

SUMMARY OF ULR No. TC132782500001833F/TEST REPORT NO. TR120251215002 DATED 15/12/2025

(Number of pages in test report: Page no. 1 of 35)
TEST FORMAT AS PER IS 10322 (Part 5/ Sec 1):2012

1. Customer/Manufacturer: : URSAGLOW LIGHTING INDUSTRIES PRIVATE LIMITED
2ND. FLOOR, PLOT NO 238/593, SUB PLOT NO. 16, SIBA PLAZA STREET, GAJAPATI NAGAR,
BHUBANESWAR - 751005, ORISSA
2. Product : Fixed General Purpose LED Luminaires
3. Models : Model Tested: TLT-TLP-DL-36W; Brand Name: **URSA**
(Series Models: TLT-TLP-DL-24W, TLT-TLP-DL-20W; Brand Name: **URSA** are in the same product family).
4. Model Differences Provided (If Applicable) : Yes
5. Model Differences Verified as per MeitY Guidelines for Series Formulation : Yes
6. Test Results : As Mentioned Under

S. No.	TEST REQUIREMENT	CLAUSE	VERDICT
1.	General Test Requirements	Cl.4	P
2.	Classification of Luminaires	Cl.5	P
3.	Marking	Cl.6	P
4.	Construction	Cl.7	P
5.	Creepage Distances and clearance	Cl.8	P
6.	Provision for Earthing	Cl.9	N/A
7.	Terminals	Cl.10	N/A
8.	External and Internal wiring	Cl.11	P
9.	Protection against electric shock	Cl.12	P
10.	Endurance tests and Thermal tests	Cl.13	P
11.	Resistance to dust and moisture	Cl.14	P
12.	Insulation Resistance and electric Strength	Cl.15	P
13.	Resistance to Heat, Fire and Tracking	Cl.16	P
14.	Photometric Tests	Cl.17	N/A

General Information

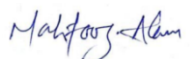
1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC Standards are not available) are also provided in the list of critical components.

Conclusion

1. Sample meets all relevant requirements of IS 10322 (Part 5/ Sec 1):2012.

Remarks





1. Series Models: TLT-TLP-DL-24W, TLT-TLP-DL-20W; Brand Name: **URSA** are in the same product family and can be undertaken in series with Model Tested: TLT-TLP-DL-36W; Brand Name: **URSA**. All the tests have been performed on Model Tested: TLT-TLP-DL-36W; Brand Name: **URSA** (Worst case).
2. The test(s) have been carried out as per customer request only.
3. The report has been generated and verified digitally.


MD Mahfooz Alam
Tested By


(Parul)
Authorised Signatory

The NABL Accreditation and the BIS recognition claimed is valid only for the scope of accreditation and recognition as on date of this report, as mentioned on NABL and BIS Website respectively.

**TEST REPORT**

ULR No.:	TC132782500001833F		Page 1 of 35	
Test Report No.:	TR120251215002	Issue Date:	15/12/2025	
Discipline:	Electrical	Group:	Lamps, Luminaires & Accessories	
Customer/Manufacturer:	URSAGLOW LIGHTING INDUSTRIES PRIVATE LIMITED 2ND. FLOOR, PLOT NO 238/593, SUB PLOT NO. 16, SIBA PLAZA STREET, GAJAPATI NAGAR, BHUBANESWAR - 751005, ORISSA			
Item Description/Particulars Of Sample Submitted:	Fixed General Purpose LED Luminaires			
Sample/Item Condition:	Fit for testing			
Identification:	Model No Tested:	TLT-TLP-DL-36W	Serial No.:	Nil
	Series Models	TLT-TLP-DL-24W, TLT-TLP-DL-20W	Sample Encoded Code:	25E5357N
			Sample Code:	SC25EP18740
			Bar Code:	262932CRS
Sample Deposited/Collected by:	Customer			
Customer Reference no.	Nil	Date:	07/11/2025	
Job Order No.:	BTH-R1/PM/251114/2	Date of receipt:	14/11/2025	
Date(s) of performance of tests:	15/11/2025 to 20/11/2025 & 29/11/2025 to 13/12/2025			
Laboratory Name and Address:	BHARAT TEST HOUSE PVT. LTD. 1474, HSIIDC, Indl. Estate, Rai, Distt. Sonapat-131029 Haryana.		 Scan this QR Code to verify the Report	
Test Location:	At Lab			
Test Specification(s):	IS 10322 (Part 5/ Sec 1):2012			
General Environmental Conditions:	Temperature: (27 ± 2)°C Humidity: (65 ± 5)%RH			
Result:	The sample confirms the relevant test specification as per below report.			
Supplementary Information's:	- Deviation from the test methods as prescribed in relevant Specification/Work Instructions: Nil - The information supplied by the customer may affect the validity of results reported as per standard requirement.			
Abbreviations:	P: Pass; F: Fail; N/A: Not Applicable.			
Remarks:	<p>1. Series Models: TLT-TLP-DL-24W, TLT-TLP-DL-20W; Brand Name: URSA are in the same product family and can be undertaken in series with Model Tested: TLT-TLP-DL-36W; Brand Name: URSA. All the tests have been performed on Model Tested: TLT-TLP-DL-36W; Brand Name: URSA (Worst case).</p> <p>2. The test(s) have been carried out as per customer request only.</p> <p>3. The report has been generated and verified digitally.</p> <p style="text-align: center;"><i>This report is related to the sample submitted.</i></p>			
Tested by:	Reviewed by:	Authorized by:		
				
MD Mahfooz Alam	Parul	Parul		
Testing Engineer	Authorized Signatory	Authorized Signatory		
Date: 15/12/2025	Date: 15/12/2025	Date: 15/12/2025		



TEST REPORT IS 10322 (Part 5/Sec 1):2012 Luminaire Part 5: Particular requirements Section 1: Fixed general purpose LED luminaires	
Report Reference No. :	TR120251215002
Date of issue	15/12/2025
Total number of pages :	35
Manufacturer's name	URSAGLOW LIGHTING INDUSTRIES PRIVATE LIMITED
Address :	2ND. FLOOR, PLOT NO 238/593, SUB PLOT NO. 16, SIBA PLAZA STREET, GAJAPATI NAGAR, BHUBANESWAR - 751005, ORISSA
Test specification:	
Standard	IS 10322 (Part 5/ Sec 1):2012
Test procedure :	Compliance Report
Non-standard test method	N/A
Test Report Form No. :	BIS_LUM/FGPL_IS10322-5-1_V1.0
Test Report Form(s) Originator	Bureau of Indian Standards
Master TRF :	23/01/2015
Test item description	Fixed General Purpose LED Luminaires
Trade Mark	
Manufacturer :	URSAGLOW LIGHTING INDUSTRIES PRIVATE LIMITED
Model/Type reference :	Model Tested: TLT-TLP-DL-36W Series Models: TLT-TLP-DL-24W, TLT-TLP-DL-20W
Ratings :	As indicating marking label (refer page no.4)
Other Documents Submitted	Please refer to Table: - List of Components at Page No.29-30

