

.....
DOC No. : F-3, Sector - 6, Noida, Gautam Buddha Nagar, Uttar
Telephone : +91 9871062220 Pradesh, India - 201301
FAX : -
E-Mail : testing@ursindia.com
BO Code : NA

**Test REPORT AS PER : IS 10322 : PART 5 : SEC 3
(2012)****QR Code/Barcode : 156407CRS****REPORT NO : SC23EPI09471_1**

DATE : 11 Aug, 2023

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address : ADVANCE CIRCUIT TECHNOLOGY
253,UDYOG KENDRA,EXTN-1 GREATER NOIDA
GAUTAM BUDDHA NAGAR , PIN 201308 UTTAR
PRADESH, NA, UTTAR PRADESH, India - 201308

b) Nature of sample : -

c) Grade/Variety/Type/Class Size etc : NA

d) Declare values, if any : -

e) Batch No. & Date of Manufacture : /

f) Quantity : 1

g) Date of Receipt : 22 Jul, 2023

h) BIS Seal : Verified by Sample Cell

i) IO's Signature : Verified by Sample Cell

j) Any other Information / Expiry Date, If any : /

k) Date of Commencement of Testing : 24 Jul, 2023

l) Date of Completion of Testing : 11 Aug, 2023

m) Section Code : 23EA708N

n) Section Report No. : 23EA708N_1

o) Report Type : New

p) Reference Report No. :

q) Remarks : OK

MONIKA VERMA
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 11 Aug, 2023 14:39 PM

1. URS PRODUCTS AND TESTING PVT LTD

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PART B. SUPPLEMENTARY INFORMATION

- | | |
|--|----------------|
| 1. Reference to sampling procedure, wherever applicable. | Not Applicable |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any. | Not Applicable |
| 3. NABL Report required ? | Yes |

Himanshu Sharma
OIC Electrical
(Authorized Signatory)
Authorized on: 11 Aug, 2023 14:37 PM

This is a Computer Generated Report.

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	17.0	Photometric Test	-	-	-	-	Satisfactory (Refer to attached report)
2	16.0	Resistance to Heat , fire and tracking	-	-	-	-	Not Applicable (Refer to attached report)
3	15.0	Insulation Resistance and Electric Strength	-	-	-	-	Satisfactory (Refer to attached report)
4	14.0	Resistance to Dust & Moisture	-	-	-	-	Satisfactory (Refer to attached report)
5	13.0	Endurance Tests and Thermal Tests	-	-	-	-	Satisfactory (Refer to attached report)
6	12.0	Protection against electric shock	-	-	-	-	Satisfactory (Refer to attached report)
7	11.0	External & Internal Wiring	-	-	-	-	Satisfactory (Refer to attached report)
8	10.0	Terminals	-	-	-	-	Satisfactory (Refer to attached report)
9	9.0	Provision for earthing	-	-	-	-	Satisfactory (Refer to attached report)
10	8.0	Creepage Distance and Clearances	-	-	-	-	Satisfactory (Refer to attached report)
11	7.0	Construction	-	-	-	-	Satisfactory (Refer to attached report)
12	6.0	Marking	-	-	-	-	Satisfactory (Refer to attached report)
13	5	Classification of Luminaires'	-	-	-	-	Satisfactory (Refer to attached report)
14	4	General Test Requirements	-	-	-	-	Satisfactory (Refer to attached report)

Himanshu Sharma
OIC Electrical
(Authorized Signatory)
Authorized on: 11 Aug, 2023 14:37 PM

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PART D. REMARKS

OK

Himanshu Sharma
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(Authorized Signatory)
Authorized on: 11 Aug, 2023 14:37 PM

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SUMMARY OF TEST REPORT

TEST REPORT
NO:SC23EPI09471_1

DATED:11/08/2023

(Number of pages in test report: Page no. 01 to 51

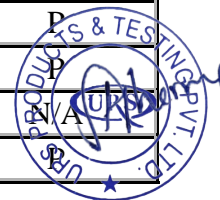
URS Ref. : URS/LAB/01/RID
/23-24/2244

TEST FORMAT AS PER IS 10322 (Part 5/Sec 3): 2012+A1:2015

1. Name of Manufacturer:ADVANCE CIRCUIT TECHNOLOGY
2. Product:LED Luminaires for Road and Street Lighting
Lead Model:300W
3. Model(s): Series Models:290W, 280W, 270W, 250W, 245W, 240W, 230W, 220W, 215W, 200W, 190W, 180W, 170W, 150W, 120W, 100W, 90W, 80W, 50W
4. Model differences provided (if applicable):Yes
5. Model differences verified as per MEITY Guidelines for series formulation:Yes
6. Test Results:See below

PART A: GENERAL

S No.	TEST REQUIREMENT	CLAUSE	VERDICT
1.	Marking	6(3)	P
2.	Construction	7(4)	P
3.	Creepage Distances And Clearances	8(11)	P
4.	Provision For Earthing	9(7)	P
5.	Terminals	10(14)	P
6.	External And Internal Wiring	11(5)	P
7.	Protection Against Electrical Shock	12(8)	P
8.	Endurance Tests And Thermal Tests	13(12)	P
9.	Resistance To Dust And Moisture	14(9)	P
10.	Insulation Resistance And Electric Strength	15(10)	P
11.	Resistance to Heat, Fire And Tracking	16(13)	P
12.	Photometric Tests	17	P





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General Information:

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 component.

CONCLUSION:

- 1.) Sample meets all relevant requirements of IS 10322 (Part 5/ Sec 3):2012+A1:2015 Yes
- 2.) Sample fails to meet the following test requirements: N/A
- 3) I hereby, undertake that the verdict stated in the test report for all the tests matches with the test results.

(Signature of Authorized person with Stamp)





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Report No- SC23EPI09471_1	IS10322 (Part 5/Sec 3): 2012+A1:2015	Page 1 of 51
Dated : 11/08/2023		

Manufacturer	ADVANCE CIRCUIT TECHNOLOGY 253,UDYOG KENDRA,EXTN-1 GREATER NOIDAGAUTAM BUDDHA NAGAR , PIN 201308 UTTAR PRADESH, UTTAR PRADESH, 201308		
Test item:	LED Luminaires for Road and Street Lighting		
Identification	Lead Model:300W Series Models:290W, 280W, 270W, 250W, 245W, 240W, 230W, 220W, 215W, 200W, 190W, 180W, 170W, 150W, 120W, 100W, 90W, 80W, 50W	Serial No.:	Nil
Receipt No.:	URS/LAB/ELRSL/23-24/4091 / 23EA708N	Date of receipt:	24/07/2023
Testing laboratory and its address:	URS PRODUCTS AND TESTING PRIVATE LIMITED (F - 3, Sector 6, Noida - 201301, India) and (A-29, Sector 5, Noida-201301, India)		
Test specification:	IS10322 (Part 5/Sec 3): 2012+A1:2015		
Test Result:	The test item passed the test specification(s)		
Other Aspects:	This report consists of 51 pages including one attachment. Equipment under test(EUT) is LED Luminaires for Road and Street lighting, Lead Model:" 300W " has been tested as per IS 10322 (Part5/Sec 3): 2012+A1:2015 complies with all the applicable Parameters. - Compliance statement in this report has been made considering decision rule as inherent in its test standard and the latest version of ILAC G-8.		

