	No track system	N/A
	- marking legible		N/A
	- no cracks, deformation etc.		P
12.4	Thermal test (normal operation)	(see Annex 2)	P
12.5	Thermal test (abnormal operation)	(see Annex 2)	N/A



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12.6	Thermal test (failed lamp control gear condition):	N/A
12.6.1	Through wiring or looping-in wiring loaded by a current of (A)	—
	- case of abnormal conditions.....	—
	- electronic lamp control gear	N/A
	- 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
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
12.7	Thermal test (failed lamp control gear in plastic luminaires):	N/A
12.7.1	Luminaire without temperature sensing control	N/A
12.7.1.1	Luminaire with fluorescent lamp $\leq 70W$	N/A
	Test method 12.7.1.1 or Annex W	—
	Test according to 12.7.1.1:	N/A
	- case of abnormal conditions	—
	- Ballast failure at supply voltage (V)	—
	- Components retained in place after the test	N/A
	- Test with standard test finger after the test	N/A
	Test according to Annex V:	N/A
	- case of abnormal conditions	—
	- measured winding temperature (°C): at 1,1 Un..	—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....	—
	- calculated temperature of fixing point/exposed part (°C)	—
	Ball-pressure test:	N/A
	- part tested; temperature (°C).....	N/A
	- part tested; temperature (°C).....	N/A
12.7.1.2	Luminaire with discharge lamp, fluorescent lamp $> 70W$, transformer $> 10 VA$	N/A



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	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un.. :		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
12.7.1.3	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
12.7.2	Luminaire with temperature sensing control		N/A
	- thermal link	Yes ☐ No ☐	—
	- manual reset cut-out	Yes ☐ No ☐	—
	- auto reset cut-out	Yes ☐ No ☐	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/exposed part (°C):..... :		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A

9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	P
	If IP > IP 20 the order of the test specified in clause 1.12	—
9.2	Tests for ingress of dust, solid objects and moisture:	P
	- classification according to IP	IP55
	- mounting position during test	In the same operating position
	- fixing screws tightened; torque (Nm)..... :	—
	- tests according to clauses	Cl. 9.2.0
	- electric strength test afterwards	N/A
	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 SELV parts or where it could become a hazard	N/A



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	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)	Tested with standard test probe	P
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
	f) no contact with live parts (IP3X and IP4X)		N/A
	g) no trace of water on part of lamp requiring protection from splashing water		N/A
	h) no damage of protective shield or glass envelope		N/A
9.3	Humidity test 48 h		N/A

10	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
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
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5 ..		N/A
	Other than SELV:		P
	- between live parts of different polarity.....	> 999 MΩ	P
	- between live parts and mounting surface.....	> 999 MΩ	P
	- between live parts and metal parts	> 789 MΩ	P
	- between live parts of different polarity through action of a switch	> 747 MΩ	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	> 999 MΩ	P
	- Insulation bushings as described in Section 5 ..		N/A



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10.2.2	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		N/A
	SELV:		N/A
	- between current-carrying parts of different polarity :	No SELV part	N/A
	- between current-carrying parts and mounting surface :		N/A
	- between current-carrying parts and metal parts of the luminaire :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts :		N/A
	- Insulation bushings as described in Section 5 .. :		N/A
	Other than SELV:		P
	- between live parts of different polarity..... :	1500 V AC; 1 min; No breakdown	P
	- between live parts and mounting surface..... :	3000 V AC; 1 min; No breakdown	P
	- between live parts and metal parts :	3000 V AC; 1 min; No breakdown	P
	- between live parts of different polarity through action of a switch :		P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts :		P
	- Insulation bushings as described in Section 5 .. :		N/A
10.3	Touch current or protective conductor current (mA) :	0,01 mA	P

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



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	- part tested..... :	Switch Enclosure	P
	- part tested..... :		N/A
13.4.1	Tracking test:		N/A
	- part tested..... :		N/A
	- part tested..... :		N/A

ANNEX 2: temperature measurements, thermal tests of Section 12	p
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Type reference		—
Lamp used.....		—
Lamp control gear used	No lamp control gear	—
Mounting position of luminaire	In the same operating position	—
Supply wattage (W)	1x12 W	—
Supply current (A)	0,061 A	—
Calculated power factor	0,52 pF	—
Table: measured temperatures corrected for $t_a = 25^\circ\text{C}$:		P
- abnormal operating mode		—
- test 1: rated voltage.....		—
- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	233.2 V	—
- 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.....		—
Through wiring or looping-in wiring loaded by a current of A during the test		—

temperature (°C) of part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	limit
Protection Part		46,8 °C				210 °C
Metal Part		31,5 °C				90 °C
Surface		28,4 °C				55 °C
Supply Cord		28.8 °C				90 °C
Plug		28.1 °C				90 °C



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	ANNEX 3: screw terminals (part of the luminaire)	N/A
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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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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
15.8.1	Pull test spring-type terminals or welded connections (4 samples); pull (N)	N/A



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