Manufacturer:	**Applicant's Name** **Applicant's Address**	
Test item:	**Luminaires Part 5: Particular requirements Section 6: Handlamps**	
Identification:	**(Model No.)**	*Serial No.:*
Receipt No.:		*Date of receipt:*
Testing laboratory and its address:	**Lab Name** **Lab** **Address**	
Test specification:	**IS 10322(P-5/Sec-6) 2026/IEC 60598-2-8-2013**	
Test Result:	*The test item passed / failed the test specification(s).*	
Other Aspects: - *Brief description or additional details could be given by the labs here.*		
This test report relates to the test sample submitted and list of documents attached.		

Tested by:	**Approved by / Authorized Signatory:**	**Issued by:**
(Name / Designation)	**(Name / Designation)**	**(Name / Designation)**
Date:	**Date:**	**Date:**

TEST REPORT **IS 10322 (P-5/Sec-6) 2026/ IEC 60598-2-8-2013** **Luminaires** **Part 5: Particular requirements.** **Section 6: Handlamps**	
Report Reference No. ..... : Date of issue..... : Total number of pages	**Xxxxxxxxx 001** (see cover page) (see cover page)
Testing Laboratory ..... : Address ..... :	**Lab Name** **Lab Address**
Manufacturer's name..... : Address ..... :	**Applicant's Name** **Applicant's Address**
Test specification: Standard..... : Test procedure..... : Non-standard test method……..:	 **IS 10322 (P-5/Sec-6) 2026/ IEC 60598-2-8-2013** Compliance Report N/A
Test Report Form No. ..... : Test Report Form(s) Originator ..... : Master TRF..... :	BIS_ IS 10322_5_6_V2.0 Bureau of Indian Standards
Test item description..... : Trademark ..... : Model/Type reference ..... : Ratings ..... : Other Documents submitted..... :	**Luminaires Part 5: Particular requirements Section 6: Handlamps** Please refer to Table – List of Attachments at Page No. xx

Tested by:	**Approved by / Authorized Signatory:**	**Issued by:**
(Name / Designation)	**(Name / Designation)**	**(Name / Designation)**
Date:	**Date:**	**Date:**

Test Report issued under the responsibility of:

TEST REPORT **IS 10322 (P-5/Sec-6) 2026** **Luminaires** **Part 5: Particular requirements.** **Section 6: Handlamps**
Report Number. ..... : **Date of issue..... :** **Total number of pages ..... :**
Name of Testing Laboratory preparing the Report :
Applicant's name ..... : **Address..... :**
Test specification: **Standard..... :** IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8:2013 used in conjunction with IEC 60598-1:2020 **Test procedure ..... :** **Non-standard test method ..... :**
General disclaimer: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description .....: **Trade Mark(s).....:** **Manufacturer.....:** **Model/Type reference.....:** **Ratings.....:**	

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☐	**CB Testing Laboratory:**		
Testing location/ address ..... :			
Tested by (name, function, signature) ..... :			
Approved by (name, function, signature) .. :			
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address ..... :			
Tested by (name, function, signature) ..... :			
Approved by (name, function, signature) .. :			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Witnessed by (name, function, signature) . :			
Approved by (name, function, signature) .. :			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address ..... :			
Tested by (name, function, signature) ..... :			
Witnessed by (name, function, signature) . :			
Approved by (name, function, signature) .. :			
Supervised by (name, function, signature) :			

List of Attachments (including a total number of pages in each attachment):	
Summary of testing:	
Tests performed (name of test and test clause):	**Testing location:**
Summary of compliance with National Differences (List of countries addressed): ☐ **The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)**	
Use of uncertainty of measurement for decisions on conformity (decision rule): ☐ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). ☐ Other:… (to be specified, for example when required by the standard or client, or if national accreditation requirements apply) **Information on uncertainty of measurement:** The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE. IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Test item particulars.....:
Classification of installation and use.....: **Supply Connection.....:**
Possible test case verdicts: **- test case does not apply to the test object.....:** N/A **- test object does meet the requirement.....:** P (Pass) **- test object does not meet the requirement.....:** F (Fail)
Testing.....: **Date of receipt of test item .....:** **Date (s) of performance of tests.....:**
General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. **Throughout this report a ☐ comma / ☐ point is used as the decimal separator.** ☐ **This Test Report Form contains requirements according to IEC/ISO …... Standard dated ….. and includes** Corrigendum dated ……. (Note: The above text maybe removed if not applicable)
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ..... :	☐ **Yes** ☐ **Not applicable**

When differences exist; they shall be identified in the General product information section.
Name and address of factory (ies) ..... :
General product information and other remarks:

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
8.4 (0)	**GENERAL TEST REQUIREMENTS**		
8.4 (0.3)	More sections applicable ..... :	Yes ☐ No ☐ Section/s:	—
8.4 (0.5)	Components	(See Annex 1)	—
8.4 (0.7)	**Information for luminaire design in light sources standards**		—
8.4 (0.7.2)	Light source safety standard ..... :		—
	Luminaire design in the light source safety standard		
8.4.2 (-)	Not apply third paragraph of 0.4.2		—
	Test for rough service hand-held luminaries	(See cl. 8.7 in this part)	
	Test if rubber protection cover	(See cl. 8.13 in this part)	