Tested by:	Approved by / Authorized Signatory:	Issued by:
Ram Narayan Patel , Analyst	Himanshu Sharma , Manager Technical	Ranjan Kumar , Asst.Manager
Date:11/08/2023	Date:11/08/2023	Date:11/08/2023



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TC-6468

Report No- SC23EPI09471_1

IS10322 (Part 5/Sec 3): 2012+A1:2015

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Dated : 11/08/2023





TEST REPORT
IS10322 (Part 5/Sec 3): 2012+A1:2015

Luminaires

Part 5: Particular requirements

Section 3: : Luminaires for road and street lighting

Report Number. :	SC23EPI09471_1
Date of issue :	11/08/2023
Total number of pages	51
Applicant's name :	ADVANCE CIRCUIT TECHNOLOGY 253,UDYOG KENDRA,EXTN-1 GREATER NOIDAGAUTAM
Address	BUDDHA NAGAR , PIN 201308 UTTAR PRADESH, UTTAR PRADESH, 201308
Test specification:	
Standard	IS10322 (Part 5/Sec 3): 2012+A1:2015
Test procedure	Compliance Report
Non-standard test method	N/A
Test Report Form No:	BIS_LUM/LRSL_IS10322-5-3_V1.0
Test Report Form(s) Originator	Bureau of Indian Standards
Master TRF	23/11/2017
Test item description:	LED Luminaires for Road and Street Lighting
Trade Mark	
Manufacturer	ADVANCE CIRCUIT TECHNOLOGY
Model/Type reference	Lead Model:300W Series Models:290W, 280W, 270W, 250W, 245W, 240W, 230W, 220W, 215W, 200W, 190W, 180W, 170W, 150W, 120W, 100W, 90W, 80W, 50W
Ratings	220-240Vac, 300W, 1.31A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I

Tested by:	Approved by / Authorized Signatory:	Issued by:
	 	
Ram Narayan Patel , Analyst Date:11/08/2023	Himanshu Sharma , Manager Technical Date:11/08/2023	Ranjan Kumar , Asst.Manager Date:11/08/2023



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 Dated : 11/08/2023 IS10322 (Part 5/Sec 3): 2012+A1:2015

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	28	02/11	02/11	14
EL 2401	Construction	Construction	127	18/11	18/11	16
EL 2402	Creepage Distances And Clearances	Creepage Distances And Clearances	10	04/00	04/00	24
EL 2403	Provision For Earthing	Provision For Earthing	19	04/10	04/10	25
EL 2404	Terminals	Screw Terminals	02	01/00	01/00	27
EL 2404	Terminals	Screw Less Terminals	02	00/00	00/00	28
EL 2405	External And Internal Wiring	External And Internal Wiring	73	16/09	16/09	29
EL 2406	Protection Against Electric Shock	Protection Against Electric Shock	18	01/03	01/03	33
EL 2407	Endurance Tests And Thermal Tests	Endurance Tests And Thermal Tests	08	03/00	03/00	35
EL 2408	Resistance To Dust And Moisture	Resistance To Dust And Moisture	12	06/00	06/00	38
EL 2409	Insulation Resistance And Electric Strength	Insulation Resistance And Electric Strength	07	05/00	05/00	40
EL 2410	Resistance to Heat, Fire And Tracking	Resistance to Heat, Fire And Tracking	04	00/00	00/00	42
EL 2411	Photometric Tests	Photometric Tests	01	01/00	01/00	43

Certificate: It is certified that the above tests were performed and found to be Table – List of Attachments in the requirement tested.





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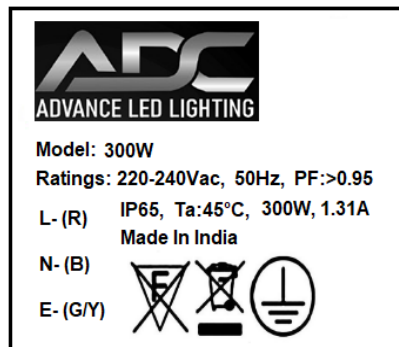
Dated : 11/08/2023

Copy of marking plate:

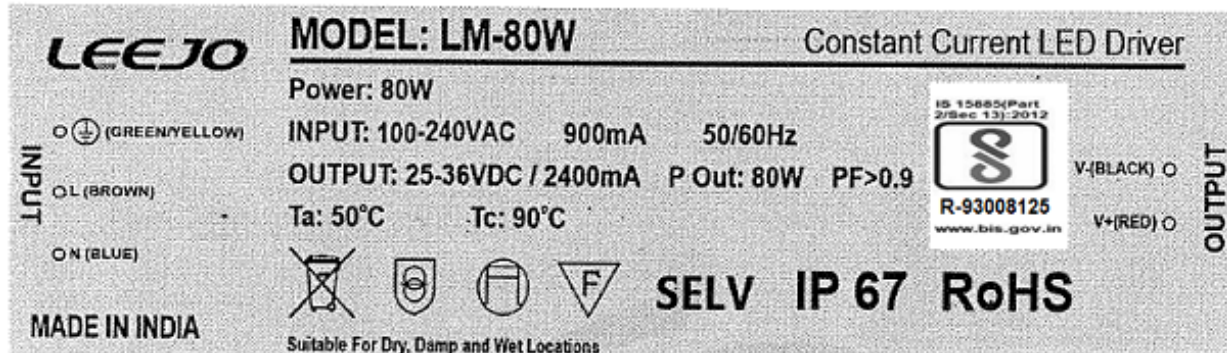
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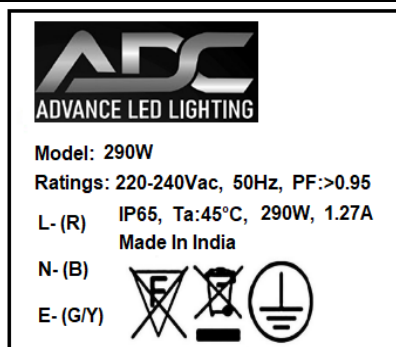
Trade mark



Marking Plate for lead model



Driver marking plate for lead model



Marking plate for series model





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Dated : 11/08/2023

ADC
ADVANCE LED LIGHTING

Model: 280W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 280W, 1.22A
Made In India




N- (B)   




E- (G/Y)   

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 270W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 270W, 1.18A
Made In India




N- (B)   




E- (G/Y)   

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 250W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 250W, 1.09A
Made In India




N- (B)   




E- (G/Y)   

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 245W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 245W, 1.07A
Made In India

N- (B)   

E- (G/Y)   

Marking plate for series model





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Dated : 11/08/2023




Model: 240W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 240W, 1.05A
Made In India
N- (B)   
E- (G/Y)   







Marking plate for series model




Model: 230W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 230W, 1.01A
Made In India
N- (B)   
E- (G/Y)   







Marking plate for series model



Model: 220W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 220W, 0.96A
Made In India
N- (B)   
E- (G/Y)   

Marking plate for series model



Model: 215W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 215W, 0.94A
Made In India
N- (B)   
E- (G/Y)   

Marking plate for series model





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Dated : 11/08/2023

ADC
ADVANCE LED LIGHTING

Model: 200W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 200W, 0.87A
Made In India
N- (B)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 190W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 190W, 0.83A
Made In India
N- (B)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 180W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 180W, 0.78A
Made In India
N- (B)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 170W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 170W, 0.74A
Made In India
N- (B)

Marking plate for series model





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ADC
ADVANCE LED LIGHTING

Model: 150W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 150W, 0.65A
Made In India
N- (B)
E- (G/Y)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 120W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 120W, 0.52A
Made In India
N- (B)
E- (G/Y)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 100W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 100W, 0.43A
Made In India
N- (B)
E- (G/Y)

Marking plate for series model

ADC
ADVANCE LED LIGHTING

Model: 90W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 90W, 0.39A
Made In India
N- (B)
E- (G/Y)

Marking plate for series model





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Model: 80W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 80W, 0.35A
Made In India
N- (B)
E- (G/Y)



Marking plate for series model



Model: 50W
Ratings: 220-240Vac, 50Hz, PF:>0.95
L- (R) IP65, Ta:45°C, 50W, 0.21A
Made In India
N- (B)
E- (G/Y)



Marking plate for series model





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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	PHOTOMETRY	50
Attachment – 2	Photo document	50-51

General remarks:

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.
 Appendix for component certificates are retained for any future reference as per UL's document Retention policy.
 UL has verified that the LED Luminaires for road and street lighting and its variations comply with the series definition as per guidelines provided by MEITY

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: 24/07/2023
 Date(s) of performance of tests: 24/07/2023 to 11/08/2023

Laboratory conditions

Ambient Temperature: (15-35) °C
 Ambient Humidity: (45-75)%RH





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Dated : 11/08/2023

General product information:

Equipment under test (EUT) is LED Luminaires for Road and Street lighting, Lead Model: " 300W " has been tested as per IS 10322 (Part 5/Sec 3): 2012+A1:2015 Equipment under test(EUT) details mention below:

Equipment Name: LED Luminaires for Road and Street lighting

NOTE: PHOTOMETRY TEST PERFORM AT URS PRODUCTS AND TESTING PVT LTD.

