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TEST RAPORU
TEST REPORT

TL-806
19-TST-0083-63
04-19

Müşterinin Adı Adresi
Customer name/address
İstek Numarası
Order No

: **BSİ AYDINLATMA ELEK. ELEKT. SAN. TIC. A.Ş.**
Konutkent Mah. 3029 Cad. No: 3/91 06810, Çankaya, Ankara, TURKEY
: **19-TST-0083**

Numunenin Adı ve Tarifi
Name and identity of test item
Numunenin kabul tarihi
The date of receipt of test item

: **İRUTA R Aydınlatma Elemanı**
İRUTA R Light Element
: 04.04.2019

Açıklamalar
Remarks

: **DGC'ye , TS EN 60598-2-3 standardı uyarınca müşterinin belirttiği kısmi testler uygulanmıştır.**
Partial tests which have been stated by costumer were applied to EUT according to TS EN 60598-2-3 standard.

Deneyin Yapıldığı Tarih
Date of Test

: **10.04.2019-12.04.2019**

Raporun Sayfa Sayısı
Number of Pages of the Report

: **17**

Deney laboratuvarı olarak faaliyet gösteren TÜV AUSTRIA TURK, International Accreditation Service, Inc. (IAS) TL-806 ile TS EN ISO/IEC 17025 Nisan 2012 standardına göre akredite edilmiştir.
TÜV AUSTRIA TURK is accredited by International Accreditation Service, Inc. (IAS) under registration number TL-806 for TS EN ISO/IEC 17025 April 2012 as a test laboratory.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Bu rapor, laboratuvara gönderilen numunelere uygulanan deney/deneyler sonucu hazırlanmıştır. Müşteriye ait diğer numuneleri kapsamaz.

This report was prepared according to test results of specimens sent to laboratory. It doesn't contain other specimens belonging to customer.

Mühür ve Tarih
Seal and Date



Deney Sorumlusu
Person in charge of test

Saltuk Buğra GÜNEŞ

Onaylayan
Approval

Gürhan CANSIZ

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1.1

DGC, Çevre Şartları ve Sembollerin Tanımları (Description of the EUT, Environmental Conditions and Symbol Definitions)

Markası / Brand	: BSI AYDINLATMA
Modeli / Model	: iRUTA - R
Seri Numarası / Serial Number	: Test numunesi/Test sample
Tanımı / Description	: iRUTA R Aydınlatma Elemanı iRUTA R Light Element
Beyan Gücü / Rated Power	: 31,2 W
Beyan Gerilimi / Rated Voltage	: 220-240VAC
Çevre Şartları / Environmental Conditions	23,4°C, %54 Rh

Deneyler sırasında ölçülen çevre şartları ilgili sayfalarda belirtilmiştir.
(The environmental conditions are measured during tests, are determined related pages.)

Sembollerin Tanımı / Definitions of Symbols
DGC= Deneyden Geçen Cihaz
EUT=Equipment Under Test

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TEST REPORT
IEC 60598-2-3
Luminaires
Part 2: Particular requirements
Section 3: Luminaires for road and street lighting

Report Number.: 19-TST-0083
Date of issue: 16.04.2019
Total number of pages: 17
Name of Testing Laboratory preparing the Report.....: TÜV AUSTRIA TURK Belgelendirme Eğitim ve Gözetim Hizmetleri Ltd. Şti.
Applicant's name: BSI AYDINLATMA ELEK. ELEKT. SAN. TIC. A.Ş.
Address: Konutkent Mah. 3029 Cad. No: 3/91 06810, Çankaya, Ankara

Test specification:
Standard.....: IEC 60598-2-3:2002, AMD1:2011 used in conjunction with IEC 60598-1:2014, AMD1:2017
Test procedure: LVD
Non-standard test method: N/A

Test Report Form No.: IEC60598_2_3L
Test Report Form(s) Originator: Intertek Semko AB
Master TRF.....: Dated 2018-03-09

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
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Test item description	İRUTA R Light Element	
Trade Mark	İRUTA R	
Manufacturer.....	BSI AYDINLATMA	
Model/Type reference	İRUTA R	
Ratings	220-240 V AC / 50-60Hz / 31,2 W	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	Testing Laboratory:	TÜV AUSTRIA TURK Belgelendirme Eğitim ve Gözetim Hizmetleri Ltd. Şti.
Testing location/ address		1. Organize Sanayi Bölgesi Uygurlar Caddesi No:1 06935, Sincan, Ankara, TURKEY
Tested by (name, function, signature)		Saltuk Buğra GÜNEŞ
Approved by (name, function, signature)		Gürhan CANSIZ