8.5 (2)	**CLASSIFICATION OF LUMINAIRES**		
8.5 (2.2)	Type of protection ..... :	Class	
8.5 (2.3)	Degree of protection..... :	IP	—
8.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces ..... :	Yes ☐ No ☐	—
8.5 (2.5)	Luminaire for normal use ..... :	Yes ☐ No ☐	—
	Luminaire for rough service ..... :	Yes ☐ No ☐	—
8.5.1 (-)	Class II or III		
8.5.2 (-)	Classified as Rewireable or Non-rewireable		

8.6 (3)	**MARKING**		
8.6 (3.2)	Mandatory markings		
	Position of the marking		
	Format of symbols/text		
8.6 (3.3)	Additional information		
	Language of instructions		
8.6 (3.3.1)	Combination luminaires		
8.6 (3.3.2)	Nominal frequency in Hz		
8.6 (3.3.3)	Operating temperature		
8.6 (3.3.5)	Wiring diagram		
8.6 (3.3.6)	Special conditions		
8.6 (3.3.7)	Metal halide lamp luminaire – warning		
8.6 (3.3.8)	Limitation for semi-luminaires		
8.6 (3.3.9)	Power factor and supply current		
8.6 (3.3.10)	Suitability for use indoors		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
8.6 (3.3.11)	Luminaires with remote control		
8.6 (3.3.12)	Clip-mounted luminaire – warning		
8.6 (3.3.13)	Specifications of protective shields		
8.6 (3.3.14)	Symbol for nature of supply		
8.6 (3.3.15)	Rated current of socket outlet		
8.6 (3.3.16)	Rough service luminaire		
8.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		
8.6 (3.3.18)	Non-ordinary luminaires with PVC cable		
8.6 (3.3.19)	Protective conductor current in instruction if applicable		
8.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		
8.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		
8.6 (3.3.22)	Controllable luminaires, classification of insulation provided		
8.6 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component		
8.6 (3.3.24)	If not supplied with terminal block, information on the packaging		
8.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		
8.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		
8.6 (3.4)	Test with water		
	Test with hexane		
	Legible after test		
	Label attached		
8.6.1 (-)	Symbols outside the handlamp		
	Wattage not in paint or ink		
8.6.2 (-)	Instruction on the protective cover how to open and close if replaceable lamp and type X attachment		