A-29, Sector-5 Noida- 201301



Brand Name: ADVANCE LED LIGHTING

Lead Model:300W

Series Model:290W, 280W, 270W, 250W, 245W, 240W, 230W, 220W, 215W, 200W, 190W, 180W, 170W, 150W, 120W, 100W, 90W, 80W, 50W

Electrical Rating:220-240Vac, 300W, 1.31A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I

(See Copy of marking label page no.4-9)

Note: Rated Luminous Flux:28500lm, Peak Intensity:6500cd,Efficacy:95lm/W, Beam Angel:110 Deg.

2) Product description

Model Tested:

Serial Number	Lead Model	Specifications
1	300W	220-240Vac, 300W, 1.31A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I

Representative Models:

Serial Number	Series Models	Specifications	Variation From Family Representative
1	290W	220-240Vac, 290W, 1.27A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
2	280W	220-240Vac, 280W, 1.22A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
3	270W	220-240Vac, 270W, 1.18A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
4	250W	220-240Vac, 250W, 1.09A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
5	245W	220-240Vac, 245W, 1.07A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
6	240W	220-240Vac, 240W, 1.05A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
7	230W	220-240Vac, 230W, 1.01A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
8	220W	220-240Vac, 220W, 0.96A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
9	215W	220-240Vac, 215W, 0.94A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
10	200W	220-240Vac, 200W, 0.87A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
11	190W	220-240Vac, 190W, 0.83A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
12	180W	220-240Vac, 180W, 0.78A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
13	170W	220-240Vac, 170W, 0.74A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
14	150W	220-240Vac, 150W, 0.65A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power





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15	120W	220-240Vac, 120W, 0.52A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
16	100W	220-240Vac, 100W, 0.43A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
17	90W	220-240Vac, 90W, 0.39A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
18	80W	220-240Vac, 80W, 0.35A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power
18	50W	220-240Vac, 50W, 0.21A, 50Hz, PF:>0.95, Ta:45°C, IP65, Class-I	Model Designation, Input current, Input Power

Representative Models:

300W (Worst case)

Technical Consideration:

- 1 Same class of construction of luminaire
- 2 Same AC input voltage of registered electronic control gear.
- 3 Same material for enclosure
- 4 Same ambient temperature rating
- 5 Same IP category

Report Summary

All applicable tests according to the referenced standard(s) have been carried out.
 Supply connections: AC power supply.





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Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
4 (1)	GENERAL REQUIREMENTS			P
4 (1.1)	Information for luminaire design considered		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	--
4 (1.3)	More sections applicable		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	--

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
5 (2)	CLASSIFICATION OF LUMINAIRES			P
5 (2.2)	Type of protection		Class I	--
5 (2.3)	Degree of protection		IP65	--
5 (2.4)	Luminaire suitable for mounting on normally flammable surfaces :		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	--
	Luminaire suitable for mounting on noncombustible materials		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	--
5 (2.5)	Luminaire for normal use :		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	--
	Luminaire for rough service:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	--





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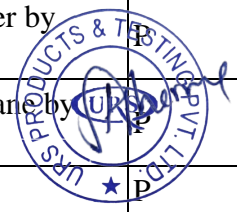
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
6(3)	MARKING		See Below	P
6(3.2)	Mandatory markings*	EL 2400-00	In compliance	P
	Position of the marking*	EL 2400-01	On the luminaire	P
	Format of symbols/text*	EL 2400-02	Complied	P
6(3.3)	Additional information*	EL 2400-03	See below	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	Not Marked	N/A
6 (3.3.4)	Symbol or warning notice*	EL 2400-08	Marked	P
6 (3.3.5)	Wiring diagram*	EL 2400-09	Complied	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	PF: >0.95 & Supply Current: 1.31A	P
6(3.3.10)	Suitability for use indoors*	EL 2400-14	Outdoor luminaire	N/A
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	Not a Clip-mounted luminaire	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	AC marked	P
6(3.3.15)	Rated current of socket outlet*	EL 2400-19	No socket outlet used	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 Y attachment	P
6(3.3.18)	Non-ordinary luminaires with PVC cable*	EL 2400-22	No such construction used	N/A
6 (3.4)	Test with water	EL 2400-23	Compliance checked by water by rubbing 15s	P
	Test with hexane	EL 2400-24	Compliance checked by hexane by rubbing 15s	P
	Legible after test*	EL 2400-25	Marking is legible	P
	Label attached*	EL 2400-26	Not easily removable and no curling observed	P





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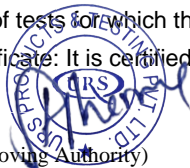
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6(3.5.1)	Standard Mark is governed by the provisions of the Bureau of Indian Standards Act,1986*	EL 2400-27	No such standard mark used	N/A
----------	---	------------	----------------------------	-----

*- Total number of Requirements to be observed / inspected =16
 Total No. of applicable Requirement =11
 No. of Requirements for which the sample passed =11
 Total number of tests to be conducted =02
 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.



(Approving Authority)





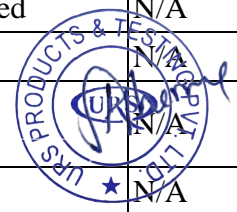
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
7(4)	CONSTRUCTION		See below	P
7 (4.2)	Components replaceable without difficulty*	EL 2401-00	No such construction	N/A
7 (4.3)	Wire ways smooth and free from sharp edges*	EL 2401-01	Wire ways are smooth and free from sharp edges, burrs, flashes which might cause abrasion of the insulation of wiring	P
7 (4.4)	Lamp holders		No Lamp holder used	N/A
7 (4.4.1)	Integral lamp holder*	EL 2401-02	As above	N/A
7 (4.4.2)	Wiring connection*	EL 2401-03	As above	N/A
7 (4.4.3)	Lamp holder for end-to-end mounting*	EL 2401-04	As above	N/A
7 (4.4.4)	Positioning		As above	N/A
	- pressure test (N)	EL 2401-05	As above	N/A
	After test the lamp holder comply with relevant standard sheets and show no damage	EL 2401-06	As above	N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	EL 2401-07	As above	N/A
	- bending test (N)	EL 2401-08	As above	N/A
	After test the lampholder have not moved from its position and show no permanent deformation	EL 2401-09	As above	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	As above	N/A
7 (4.4.7)	Parts in rough service luminaires resistant to tracking	EL 2401-12	No such lampholder and plug used	N/A
7 (4.4.8)	Lamp connectors*	EL 2401-13	No Lamp connector used	N/A
7 (4.5)	Starter holders		No starter holder used	N/A
	Starter holder in luminaires other than class II*	EL 2401-14	As above	N/A
	Starter holder class II construction*	EL 2401-15	As above	N/A
	Starter can be touched with the standard test finger in class II luminaires*	EL 2401-16	As above	N/A





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7 (4.6)	Terminal blocks		See below	P
	Tails	EL 2401-17	Certified Terminal block used	P
	Unsecured blocks	EL 2401-18	No such construction used	N/A
7 (4.7)	Terminals and supply connections		Complied	P
7 (4.7.1)	Contact to metal parts*	EL 2401-19	Complied	P
7 (4.7.2)	Test 8 mm live conductor	EL 2401-20	Complied	P
	Test 8 mm earth conductor	EL 2401-21	Complied	P
7 (4.7.3)	Terminals for supply conductors	EL 2401-22	Complied	P
7 (4.7.4)	Terminals other than supply connection*	EL 2401-23	No such construction used	N/A
7 (4.7.5)	Heat-resistant wiring/sleeves*	EL 2401-24	No such construction used	N/A
7 (4.7.6)	Multi-pole plug*	EL 2401-25	No such plug used	N/A
7(4.8)	Switches		No switches used	N/A
	- adequate rating*	EL 2401-26	As above	N/A
	- adequate fixing*	EL 2401-27	As above	N/A
	- polarized supply*	EL 2401-28	As above	N/A
7(4.9)	Insulating lining and sleeves		No such construction used	N/A
7 (4.9.1)	Retainment*	EL 2401-29	As above	N/A
	Method of fixing	EL 2401-30	As above	N/A
7 (4.9.2)	Insulated linings and sleeves:		No such construction	N/A
	Resistant to a temperature > 20 °C to the wire temperature or	EL 2401-31	As above	N/A
	a) & c) Insulation resistance and electric strength	EL 2401-32	As above	N/A
	b) Ageing test. Temperature (°C)	EL 2401-33	As above	N/A
7 (4.10)	Double or reinforced insulation		Class I Luminaire	N/A
7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation*	EL 2401-34	As above	N/A
	Safe installation fixed luminaires*	EL 2401-35	As above	N/A
	Capacitors and switches*	EL 2401-36	As above	N/A
	Interference suppression capacitors according to ISQC 302400*	EL 2401-37	As above	N/A
7 (4.10.2)	Assembly gaps:		No such construction used	N/A
	- not coincidental*	EL 2401-38	As above	N/A