Tested by:	Reviewed by:	Authorized by:
MD Mahfooz Alam	Parul	Parul
Testing Engineer	Authorized Signatory	Authorized Signatory
Date: 15/12/2025	Date: 15/12/2025	Date: 15/12/2025

T.R.F No. BIS_LUM/FGPL_IS10322-5-1_V1.0

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Test Code	Description	Measurement/ testing	Total No. of tests	Total no. of applicable tests/ Req.	No. of tests/ Req. passed	Page No.
EL 2400	Marking	Marking (Cl. 6(3))	28	5/10	5/10	8
EL 2401	Construction	Construction (Cl. 7(4))	127	13/10	13/10	10
EL 2402	Creepage Distances And Clearances	Creepage Distances and Clearance (Cl. 8(11))	5	1/0	1/0	15
EL 2403	Provision For Earthing	Provision for Earthing (Cl. 9(7))	11	0/0	0/0	16
EL 2404	Terminals	Screw Terminals (Cl. 10(14))	02	0/0	0/0	17
		Screwless Terminals and electrical connections (Cl. 10(15))	02	0/0	0/0	18
EL 2405	External And Internal Wiring	External and Internal wiring (Cl. 11(5))	73	18/11	18/11	19
EL 2406	Protection Against Electric Shock	Protection Against Electric Shock (Cl. 12(8))	18	2/2	2/2	22
EL 2407	Endurance Tests And Thermal Tests	Endurance Tests And Thermal Tests (Cl. 13(12))	08	3/0	3/0	23
EL 2408	Resistance To Dust And Moisture	Resistance To Dust And Moisture (Cl. 14(9))	12	2/0	2/0	25
EL 2409	Insulation Resistance And Electric Strength	Insulation Resistance And Electric Strength (Cl. 15(10))	07	5/0	5/0	26
EL 2410	Resistance to Heat, Fire And Tracking	Resistance to Heat, Fire And Tracking (Cl. 16(13))	04	0/2	0/2	28
EL 2411	Photometric Tests	Photometric Tests (Cl. 17)	02	0/0	0/0	29

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



(Approving Authority)



Copy of Marking Plate:

Model Tested: TLT-TLP-DL-36W

Series Model: TLT-TLP-DL-24W

LED Light: LED Batten
URSA Model: TLT-TLP-DL-36W
 LED Batten: 36Watt, Type: T8, IP20
 Input: 200-240 VAC, 50 Hz, Current: 0.16A
 PF:>0.9, Ta: 45° C, L (Red), N(black)
 Mfd.by: **URSA Glow Lighting Industries Pvt. Ltd.**
MADE IN INDIA

LED Light: LED Batten
URSA Model: TLT-TLP-DL-24W
 LED Batten: 24Watt, Type: T8, IP20
 Input: 200-240 V AC, 50 Hz, Current: 0.10
 PF:>0.9, Ta: 45° C, L (Red), N(black)
 Mfd.by: **URSA Glow Lighting Industries Pvt. Ltd.**
MADE IN INDIA

Series Model: TLT-TLP-DL-20W

LED Light: LED Batten
URSA Model: TLT-TLP-DL-20W
 LED Batten: 20Watt, Type: T8, IP 20
 Input: 200-240 V AC, 50 Hz, Current: 0.09A
 PF:>0.9, Ta: 45° C, L (Red), N(black)
 Mfd.by: **URSA Glow Lighting Industries Pvt. Ltd.**
MADE IN INDIA



T.R.F No. BIS_LUM/FGPL_IS10322-5-1_V1.0

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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 2	Photo Documents	01
General remarks:		
<ul style="list-style-type: none"> - 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 testing laboratory. - Measurement of uncertainty reported is $\pm 1.86\%$ max. 		
Possible test case verdicts:		
- test case does not apply to the test object	N/A (Not Applicable)	
- test object does meet the requirement.....	P (Pass)	
- test object does not meet the requirement.....	F (Fail)	
Testing.....		
Date of receipt of test item	14/11/2025	
Date (s) of performance of tests	15/11/2025 to 20/11/2025 & 29/11/2025 to 13/12/2025	
Laboratory conditions.....		
Ambient Temperature.....	(27 \pm 2)°C	
Ambient Humidity.....	(65 \pm 5)%RH	





General Product Information:-

1) Description of the product: Fixed General Purpose LED Luminaires, 200-240VAC, 36W, 0.16A, 50Hz, PF:>0.9, Class-II, IP20, Ta:45°C, Plastic enclosure, LED Luminaire suitable for direct mounting on flammable surface.

Model Tested:

Sr. No.	Model Tested	Specification
1.	TLT-TLP-DL-36W	200-240VAC, 36W, 0.16A, 50Hz, PF:>0.9, Class II, IP20, Ta: 45°C

2) Difference between the models:

Sr.No.	Series Models	Specifications	Model difference
1	TLT-TLP-DL-24W	200-240VAC, 24W, 0.10A, 50Hz, PF:>0.9, Class II, IP20, Ta: 45°C	Model designation, Rated Power, Rated current
2	TLT-TLP-DL-20W	200-240VAC, 20W, 0.09A, 50Hz, PF:>0.9, Class II, IP20, Ta: 45°C	

Supply connections: AC Power Supply.

Technical Considerations:

- 1 Same AC Supplied Integral Control gear.
- 2 Same material characteristics for enclosure.
- 3 Same class of construction of Luminaire.

Report summary: All applicable tests according to the referenced standard(s) have been carried out.





Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4 (1)	GENERAL TEST REQUIREMENTS			P
4 (1.1)	Information for luminaire design considered		Standard Yes [✓] No []	-
4 (1.3)	More sections applicable		Yes [] No [✓]	-

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5 (2)	CLASSIFICATION OF LUMINAIRES			P
5 (2.2)	Type of protection		Class II	-
5 (2.3)	Degree of protection.....		IP20	-
5 (2.4)	Luminaire suitable for mounting on normally flammable surfaces		Yes [] No [✓]	-
	Luminaire suitable for mounting on non-combustible materials		Yes [✓] No []	-
5 (2.5)	Luminaire for normal use		Yes [✓] No []	-
	Luminaire for rough service		Yes [] No [✓]	-



T.R.F No. BIS_LUM/FGPL_IS10322-5-1_V1.0

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BHARAT TEST HOUSE PVT. LTD.

