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**ÖLÇÜM RAPORU**  
MEASUREMENT REPORT

TL-806
19-TST-0045-128
05-19

**Müşterinin Adı Adresi**  
Customer name/address

: **Baytaş Aydınlatma İmalat Proje Taah.San. ve Tic.Ltd.Şti.**  
Sincan Sanayi Sitesi Ahi Evran Mah. 225.Cad. No:84 Sincan -ANKARA

**İstek Numarası**  
Order No

: 19-TST-0045

**Numunenin Adı ve Tarifi**  
Name and identity of test item

: SIRUS L 300W PROJEKTÖR  
SIRUS L 300W FLOODLIGHT

**Numunenin kabul tarihi**  
The date of receipt of test item

: 07.03.2019

**Açıklamalar**  
Remarks

: DGC'ye , IES LM-82-12 standardı uyarınca fotometrik ölçümler yapılmıştır.  
Photometric measurement has been applied to EUT according to IESNA LM-82-12.

**Deneyin Yapıldığı Tarih**  
Date of Test

: 28.05.2019

**Raporun Sayfa Sayısı**  
Number of Pages of the Report

:16

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.

International Accreditation Service, Inc. (IAS) deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği(EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.  
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Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri ( olması halinde ) ve deney metotları bu sertifikanın 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.

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.



**Deney Sorumlusu**  
Person in charge of test

Gürhan CANSIZ

**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	: BAYLED
Modeli / Model	: SIRUS L 300 W
Seri Numarası / Serial Number	: Test Numunesi Test sample
Beyan Gücü / Rated Power	: 300 W
Beyan Gerilimi / Rated Voltage	: 100-240 VAC
Sembollerin Tanımı / Definitions of Symbols	DGC= Deneyden Geçen Cihaz EUT=Equipment Under Test

Çevre Şartları / Environmental Conditions	
Sıcaklık (°C) (Temperature)	25 °C ±1
Nem (Rh) (Humidity)	%45 ±10
Stabilizasyon (Stabilization)	1 hour ±5min



Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.

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**1.2 Deney Standartları (Test Standards)**

Deneyler aşağıdaki standartlara göre yapılmıştır (The tests were performed according to following standards):

**Standart / Standard**

- IES LM-82-12
- IES LM-79-08

**1.3 Deney Ekipmanları (Test Equipments)****Kayıt No. (ID – No.)**LAB-011  
LAB-015  
LAB-027  
LAB-012  
LAB-007  
LAB-023**Tip (Type)**Goniophotometer  
AC Power Supply  
Powermeter  
Integrating Sphere  
Accelerated Aging Lifetime Test  
System  
Standart Lamp**Kontrol (Check Point)**  
  
  
  
  
  
**1.3 Komponent listesi (Component list)**

Komponent (Component)	Üretici (Manufacturer)	Model (Model)	Standart no. (Standart No.)	Sertifika no. (Certificate No.)
LED	NICHIA	NF2W757GRT-V1	-	-
DRİVER	MEANWELL	HLG-320H-54A	-	-
PCB	LIMBUS	TLS-12NI-HBL-60	-	-



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**1.4 25°C Oda Sıcaklığında ilk ölçüm (Room Temperature Initial Measurement Test at 25°C)**

Unit	Room Temperature Initial Measurement Test at 25°C
Aktif Güç <i>Electric Power <math>P_o</math> (W)</i>	293,9
Gerilim <i>Voltage (V)</i>	240,1
Akım <i>Current (A)</i>	1,247
Işık Akısı <i>Luminous Flux <math>\Phi_o</math> (lm)</i>	34377,5
Verimlilik <i>Luminous efficacy (lm/w)</i>	116,98
CIE Koordinatları <i>CIE Coordinate <math>x_o</math></i>	0,3171
CIE Koordinatları <i>CIE Coordinate <math>y_o</math></i>	0,3380
CCTi (K)	6225
Tb	43,5
Tsp	76,9
Tc LED Driver	61,4



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**1.4**  $T_{b,0}+25^{\circ}\text{C}$  Oda Sıcaklığında ilk ölçüm (Room Temperature Initial Measurement Test at  $T_{b,0}+25^{\circ}\text{C}$  )