8.7 (4)	**CONSTRUCTION**		
8.7 (4.2)	Components replaceable without difficulty		
8.7 (4.3)	Wireways smooth and free from sharp edges		
8.7 (4.4)	**Lamp holders**		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
8.7 (4.4.1)	Integral lamp holder		
8.7 (4.4.2)	Wiring connection		
8.7 (4.4.3)	Lamp holder for end-to-end mounting		
8.7 (4.4.4)	Positioning		
	- pressure test (N) ..... :		—
	After test the lamp holder comply with relevant standard sheets and show no damage		
	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation		
	- bending test (N) ..... :		—
	After test the lamp holder has not moved from its position and show no permanent deformation		
8.7 (4.4.5)	Peak pulse voltage		
8.7 (4.4.6)	Centre contact		
8.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		
8.7 (4.4.8)	Lamp connectors		
8.7 (4.4.9)	Caps and bases correctly used		
8.7 (4.4.10)	Light source for lamp holder or connection according to IEC 60061 not connected another way		
8.7 (4.5)	**Starter holders**		
	Starter holder in luminaires other than class II		
	Starter holder class II construction		
8.7 (4.6)	**Terminal blocks**		
	Tails		
	Unsecured blocks		
8.7 (4.7)	**Terminals and supply connections**		
8.7 (4.7.1)	Contact to metal parts		
8.7 (4.7.2)	Test 8 mm live conductor		
	Test 8 mm earth conductor		
8.7 (4.7.3)	Terminals for supply conductors		
8.7 (4.7.3.1)	Welded method and material		
	- stranded or solid conductor		
	- spot welding		
	- welding between wires		
	- Type Z attachment		
	- mechanical test according to 15.6.2		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- electrical test according to 15.6.3		
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		
8.7 (4.7.4)	Terminals other than supply connection		
8.7 (4.7.5)	Heat-resistant wiring/sleeves		
8.7 (4.7.6)	Multi-pole plug		
	- test at 30 N		
8.7 (4.8)	**Switches**		
	- adequate rating		
	- adequate fixing		
	- polarized supply		
	- compliance with IEC 61058-1 for electronic switches		
8.7 (4.9)	**Insulating lining and sleeves**		
8.7 (4.9.1)	Retainment		
	Method of fixing ..... :		
8.7 (4.9.2)	Insulated linings and sleeves:		
	Resistant to a temperature > 20 °C to the wire temperature or		
	a) & c) Insulation resistance and electric strength		
	b) Ageing test. Temperature (°C) ..... :		
8.7 (4.10)	**Double or reinforced insulation**		
8.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		
	Safe installation fixed luminaires		
	Capacitors and switches		
8.7 (4.10.2)	Assembly gaps:		
	- not coincidental		
	- no straight access with test probe		
8.7 (4.10.3)	Retainment of insulation:		
	- fixed		
	- unable to be replaced; luminaire inoperative		
	- sleeves retained in position		
	- lining in lamp holder		
8.7 (4.10.4)	Protective impedance device		
	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)		
	Capacitors comply with IEC 60384-14		
	Resistors comply with test (a) in 14.2 of IEC 60065		
8.7 (4.11)	**Electrical connections and current-carrying parts**		
8.7 (4.11.1)	Contact pressure		
8.7 (4.11.2)	Screws:		
	- self-tapping screws		
	- thread-cutting screws		
8.7 (4.11.3)	Screw locking:		
	- spring washer		
	- rivets		
8.7 (4.11.4)	Material of current-carrying parts		
8.7 (4.11.5)	No contact to wood or mounting surface		
8.7 (4.11.6)	Electro-mechanical contact systems		
8.7 (4.12)	**Screws and connections (mechanical) and glands**		
8.7 (4.12.1)	Screws not made of soft metal		
	Screws of insulating material		
	Torque test: torque (Nm); part..... :		
	Torque test: torque (Nm); part..... :		
	Torque test: torque (Nm); part..... :		
8.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		
8.7 (4.12.4)	Locked connections:		
	- fixed arms; torque (Nm) ..... :		
	- lamp holder; torque (Nm) ..... :		
	- push-button switches; torque 0,8 Nm ..... :		
8.7 (4.12.5)	Screwed glands; force (Nm)..... :		
8.7 (4.13)	**Mechanical strength**		
8.7 (4.13.1)	Impact tests:		
	- fragile parts; energy (Nm) ..... :		
	- other parts; energy (Nm)..... :		
	1) live parts		
	2) linings		
	3) protection		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	4) covers		
8.7 (4.13.2)	Metal parts have adequate mechanical strength		
8.7 (4.13.3)	Straight test finger		
8.7 (4.13.4)	Rough service luminaires		
	- IP54 or higher		
	a) fixed		
	b) hand-held		
	c) delivered with a stand		
	d) for temporary installations and suitable for mounting on a stand		
8.7 (4.13.6)	Tumbling barrel		
8.7 (4.14)	**Suspensions, fixings and means of adjusting**		
8.7 (4.14.1)	Mechanical load:		
	A) four times the weight		
	B) torque 2,5 Nm		
	C) bracket arm; bending moment (Nm) ..... :		
	D) load track-mounted luminaires		
	E) clip-mounted luminaires, glass-shelve. Thickness (mm) ..... :		
	Metal rod. diameter (mm) ..... :		
	Fixed luminaire or independent control gear without fixing devices		
8.7 (4.14.2)	Load to flexible cables		
	Mass (kg) ..... :		—
	Stress in conductors (N/mm²) ..... :		
	Mass (kg) of semi-luminaire ..... :		
	Bending moment (Nm) of semi-luminaire ..... :		
8.7 (4.14.3)	Adjusting devices:		
	- flexing test; number of cycles..... :		
	- strands broken ..... :		
	- electric strength test afterwards		
8.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		
8.7 (4.14.5)	Guide pulleys		
8.7 (4.14.6)	Strain on socket-outlets		
8.7 (4.15)	**Flammable materials**		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- glow-wire test 650°C ..... :	See Test Table 8.16 (13.3.2)	
	- spacing ≥30 mm		
	- screen withstanding test of 13.3.1		
	- screen dimensions		
	- no fiercely burning material		
	- thermal protection		
	- electronic circuits exempted		
8.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		
	a) construction		
	b) temperature sensing control		
	c) surface temperature		
8.7 (4.16)	**Luminaires for mounting on normally flammable surfaces**		
	No lamp control gear ..... :	(Compliance with Section 12)	
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		
8.7 (4.16.1)	Lamp control gear spacing:		
	- spacing 35 mm		
	- spacing 10 mm		
8.7 (4.16.2)	Thermal protection:		
	- in lamp control gear		
	- external		
	- fixed position		
	- temperature marked lamp control gear		
8.7 (4.16.3)	Design to satisfy the test of 12.6	(See clause 12.6)	
8.7 (4.17)	**Drain holes**		
	Clearance at least 5 mm		