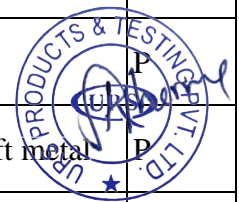
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	- no straight access with test probe	EL 2401-39	As above	N/A
7 (4.10.3)	Retainment of insulation:		Class I Luminaire	N/A
	- fixed*	EL 2401-40	As above	N/A
	- unable to be replaced; luminaire inoperative*	EL 2401-41	As above	N/A
	- sleeves retained in position*	EL 2401-42	As above	N/A
	- tube of insulating material*	EL 2401-43	As above	N/A
7(4.11)	Electrical connections and current-carrying parts		See below	P
7 (4.11.1)	Contact pressure*	EL 2401-44	Contact pressure is not transmitted through insulating material	P
7 (4.11.2)	Screws:		See below	P
	- self-tapping screws*	EL 2401-45	No self-tapping screws used for connection of current carrying parts	P
	- thread-cutting screws*	EL 2401-46	No thread-cutting screws used for interconnection of current carrying parts of metal	P
7 (4.11.3)	Screw locking:		See below	N/A
	- spring washer*	EL 2401-47	No such spring washer used	N/A
	- rivets*	EL 2401-48	Rivets not used	N/A
7 (4.11.4)	Material of current-carrying parts*	EL 2401-49	In compliance	P
7 (4.11.5)	No contact to wood or mounting surface*	EL 2401-50	In compliance	P
7 (4.11.6)	Electro-mechanical contact systems	EL 2401-51	No such construction used	N/A
7(4.12)	Screws and connections (mechanical) and glands		See below	P
7 (4.12.1)	Screws not made of soft metal*	N/A	Screws not made of soft metal	P
	Screws of insulating material*	EL 2401-53	Screws not made of insulating material	P





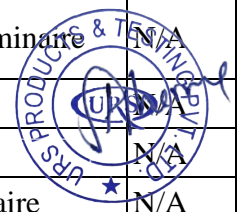
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	Torque test: torque (Nm); part	EL 2401-54	Enclosure fixed screw: 3.80mm, 0.80Nm	P
	Torque test: torque (Nm); part	EL 2401-55	As above	N/A
	Torque test: torque (Nm); part	EL 2401-56	As above	N/A
7 (4.12.2)	Screws with diameter < 3 mm screwed into metal*	EL 2401-57	Screws with diameter > 3 mm used	N/A
7 (4.12.4)	Locked connections:		No such construction used	N/A
	- fixed arms; torque (N m)	EL 2401-58	No such construction used	N/A
	lampholder; torque (N m)	EL 2401-59	No such lamp holder used	N/A
	- push-button switches; torque 0,8 Nm	EL 2401-60	No push button switches used	N/A
7 (4.12.5)	Screwed glands; force (Nm)	EL 2401-61	15N applied, No damage observed	P
7(4.13)	Mechanical strength		See Below	P
7 (4.13.1)	Impact tests:	EL 2401-61	See Below	P
	- Fragile parts; energy (N m)	EL 2401-62	0.5Nm applied, No damage observed	P
	- Other parts; energy (N m)	EL 2401-63	0.7Nm applied, No damage observed	P
	1) live parts	EL 2401-64	In compliance	P
	2) linings	EL 2401-65	No such insulation linings and barriers used	N/A
	3) protection	EL 2401-66	In compliance	P
	4) covers	EL 2401-67	In compliance	P
7 (4.13.3)	Straight test finger	EL 2401-68	Straight unjointed test finger applied with 30N force, no hazard occurred	P
7 (4.13.4)	Rough service luminaires		Not a rough service luminaire	N/A
	- IP54 or higher	EL 2401-69	As above	N/A
	a) fixed	EL 2401-70	As above	N/A
	b) hand-held	EL 2401-71	Not a hand-held luminaire	N/A
	c) delivered with a stand	EL 2401-72	Not delivered with a stand	N/A



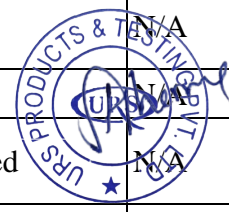


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	d) for temporary installations and suitable for mounting on a stand	EL 2401-73	As above	N/A
7 (4.13.6)	Tumbling barrel	EL 2401-74	No such construction used	N/A
7(4.14)	Suspensions, fixings and means of adjusting		Not a suspended luminaires	N/A
7 (4.14.1)	Mechanical load:		Not a suspension luminaires	N/A
	A) four times the weight	EL 2401-75	Not a suspension luminaires	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	No Such Construction	N/A
	D) load track-mounted luminaires	EL 2401-78	Not a track mounted luminaire	N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	EL 2401-79	Not a Clip mounted luminaire	N/A
	Metal rod. diameter (mm)	EL 2401-80	As above	N/A
7 (4.14.2)	Load to flexible cables		No such construction	N/A
	Mass (kg)	EL 2401-81	As above	N/A
	Stress in conductors (N/mm ²)	EL 2401-82	As above	N/A
	Mass (kg) of semi-luminaire	EL 2401-83	As above	N/A
	Bending moment (Nm) of semi-luminaire	EL 2401-84	As above	N/A
7 (4.14.3)	Adjusting devices:		No such construction	N/A
	- flexing test; number of cycles	EL 2401-85	As above	N/A
	- Strands broken	EL 2401-86	As above	N/A
	- electric strength test afterwards	EL 2401-87	As above	N/A
7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors*	EL 2401-88	Telescopic tube not used	N/A
7 (4.14.5)	Guide pulleys*	EL 2401-89	Guide pulleys not used	N/A





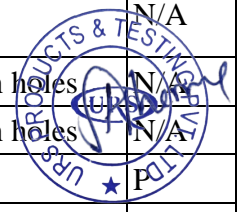
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7 (4.14.6)	Strain on socket-outlets*	EL 2401-90	Socket outlet not used	N/A
7(4.15)	Flammable materials		See below	N/A
	- Glow-wire test 650 ° C	EL 2401-91	No such construction used	N/A
	- spacing ≥30 mm	EL 2401-92	No such construction used	N/A
	- screen withstanding test of 13.3.1	EL 2401-93	No such construction used	N/A
	- screen dimensions	EL 2401-94	As above	N/A
	- no fiercely burning material	EL 2401-95	No such construction used	N/A
	- thermal protection	EL 2401-96	As above	N/A
	- electronic circuits exempted	EL 2401-97	As above	N/A
	Luminaires made of thermoplastic material with lamp control gear		As above	N/A
	a) construction*	EL 2401-98	As above	N/A
	b) temperature sensing control	EL 2401-99	As above	N/A
	c) surface temperature	EL 2401-100	As above	N/A
7(4.16)	Luminaires marked with symbol		See below	N/A
	No lamp control gear	EL 2401-101	Electronic control gear used	N/A
7 (4.16.1)	Lamp control gear spacing		As above	N/A
	- spacing 10 mm	EL 2401-102	As above	N/A
	- spacing 35 mm	EL 2401-103	As above	N/A
7 (4.16.2)	Thermal protection:		No such construction used	N/A
	- in lamp control gear	EL 2401-104	As above	N/A
	- external	EL 2401-105	As above	N/A
	- fixed position	EL 2401-106	As above	N/A
	- temperature marked lamp control gear	EL 2401-107	As above	N/A
7 (4.16.3)	Design to satisfy the test of 12.6	EL 2401-108	As above	N/A
7(4.17)	Drain holes		No provisions for drain holes	N/A
	Clearance at least 5 mm	EL 2401-109	No provisions for drain holes	N/A
7(4.18)	Resistance to corrosion		In compliance	
7 (4.18.1)	- rust-resistance	EL 2401-110	In compliance	P