1474, HSIIDC Industrial Estate, Rai, Distt. Sonapat, Haryana-131029
Tel.: 0130-2367673 | Mob.: 9310314585, 8930260106 | email: bthrai@bharattesthouse.com

(1)The above results are related only to the Tests/Calibration performed on the product received. Endorsement of product is neither inferred nor implied. (2) This report is not to be reproduced wholly or in part & forbidden to be used as an evidence in the court law & ought not to be used in any advertising media without our special permission in writing. (3) Samples will be disposed after 30 days except perishable items (within 7days) from date of issue of report or as per the regulatory guidelines, if not collected or claimed by the customer. (4) Total liability of our Test House is limited to the invoice amount only. (5) Report refers to the product received by Bharat Test House Pvt. Ltd. unless mentioned otherwise.

ISO 9001, ISO 14001 & ISO 45001 CERTIFIED LAB



Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6 (3)	MARKING			P
6 (3.2)	Mandatory markings*	EL 2400-00	Complied	P
	Position of the marking*	EL 2400-01	Outside of luminaire which is visible at the time of installation	P
	Format of symbols/text	EL 2400-02	Complied	P
6 (3.3)	Additional information*	EL 2400-03	Provided in user manual	P
	Language of instructions*	EL 2400-04	English	P
6 (3.3.1)	Combination luminaires*	EL 2400-05	No such construction	N/A
6 (3.3.2)	Nominal frequency in Hz*	EL 2400-06	50Hz	P
6 (3.3.3)	Operating temperature*	EL 2400-07		N/A
6 (3.3.4)	Symbol or warning notice*	EL 2400-08	Not Marked	N/A
6 (3.3.5)	Wiring diagram*	EL 2400-09	Marked	P
6 (3.3.6)	Special conditions*	EL 2400-10	No such construction	N/A
6 (3.3.7)	Metal halide lamp luminaire – warning*	EL 2400-11	LED module used	N/A
6 (3.3.8)	Limitation for semi-luminaires*	EL 2400-12	Not a semi-luminaires	N/A
6 (3.3.9)	Power factor and supply current*	EL 2400-13	Power Factor: >0.9 & Supply Current: 0.16A	P
6 (3.3.10)	Suitability for use indoors*	EL 2400-14	Complied	P
6 (3.3.11)	Luminaires with remote control*	EL 2400-15	No remote control used	N/A
6 (3.3.12)	Clip-mounted luminaire – warning*	EL 2400-16		N/A
6 (3.3.13)	Specifications of protective shields*	EL 2400-17	Protective shield not used	N/A
6 (3.3.14)	Symbol for nature of supply*	EL 2400-18	Marked	P
6 (3.3.15)	Rated current of socket outlet*	EL 2400-19		N/A
6 (3.3.16)	Rough service luminaire*	EL 2400-20	Not a rough service luminaire	N/A
6 (3.3.17)	Mounting instruction for type X, type Y and type Z attachments*	EL 2400-21	Type Z attachment	P
6 (3.3.18)	Non-ordinary luminaires with PVC cable*	EL 2400-22		N/A
6 (3.4)	Test with water	EL 2400-23	Complied	P
	Test with hexane	EL 2400-24	Complied	P
	Legible after test	EL 2400-25	Marking legible and durable after the test	P
	Label attached	EL 2400-26	See copy of marking plate	P
6 (3.5.1)	Standard Mark is governed by the provisions of the Bureau of Indian Standards Act,1986*	EL 2400-27	Not marked	N/A

*Total number of Requirements to be observed/ inspected : 23
Total No. of applicable Requirement : 10
No. of Requirements for which the sample passed : 10

Total number of tests to be conducted : 05
Total No. of applicable Tests : 05
No. of tests for which the sample passed : 05

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



(Approving Authority)

T.R.F No. BIS_LUM/FGPL_IS10322-5-1_V1.0

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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4)	CONSTRUCTION			P
7 (4.2)	Components replaceable without difficulty*	EL 2401-00	Complied	P
7 (4.3)	Wireways smooth and free from sharp edges*	EL 2401-01	Satisfactory	P
7 (4.4)	Lampholders			N/A
7 (4.4.1)	Integral lampholder*	EL 2401-02	No Lamp holder used	N/A
7 (4.4.2)	Wiring connection*	EL 2401-03		N/A
7 (4.4.3)	Lampholder for end-to-end mounting*	EL 2401-04		N/A
7 (4.4.4)	Positioning			N/A
	- pressure test (N)	EL 2401-05		N/A
	After test the lampholder comply with relevant standard sheets and show no damage	EL 2401-06		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	EL 2401-07		N/A
	- bending test (N)	EL 2401-08		N/A
	After test the lampholder have not moved from its position and show no permanent deformation	EL 2401-09		N/A
7 (4.4.5)	Peak pulse voltage	EL 2401-10	No ignitors used	N/A
7 (4.4.6)	Centre contact*	EL 2401-11		N/A
7 (4.4.7)	Parts in rough service luminaires resistant to tracking	EL 2401-12		N/A
7 (4.4.8)	Lamp connectors*	EL 2401-13		N/A
7 (4.5)	Starter holders			N/A
	Starter holder in luminaires other than class II*	EL 2401-14	No starter holder used	N/A
	Starter holder class II construction*	EL 2401-15		N/A
	Starter can be touched with the standard test finger in class II luminaires*	EL 2401-16		N/A
7 (4.6)	Terminal blocks		No terminal block used	N/A
	Tails	EL 2401-17		N/A
	Unsecured blocks	EL 2401-18		N/A
7 (4.7)	Terminals and supply connections			N/A
7 (4.7.1)	Contact to metal parts*	EL 2401-19	Terminal not used	N/A
7 (4.7.2)	Test 8 mm live conductor	EL 2401-20		N/A
	Test 8 mm earth conductor	EL 2401-21		N/A
7 (4.7.3)	Terminals for supply conductors	EL 2401-22		N/A
7 (4.7.4)	Terminals other than supply connection*	EL 2401-23		N/A
7 (4.7.5)	Heat-resistant wiring/sleeves*	EL 2401-24		N/A
7 (4.7.6)	Multi-pole plug*	EL 2401-25	No such construction	N/A
7 (4.8)	Switches			N/A
	- adequate rating*	EL 2401-26	No switches used	N/A
	- adequate fixing*	EL 2401-27		N/A
	- polarized supply*	EL 2401-28		N/A