8.7 (4.18)	**Resistance to corrosion**		
8.7 (4.18.1)	- rust-resistance		
8.7 (4.18.2)	- season cracking in copper		
8.7 (4.18.3)	- corrosion of aluminium		
8.7 (4.19)	Ignitors compatible with ballast		
8.7 (4.20)	Rough service vibration		
8.7 (4.21)	**Protective shield**		
8.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Shield of glass if tungsten halogen lamps		
8.7 (4.21.2)	Particles from a shattering lamp not impair safety		
8.7 (4.21.3)	No direct path		
8.7 (4.21.4)	Impact test on shield		
	Glow-wire test on lamp compartment ..... :	See Test Table 8.16 (13.3.2)	
8.7 (4.22)	Attachments to lamps not cause overheating or damage		
8.7 (4.23)	Semi-luminaires comply Class II		
8.7 (4.24)	**Photobiological hazards**		
8.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		
8.7 (4.24.2)	Retinal blue light hazard		
	Class of risk group assessed according to IEC/TR 62778 .....:		—
	Luminaires with E_{thr} :		
	a) Fixed luminaires		
	- distance x m, borderline between RG1 and RG2 .. :		
	- marking and instruction according 3.2.23		
	b) Portable and handheld luminaires		
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		
	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		
8.7 (4.25)	**Mechanical hazard**		
	No sharp point or edges		
8.7 (4.26)	**Short-circuit protection**		
8.7 (4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts		
8.7 (4.26.2)	Short-circuit test with test chain according 4.26.3:		
	Supply source ES1 PSE		
	Test chain not melt through		
	Test sample not exceed values of Table 12.1 and 12.2		
8.7 (4.27)	**Terminal blocks with integrated screwless protective earthing contacts**		
	Test according Annex V		
	Pull test of terminal fixing (20 N)		
	After test, resistance < 0,05 Ω		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Pull test of mechanical connection (50 N)		
	After test, resistance < 0,05 Ω		
	Voltage drop test, resistance < 0,05 Ω		
8.7 (4.28)	**Fixing of thermal sensing control**		
	Not plug-in or easily replaceable type		
	Reliably kept in position		
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		
	Not outside the luminaire enclosure		
	Test of adhesive fixing:		
	Max. temperature on adhesive material (°C) ..... :		—
	100 cycles between t min and t max		
	Temperature sensing control still in position		
8.7 (4.29)	**Luminaires with non-replaceable light source**		
	Not possible to replace light source		
	Live part not accessible after parts have been opened by hand or tools		
8.7 (4.30)	**Luminaires with non-user replaceable light source**		
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		
	At least one fixing means requiring use of tool		
8.7 (4.31)	**Insulation between circuits**		
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		
	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		
8.7 (4.31.1)	SELV or PELV circuits		
	Used SELV/PELV source		
	Voltage ≤ ELV		
	Insulating of SELV/PELV circuits from LV supply		
	Insulating of SELV/PELV circuits from other non SELV/PELV circuits		
	Insulating of SELV/PELV circuits from FELV		
	Insulating of SELV/PELV circuits from other SELV/PELV circuits		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	SELV/PELV circuits insulated from accessible parts according Table X.1		
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		
	Socket outlets does not admit plugs of other voltage systems		
	Plugs and socket-outlets does not have protective conductor contact		
8.7 (4.31.2)	FELV circuits		
	Used FELV source		
	Voltage ≤ ELV		
	Insulating of FELV circuits from LV supply		
	FELV circuits insulated from accessible parts according Table X.1		
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		
	Socket outlets does not admit plugs of other voltage systems		
	Socket-outlets have protective conductor contact		
8.7 (4.31.3)	Other circuits		
	Other circuits insulated from accessible parts according Table X.1		
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		
	- conductive parts are connected together		
	- test according 7.2.3		
	- conductive part not cause an electric shock in case of an insulation fault		
	- equipotential bonding in master/slave applications		
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		
	- slave luminaire constructed as class I		
8.7 (4.32)	**Overvoltage protective devices**		
	Comply with IEC 61643-11		
	External to controlgear and connected to earth:		
	- only in fixed luminaires		
	- only connected to protective earth		
8.7 (4.33)	**Luminaire powered via information technology communication cabling**		
	Requirements for Class III luminaire		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		
	Luminaire does not create any hazard from overvoltage	(See Annex 2)	
8.7 (4.34)	**Electromagnetic fields (EMF)**		
	No harmful electromagnetic fields		
8.7 (4.35)	**Protection against moving fan blades**		
	Test with a standard test finger		
	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire		
	Blades rounded with radius ≥ 0.5 mm and:		
	-hardness less than D60 Shore		
	-peripheral speed less than 15 m/s		
	-input power of fan ≤ 2 W at rated voltage		
8.7 (4.36)	**Track-mounted luminaires**		
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019		
8.7.1 (-)	Shell, handle, and other protective covers made of insulating material		
8.7.2 (-)	Protected against accidental damage		
	Not possible to remove protecting device by hand		
	Protection device remains attached to the handlamp during lamp replacement		
	Automatic switch if protective device not permanently attached		
	Special arranged opening for tubular fluorescent lamp with magnetic ballast		
	Device of metal positioned or insulated		
	Distance between glass of the lamp to protective glass or protective grid or cover ≥ 3 mm		
	Suspension hooks securely fixed		
	Loading test of the hook		
8.7.3 (-)	No resistive ballasts or cables		
8.7.4 (-)	Lamp holder locked against rotation		
8.7.5 (-)	Ballast or transformer ≤ 1 m from the plug		
	Ballast or transformer has a suspension hook		
8.7.6 (-)	Mechanical strength (see also 4.13.4 b)		
8.7.6.1 (-)	Pull test 100 N 1h		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Additional torque test of 10 Nm for sealed handlamp		
8.7.6.2 (-)	Impact tests:		
	- safety after 1st test (0,4 m)		
	- safety after 2nd test (1,0 m)		