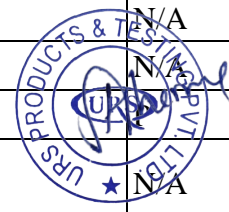
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7 (4.18.2)	- season cracking in copper	EL 2401-111	No such construction used	N/A
7 (4.18.3)	- corrosion of aluminium	EL 2401-112	In compliance	P
7 (4.19)	Igniters compatible with ballast*	EL 2401-113	No igniters used	N/A
7 (4.20)	Rough service vibration	EL 2401-114	Not a rough service luminaire	N/A
7(4.21)	Protective shield		LED luminaire, no shield provided	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	As above	N/A
7 (4.21.3)	No direct path	EL 2401-117	As above	N/A
7 (4.22)	Attachments to lamps not cause overheating or damage*	EL 2401-120	As above	N/A
7 (4.23)	Semi-luminaires comply Class II*	EL 2401-121	Not a semi luminaire	N/A
7 (4.24)	UV Radiation		See below	N/A
4.24.1	UV radiation for metal halide lamps (Annex P)	EL 2401-122	Not a metal halide lamp	N/A
7 (4.25)	Mechanical hazard		See below	P
	No sharp point or edges*	EL 2401-123	No sharp point or edges that created hazard for the user	P
7 (4.26)	Short-circuit protection		See below	N/A
7 (4.26.1)	Adequate means of uninsulated accessible SELV parts	EL 2401-124	No such uninsulated accessible SELV parts	N/A
7 (4.26.2)	Short-circuit test	EL 2401-125	As above	N/A
7 (4.26.3)	Test chain according to Fig. 29	EL 2401-126	As above	N/A
7.1	IP rating for column integrated luminaire		No Such Construction	N/A
7.2	Luminaire for suspension on span wires		As above	N/A
7.3.1	Static Load Test		In compliance	N/A
7.4	For Adjustable lampholder and optical parts		No Such Construction	N/A
7.5	Glass Shatter test		In compliance	P





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7.6	The Connection compartment of column-integrated luminaires		No Such Construction	N/A
7.7	Load calculation		As above	N/A
7.8	Impact energy Test of 5 Nm		As above	N/A
7.9	Cable entry for column integrated luminaires		As above	N/A

*- Total number of Requirements to be observed / inspected =45

Total No. of applicable Requirement =11

No. of Requirements for which the sample passed =11

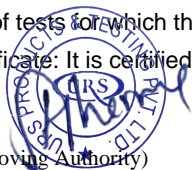
Total number of tests to be conducted =82

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.

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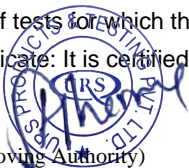
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
8(11)	CREEPAGE DISTANCES AND CLEARANCES		See below	P
8(11.2)	Working voltage (V):	EL 2402-00	220-240VAC	P
	Voltage form...	EL 2402-01	Sinusoidal [v] Non-sinusoidal []	P
	PTI	EL 2402-02	< 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 (k V)	EL 2402-04	No rated pulse	N/A
	(1) Current-carrying parts of different polarity: cr (mm); cl (m m)	EL 2402-05	Safety Certified LED Driver Used	N/A
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm)	EL 2402-06	Safety Certified LED Driver Used	N/A
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm)	EL 2402-07	No such parts used which becoming live due to breakdown	N/A
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm)	EL 2402-08	No such outer surface used	N/A
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm)	EL 2402-09	No such current carrying parts and supporting surface	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 =10
 Total No. of applicable Tests =04
 No. of tests for which the sample passed =04

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	Code	Test result/ observation	Verdict
9(7)	PROVISION FOR EARTHING		See below	P
9(7.2.1 + 7.2.3)	Accessible metal parts	EL 2403-00	Metal parts are permanently and reliably connected to the earthing terminal	P
	Metal parts in contact with supporting surface*	EL 2403-01	In Compliance	P
	Resistance < 0,5Ω	EL 2403-02	Earthing resistance: 0.029 ohm	P
	Self-tapping screws used*	EL 2403-03	No self-tapping screw used	N/A
	Thread-forming screws*	EL 2403-04	In compliance	P
	Thread-forming screw used in a groove*	EL 2403-05	No such construction used	N/A
	Earth makes contact first*	EL 2403-06	In Compliance	P
9 (7.2.2 + 7.2.3)	Earth continuity in joints, etc. *	EL 2403-07	In Compliance	P
9 (7.2.4)	Compliance with 4.7.3	EL 2403-08	In Compliance	P
	Connections adequately locked	EL 2403-09	No such construction used	N/A
9 (7.2.5)	Earth terminal integral part of connector socket*	EL 2403-10	No such construction used	N/A
9 (7.2.6)	Earth terminal adjacent to mains terminals*	EL 2403-11	In Compliance	P
9 (7.2.7)	Electrolytic corrosion of the earth terminal*	EL 2403-12	In Compliance	P
9 (7.2.8)	Material of earth terminal*	EL 2403-13	Material is non-rusting surface	P
	Contact surface bare metal*	EL 2403-14	Compliance	P
9 (7.2.10)	Class II luminaire for looping-in*	EL 2403-15	Class I luminaire	N/A
9 (7.2.11)	Earthing core coloured green-yellow*	EL 2403-17	In Compliance	P
	Double or reinforced insulation to functional earth*	EL 2403-16	No such construction	N/A
	Length of earth conductor*	EL 2403-18	In Compliance	P
9.1	The attachment of fixed part of terminal		In Compliance	P



*- Total number of Requirements to be observed / inspected =15
 Total No. of applicable Requirement =10
 No. of Requirements for which the sample passed =10



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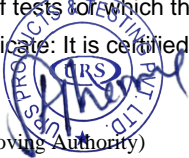
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Total number of tests to be conducted =04
 Total No. of applicable Tests =04
 No. of tests for which the sample passed =04

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


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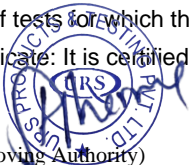
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
10(14)	SCREW TERMINALS		Certified Screw terminal block used	P
	Separately approved; component list	EL 2404-00	As above	P
	Part of the luminaire	EL 2404-01	As above	N/A

*- 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 =02
 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	Code	Test result/ observation	Verdict
10(15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		No screwless terminal block used	N/A
	Separately approved; component list	EL 2404-02	As above	N/A
	Part of the luminaire	EL 2404-03	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 =02
 Total No. of applicable Tests =00
 No. of tests for which the sample passed =N/A

Certificate: It is certified that the above tests were performed and found to be Not applicable in the requirement tested.

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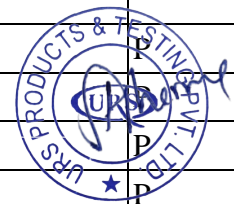
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
11(5)	EXTERNAL AND INTERNAL WIRING		See below	P
11 (5.2)	Supply connection and external wiring		See below	P
11 (5.2.1)	Means of connection*	EL 2405-00	Non detachable flexible cable used	P
11 (5.2.2)	Type of cable*	EL 2405-01	Rubber cable	P
	Nominal cross-sectional area (mm ²)*	EL 2405-02	3C×1.0 square mm	P
	Cables equal to IS 694 and IS 9968 (Part 1) *	EL 2405-03	IS 9968 : PART 1 : 1988	P
	Luminaire provided with socket-outlet*	EL 2405-04	No such construction	N/A
11 (5.2.3)	Type of attachment, X, Y or Z*	EL 2405-05	Type Y attachment used	P
11 (5.2.5)	Type Z not connected to screws	EL 2405-06	As above	N/A
11 (5.2.6)	Cable entries:		See below	P
	suitable for introduction	EL 2405-07	Core are suitable for the introduction of the cable	P
	adequate degree of protection	EL 2405-08	Adequate degree of protection provided	P
11 (5.2.7)	Cable entries through rigid material have rounded edges*	EL 2405-09	In compliance	P
11 (5.2.8)	Insulating bushings:		See below	N/A
	suitably fixed*	EL 2405-10	Class I Luminaire	N/A
	material in bushings*	EL 2405-11	As above	N/A
	- material not likely to deteriorate*	EL 2405-12	As above	N/A
	- tubes or guards made of insulating material*	EL 2405-13	As above	N/A
11 (5.2.9)	Locking of screwed bushings*	EL 2405-13	As above	N/A
11 (5.2.10)	Cord anchorage:		See below	P
	covering protected from abrasion	EL 2405-14	In compliance	P
	clear how to be effective	EL 2405-15	In compliance	P
	no mechanical or thermal stress	EL 2405-16	In compliance	P
	no tying of cables into knots etc.	EL 2405-17	In compliance	P
	insulating material or lining	EL 2405-18	In compliance	P