Unit	Room Temperature Initial Measurement Test at $T_{b,0}+25^{\circ}\text{C}$
Aktif Güç <i>Electric Power <math>P_0</math> (W)</i>	286,7
Gerilim <i>Voltage (V)</i>	240
Akım <i>Current (A)</i>	1,222
Işık Akısı <i>Luminous Flux <math>\Phi_0</math> (lm)</i>	31570,34
Verimlilik <i>Luminous efficacy (lm/w)</i>	110,11
CIE Koordinatları <i>CIE Coordinate <math>x_0</math></i>	0,2912
CIE Koordinatları <i>CIE Coordinate <math>y_0</math></i>	0,3103
CCTi (K)	6219
Tb	68,5
Tsp	101,5
Tc LED Driver	82,5





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**2 Deney Sonuçları (Test Results)**

**Electrical Measurements**

<b>Aktif güç (W)(active power)</b>	293,9
<b>Ortalama Gerilim (V)(Average Voltage)</b>	240,1
<b>Ortalama AC Akım (mA)(Average AC Current)</b>	1,247
<b>Güç Faktörü (PF)(Power Factor)</b>	0,9818
<b>Frekans (Hz)(Frequency)</b>	50
<b>Ortam Sıcaklığı (°C)(Ambient Temperature)</b>	25,1 °C 49% Rh

**Photometric Results**

<b>Işık Akısı (Luminous Flux)</b>	34377,5
<b>Maksimum Işık Şiddeti (Peak Intensity)</b>	31037
<b>Verimlilik (Luminous efficacy)</b>	116,98



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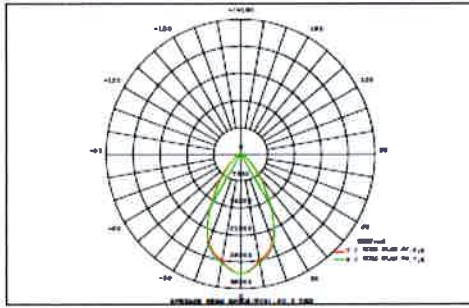
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2 Deney Sonuçları (Test Results)



DATA OF LAMP		Eff:116.98lm/W	
MODEL	SIRUS L	Imax (cd)	31037
NOMINAL POWER(W)	298	AVAILABILITY (%)	90.6
RATED VOLTAGE(V)	240	Avai. FLUX(lm)	31145
NOMINAL FLUX(lm)	34377.5	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	34377
TEST VOLTAGE (V)	240.0	θ @50% (H,V)	61,60DEG

AREA FLUX DIAGRAM																	UNIT:lm		φ t	φ a	
90	0.01	0.06	0.17	0.32	0.50	0.69	0.88	1.09	1.26	1.26	1.09	0.88	0.69	0.50	0.32	0.17	0.06	0.01	9.94	0.00	
80	0.03	0.32	1.10	2.43	4.28	6.45	8.71	11.2	13.5	13.5	11.2	8.71	6.45	4.28	2.43	1.10	0.32	0.03	96.1	0.00	
70	0.06	0.76	2.76	6.33	11.2	16.9	22.8	27.4	30.9	30.9	27.4	22.8	16.9	11.2	6.33	2.76	0.76	0.06	238	0.00	
60	0.11	1.32	4.95	11.3	20.4	33.3	47.7	58.2	64.5	64.5	58.2	47.7	33.3	20.4	11.3	4.95	1.32	0.11	483	0.00	
50	0.16	1.95	7.29	17.1	34.4	63.3	98.5	127	144	144	127	98.5	63.3	34.4	17.1	7.29	1.95	0.16	987	693	
40	0.20	2.56	9.51	24.0	55.0	110	187	265	318	318	265	187	110	55.0	24.0	9.51	2.56	0.20	1942	1776	
30	0.24	3.08	11.5	31.7	80.0	172	318	485	597	597	485	318	172	80.0	31.7	11.5	3.08	0.24	3397	3274	
	0.27	3.45	13.0	38.1	104	240	467	686	797	797	686	467	240	104	38.1	13.0	3.45	0.27	4697	4591	
	0.29	3.65	13.8	41.9	119	285	551	770	885	885	770	551	285	119	41.9	13.8	3.65	0.29	5338	5239	
	0.29	3.65	13.8	41.9	119	285	551	770	885	885	770	551	285	119	41.9	13.8	3.65	0.29	5338	5239	
	0.27	3.45	13.0	38.1	104	240	467	686	797	797	686	467	240	104	38.1	13.0	3.45	0.27	4697	4591	
	0.24	3.08	11.5	31.7	80.0	172	318	485	597	597	485	318	172	80.0	31.7	11.5	3.08	0.24	3397	3274	
-30	0.20	2.56	9.51	24.0	55.0	110	187	265	318	318	265	187	110	55.0	24.0	9.51	2.56	0.20	1942	1776	
-40	0.16	1.95	7.29	17.1	34.4	63.3	98.5	127	144	144	127	98.5	63.3	34.4	17.1	7.29	1.95	0.16	987	693	
-50	0.11	1.32	4.95	11.3	20.4	33.3	47.7	58.2	64.5	64.5	58.2	47.7	33.3	20.4	11.3	4.95	1.32	0.11	483	0.00	
-60	0.06	0.76	2.76	6.33	11.2	16.9	22.8	27.4	30.9	30.9	27.4	22.8	16.9	11.2	6.33	2.76	0.76	0.06	238	0.00	
-70	0.03	0.32	1.10	2.43	4.28	6.45	8.71	11.2	13.5	13.5	11.2	8.71	6.45	4.28	2.43	1.10	0.32	0.03	96.1	0.00	
-80	0.01	0.06	0.17	0.32	0.50	0.69	0.88	1.09	1.26	1.26	1.09	0.88	0.69	0.50	0.32	0.17	0.06	0.01	9.94	0.00	
-90																					
	φ t	2.75	34.3	128	346	856	1854	3400	4862	5704	5704	4862	3400	1854	856	346	128	34.3	2.75	34377	---
	φ a	0.00	0.00	0.00	25.2	598	1633	3191	4644	5482	5482	4644	3191	1633	598	25.2	0.00	0.00	0.00	---	31145