8.8 (11)	**CREEPAGE DISTANCES AND CLEARANCES**		
8.8 (11.2.1)	Impulse withstands category (Normal category II)	Category II ☐ Category III ☐	—
	Category III according to Annex U		
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		
8.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 8.8 (11.2) I	
	Creepage distances for frequency over 30 kHz:		
	- Controlgear marked with $\hat{U}_{OUT}$ and $f_{U_{OUT}}$ according to IEC 61347-1, clause 7.1, item w	See Test Table 8.8 (11.2) II	
	- Requirements according to IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 8.8 (11.2) II	
8.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 8.8 (11.2) I	
	Clearances distances for frequency over 30 kHz:		
	- Controlgear marked with U_P	See Test Table 8.8 (11.2) II	
	- Requirements according to IEC 60664-4 for control gear not covered by IEC 61347	See Test Table 8.8 (11.2) II	

8.10 (14)	**SCREW TERMINALS**		
	Separately approved; component list	(See Annex 1)	
	Part of the luminaire	(See Annex 3)	
8.10.1 (-)	Terminals suitable for 0,75 to 1,5 mm²		

8.10 (15)	**SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS**		
	Separately approved; component list..... :	(See Annex 1)	
	Part of the luminaire ..... :	(See Annex 4)	
8.10.1 (-)	Terminals suitable for 0,75 to 1,5 mm²		

8.11 (5)	**EXTERNAL AND INTERNAL WIRING**		
8.11 (5.2)	**Supply connection and external wiring**		
8.11 (5.2.1)	Means of connection ..... :		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment		
8.11 (5.2.2)	Type of cable ..... :		
	Nominal cross-sectional area (mm²) ..... :	(See also 8.10.1)	
	Cables equal to IEC 60227 or IEC 60245		
8.11 (5.2.3)	Type of attachment, X, Y or Z		
8.11 (5.2.5)	Type Z not connected to screws		
8.11 (5.2.6)	Cable entries:		
	- suitable for introduction		
	- adequate degree of protection		
8.11 (5.2.7)	Cable entries through rigid material have rounded edges	(See 8.11.4 in this part)	
8.11 (5.2.8)	Insulating bushings:		
	- suitably fixed	(See 8.11.4 in this part)	
	- material in bushings	(See 8.11.4 in this part)	
	- material not likely to deteriorate	(See 8.11.4 in this part)	
	- tubes or guards made of insulating material	(See 8.11.4 in this part)	
8.11 (5.2.9)	Locking of screwed bushings		
8.11 (5.2.10)	Cord anchorage:		
	- covering protected from abrasion		
	- clear how to be effective		
	- no mechanical or thermal stress		
	- no tying of cables into knots etc.		
	- insulating material or lining		
8.11 (5.2.10.1)	Cord anchorage for type X attachment:		
	a) at least one part fixed		
	b) types of cable		
	c) no damaging of the cable		
	d) whole cable can be mounted		
	e) no touching of clamping screws		
	f) metal screw not directly on cable		
	g) replacement without special tool		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Glands not used as anchorage		
	Labyrinth type anchorages		
8.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		
8.11 (5.2.10.3)	Tests:		
	- impossible to push cable; unsafe		
	- pull test: 25 times; pull (N) ..... :		
	- torque test: torque (Nm) ..... :		
	- displacement ≤ 2 mm		
	- no movement of conductors		
	- no damage of cable or cord		
	- function independent of electrical connection		
8.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of 2A:		
	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC		
	- Ordinary Class III luminaire supplied with PELV ≤12V RMS/30V DC		
	- Other than ordinary Class III luminaire supplied with voltage ≤12V RMS/30V DC		
	Pull test of 30N		
8.11 (5.2.11)	External wiring passing into luminaire		
8.11 (5.2.12)	Looping-in terminals		
8.11 (5.2.13)	Wire ends not tinned		
	Wire ends tinned: no cold flow		
8.11 (5.2.14)	Mains plug same protection		
	Class III luminaire plug		
	No unsafe compatibility		
8.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		
8.11 (5.2.16)	Appliance inlets (IEC 60320)		
	Installation couplers (IEC 61535)		
	Appliance inlet or connector systems (IEC 61984)		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
8.11 (5.2.17)	No standardized interconnecting cables properly assembled		
8.11 (5.2.18)	Used plug in accordance with		
	- IEC 60083		
	- other standard		
8.11 (5.3)	**Internal wiring**		
8.11 (5.3.1)	Internal wiring of suitable size and type		
	Through wiring		
	- not delivered/ mounting instruction		
	- factory assembled		
	- socket outlet loaded (A) ..... :		
	- temperatures ..... :	(See Annex 2)	
	Green-yellow for protective earth only		
8.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		
	Cross-sectional area (mm²)..... :		
	Insulation thickness (mm) ..... :		
	Extra insulation added where necessary		
8.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		
	Cross-sectional area (mm²)..... :		