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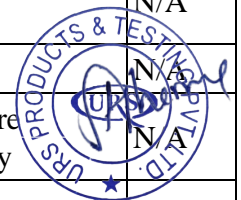
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11 (5.2.10.1)	Cord anchorage for type X attachment:		No such attachment used	N/A
	a) at least one part fixed	EL 2405-19	As above	N/A
	b) types of cable	EL 2405-20	As above	N/A
	c) no damaging of the cable	EL 2405-21	As above	N/A
	d) whole cable can be mounted	EL 2405-22	As above	N/A
	e) no touching of clamping screws	EL 2405-23	As above	N/A
	f) metal screw not directly on cable	EL 2405-24	As above	N/A
	g) replacement without special tool	EL 2405-25	As above	N/A
	Glands not used as anchorage	EL 2405-26	As above	N/A
	Labyrinth type anchorages	EL 2405-27	As above	N/A
11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	EL 2405-28	In compliance	P
11 (5.2.10.3)	Tests:		See below	P
	impossible to push cable; unsafe	EL 2405-29	In compliance	P
	pull test: 25 times; pull (N)	EL 2405-30	60N	P
	torque test: torque (Nm)	EL 2405-31	0.25Nm	P
	displacement ≤ 2 mm	EL 2405-32	In compliance	P
	no movement of conductors	EL 2405-33	In compliance	P
	no damage of cable or cord	EL 2405-34	In compliance	P
11 (5.2.11)	External wiring passing into luminaire	EL 2405-35	In compliance	P
11 (5.2.12)	Looping in terminals*	EL 2405-36	No looping-in terminal	N/A
11 (5.2.13)	Wire ends not tinned*	EL 2405-37	No such construction used	N/A
	Wire ends tinned: no cold flow*	EL 2405-38	No such construction used	N/A
11 (5.2.14)	Mains plug same protection*	EL 2405-39	No plug used	N/A
	Class III luminaire plug*	EL 2405-40	No plug provided	N/A
11 (5.2.15)	Colour coded red and black*	EL 2405-41	LED lamp used and luminaire connected to ac mains supply	N/A
11 (5.2.16)	Appliance inlets *	EL 2405-42	No appliance inlet used	N/A





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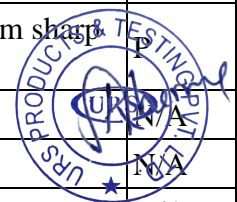
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	Appliance couplers *	EL 2405-43	No appliance coupler used	N/A
11 (5.3)	Internal wiring		See below	P
11 (5.3.1)	Internal wiring of suitable size and type*	EL 2405-44	Suitable size and type of internal wirings used to handle the power occurring in normal use	P
	Through wiring		No through wiring used	N/A
	- not delivered/ mounting instruction	EL 2405-45	As above	N/A
	- factory assembled	EL 2405-46	As above	N/A
	- socket outlet loaded (A)	EL 2405-47	As above	N/A
	- temperatures	EL 2405-48	As above	N/A
	Green yellow for earth only	EL 2405-49	In compliance	P
11 (5.3.1.1)	Internal wiring connected directly to fixed wiring*		See below	N/A
	Cross-sectional area (mm ²)	EL 2405-50	No such construction used	N/A
	Insulation thickness	EL 2405-51	As above	N/A
	Extra insulation added where necessary	EL 2405-52	Not required	N/A
11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device*		No such construction used	N/A
	Adequate cross-sectional area and insulation thickness	EL 2405-53	As above	N/A
11 (5.3.1.3)	Double or reinforced insulation for class II*	EL 2405-54	Class I Luminaire	N/A
11 (5.3.1.4)	Conductors without insulation*	EL 2405-55	No conductors without insulation	N/A
11 (5.3.1.5)	SELV current-carrying parts*	EL 2405-56	No such SELV parts used	N/A
11 (5.3.1.6)	Insulation thickness other than PVC or rubber*	EL 2405-57	No such construction	N/A
11 (5.3.2)	Sharp edges etc.*	EL 2405-58	Internal wiring protected from sharp edges etc.	P
	No moving parts of switches etc.*	EL 2405-59	No switches provided	N/A
	Joints, raising/lowering devices*	EL 2405-60	No such construction	N/A
	Telescopic tubes etc.*	EL 2405-61	No such construction	N/A
	No twisting over 360°	EL 2405-62	No such construction	N/A





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11 (5.3.3)	Insulating bushings:		See below	N/A
	- suitable fixed*	EL 2405-63	Class I Luminaire	N/A
	- material in bushings*	EL 2405-64	As above	N/A
	- material not likely to deteriorate*	EL 2405-65	As above	N/A
	- cables with protective sheath*	EL 2405-66	As above	N/A
11 (5.3.4)	Joints and junctions effectively insulated*	EL 2405-67	No such construction used	N/A
11 (5.3.5)	Strain on internal wiring*	EL 2405-68	As above	N/A
11 (5.3.6)	Wire carriers*	EL 2405-69	As above	N/A
11 (5.3.7)	Wire ends not tinned*	EL 2405-70	As above	N/A
	Wire ends tinned: no cold flow*	EL 2405-71	No such construction used	N/A
11.1	Cord anchorage test for street light, Pull of 60 N, torque of 0.25 Nm		In compliance	P

*- Total number of Requirements to be observed / inspected =38

Total No. of applicable Requirement =09

No. of Requirements for which the sample passed =09

Total number of tests to be conducted =35

Total No. of applicable Tests =16

No. of tests for which the sample passed =16

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

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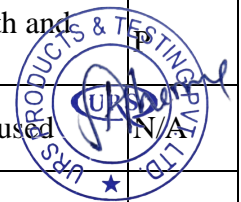
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
12(8)	PROTECTION AGAINST ELECTRIC SHOCK		See below	P
12 (8.2.1)	Live parts not accessible*	EL 2406-00	Live parts are not accessible after installation and wired as in normal use	P
	Protection shall be maintained after removal of all parts*	EL 2406-01	No such arrangement	N/A
	Supply conductors held by screw less terminals with push-button*	EL 2406-02	No such construction used	N/A
	Tubular filament lamps having a cap/base at each end*	EL 2406-03	As above	N/A
	Insulating properties of lacquer, enamel, paper and similar materials*	EL 2406-04	No such materials are relied upon to give the protection against electric shock and short circuit	P
	Luminaires with ignitors	EL 2406-05	No such ignitors used	N/A
12 (8.2.2)	Portable luminaire adjusted in most unfavourable position*	EL 2406-06	Not a portable luminaire	N/A
12 (8.2.3.a)	Class II luminaire:		Class I luminaire	N/A
	basic insulated metal parts not accessible during starter or lamp replacement*	EL 2406-07	As above	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	No BC lampholder used	N/A
12 (8.2.4)	Portable luminaire have protection independent of supporting surface*	EL 2406-10	LED Street Light Luminaire	N/A
12 (8.2.5)	Compliance with the standard test finger or relevant probe	EL 2406-11	Compliance checked by standard test finger	P
12 (8.2.6)	Covers reliably secured*	EL 2406-12	Adequate mechanical strength and reliably secured	P
12 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$	EL 2406-13	Safety Certified LED driver used	N/A
	Portable plug connected luminaire with capacitor	EL 2406-14	As above	N/A





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Other plug connected luminaire with capacitor	EL 2406-15	As above	N/A
Discharge device on or within capacitor	EL 2406-16	As above	N/A
Discharge device mounted separately	EL 2406-17	As above	N/A

