



22/03/2016

Sayı/Issue: 21 03 16 SÖ 049/00

İlgi/Subject:

Interest on request, samples were sent to our laboratory for lighting fixtures, physical examination and tests. The following results were obtained.

Rapor Tarihi-Report Date / Rapor Numarası-Report Number/ Ticari Marka-TradeMark / Model-Type

22.03.2016 / 16-078 / BSI / İMETIS (L1-L5-L6) MODEL 72W LED PARK VE BAHÇE ARMATÜRÜ

Numbers in the above-mentioned report, the date of the inspection and test reports of the samples will be sent to our letter attached.

Best Regards,

Prof.Dr. Zafer UTLU

Laboratory Manager

EK/EKLER:

(ANNEX/ANNEXES)

Not: Muayene ve Deney amacı ile gönderilen numuneler, firma veya yetkilisi tarafından 30 gün içerisinde alınmadığı takdirde tasfiye edilecektir.

Bu raporda "TÜRKAK tarafından akredite" şeklinde işaretlenmiş muayene sonuçları AB-0815-T numaralı TÜRKAK Akreditasyon Sertifikasında detaylı olarak belirtilen kapsamla ilişkilidir.

İAÜ Florya Halit Aydın Kampüsü İnönü Cad. No:38 Beşyol mah. Küçükçekmece / İSTANBUL

Tel:(0212) 444 1 428 Dahili : 14630



MUAYENE VE DENEY RAPORU

TEST REPORT



IAU
16-077
22.03.2016

Deneyi Talep Eden : BSI AYDINLATMA ELEKTRİK ELEKTRONİK SAN. VE TIC. A.Ş.
(Adı,Adresi,Şehir v.b.) İncek Mahallesi Turgut Özal Bulvarı No:69/15 Gölbaşı ANKARA
Customer (Name,Address,City etc.)

Deney Talep Tarihi /No : 21.03.2016
Order Date /No

Numunenin Kabul Tarihi : 21.03.2016
Test Item Receipt Date

Deneylerin Yapıldığı Tarih : 21.03 – 22.03.2016
Date of Test

Uygulanan Standart /Metod : TS EN60598-1 KISIM7,8,10
Applied Standart/Method

Raporun Sayfa Sayısı : 10
Number of Pages of the report

Açıklamalar :

Deney ve/veya ölçüm sonuçları,genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
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.

Mühür	Tarih	Deney Sorumlusu	Kontrol Eden	Onaylayan
Seal	Date	Person in charge of tests	Reviewer	Approved By
		Sercan ÖZKAN	Temel SÖNMEZOCAK	Prof. Dr. Zafer UTLU
		Lab. Tech.	Quality Manager	Lab. Manager

Bu rapor , hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Bu rapor , sadece deneyiyapılan numune için geçerlidir ve “Ürün Belgesi” yerine geçmez.

This test report shall not be reproduced other than in full except with the written permission of the laboratory .Test reports without signature and seal are not valid. This report represents only tested samples,and shall not be used as product Certificate.

İSTANBUL AYDIN ÜNİVERSİTESİ AYDINLATMA TEST-ÖLÇÜM ve ANALİZ LABORATUARLARI

(ISTANBUL AYDIN UNIVERSITY LIGHTING TEST MEASUREMENT AND ANALYSIS LABORATORIES)

MUAYENE – DENEY SONUÇLARI / TEST RESULTS

DENEY RAPORU / TEST REPORT

TS EN 60598-1

Aydınlatma Armatürleri / Luminaries

BÖLÜM 1: GENEL ÖZELLİKLER VE DENEYLER

SECTION 1 : GENERAL FEATURES AND TESTS

Rapor No / Report no : 16-078

Yayın Tarihi / Publishing date : 22.03.2016

Sayfa sayısı / Number of Pages : 10

Deney Laboratuvarı / Laboratory : İSTANBUL AYDIN ÜNİVERSİTESİ AYDINLATMA TEST-ÖLÇÜM ve ANALİZ LABORATUARLARI

Adres / Address: İnönü Cad. No:38 Sefaköy-Küçükçekmece / İSTANBUL

Talep Eden / Customer: BSI AYDINLATMA ELEKTRİK ELEKTRONİK SAN. VE TİC. A.Ş.

Adres / Address: İncek Mahallesi Turgut Özal Bulvarı No:69/15 Gölbaşı ANKARA

Test Spesifikasyonları / Testing Features:

Standart / Standard: TS EN60598-1 KISIM 7,8,10

Test Prosedürü / Testing Procedure : Standart Deney Prosedürleri

Standart Dışı Metot / Method out of Standard : N/A

Numunenin Tanımı / Description of Sample : İMETIS MODEL PARK VE BAHÇE ARMATÜRÜ

Ticari Marka / Commercial Mark : BSI

Üretici / Producer : BSI Aydınlatma

Model - Tip Referansı / Model – Typereference : İMETIS MODEL 72W LED PARK VE BAHÇE ARMATÜRÜ

Anma Değerleri / Nominal Values : 220-240V , 50/60Hz , 72W

Yalıtım sınıfı ve kullanımı/Insulation Class : ClassI
Besleme bağlantısı/Connection Type..... : X tipi
Muhtemel Deney Hükümleri/Possible Test Verdict: - İlgili deney, numuneye uygulanamaz/ <i>Not Applicable for test sample</i>: -- Not Applicable(N/A) - Numune ilgili deneyden geçmiştir/ <i>It is suitable for test sample</i>: P (Pass) - Numune ilgili deneyden geçmemiştir/ <i>It is not suitable for testsample</i>: N (Negative)
Deney/Test: Numunenin alındığı tarih/ <i>Sample Date</i>: 21.03.2016 Deney performans tarihleri / <i>Date of Test</i>: 21.03-22.03.2016
Deney Ortam Şartları/Experimental Ambient Conditions: 25°C ±5°C, 35%RH±5%RH