8.11 (5.3.1.3)	Double or reinforced insulation for class II		
8.11 (5.3.1.4)	Conductors without insulation		
18.11 (5.3.1.5)	SELV/PELV current-carrying parts		
8.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		
8.11 (5.3.2)	Sharp edges etc.		
	No moving parts of switches etc.		
	Joints, raising/lowering devices		
	Telescopic tubes etc.		
	No twisting over 360°		
8.11 (5.3.3)	Insulating bushings:		
	- suitable fixed		
	- material in bushings		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- material not likely to deteriorate		
	- cables with protective sheath		
8.11 (5.3.4)	Joints and junctions effectively insulated		
8.11 (5.3.5)	Strain on internal wiring		
8.11 (5.3.6)	Wire carriers		
8.11 (5.3.7)	Wire ends not tinned		
	Wire ends tinned: no cold flow		
8.11 (5.4)	**Test to determine suitability of conductors having a reduced cross-sectional area**		
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(See Annex 2)	
	No damage to luminaire wiring after test		
8.11.1 (-)	Rewireable handlamp equipped with type X attachment		
	Non-rewireable handlamp equipped with type Y or Z attachment		
	Not provided with socket-outlets		
	Other than ordinary not provided with appliance inlet		
	Ordinary with appliance inlet have mechanical locking		
8.11.2 (-)	Ordinary handlamp; Cord according 60227 IEC 53		
	Other than ordinary handlamp; Cord according 60245 IEC 57		
	Ordinary handlamp; conductors ≥ 0,75 mm²		
	Other than ordinary handlamp; conductors ≥ 1 mm²		
8.11.3 (-)	Only one cable entry		
8.11.4 (-)	Flexible cables or cord protected against excessive bending:		
	Cord guard not integral with cord if rewireable handlamp		
	Cord guard reliable fixed		
	Cord guard at least 25 mm beyond the inlet		
	Cord guard have adequate mechanical strength and elasticity		
8.11.4.1 (-)	Flexing test:		
	≤ 50 % of the strands broken		
	Insulation resistance and high voltage test		
8.11.5 (-)	Test of 5.2.10.3 of IEC 60598-1:		
	Rewireable handlamp without cord guard or gland		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Non-rewireable handlamp as delivered		
	Gland not used as cord anchorage		
8.11.6 (-)	Non-detachable flexible cable or cord ≥ 5 m		
8.12 (8)	**PROTECTION AGAINST ELECTRIC SHOCK**		
8.12 (8.2.1)	Live parts not accessible		
	Basic insulated parts not used on the outer surface without appropriate protection		
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		
	Basic insulation only accessible under lamp or starter replacement		
	Protection in any position		
	Double-ended tungsten filament lamp		
	Insulation lacquer not reliable		
	Double-ended high-pressure discharge lamp		
	Relevant warning according to 3.2.18 fitted to the luminaire		
8.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		
8.12 (8.2.3.a)	Class II luminaire:		
	- basic insulated metal parts not accessible		
	- required insulation from live parts in compliance with Table X.1		
	- glass protective shields not used as supplementary insulation		
8.12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth		
8.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		
	Ordinary luminaire:		
	- voltage under load/ no-load AC (V)..... :		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- voltage under load/ no-load DC (V)……...:		
	- interrupted DC voltage (V) …….:		
	- touch current if applicable (mA) ..... :		
	One conductive part insulated if required		
	Other than ordinary luminaire:		
	- voltage under load/ no-load AC (V)..... :		
	- voltage under load/ no-load DC (V)……...:		
	- interrupted DC voltage (V) …….:		
	Class III luminaire only for connection to SELV/PELV		
8.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:		
	Ordinary luminaire:		
	- voltage under load/ no-load AC (V)..... :		
	- voltage under load/ no-load DC (V)……...:		
	Other than ordinary luminaire:		
	- voltage under load/ no-load AC (V)..... :		
	- voltage under load/ no-load DC (V)……...:		
	One pole insulated if required		
8.12 (8.2.4)	Portable luminaire has protection independent of supporting surface		
8.12 (8.2.5)	Compliance with the standard test finger or relevant probe		
8.12 (8.2.6)	Covers reliably secured		
8.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μF does not exceed 50 V 1 min after disconnection		
	Portable luminaire with capacitor > 0,1 μF (0.25) not exceed 34 V 1 s after disconnection		
	Other luminaires with capacitor > 0,1 μF (0.25) with plug and track adaptors do not exceed 60 V 5 s after disconnection		
8.12.1 (-)	Not possible to remove by hand parts prevent contact with ES or BC lamp caps		
	Protection against electrical shock checked with the protective grid and glass removed if with tungsten filament lamp		