*- Total number of Requirements to be observed / inspected =11
 Total No. of applicable Requirement =03
 No. of Requirements for which the sample passed =03
 Total number of tests to be conducted =07
 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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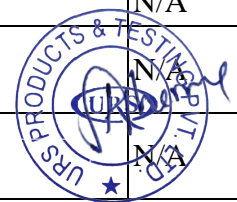
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
13(12)	ENDURANCE TEST AND THERMAL TEST		See below	P
13 (12.3)	Endurance test:	EL 2407-00	In compliance	P
	mounting position		Unit is placed in a thermal enclosure with means for controlling the ambient temperature within the enclosure	P
	test temperature (°C)		55°C	P
	total duration (h)		240 hrs.	P
	supply voltage: Un factor; calculated voltage (V)		264Vac	P
	lamp used		LED lamp (LED module)	P
13 (12.3.2)	After endurance test:	EL 2407-01	See below	P
	- no part unserviceable*		No part became unserviceable	P
	- plastic ES lampholder not deformed*		No such lamp holder used	N/A
	- luminaire not unsafe*		Complied	P
	- no damage to track system*		No such construction used	N/A
	- marking legible*		Marking is legible	P
	- no cracks, deformation etc.*		No cracks, deformation occurred	P
13 (12.4)	Thermal test (normal operation)	EL 2407-02	Complied (See Annex 2)	P
13 (12.5)	Thermal test (abnormal operation)	EL 2407-03	No such construction used	N/A
13 (12.6)	Thermal test (failed lamp control gear condition)		No such construction used	N/A
13 (12.6.1)	Without Thermal Cut-Outs	EL 2407-04	No such construction used	N/A
	case of abnormal conditions		As above	N/A
	electronic lamp control gear		As above	N/A
	measured winding temperature (°C): at 1,1 Un		As above	N/A
	measured mounting surface temperature (°C) at 1,1 Un		As above	N/A
	calculated mounting surface temperature (°C)		As above	N/A





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	track mounted luminaires		As above	N/A
13 (12.6.2)	Temperature sensing control	EL 2407-05	No such temperature sensing control used	N/A
	case of abnormal conditions		As above	N/A
	- thermal link		As above	N/A
	- manual reset cut out		As above	N/A
	- auto reset cut out		As above	N/A
	measured mounting surface temperature (°C)		As above	N/A
	track mounted luminaires		As above	N/A
13 (12.7)	Thermal test (fault conditions in lamp control gear or electronic devices in plastic luminaires):		No such construction used	N/A
13 (12.7.1)	Luminaire without temperature sensing control	EL 2407-06	As above	N/A
	- case of abnormal conditions		As above	N/A
	measured winding temperature (°C): at 1,1 Un		As above	N/A
	measured temperature of fixing point/exposed part (°C): at 1,1 Un		As above	N/A
	calculated temperature of fixing point/exposed part (°C)		As above	N/A
13 (12.7.2)	Luminaire with temperature sensing control	EL 2407-07	See below	N/A
	- thermal link		Yes [] No [v]	N/A
	- manual reset cut-out		Yes [] No [v]	N/A
	- auto reset cut-out		Yes [] No [v]	N/A
	- case of abnormal conditions		No such construction	N/A
	highest measured temperature of fixing point/ exposed part (°C):		No such construction	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 =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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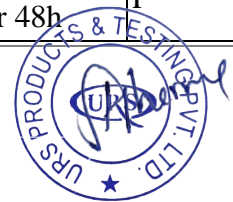
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
14(9)	RESISTANCE TO DUST AND MOISTURE		See below	P
14 (-)	If IP > IP 20 the order of tests as specified in clause 9.2	EL 2408-00	IP65	P
14 (9.2)	Tests for ingress of dust, solid objects and moisture	EL 2408-01	See below	P
	classification according to IP		IP65	P
	mounting position during test		Normal mounted in normal use in most unfavourable Position	P
	fixing screws tightened; torque (Nm)		Enclosure fixed screw: 3.80mm, 0.53Nm	P
	tests according to clauses		Cl. 9.2.2 & Cl. 9.2.6	P
	electric strength test afterwards		Withstood	P
	a) no deposit in dust-proof luminaire	EL 2408-02	Dust tight luminaire	N/A
	b) no talcum in dust tight luminaire	EL 2408-03	Satisfactory	P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	EL 2408-04	No trace of water on current-carrying parts or on insulation.	P
	d) i) For luminaires without drain holes – no water entry	EL 2408-05	Satisfactory	P
	d) ii) For luminaires with drain holes – no hazardous water entry	EL 2408-06	No such construction used	N/A
	e) no water in watertight luminaire	EL 2408-07	No such construction used	N/A
	f) no contact with live parts (IP 2X)	EL 2408-08	No such construction used	N/A
	g) no entry into enclosure (IP 3X and IP 4X)	EL 2408-09	No such construction used	N/A
	h) no contact with live parts (IP3X and IP4X)	EL 2408-10	No such construction used	N/A
14 (9.3)	Humidity test 48 h	EL 2408-11	Humidity treatment carried out at Temp:27°C with RH:93% for 48h	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 =06
 No. of tests for which the sample passed =06





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





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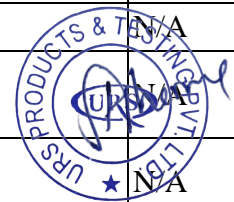
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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
15(10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		See below	P
15 (10.2.1)	Insulation resistance test	EL 2409-00	In Compliance	P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		No such construction used	N/A
	Insulation resistance (MΩ)		See below	P
	SELV	EL 2409-01	Not a SELV Luminaire	N/A
	between current-carrying parts of different polarity		As above	N/A
	between current-carrying parts and mounting surface		As above	N/A
	between current-carrying parts and metal parts of the luminaire		As above	N/A
	Other than SELV	EL 2409-02	In Compliance	P
	between live parts of different polarity		Safety Certified LED driver used	N/A
	between live parts and mounting surface		No such construction used	N/A
	between live parts and metal parts		Test Voltage: 500Vdc, (Limit: Minimum 2 Mega ohm) > 1 Giga ohm	P
	between live parts of different polarity through action of a switch		No such construction used	N/A
15 (10.2.2)	Electric strength test	EL 2409-03	In Compliance	P
	Dummy lamp		No Dummy lamp used	N/A
	Luminaires with ignitors after 24 h test		No Ignitors used	N/A
	Luminaires with manual ignitors		No Manual Ignitor used	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		As above	N/A
	between current-carrying parts and mounting surface		As above	N/A
	between current-carrying parts and metal		As above	N/A





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	parts of the luminaire :			
	Other than SELV	EL 2409-05	See below	P
	between live parts of different polarity		Safety Certified LED driver used	N/A
	between live parts and mounting surface		No such construction used	N/A
	between live parts and metal parts		Withstood (Test voltage:1480V~) No flashover and breakdown observed	P
	between live parts of different polarity through action of a switch		No such construction used	N/A
15 (10.3)	Touch current or protective conductor current (mA)	EL 2409-06	0.028mA (Limit: maximum 1mA)	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 =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	Code	Test result/ observation	Verdict
16(13)	RESISTANCE TO HEAT, FIRE AND TRACKING		See below	N/A
16(13.2.1)	Ball-pressure test	EL 2410-00	See below	N/A
	- part tested; temperature (°C)		Metallic enclosure used	N/A
	- part tested; temperature (°C)		As above	N/A
	- part tested; temperature (°C)		As above	N/A
	- part tested; temperature (°C)		As above	N/A
16(13.3.1)	Needle-flame test (10 s)	EL 2410-01	See below	N/A
	- part tested		Safety certified LED Driver used (See Annex 1)	N/A
	- part tested		As above	N/A
16(13.3.2)	Glow-wire test (650°C)	EL 2410-02	See below	N/A
	- part tested		Metallic enclosure used	N/A
	- part tested		As above	N/A
16(13.4.1)	Tracking test	EL 2410-03	Certified material 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 =00
 No. of tests for which the sample passed =N/A

Certificate: It is certified that the above tests were performed and found to be not applicable in the requirement tested.