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List of Attachments (including a total number of pages in each attachment):

Summary of testing:

Tests performed (name of test and test clause):

3.8 (7) PROVISION FOR EARTHING

3.13 (9) RESISTANCE TO DUST AND MOISTURE

3.14 (10) INSULATION RESISTANCE AND ELECTRIC STRENGTH

Testing location:

TÜV AUSTRIA TURK Belgelendirme Eğitim ve Gözetim Hizmetleri Ltd. Şti.

1. Organize Sanayi Bölgesi Uygurlar Caddesi No:1
06935, Sincan, Ankara, TURKEY

Summary of compliance with National Differences:

List of countries addressed

☐ The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)

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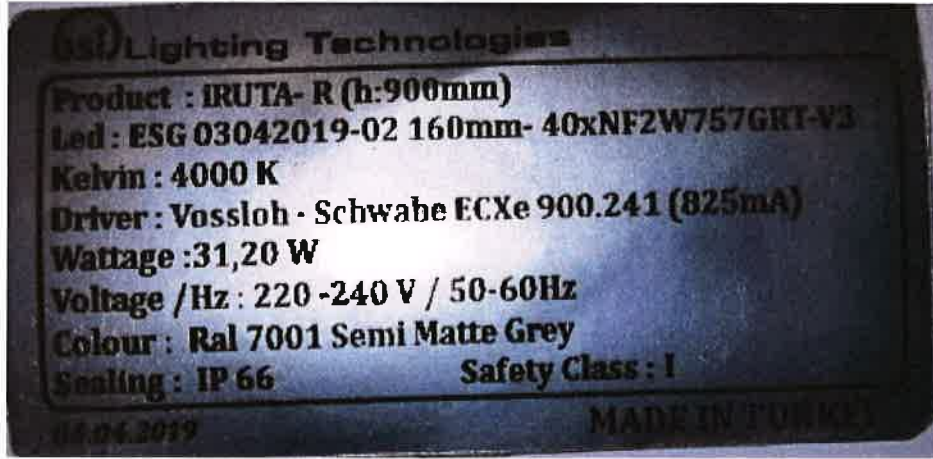
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Copy of marking plate:

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



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Test item particulars	
Classification of installation and use : Fixed luminaire	
Supply Connection : Type Y	
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 : 04.04.2019	
Date (s) of performance of tests : 10.04.2019-12.04.2019	
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1: The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	
☐ Yes ☒ Not applicable	
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) :	BSI AYDINLATMA ELEK. ELEKT. SAN. TIC. A.Ş. Konutkent Mah. 3029 Cad. No: 3/91 06810, Çankaya, Ankara, TURKEY
General product information: STREET LED LUMINAIRE	

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3.2 (0)	GENERAL TEST REQUIREMENTS	—
3.2 (0.3)	More sections applicable: Yes ☒ No ☐ Section/s:	—
3.2 (0.5)	Components (see Annex 1)	—
3.2 (0.7)	Information for luminaire design in light sources standards	—
3.2 (0.7.2)	Light source safety standard:	—
	Luminaire design in the light source safety standard	P

3.4 (2)	CLASSIFICATION OF LUMINAIRES	—
3.4 (2.2)	Type of protection: Class I	P
3.4 (2.3)	Degree of protection: IP 66	—
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces: Yes ☒ No ☐	—
3.4 (2.5)	Luminaire for normal use: Yes ☒ No ☐	—
	Luminaire for rough service: Yes ☐ No ☒	—
3.4 (-)	Modes of installation of road or street lighting	—
	a) on a pipe Yes ☒ No ☐	—
	b) on a mast arm Yes ☒ No ☐	—
	c) on a post top Yes ☐ No ☒	—
	d) on span or suspension wires Yes ☐ No ☒	—
	e) on a wall Yes ☐ No ☒	—

3.8 (7)	PROVISION FOR EARTHING	—
3.8 (7.2.1 + 7.2.3)	Accessible metal parts	P
	Metal parts in contact with supporting surface	P
	Resistance < 0,5 Ω: 0,08Ω	P
	Self-tapping screws used	N/A