8.13 (12)	**ENDURANCE TEST AND THERMAL TEST**	
8.13 (12.2)	**Selection of lamps and ballasts**	—

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	Lamp used according to Annex B	(Lamp used see Annex 2)	—
	Control gear if separate and not supplied	(Control gear used see Annex 2)	—
8.13 (12.3)	**Endurance test**		
	a) mounting-position ..... :		—
	b) test temperature (°C) ..... :		—
	c) total duration (h) ..... :		—
	d) supply voltage (V) ..... :		—
	d) if not equipped with control gear, constant voltage/current (V) or (A) ..... :		—
8.13 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		
	- voltage under normal operation (V)……...:		—
	- voltage under abnormal operation (V)……..:		—
	e) luminaire ceases to operate		—
	f) luminaire with constant light output function		
8.13 (12.3.2)	After endurance test:		
	- no part unserviceable		
	- luminaire not unsafe		
	- no damage to track system		
	- marking legible		
	- no cracks, deformation etc.		
8.13 (12.4)	**Thermal test (normal operation)**	(see Annex 2)	
8.13 (12.5)	**Thermal test (abnormal operation)**	(see Annex 2)	
8.13 (12.6)	**Thermal test (failed lamp control gear condition):**		
8.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A) ..... :		—
	- case of abnormal conditions ..... :		—
	- electronic lamp control gear		
	- measured winding temperature (°C): at 1,1 Un .... :		—
	- measured mounting surface temperature (°C) at 1,1 Un ..... :		
	- calculated mounting surface temperature (°C) ..... :		
	- track-mounted luminaires		
8.13 (12.6.2)	Temperature sensing control		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- case of abnormal conditions ..... :		—
	- thermal link		
	- manual reset cut-out		
	- auto reset cut-out		
	- measured mounting surface temperature (°C) ..... :		
	- track-mounted luminaires		
8.13 (12.7)	**Thermal test (failed lamp control gear in plastic luminaires):**		
8.13 (12.7.1)	Luminaire without temperature sensing control		
8.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		
	Test method 12.7.1.1 or Annex W ..... :		—
	Test according to 12.7.1.1:		
	- case of abnormal conditions ..... :		—
	- Ballast failure at supply voltage (V) ..... :		—
	- Components retained in place after the test		
	- Test with standard test finger after the test		
	Test according to Annex W:		
	- 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 .....:	See Test Table 8.16 (13.2.1)	
8.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		
	- 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 ..... :	See Test Table 8.16 (13.2.1)	
8.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		
	- case of abnormal conditions ..... :		—

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	- Components retained in place after the test		
	- Test with standard test finger after the test		
8.13 (12.7.2)	Luminaire with temperature sensing control		
	- 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: ..... :	See Test Table 8.16 (13.2.1)	
8.13.1 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) specified in 8.14		—
	No unsafe change of rubber parts after aged		
	Electrical strength test (reduced by 500 V)		
8.13.2 (-)	Thermal test normal and abnormal operation with the object placed on a dull black painted wooden floor or wall		
8.13.3 (-)	The limiting temperature of 70 °C for rubber does not apply to non-protective parts		

8.14 (9)	**RESISTANCE TO DUST AND MOISTURE**		
8.14 (-)	If IP > IP 20 the order of tests as specified in clause 8.13		—
8.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		
	- classification according to IP ..... :	IP	—
	- mounting position during test ..... :		—
	- fixing screws tightened; torque (Nm) ..... :		—
	- tests according to clauses ..... :		—
	- electric strength test afterwards		
	a) no deposit in dust-proof luminaire		
	b) no talcum in dust-tight luminaire		
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		
	c.1) For luminaires without drain holes – no water entry		
	c.2) For luminaires with drain holes – no hazardous water entry		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		
	e) no contact with live parts (IP 2X)		
	e) no entry into enclosure (IP 3X and IP 4X)		
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		
	f) no trace of water on part of lamp requiring protection from splashing water		
	g) no damage of protective shield or glass envelope		
8.14 (9.3)	Humidity test 48 h		
8.14.1 (-)	Protective glasses, translucent covers and similar parts removed before the humidity treatment		

8.15 (10)	**INSULATION RESISTANCE AND ELECTRIC STRENGTH**		
8.15 (10.2.1)	Insulation resistance test		
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø ..... :		—
	Insulation resistance (MΩ):		
	SELV/PELV:		
	- between current-carrying parts of different polarity :		
	- between current-carrying parts and mounting surface..... :		
	- between current-carrying parts and metal parts of the luminaire..... :		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		
	- Insulation bushings as described in Section 5 ..... :		
	Other than SELV/PELV:		
	- between live parts of different polarity ..... :		
	- between live parts and mounting surface ..... :		
	- between live parts and metal parts ..... :		
	- between live parts of different polarity through action of a switch..... :		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		
	- Insulation bushings as described in Section 5 ..... :		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
8.15 (10.2.2)	Electric strength test		
	Dummy lamp		
	Luminaires with ignitors after 24 h test		
	Luminaires with manual ignitors		
	Test voltage (V):		
	SELV/PELV:		
	- between current-carrying parts of different polarity :		
	- between current-carrying parts and mounting surface..... :		
	- between current-carrying parts and metal parts of the luminaire..... :		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		
	- Insulation bushings as described in Section 5 ..... :		
	Other than SELV/PELV:		
	- between live parts of different polarity ..... :		
	- between live parts and mounting surface ..... :		
	- between live parts and metal parts ..... :		
	- between live parts of different polarity through action of a switch..... :		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		
	- Insulation bushings as described in Section 5 ..... :		
8.15 (10.3)	Touch current (mA)……:		
	Protective conductor current (mA)……:		

8.16 (13)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		
8.16 (13.2.1)	Ball-pressure test ..... :	See Test Table 8.16 (13.2.1)	
8.16 (13.3.1)	Needle-flame test (10 s)..... :	See Test Table 8.16 (13.3.1)	
8.16 (13.3.2)	Glow-wire test (650°C) ..... :	See Test Table 8.16 (13.3.2)	
8.16 (13.4)	Proof tracking test (IEC 60112)..... :	See Test Table 8.16 (13.4)	
8.16.1 (-)	Pressure test on handle at 100°C		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