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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4.9)	Insulating lining and sleeves			N/A
7 (4.9.1)	Retention*	EL 2401-29	No insulating lining and sleeves used	N/A
	Method of fixing.....:	EL 2401-30		N/A
7 (4.9.2)	Insulated linings and sleeves:			N/A
	Resistant to a temperature > 20 °C to the wire temperature or	EL 2401-31		N/A
	a) & c) Insulation resistance and electric strength	EL 2401-32		N/A
	b) Ageing test. Temperature (°C).....:	EL 2401-33		N/A
7 (4.10)	Double or reinforced insulation			P
7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation*	EL 2401-34	Complied	P
	Safe installation fixed luminaires*	EL 2401-35		P
	Capacitors and switches*	EL 2401-36	No such construction	N/A
	Interference suppression capacitors according to ISQC 302400*	EL 2401-37		N/A
7 (4.10.2)	Assembly gaps:			N/A
	- not coincidental*	EL 2401-38		N/A
	- no straight access with test probe	EL 2401-39		N/A
7 (4.10.3)	Retention of insulation:			P
	- fixed*	EL 2401-40	Complied	P
	- unable to be replaced; luminaire inoperative*	EL 2401-41		N/A
	- sleeves retained in position*	EL 2401-42	No sleeves used	N/A
	- tube of insulating material*	EL 2401-43		N/A
7 (4.11)	Electrical connections and current-carrying parts			P
7 (4.11.1)	Contact pressure*	EL 2401-44	Electrical connection & contact pressure not transmitting through insulating material	P
7 (4.11.2)	Screws:			N/A
	- self-tapping screws*	EL 2401-45		N/A
	- thread-cutting screws*	EL 2401-46		N/A
7 (4.11.3)	Screw locking:			P
	- spring washer*	EL 2401-47		N/A
	- rivets*	EL 2401-48		N/A
7 (4.11.4)	Material of current-carrying parts*	EL 2401-49	Complied	P
7 (4.11.5)	No contact to wood or mounting surface*	EL 2401-50	Complied	P
7 (4.11.6)	Electro-mechanical contact systems	EL 2401-51	No electro-mechanical contact system provided	N/A
7 (4.12)	Screws and connections (mechanical) and glands			N/A
7 (4.12.1)	Screws not made of soft metal*	EL 2401-52	No screws used	N/A
	Screws of insulating material*	EL 2401-53		N/A
	Torque test: torque (Nm); part.....:	EL 2401-54		N/A
	Torque test: torque (Nm); part.....:	EL 2401-55		N/A
	Torque test: torque (Nm); part.....:	EL 2401-56		N/A
7 (4.12.2)	Screws with diameter < 3 mm screwed into metal*	EL 2401-57		N/A

T.R.F No. BIS_LUM/FGPL_IS10322-5-1_V1.0

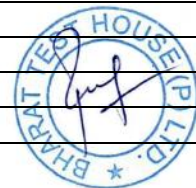
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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4.12.4)	Locked connections:			N/A
	- fixed arms; torque (Nm).....:	EL 2401-58	No such construction	N/A
	- lampholder; torque (Nm).....:	EL 2401-59		N/A
	- push-button switches; torque 0,8 Nm.....:	EL 2401-60		N/A
7 (4.12.5)	Screwed glands; force (Nm).....:	EL 2401-61		N/A
7 (4.13)	Mechanical strength		See below	P
7 (4.13.1)	Impact tests:		Satisfactory	P
	- fragile parts; energy (Nm).....:	EL 2401-62		N/A
	- other parts; energy (Nm).....:	EL 2401-63	0.35Nm, No damage occurred (Compression=18mm)	P
	1) live parts	EL 2401-64	No hazard with live parts	P
	2) linings	EL 2401-65		N/A
	3) protection	EL 2401-66		N/A
	4) covers	EL 2401-67		N/A
7 (4.13.3)	Straight test finger	EL 2401-68	Satisfactory (No hazard with live parts)	P
7 (4.13.4)	Rough service luminaires		Not a rough service luminaires	N/A
	- IP54 or higher	EL 2401-69		N/A
	a) fixed	EL 2401-70		N/A
	b) hand-held	EL 2401-71		N/A
	c) delivered with a stand	EL 2401-72		N/A
	d) for temporary installations and suitable for mounting on a stand	EL 2401-73		N/A
7 (4.13.6)	Tumbling barrel	EL 2401-74		N/A
7 (4.14)	Suspensions, fixings and means of adjusting			N/A
7 (4.14.1)	Mechanical load:			N/A
	A) four times the weight	EL 2401-75		N/A
	B) torque 2,5 Nm	EL 2401-76	Not a rigid suspension luminaires	N/A
	C) bracket arm; bending moment (Nm).....:	EL 2401-77		N/A
	D) load track-mounted luminaires	EL 2401-78		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	EL 2401-79		N/A
	Metal rod. diameter (mm)	EL 2401-80		N/A
7 (4.14.2)	Load to flexible cables			N/A
	Mass (kg)	EL 2401-81	No a flexible cables or cords suspended luminaires	N/A
	Stress in conductors (N/mm ²)	EL 2401-82		N/A
	Mass (kg) of semi-luminaire	EL 2401-83		N/A
	Bending moment (Nm) of semi-luminaire	EL 2401-84		N/A
7 (4.14.3)	Adjusting devices:			N/A
	- flexing test; number of cycles.....:	EL 2401-85		N/A
	- strands broken.....:	EL 2401-86		N/A
	- electric strength test afterwards	EL 2401-87		N/A



Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors*	EL 2401-88	No telescopic tube used	N/A
7 (4.14.5)	Guide pulleys*	EL 2401-89	No guide pulleys used	N/A
7 (4.14.6)	Strain on socket-outlets*	EL 2401-90	No socket outlet used	N/A
7 (4.15)	Flammable materials			P
	- glow-wire test 650°C.....:	EL 2401-91		N/A
	- spacing ≥ 30 mm	EL 2401-92	No flammable materials	N/A
	- screen withstanding test of 13.3.1	EL 2401-93		N/A
	- screen dimensions	EL 2401-94		N/A
	- no fiercely burning material	EL 2401-95	Satisfactory	P
	- thermal protection	EL 2401-96		N/A
	- electronic circuits exempted	EL 2401-97	Totally enclosed in an insulated enclosure	N/A
	Luminaires made of thermoplastic material with lamp control gear			N/A
	a) construction*	EL 2401-98		N/A
	b) temperature sensing control	EL 2401-99	No temperature sensing control used	N/A
	c) surface temperature	EL 2401-100		N/A
7 (4.16)	Luminaires marked with symbol 			N/A
	No lamp control gear.....:	EL 2401-101		N/A
7 (4.16.1)	Lamp control gear spacing:			N/A
	- spacing 10 mm	EL 2401-102		N/A
	- spacing 35 mm	EL 2401-103		N/A
7 (4.16.2)	Thermal protection:			N/A
	- in lamp control gear	EL 2401-104	No thermal protection	N/A
	- external	EL 2401-105		N/A
	- fixed position	EL 2401-106		N/A
	- temperature marked lamp control gear	EL 2401-107		N/A
7 (4.16.3)	Design to satisfy the test of 12.6	EL 2401-108		N/A
7 (4.17)	Drain holes			N/A
	Clearance at least 5 mm	EL 2401-109	No drain hole used	N/A
7 (4.18)	Resistance to corrosion			N/A
7 (4.18.1)	- rust-resistance	EL 2401-110		N/A
7 (4.18.2)	- season cracking in copper	EL 2401-111		N/A
7 (4.18.3)	- corrosion of aluminium	EL 2401-112		N/A
7 (4.19)	Igniters compatible with ballast*	EL 2401-113	No igniters used	N/A
7 (4.20)	Rough service vibration	EL 2401-114		N/A
7 (4.21)	Protective shield			N/A
7 (4.21.1)	Shield fitted if tungsten halogen lamps	EL 2401-115	LED luminaire, no shield provided	N/A
7 (4.21.2)	Particles from a shattering lamp not impair safety	EL 2401-116		N/A
7 (4.21.3)	No direct path	EL 2401-117		N/A
7 (4.21.4)	Impact test on shield	EL 2401-118		N/A
	Glow-wire test on lamp compartment.....:	EL 2401-119		N/A





Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
7 (4.22)	Attachments to lamps not cause overheating or damage*	EL 2401-120	LED luminaire	N/A
7 (4.23)	Semi-luminaires comply Class II*	EL 2401-121	Not a semi luminaire	N/A
7 (4.24)	UV Radiation			N/A
	UV radiation for metal halide lamps (Annex P)	EL 2401-122	LED luminaire, No radiation produced	N/A
7 (4.25)	Mechanical hazard			P
	No sharp point or edges*	EL 2401-123	Complied	P
7 (4.26)	Short-circuit protection			N/A
7 (4.26.1)	Adequate means of uninsulated accessible SELV parts	EL 2401-124	No uninsulated accessible SELV parts	N/A
7 (4.26.2)	Short-circuit test	EL 2401-125		N/A
7 (4.26.3)	Test chain according to Fig. 29	EL 2401-126		N/A

*Total number of Requirements to be observed/ inspected : 44
 Total No. of applicable Requirement : 10
 No. of Requirements for which the sample passed : 10

Total number of tests to be conducted : 83
 Total No. of applicable Tests : 13
 No. of tests for which the sample passed : 13

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
8 (11)	CREEPAGE DISTANCES AND CLEARANCES			P
8 (11.2)	Working voltage (V).....:	EL 2402-00	200-240VAC	P
	Voltage form.....:	EL 2402-01	Sinusoidal [v] Non-sinusoidal []	P
	PTI.....:	EL 2402-02	< 600 [v] > 600 []	P
	Impulse withstand category (Normal category II) (Category III Annex U)	EL 2402-03	Category II [v] Category III []	P
	Rated pulse voltage (kV).....:	EL 2402-04		N/A
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm).....:	EL 2402-05	Creepage: 3.36mm (Minimum Distance Required: 2.5mm) Clearance: 3.36mm (Minimum Distance Required: 1.7mm)	P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm).....:	EL 2402-06		N/A
	(3) Parts becoming live due to breakdown of basic insulation and metal parts cr (mm); cl (mm).....:	EL 2402-07		N/A
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm).....:	EL 2402-08		N/A
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm).....:	EL 2402-09		N/A

*Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 05
 Total No. of applicable Tests : 01
 No. of tests for which the sample passed : 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
9 (7)	PROVISION FOR EARTHING			N/A
9 (7.2.1 + 7.2.3)	Accessible metal parts	EL 2403-00		N/A
	Metal parts in contact with supporting surface*	EL 2403-01		N/A
	Resistance < 0,5 Ω	EL 2403-02		N/A
	Self-tapping screws used*	EL 2403-03		N/A
	Thread-forming screws*	EL 2403-04		N/A
	Thread-forming screw used in a groove*	EL 2403-05		N/A
	Earth makes contact first*	EL 2403-06		N/A
9 (7.2.2 + 7.2.3)	Earth continuity in joints, etc. *	EL 2403-07		N/A
9 (7.2.4)	Compliance with 4.7.3	EL 2403-08		N/A
	Connections adequately locked	EL 2403-09		N/A
9 (7.2.5)	Earth terminal integral part of connector socket*	EL 2403-10		N/A
9 (7.2.6)	Earth terminal adjacent to mains terminals*	EL 2403-11		N/A
9 (7.2.7)	Electrolytic corrosion of the earth terminal*	EL 2403-12		N/A
9 (7.2.8)	Material of earth terminal*	EL 2403-13		N/A
	Contact surface bare metal*	EL 2403-14		N/A
9 (7.2.10)	Class II luminaire for looping-in*	EL 2403-15		N/A
	Double or reinforced insulation to functional earth*	EL 2403-16		N/A
9 (7.2.11)	Earthing core coloured green-yellow*	EL 2403-17		N/A
	Length of earth conductor*	EL 2403-18		N/A

*Total number of Requirements to be observed/ inspected : 09
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
Total No. of applicable Tests : 00
No. of tests for which the sample passed : N/A

Certificate: The above tests/requirements are not applicable.



(Approving Authority)



Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
10 (14)	SCREW TERMINALS			N/A
	Separately approved; component list.....:	EL 2404-00	No screw terminals used	N/A
	Part of the luminaire.....:	EL 2404-01		N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
 Total No. of applicable Tests : 00
 No. of tests for which the sample passed : N/A

Certificate: The above tests/requirements are not applicable.



(Approving Authority)



Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS			N/A
	Separately approved; component list:	EL 2404-02	Screwless terminal not used	N/A
	Part of the luminaire:	EL 2404-03		N/A

*-Total number of Requirements to be observed/ inspected : 00
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
Total No. of applicable Tests : 00
No. of tests for which the sample passed : N/A

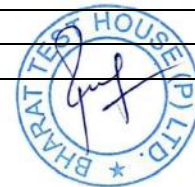
Certificate: The above tests/requirements are not applicable.