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	Thread-forming screws		N/A
	Thread-forming screw used in a grove		N/A
	Earth makes contact first		P
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		P
3.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.	0,08Ω	P
3.8 (7.2.4)	Locking of clamping means		P
	Compliance with 4.7.3		P
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
3.8 (7.2.5)	Earth terminal integral part of connector socket		P
3.8 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
3.8 (7.2.7)	Electrolytic corrosion of the earth terminal		P
3.8 (7.2.8)	Material of earth terminal		P
	Contact surface bare metal		P
3.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
3.8 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A
3.8.1 (-)	Attachment prevented from rotation		N/A

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3.13 (9)	RESISTANCE TO DUST AND MOISTURE	P
3.13.1 (-)	If IP > IP 20 the order of tests as specified in clause 3.12	P
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	P
	- classification according to IP : IP 66	—
	- mounting position during test : Normal Operation Position	—
	- fixing screws tightened; torque (Nm)..... :	—
	- tests according to clauses : 9.2.2 / 9.2.7	—
	- electric strength test afterwards	N/A
	a) no deposit in dust-proof luminaire IP 6X	P
	b) no talcum in dust-tight luminaire IP 6X	P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard IP X6	P
	c.1) For luminaires without drain holes – no water entry	P
	c.2) For luminaires with drain holes – no hazardous water entry	N/A
	d) no water in watertight or pressure watertight luminaire	N/A
	e) no contact with live parts (IP 2X)	N/A
	e) no entry into enclosure (IP 3X and IP 4X)	N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	N/A
	f) no trace of water on part of lamp requiring protection from splashing water	N/A
	g) no damage of protective shield or glass envelope	P
3.13 (9.3)	Humidity test 48 h	N/A

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3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH	P
3.14 (10.2.1)	Insulation resistance test	P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	—
	Insulation resistance (MΩ).....	>199,9 MΩ
	SELV	N/A
	- between current-carrying parts of different polarity :	N/A
	- between current-carrying parts and mounting surface	N/A
	- between current-carrying parts and metal parts of the luminaire	N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	N/A
	- Insulation bushings as described in Section 5	N/A
	Other than SELV	P
	- between live parts of different polarity.....	N/A
	- between live parts and mounting surface	>199,9 MΩ
	- between live parts and metal parts	>199,9 MΩ
	- between live parts of different polarity through action of a switch	N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	N/A
	- Insulation bushings as described in Section 5	N/A
3.14 (10.2.2)	Electric strength test	P
	Dummy lamp	P
	Luminaires with ignitors after 24 h test	N/A
	Luminaires with manual ignitors	N/A

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	Test voltage (V)	2 x 240 + 1000 = 1480 V	P
	SELV		N/A
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	2 x 240 + 1000 = 1480 V	P
	- between live parts and metal parts	2 x 240 + 1000 = 1480 V	P
	- between live parts of different polarity through action of a switch		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
3.14 (10.3)	Touch current or protective conductor current (mA):	Normal Condition: 0,452 mA Reverse Condition : 0,449 mA	P

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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 conformity ¹⁾
Cable	B	ATILIM KABLO	3x1,5 TTR	OLAĞAN PVC KILIFLI ELEKTRİK KABLOLARI	TS EN 50525-3-31:2011	TSE
LED	B	NİCHIA	NF2L757GR T-V1	30x30mm MID POWER LED	LM-80	
DRIVER	B	VS	ECXe 900.241	39W 150...900mA	EN 61347-1 EN 61347-2-13	
REKOR	B	PG7 / PG9	ORGL 01/ ORGL 02	POLYAMİD IP68	VDE TSE EN 61386-22	VDE, TSE
KLEMENS	B	ADELS CONTACT	1003 Sİ/ 3 E	Conductor size 10mm ² , for fuse links 6.3x25(or 32), with PE contact to the base plate	To EN 60598: terminal blocks 25 A at T 85 °C To EN 60998: terminal blocks 41 A at T 85 °C To EN 60127-6 fuse holders 16 A at T 70 °C	

Supplementary information:

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

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

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List of test equipment used:

A completed list of used test equipment shall be provided in the Test Reports when a Customer's Testing Facility according to CTF stage 1 or CTF stage 2 procedure has been used.