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Cl.No.	Test / Requirement name	Code	Test result/ observation	Verdict
17	PHOTOMETRIC TESTS		See below	P
	The photometric performance	EL 2411-00	Refer Attachment II	P
17.1	Luminous Intensity		Refer Attachment II	P
17.2	C-gamma system		Refer Attachment II	P
17.3	The general guidance regarding the photometric data to be provided by the manufacturers		Complied	P
17.4	Light Controlling Components		Complied	P





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*- 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	=01
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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ANNEX 1 TABLE: Critical components information						P
Object / part No.	Code	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of conformity1)
LED DRIVER FOR MODEL:300W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-80W (4 Nos)	INPUT:100-240VAC, 900mA, 50/60 Hz, PF:>0.9 OUTPUT:25-36VDC, 2400mA, 80W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL: 290W , 280W , 270W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-80W (4 Nos)	INPUT:100-240VAC, 900mA, 50/60 Hz, PF:>0.9 OUTPUT:25-36VDC, 2400mA, 80W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL:250W, 245W , 240W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-50W (5Nos)	INPUT:100-240VAC, 500mA, 50/60 Hz, PF:>0.9 OUTPUT:30-36VDC, 1500mA, 50W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL:230W , 220W, 215W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-80W (3 Nos)	INPUT:100-240VAC, 900mA, 50/60 Hz, PF:>0.9 OUTPUT:25-36VDC, 2400mA, 80W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL: 200W, 190W , 180W , 170W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-50W (4 Nos)	INPUT:100-240VAC, 500mA, 50/60 Hz, PF:>0.9 OUTPUT:30-36VDC, 1500mA, 50W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL:150W, 120W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-50W (3 Nos)	INPUT:100-240VAC, 500mA, 50/60 Hz, PF:>0.9 OUTPUT:30-36VDC, 1500mA, 50W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL: 100W , 90W, 80W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-50W (2 Nos)	INPUT:100-240VAC, 500mA, 50/60 Hz, PF:>0.9 OUTPUT:30-36VDC, 1500mA, 50W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
LED DRIVER FOR MODEL:50W	B	LEEJO LIGHTING ELECTRONICS PRIVATE LIMITED	LM-50W (1 Nos)	INPUT:100-240VAC, 500mA, 50/60 Hz, PF:>0.9 OUTPUT:30-36VDC, 1500mA, 50W	IS 15885 (PART 2/ SEC 13) : 2012	R-93008125
Internal Wire	B	SUNKABELINDUSTRIES	PVC Insulated	0.5mm2	IS 694: 2010	CM/L-7800020712
Supply wire	B	Shree Krishna Cables	Rubber cable	1100V,3C X1.0mm2	IS 9968 : PART 1 : 1988	CM/L No.: 2664262
LED PACKAGE	B	OSRAM Opto Semiconductors (M) Sdn. Bhd.	GW JTLMS1.EM	10mA to 150mA	IEC 62471:2006 (First Edition)	ReportNo:7191184238 -EEC18/01-CMF
LED PCB	B	SHOGINI TECHNOARTS PVT LTD	SL1	130°C, V-0	UL 796 (#)	UL E207626
Enclosure (Metallic)	C	ADVANCE CIRCUIT TECHNOLOGY	XYX	Metallic, 70°C	IS10322 (Part 5/Sec 3): 2012+A1:2015	Tested with appliance
Screw Terminal Blocks	B	VITAL ELECTROCOMP	VBT	300V, 20A	UL 1059 (#)	UL E247792

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 authorized by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component
- (#): No IEC Standard available





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ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12	P
Type reference	300W	P
Lamp used	LED Modules used	--
Lamp control gear used	Safety certified LED Driver used	--
Mounting position of luminaire	Normal operating position	--
Supply wattage (W)	At 240V:297.55W, At 254.4V:298.34W	--
Supply current (A)	At 240V: 1.30A, At 254.4V: 1.22A	--
Calculated power factor	At 240V:0.95, At 254.4V:0.96	--
Table: measured temperatures corrected for ta:°C	45°C	--
- abnormal operating mode	--	--
- test 1: rated voltage	240V~	--
- test 2: 1,06 times rated voltage or 1,05 times rated wattage	1.06x240V~: 254.4V~	--
- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	--
- test 4: 1,1 times rated voltage or 1,05 times rated wattage N/A N/A Temperature	--	--

Temperature measurements, (°C)

Part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	limit
Supply wire	51.6°C	52.3°C		200°C		
Enclosure(Metallic)	56.4°C	57.7°C		70°C		
LED Driver	61.8°C	63.3°C		90°C		
Internal Wire	52.4°C	52.9°C		90°C		

Supplementary information:





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ANNEX 3	Screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		N/A
(14.2)	Type of terminal :	Certified Screw terminal block used	N/A
	Rated current (A) :	As above	N/A
(14.3.2.1)	One or more conductors	As above	N/A
(14.3.2.2)	Special preparation	As above	N/A
(14.3.2.3)	Terminal size	As above	N/A
	Cross-sectional area (mm ²) :	As above	N/A
(14.3.3)	Conductor space (mm) :	As above	N/A
(14.4)	Mechanical tests	As above	N/A
(14.4.1)	Minimum distance	As above	N/A
(14.4.2)	Cannot slip out	As above	N/A
(14.4.3)	Special preparation	As above	N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread) :	As above	N/A
	External wiring	As above	N/A
	No soft metal	As above	N/A
(14.4.5)	Corrosion	As above	N/A
(14.4.6)	Nominal diameter of thread (mm) :	As above	N/A
	Torque (Nm) :	As above	N/A
(14.4.7)	Between metal surfaces	As above	N/A
	Lug terminal	As above	N/A
	Mantle terminal	As above	N/A
	Pull test; pull (N)	As above	N/A
(14.4.8)	Without undue damage	As above	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 terminal block used										N/A
	Rated current (A).....:	As above										N/A
(15.3.1)	Material	As above										N/A
(15.3.2)	Clamping	As above										N/A
(15.3.3)	Stop	As above										N/A
(15.3.4)	Unprepared conductors	As above										N/A
(15.3.5)	Pressure on insulating material	As above										N/A
(15.3.6)	Clear connection method	As above										N/A
(15.3.7)	Clamping independently	As above										N/A
(15.3.8)	Fixed in position	As above										N/A
(15.3.10)	Conductor size	As above										N/A
	Type of conductor	As above										N/A
(15.5.1)	Terminals internal wiring	As above										N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples).....:	As above										N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples).....	As above										N/A
	Insertion force not exceeding 50 N	As above										N/A
(15.5.2)	Permanent connections: pull-off test (20 N)	As above										N/A
(15.6)	Electrical tests	As above										N/A
	Voltage drop (mV) after 1 h (4 samples) :	As above										N/A
	Voltage drop of two inseparable joints	As above										N/A
	Number of cycles	As above										N/A
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples) :	As above										N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples) :	As above										N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) :	As above										N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) :	As above										N/A
(15.7)	Terminals external wiring	As above										N/A
	Terminal size and rating	As above										N/A
(15.8.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N) :	As above										N/A
	Pull test pin or tab terminals (4 samples); pull (N) :	As above										N/A
(15.9)	Contact resistance test:	As above										N/A
	Voltage drop (mV) after 1 h:	As above										N/A
	terminal	1	2	3	4	5	6	7	8	9	10	
	Voltage drop of two inseparable joints											N/A
	Voltage drop after 10th alt. 25th cycle											N/A
	Max. allowed voltage drop (mV) :											N/A
	terminal	1	2	3	4	5	6	7	8	9	10	
	Voltage drop after 50th alt. 100th cycle											N/A
	Max. allowed voltage drop (mV) :											N/A
	terminal	1	2	3	4	5	6	7	8	9	10	
	Continued ageing: voltage drop after 10th alt. 25th cycle											N/A
	Max. allowed voltage drop (mV) :											N/A
	terminal	1	2	3	4	5	6	7	8	9	10	
	Continued ageing: voltage drop after 50th alt. 100th cycle											N/A
	Max. allowed voltage drop (mV) :											N/A





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terminal

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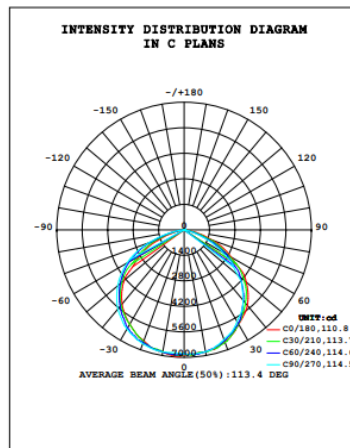
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Attachment-II Photometric Measurement

Parameters	Measured value
Power	299.08W
Luminous Flux	28924.02lm
Peak Intensity Value	6955cd
Beam Angle Value	113.4Deg
Efficacy	96.71lm/W
Temperature	25°C



photometric data (1)



Sample Front View



Sample Back View





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Sample Open View