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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
11 (5)	EXTERNAL AND INTERNAL WIRING			P
11 (5.2)	Supply connection and external wiring			P
11 (5.2.1)	Means of connection*:	EL 2405-00	Non detachable flexible cable used	P
11 (5.2.2)	Type of cable*:	EL 2405-01	PVC	P
	Nominal cross-sectional area (mm ²)*:	EL 2405-02	2×0.75mm ²	P
	Cables equal to IS 694 and IS 9968 (Part 1) *:	EL 2405-03	Complied	P
	Luminaire provided with socket-outlet*:	EL 2405-04	No such socket outlet	N/A
11 (5.2.3)	Type of attachment, X, Y or Z*:	EL 2405-05	Type Z attachment used	P
11 (5.2.5)	Type Z not connected to screws	EL 2405-06		N/A
11 (5.2.6)	Cable entries:			P
	- suitable for introduction	EL 2405-07	Satisfactory	P
	- adequate degree of protection	EL 2405-08	Complied	P
11 (5.2.7)	Cable entries through rigid material have rounded edges*:	EL 2405-09	Complied	P
11 (5.2.8)	Insulating bushings:			N/A
	- suitably fixed*:	EL 2405-10	Fixed luminaire with no means of adjustment	N/A
	- material in bushings*:	EL 2405-11		N/A
	- material not likely to deteriorate*:	EL 2405-12		N/A
	- tubes or guards made of insulating material*:	EL 2405-13		N/A
11 (5.2.9)	Locking of screwed bushings*:	EL 2405-14	No such bushing used	N/A
11 (5.2.10)	Cord anchorage:			P
	- covering protected from abrasion	EL 2405-15	Satisfactory	P
	- clear how to be effective	EL 2405-16		P
	- no mechanical or thermal stress	EL 2405-17	Satisfactory	P
	- no tying of cables into knots etc.	EL 2405-18	Complied	P
	- insulating material or lining	EL 2405-19	Complied	P
11 (5.2.10.1)	Cord anchorage for type X attachment:			N/A
	a) at least one part fixed	EL 2405-20		N/A
	b) types of cable	EL 2405-21		N/A
	c) no damaging of the cable	EL 2405-22		N/A
	d) whole cable can be mounted	EL 2405-23		N/A
	e) no touching of clamping screws	EL 2405-24		N/A
	f) metal screw not directly on cable	EL 2405-25		N/A
	g) replacement without special tool	EL 2405-26		N/A
	Glands not used as anchorage	EL 2405-27		N/A
	Labyrinth type anchorages	EL 2405-28		N/A





Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	EL 2405-29	Satisfactory	P
11 (5.2.10.3)	Tests:			P
	- impossible to push cable; unsafe	EL 2405-30	Satisfactory	N/A
	- pull test: 25 times; pull (N)	EL 2405-31	60N	P
	- torque test: torque (Nm)	EL 2405-32	0.15Nm	P
	- displacement ≤ 2 mm	EL 2405-33	Satisfactory	P
	- no movement of conductors	EL 2405-34	Satisfactory	P
	- no damage of cable or cord	EL 2405-35	Complied	P
11 (5.2.11)	External wiring passing into luminaire	EL 2405-36		P
11 (5.2.12)	Looping-in terminals*	EL 2405-37	No looping-in terminal	N/A
11 (5.2.13)	Wire ends not tinned*	EL 2405-38		N/A
	Wire ends tinned: no cold flow*	EL 2405-39		N/A
11 (5.2.14)	Mains plug same protection*	EL 2405-40		N/A
	Class III luminaire plug*	EL 2405-41		N/A
11 (5.2.15)	Colour coded red and black*	EL 2405-42		N/A
11 (5.2.16)	Appliance inlets *	EL 2405-43	No appliance inlet provided	N/A
	Appliance couplers *	EL 2405-44		N/A
11 (5.3)	Internal wiring			P
11 (5.3.1)	Internal wiring of suitable size and type*	EL 2405-45	Complied	P
	Through wiring			N/A
	- not delivered/ mounting instruction	EL 2405-46	No such construction	N/A
	- factory assembled	EL 2405-47		N/A
	- socket outlet loaded (A)	EL 2405-48		N/A
	- temperatures	EL 2405-49		N/A
	Green-yellow for earth only	EL 2405-50		N/A
11 (5.3.1.1)	Internal wiring connected directly to fixed wiring*			N/A
	Cross-sectional area (mm ²)	EL 2405-51		N/A
	Insulation thickness	EL 2405-52		N/A
	Extra insulation added where necessary	EL 2405-53		N/A
11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device*			P
	Adequate cross-sectional area and insulation thickness	EL 2405-54	Complied	P
11 (5.3.1.3)	Double or reinforced insulation for class II*	EL 2405-55	Complied	P
11 (5.3.1.4)	Conductors without insulation*	EL 2405-56		N/A
11 (5.3.1.5)	SELV current-carrying parts*	EL 2405-57		N/A
11 (5.3.1.6)	Insulation thickness other than PVC or rubber*	EL 2405-58	No other insulation	N/A
11 (5.3.2)	Sharp edges etc.*	EL 2405-59	Internal wiring protected from sharp edges etc.	P
	No moving parts of switches etc.*	EL 2405-60	No switches provided	N/A
	Joints, raising/lowering devices*	EL 2405-61	No such construction	N/A
	Telescopic tubes etc.*	EL 2405-62	No such construction	N/A
	No twisting over 360°	EL 2405-63		N/A

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Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
11 (5.3.3)	Insulating bushings:			N/A
	- suitable fixed*	EL 2405-64	No such construction	N/A
	- material in bushings*	EL 2405-65		N/A
	- material not likely to deteriorate*	EL 2405-66		N/A
	- cables with protective sheath*	EL 2405-67		N/A
11 (5.3.4)	Joints and junctions effectively insulated*	EL 2405-68		N/A
11 (5.3.5)	Strain on internal wiring*	EL 2405-69	Complied	P
11 (5.3.6)	Wire carriers*	EL 2405-70	Not adjustable luminaire	N/A
11 (5.3.7)	Wire ends not tinned*	EL 2405-71	Complied	P
	Wire ends tinned: no cold flow*	EL 2405-72		N/A

*-Total number of Requirements to be observed/ inspected : 38
Total No. of applicable Requirement : 11
No. of Requirements for which the sample passed : 11

Total number of tests to be conducted : 35
Total No. of applicable Tests : 18
No. of tests for which the sample passed : 18

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



(Approving Authority)



Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
12 (8)	PROTECTION AGAINST ELECTRIC SHOCK			P
12 (8.2.1)	Live parts not accessible*	EL 2406-00	Complied	P
	Protection shall be maintained after removal of all parts*	EL 2406-01	No such removable parts used	N/A
	Supply conductors held by screw less terminals with push-button*	EL 2406-02	No such construction	N/A
	Tubular filament lamps having a cap/base at each end*	EL 2406-03	LED luminaire	N/A
	Insulating properties of lacquer, enamel, paper and similar materials*	EL 2406-04		N/A
	Luminaires with ignitors	EL 2406-05	No ignitors used	N/A
12 (8.2.2)	Portable luminaire adjusted in most unfavourable position*	EL 2406-06	Fixed General Purpose LED Luminaire	N/A
12 (8.2.3.a)	Class II luminaire:			P
	- basic insulated metal parts not accessible during starter or lamp replacement*	EL 2406-07		N/A
	- glass protective shields not used as supplementary insulation*	EL 2406-08	No glass protective shields used	N/A
12 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed*	EL 2406-09		N/A
12 (8.2.4)	Portable luminaire have protection independent of supporting surface*	EL 2406-10	Fixed General Purpose LED Luminaire	N/A
12 (8.2.5)	Compliance with the standard test finger or relevant probe	EL 2406-11	Complied	P
12 (8.2.6)	Covers reliably secured*	EL 2406-12	Complied	P
12 (8.2.7)	Discharging of capacitors $\geq 0.5 \mu\text{F}$	EL 2406-13		N/A
	Portable plug connected luminaire with capacitor	EL 2406-14		N/A
	Other plug connected luminaire with capacitor	EL 2406-15		N/A
	Discharge device on or within capacitor	EL 2406-16		N/A
	Discharge device mounted separately	EL 2406-17		N/A