Uygulanan deney (deneyin adı ve maddesi) / Applied Test (Name and clause of test): Topraklama Direnci ölçümü Deneyleri/madde 7 - TURKAK tarafından akredite (Accredited by TURKAK) Elektrik Çarpmasına Karşı Koruma /madde 8 - TURKAK tarafından akredite (Accredited by TURKAK) Yalıtım Direnci(İzolasyon Direnci) ölçümü Deneyleri/madde 10.2-TURKAK tarafından akredite (Accredited by TURKAK) Elektriksel Dayanıklılık (Yüksek Gerilim) Deneyleri/madde 10.2-TURKAK tarafından akredite (Accredited by TURKAK)
Deney Cihazı / Deney Maddesi/Deney Adı/ Kalibrasyonun Yapıldığı Firma/Kalibrasyon Numarası Test Equipment / Test Clause / Name of Test / Calibration Laboratory / Calibration Number İndikatörlü Deney Parmağı/madde8.2.5/Metkal Kalibrasyon/15-43959 Metrel MI2094/madde7.2/Topraklama Deneyi/Metkal Kalibrasyon/15-42069 Metrel MI2094/madde10.2.1/Yalıtım direnci Deneyi/Metkal Kalibrasyon/15-42069 Metrel MI2094/madde10.2.2/Elektriksel Dayanım Deneyi/Metkal Kalibrasyon/15-42069 Metrel MI2094/madde10.3/Kaçak Akım Deneyi/Metkal Kalibrasyon/15-42069

İSTANBUL AYDIN ÜNİVERSİTESİ AYDINLATMA TEST-ÖLÇÜM ve ANALİZ LABORATUARLARI

(İSTANBUL AYDIN UNIVERSITY LIGHTING TEST MEASUREMENT AND ANALYSIS LABORATORIES)

MUAYENE – DENEY SONUÇLARI / TEST RESULTS**TS EN 60598-1**

Madde Clause	Kural + Deney Rule + Test	Sonuç – Açıklama Result - Description	Karar Verdict
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7	PROVISION FOR EARTHING		P
7.2.1 + 7.2.3	Accessible metal parts		P
	Metal parts in contact with supporting surface		N/A
	Resistance < 0,5 Ω	0,09 Ω (lamp body)	P
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Earth makes contact first		P
7.2.2 + 7.2.3	Earth continuity in joints etc.		N/A
7.2.4	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
7.2.5	Earth terminal integral part of connector socket		P
7.2.6	Earth terminal adjacent to mains terminals		N/A
7.2.7	Electrolytic corrosion of the earth terminal		P
7.2.8	Material of earth terminal		N/A
	Contact surface bare metal		N/A
7.2.10	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
7.2.11	Earthing core coloured green-yellow		P
	Length of earth conductor		P

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MUAYENE – DENEY SONUÇLARI / TEST RESULTS**TS EN 60598-1**

Madde Clause	Kural + Deney Rule + Test	Sonuç – Açıklama Result - Description	Karar Verdict
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8	PROTECTION AGAINST ELECTRIC SHOCK		P
8.2.1	Live parts not accessible with standard test finger		P
	Basic insulated parts not used on the outer surface without appropriate protection		N/A
	Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, within arms reach, on wall-mounted luminaires		P
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		N/A
	Double-ended high pressure discharge lamp		
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
8.2.2	Portable luminaire adjusted in most unfavourable position		N/A
8.2.3	Class II luminaire:		N/A

	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
8.2.3	BC lampholder of metal in class I luminaires shall be earthed		N/A
8.2.3.c	Class III luminaires with exposed SELV parts:		N/A
	Ordinary luminaire:		N/A
	- touch current		N/A
	- no-load voltage.....		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage		P
8.2.4	Portable luminaire:		N/A
	- protection independent of supporting surface		N/A
	- terminal block completely covered		N/A
8.2.5	Compliance with the standard test finger or relevant probe		P
8.2.6	Covers reliably secured		N/A
8.2.7	Discharging of capacitors $\geq 0,5 \mu\text{F}$		N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A

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Madde Clause	Kural + Deney Rule + Test	Sonuç – Açıklama Result - Description	Karar Verdict
10	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
10.2.1	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ)	>999,9MΩ (GÖVDE)	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
	Other than SELV:		P
	- between live parts of different polarity	>999,9MΩ	P
	- between live parts and mounting surface.....	>999,9MΩ	P
	- between live parts and metal parts.....	>999,9MΩ	P
	- between live parts of different polarity through action of a switch.....		N/A
10.2.2	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A

	Test voltage (V):	1550V	F
	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
	Other than SELV:		N
	- between live parts of different polarity	1550V	N
	- between live parts and mounting surface.....:	1550V	N
	- between live parts and metal parts.....:	1550V	N
	- between live parts of different polarity through action of a switch.....:		N/A
10.3	Touch current (mA).....:	230V 0,18mA	P

Besleme gücü (W).....: (Supply Power (W))	72W (Measured Value)
Besleme akımı (A).....: (Supply Current(A))	258mA (Measured Value)
Hesaplanan güç faktörü.....: (Computed power factor)	0,92pf (Measured Value)

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MUAYENE – DENEY SONUÇLARI / TEST RESULTS

Numunenin fotoğrafları / Photos of the Test Sample