8.8 (11.2)	**TABLE I: Creepage distances and clearances**						
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*						
	Insulation type **	**Measured clearance**	**Required**		**Measured creepage**	**Required**	
			clearance	***Table**		**creepage**	***Table**
Distance 1:							
Working voltage (V) ..... :							—
PTI ..... :					< 600 ☐	≥ 600 ☐	—
Pulse voltage or U_P if applicable (kV) ..... :							—
Supplementary information:							
Distance 2:							
Working voltage (V) ..... :							—
PTI ..... :					< 600 ☐	≥ 600 ☐	—
Pulse voltage or U_P if applicable (kV) ..... :							—
Supplementary information:							
Distance 3:							
Working voltage (V) ..... :							—
PTI ..... :					< 600 ☐	≥ 600 ☐	—
Pulse voltage or U_P if applicable (kV) ..... :							—
Supplementary information:							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

8.8 (11.2)	**TABLE II: Creepage distances and clearances**							
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages								
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2								
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**		
			clearance	***Table**		**creepage**	***Table**	
Distance 1:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								
Distance 2:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								
Distance 3:								
Working voltage (V) .....:								—
Frequency if applicable (kHz) .....:								—
PTI .....:					< 600 ☐	≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) .....:								—
Supplementary information:								

** Insulation type: B – Basic; S – Supplementary; R – Reinforced.

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

8.16 (13.2.1)	**TABLE: Ball Pressure Test of Thermoplastics**			
Allowed impression diameter (mm) ..... :		2		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Supplementary information:				

8.16 (13.3.1)	**TABLE: Needle-flame test**				
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information:					

8.16 (13.3.2)	**TABLE: Resistance to heat and fire - Glow wire tests**				
Object/ Part No./ Material	**Manufacturer/ trademark**	**GWT (°C): 650**			**Verdict**
		t_E (s)	**t_I (s)**	**t_R (s)**	
Ignition of the specified layer placed underneath the test specimen (Yes/No)..... :					
Supplementary information:					

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

8.16 (13.4)	**TABLE: Proof tracking test**				
Test voltage PTI ..... :		175 V			—
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information:					

ANNEX 1	**TABLE: Critical components information**					
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Description:						
Description:						
Description:						

Supplementary information:

[1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

C - Integrated component tested together with the appliance

D - Alternative component

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	**TABLE: Thermal tests of Section 12**		
	Type reference ..... :		—
	Lamp used..... :		—
	Lamp control gear used ..... :		—
	Mounting position of luminaire ..... :		—
	Supply wattage (W) ..... :		—
	Supply current (A) ..... :		—
	Temperatures in test 1 - 4 below are corrected for ta (°C) ..... :		—
	- abnormal operating mode ..... :		—
8.13 (12.4)	- test 1: rated voltage ..... :		—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current ..... :		—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage ..... :		—
	Through wiring or looping-in wiring loaded by a current of A during the test ..... :		—
8.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage ..... :		—

Temperature measurements (°C)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit

Supplementary information:

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 3	**Screw terminals (part of the luminaire)**		
(14)	**SCREW TERMINALS**		
(14.2)	Type of terminal.....:		—
	Rated current (A).....:		—
(14.3.2.1)	One or more conductors		
(14.3.2.2)	Special preparation		
(14.3.2.3)	Terminal size		
	Cross-sectional area (mm²).....:		—
(14.3.3)	Conductor space (mm).....:		
(14.4)	Mechanical tests		
(14.4.1)	Minimum distance		
(14.4.2)	Cannot slip out		
(14.4.3)	Special preparation		
(14.4.4)	Nominal diameter of thread (metric ISO thread) .....:	M	
	External wiring		
	No soft metal		
(14.4.5)	Corrosion		
(14.4.6)	Nominal diameter of thread (mm) .....:		
	Torque (Nm).....:		
(14.4.7)	Between metal surfaces		
	Lug terminal		
	Mantle terminal		
	Pull test; pull (N).....:		
(14.4.8)	Without undue damage		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 4	**Screwless terminals (part of the luminaire)**		
(15)	**SCREWLESS TERMINALS**		
(15.2)	Type of terminal.....:		—
	Rated current (A).....:		—
(15.3.1)	Material		
(15.3.2)	Clamping		
(15.3.3)	Stop		
(15.3.4)	Unprepared conductors		
(15.3.5)	Pressure on insulating material		
(15.3.6)	Clear connection method		
(15.3.7)	Clamping independently		
(15.3.8)	Fixed in position		
(15.3.10)	Conductor size		
	Type of conductor		
(15.5)	Terminals and connections for internal wiring		
(15.5.1)	Mechanical tests		
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples) .....:		
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples) .....:		
	Insertion force not exceeding 50 N		
(15.5.1.2)	Permanent connections: pull-off test (20 N)		
(15.5.2)	Electrical tests		
	Voltage drop (mV) after 1 h (4 samples).....:		
	Voltage drop of two inseparable joints		
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) .....:		
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) .....:		
(15.6)	Terminals and connections for external wiring		
(15.6.1)	Conductors		
	Terminal size and rating		
15.6.2	Mechanical tests		

IS 10322 (P-5/Sec-6) 2026 / IEC 60598-2-8			
Clause	Requirement + Test	Result - Remark	Verdict

(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N) .....:		
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N) .....:		
(15.6.3)	Electrical tests		
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		

(15.6.3.1) (15.6.3.2)	**TABLE: Contact resistance test / Heating tests**										
	Voltage drop (mV) after 1 h										—
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)											
Supplementary information:											