*-Total number of Requirements to be observed/ inspected : 11
Total No. of applicable Requirement : 02
No. of Requirements for which the sample passed : 02

Total number of tests to be conducted : 07
Total No. of applicable Tests : 02
No. of tests for which the sample passed : 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



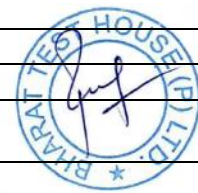
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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
13 (12)	ENDURANCE TEST AND THERMAL TEST			P
13 (12.3)	Endurance test:	EL 2407-00	Complied	P
	- mounting-position..... :		Normal operating position	-
	- test temperature (°C)..... :		55°C	-
	- total duration (h)..... :		240hr	-
	- supply voltage: Un factor; calculated voltage (V)..... :		264Vac	-
	- lamp used..... :		LEDs used (LED module)	-
13 (12.3.2)	After endurance test:	EL 2407-01	See below	P
	- no part unserviceable*		No parts become unserviceable	P
	- plastic ES lampholder not deformed*		No Lamp holder used	N/A
	- luminaire not unsafe*		Complied	P
	- no damage to track system*		No track system	N/A
	- marking legible*		Marking legible after test	P
	- no cracks, deformation etc.*		No cracks & deformation observed	P
13 (12.4)	Thermal test (normal operation)	EL 2407-02	(See Annex 2)	P
13 (12.5)	Thermal test (abnormal operation)	EL 2407-03		N/A
13 (12.6)	Thermal test (failed lamp control gear condition):		No such construction	N/A
13 (12.6.1)	Without Thermal Cut-Outs	EL 2407-04		N/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
13 (12.6.2)	Temperature sensing control	EL 2407-05	No such luminaires	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
13 (12.7)	Thermal test (fault conditions in lamp control gear or electronic devices in plastic luminaires):			N/A
13 (12.7.1)	Luminaire without temperature sensing control	EL 2407-06		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)..... :			—

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Cl. No.	Test / Requirement name	Test Code	Test result/ observation		Verdict
13 (12.7.2)	Luminaire with temperature sensing control	EL 2407-07			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):				—

*-Total number of Requirements to be observed/ inspected : 00
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 08
Total No. of applicable Tests : 03
No. of tests for which the sample passed : 03

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
14 (9)	RESISTANCE TO DUST AND MOISTURE			P
14 (-)	If IP > IP 20 the order of tests as specified in clause 9.2	EL 2408-00	IP20	N/A
14 (9.2)	Tests for ingress of dust, solid objects and moisture:	EL 2408-01	See below	N/A
	- classification according to IP.....:		IP20	N/A
	- mounting position during test.....:		Normal operating Position	—
	- fixing screws tightened; torque (Nm)			—
	- tests according to clauses		Cl. 9.2.0	—
	- electric strength test afterwards		Complied	P
	a) no deposit in dust-proof luminaire	EL 2408-02		N/A
	b) no talcum in dust-tight luminaire	EL 2408-03		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	EL 2408-04		N/A
	d) i) For luminaires without drain holes – no water entry	EL 2408-05		N/A
	d) ii) For luminaires with drain holes – no hazardous water entry	EL 2408-06		N/A
	e) no water in watertight luminaire	EL 2408-07		N/A
	f) no contact with live parts (IP 2X)	EL 2408-08	Complied	P
	g) no entry into enclosure (IP 3X and IP 4X)	EL 2408-09		N/A
	h) no contact with live parts (IP3X and IP4X)	EL 2408-10		N/A
14 (9.3)	Humidity test 48 h	EL 2408-11	No damage found after Humidity test carried out at 28°C and 92%Rh for 48hrs.	P

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 12
 Total No. of applicable Tests : 02
 No. of tests for which the sample passed : 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH			P
15 (10.2.1)	Insulation resistance test	EL 2409-00	Complied	P
	Cable or cord covered by metal foil or replaced by a metal rod of mm \varnothing			—
	Insulation resistance (M Ω).....			—
	SELV	EL 2409-01	Not an SELV luminaire	N/A
	- between current-carrying parts of different polarity.....			N/A
	- between current-carrying parts and mounting surface.....			N/A
	- between current-carrying parts and metal parts of the luminaire.....			N/A
	Other than SELV	EL 2409-02	See below	P
	- between live parts of different polarity		>100M Ω	P
	- between live parts and mounting surface.....			N/A
	- between live parts and metal parts			N/A
	- between live parts of different polarity through action of a switch.....		No switch used	N/A
15 (10.2.2)	Electric strength test	EL 2409-03	Complied	P
	Dummy lamp		No ignitors used	N/A
	Luminaires with ignitors after 24 h test			N/A
	Luminaires with manual ignitors			N/A
	Test voltage (V).....		See below	P
	SELV	EL 2409-04	Not a SELV luminaire	N/A
	- between current-carrying parts of different polarity.....			N/A
	- between current-carrying parts and mounting surface.....			N/A
	- between current-carrying parts and metal parts of the luminaire.....			N/A
	Other than SELV	EL 2409-05	See below	P
	- between live parts of different polarity		Withstood (Test voltage: 3710VAC) (No flashover and breakdown observed)	P
	- between live parts and mounting surface.....			N/A
	- between live parts and metal parts			N/A
	- between live parts of different polarity through action of a switch.....			N/A
15 (10.3)	Touch current or protective conductor current (mA)	EL 2409-06	L to body: 0.025mA (Limit: 0.5mA) N to body: 0.037mA (Limit: 0.5mA)	P



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ULR No. TC1327825000001833F
Test Report No. TR120251215002

IS 10322 (Part 5/Sec 1): 2012

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Date: 15/12/2025

*-Total number of Requirements to be observed/ inspected : 00
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 07
Total No. of applicable Tests : 05
No. of tests for which the sample passed : 05

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.


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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		See below	P
16 (13.2.1)	Ball-pressure test..... :	EL 2410-00	Complied	P
	- part tested; temperature (°C) :		Diffuser Part tested at 75°C Diameter of impression = 0.78mm (Limit: 2.0mm)	P
16 (13.3.1)	Needle-flame test (10 s)..... :	EL 2410-01	Certified LED PCB used	N/A
	- part tested :		As above	N/A
16 (13.3.2)	Glow-wire test (650°C) :	EL 2410-02	Complied	P
	- part tested :		Diffuser tested at 650°C. No flame occurred	P
16 (13.4.1)	Tracking test :	EL 2410-03	Certified PCB Used	N/A
	- part tested :		As above	N/A

*-Total number of Requirements to be observed/ inspected : 00
 Total No. of applicable Requirement : 00
 No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 04
 Total No. of applicable Tests : 02
 No. of tests for which the sample passed : 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.