Other forms with a different layout but containing corresponding information are also acceptable.

Note: This page may be removed when CTF stage 1 CTF stage 2 are not used. See also clause 4.8 in OD 2020 for more details.

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date
7	PROVISION FOR EARTHING	LAB-001 - 17370695	1KV - 5kV AC/DC 10A-25A 500VDC - 99Mohm 230VAC 50Hz 100mA	21.05.2018	21.05.2019
10	INSULATION RESISTANCE AND ELECTRIC STRENGTH	LAB-001 - 17370695	1KV - 5kV AC/DC 10A-25A 500VDC - 99Mohm 230VAC 50Hz 100mA	21.05.2018	21.05.2019
		LAB-002 - UL002608	230VAC 500uA-1000uA 1mA-50mA	22.05.2018	22.05.2019
9	IP TEST	LAB-042 - 17062810001	X6 1 dk 100 debi X5 1 dk 12,5 debi	18.07.2018	18.07.2019
		LAB-010 - IPTC-01	IP 5X IP 6X	Does not require calibration.	Does not require calibration.

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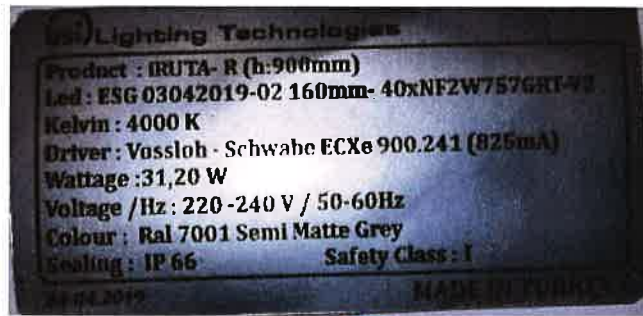
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3.1

DGC'nin Fotoğrafları (Photos of EUTs)



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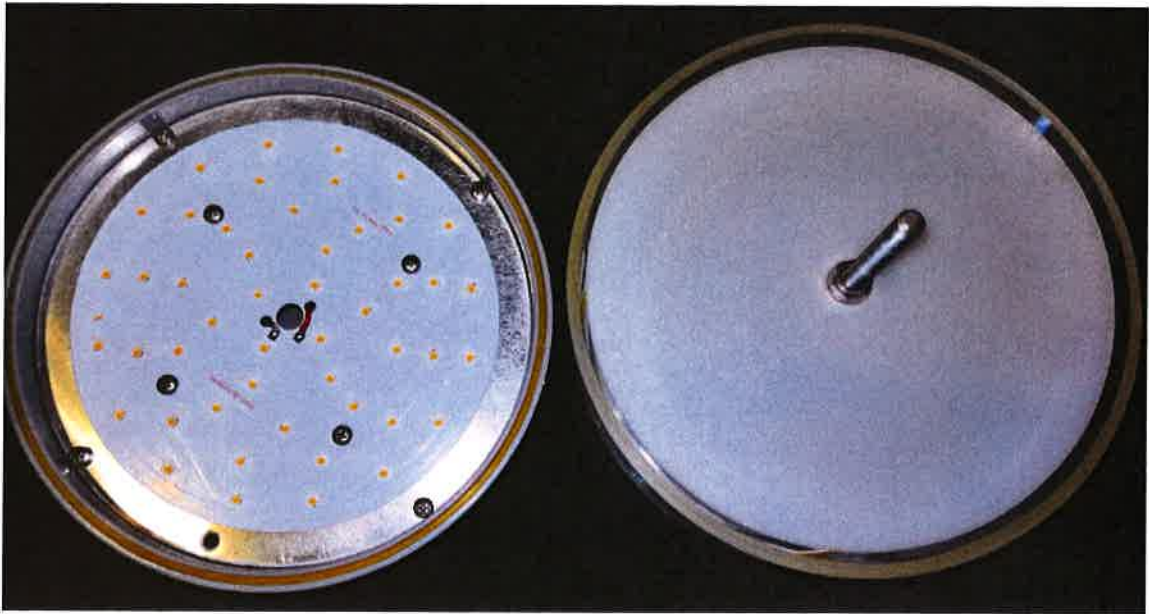
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TEST RAPORU
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DGC'nin Fotoğrafları (Photos of EUTs)



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