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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
17	PHOTOMETRIC TESTS		Photometric test not applicable on Fixed General Purpose LED luminaire as photometric performance shall be determined by the test method given in IS 13383 (Part 1)	N/A
	The photometric performance determined by the test method given in IS 13383 (Part 1)	EL 2411-00		
	The general guidance regarding the photometric data to be provided by the manufacturers of luminaires is given in Annex A	EL 2411-01		

*-Total number of Requirements to be observed/ inspected : 00
Total No. of applicable Requirement : 00
No. of Requirements for which the sample passed : N/A

Total number of tests to be conducted : 02
Total No. of applicable Tests : 00
No. of tests for which the sample passed : N/A

Certificate: The above tests/requirements are not applicable.



(Approving Authority)



ANNEX 1	TABLE: Critical Components information						P
Object / part No.	Code	Manufacturer/ trademark	Type/model	Technical data	Standards	Mark(s) of conformity	
Diffuser	A	LG CHEM LTD	LUMIPLAS LD7000F(#)	V-0, 80°C	UL 94 (Equivalent to IEC 60695-11- 10)	UL E67171	
Enclosure	A	COVESTRO DEUTSCHLAND AG [PC RESINS]	RW2407 +(z) (f1)	V-2, 125°C	UL 94 (Equivalent to IEC 60695-11- 10)	UL E41613	
LED	A	EVERLIGHT ELECTRONICS CO. LTD.	67-21S 6500K	3Vdc, 60mA	IEC/EN 62471: 2006	Test Report No. – OC-2017- 50030	
LED PCB	A	EPITOME COMPONENTS LTD	EP-1	V-0, 130°C	UL 796 (No equivalent IEC)	UL E212855	
External wire	A	VICTOR PUSHIN CORDS PVT LTD	PVC Insulated	1100V, 2x0.75mm ²	IS 694: 2010	CML/No. 8663997	
Internal Wire	A	XINYA ELECTRONIC CO LTD	2408	AWG-24, 60°C, 300Vac	UL 758 (No equivalent IEC standard)	UL E170689	
Fuse (F1)	A	NANJING SHAGON ELECTRONICS CO LTD	RXF	1W, 22Ω	UL 1412 (Equivalent to IEC 60115-2, 60115-4)	UL E304814	
Fuse (F2)	A	WATTS ELECTRONICS PRIVATE LIMITED	WWFHS1	1W, 22Ω	UL 1412 (Equivalent to IEC 60115-2, 60115-4)	UL E498797	
Mov 1	A	BESTBRIGHT ELECTRONICS CO LTD	471KD07	300Vac	UL 1449 (Equivalent to IEC 61051-1, IEC 61051-2)	UL E472693	
Mov 2	A	CENTRA SCIENCE CORP	CNR-10D471K	300V	IEC/EN 61051- 1	VDE 40008220	
Driver PCB	A	EPITOME COMPONENTS LTD	EP-1	V-0, 130°C	UL 796 (No Equivalent to IEC standard)	UL E212855	
Inductor	C	URSA Glow Lighting Industries Pvt. Ltd	059	130°C	IS 10322 (Part 5/Sec 1): 2012	Tested within appliance	
Magnetic wire	A	HUIZHOU CITY DENGGAODA ELECTROTECH CO LTD	2UEWF	155°C	UL 1446 (Equivalent to IEC 60851-3, IEC 60851-5)	UL E253843	

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Bobbin	A	Sumitomo Bakelite Co., Ltd.	PM-9820	V-0, RTI: 150	UL 94 (Equivalent to IEC 60695-11-10)	UL E41429
Insulating Tape	A	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR3738A(d)	V-0, RTI: 110	UL 94 (Equivalent to IEC 60695-11-10)	UL E199019

Supplementary information:

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 authorized by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component





ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12				P	
	Type reference	Fixed General Purpose LED Luminaire			—	
	Lamp used.....	LEDs used			—	
	Lamp control gear used	Integral Controlgear Used			—	
	Mounting position of luminaire.....	Normal Operating Position			—	
	Supply wattage (W)	35.16W			—	
	Supply current (A).....	0.15A			—	
	Calculated power factor.....	0.95			—	
	Table: measured temperatures corrected for ta = 45°C:				P	
	- abnormal operating mode	N/A			—	
	- test 1: rated voltage	240VAC			—	
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:	254.4VAC			—	
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage.....	N/A			—	
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage ..:	N/A			—	
Temperature measurements, (°C)						
Part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	Limit	test 4	Limit
Diffuser	38.5°C	44.8°C	-	80°C	-	-
Internal Wire	34.8°C	36.2°C	-	60°C	-	-
PCB	45.1°C	46.1°C	-	130°C	-	-
Supplementary information: Nil						



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ANNEX 3	Screw terminals (part of the luminaire)	N/A
(14)	SCREW TERMINALS	N/A
(14.2)	Type of terminal..... : Rated current (A)..... :	No screw terminal used —
(14.3.2.1)	One or more conductors	N/A
(14.3.2.2)	Special preparation	N/A
(14.3.2.3)	Terminal size 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)..... : External wiring No soft metal	N/A N/A N/A
(14.4.5)	Corrosion	N/A
(14.4.6)	Nominal diameter of thread (mm)..... : Torque (Nm)..... :	N/A N/A
(14.4.7)	Between metal surfaces Lug terminal Mantle terminal	N/A N/A N/A
(14.4.8)	Pull test; pull (N)..... : Without undue damage	N/A 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: No screwless terminals used	—
	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
	Pull test pin or tab terminals (4 samples); pull (N):	N/A
(15.9)	Contact resistance test	N/A
	Voltage drop (mV) after 1 h	N/A



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Terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
Voltage drop of two inseparable joints										N/A
Voltage drop after 10th alt. 25th cycle										N/A
Max. allowed voltage drop (mV)										—
Terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
Voltage drop after 50th alt. 100th cycle										N/A
Max. allowed voltage drop (mV)										—
Terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
Continued ageing: voltage drop after 10th alt. 25th cycle										N/A
Max. allowed voltage drop (mV)										—
Terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
Continued ageing: voltage drop after 50th alt. 100th cycle										N/A
Max. allowed voltage drop (mV)										—
Terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A



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Attachment – 2	PHOTOGRAPHS
	LUMINAIRE VIEW
	LUMINAIRE INTERNAL VIEW
	LED VIEW
PCB FRONT VIEW	PCB REAR VIEW



.....End of Document.....

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