one-half-peak spread: U:28.5, D:28.5, E:30.5, R:30.5

NEMA Beam Type: Type 6



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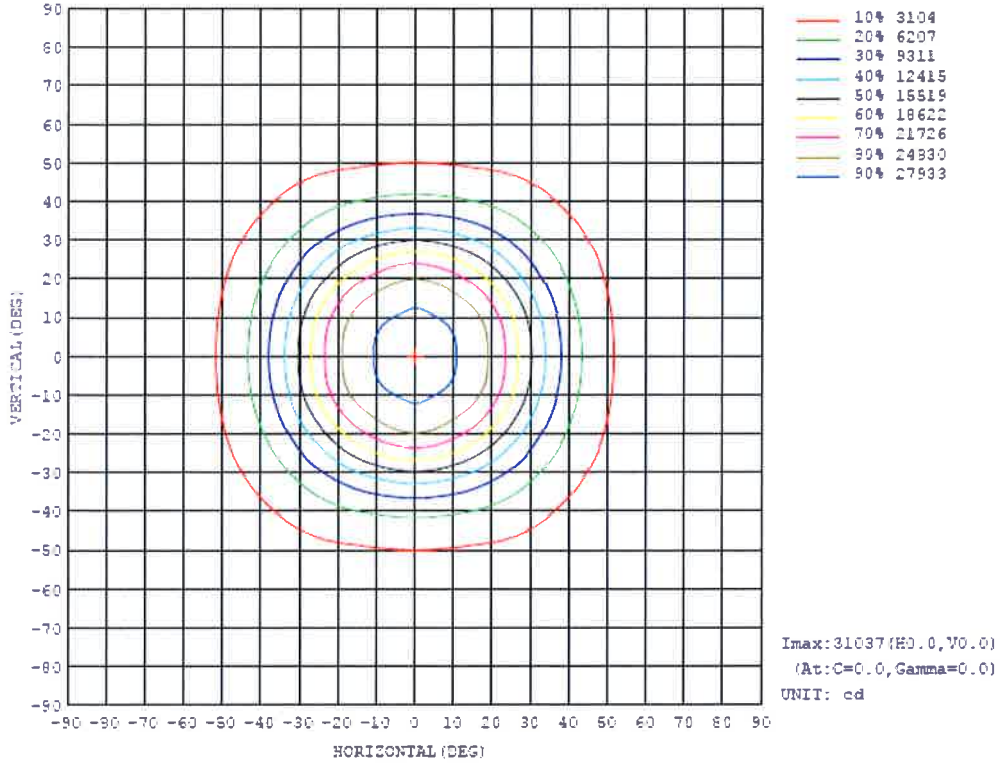
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**2 Deney Sonuçları (Test Results)**

**ISOCANDELA DIAGRAM**



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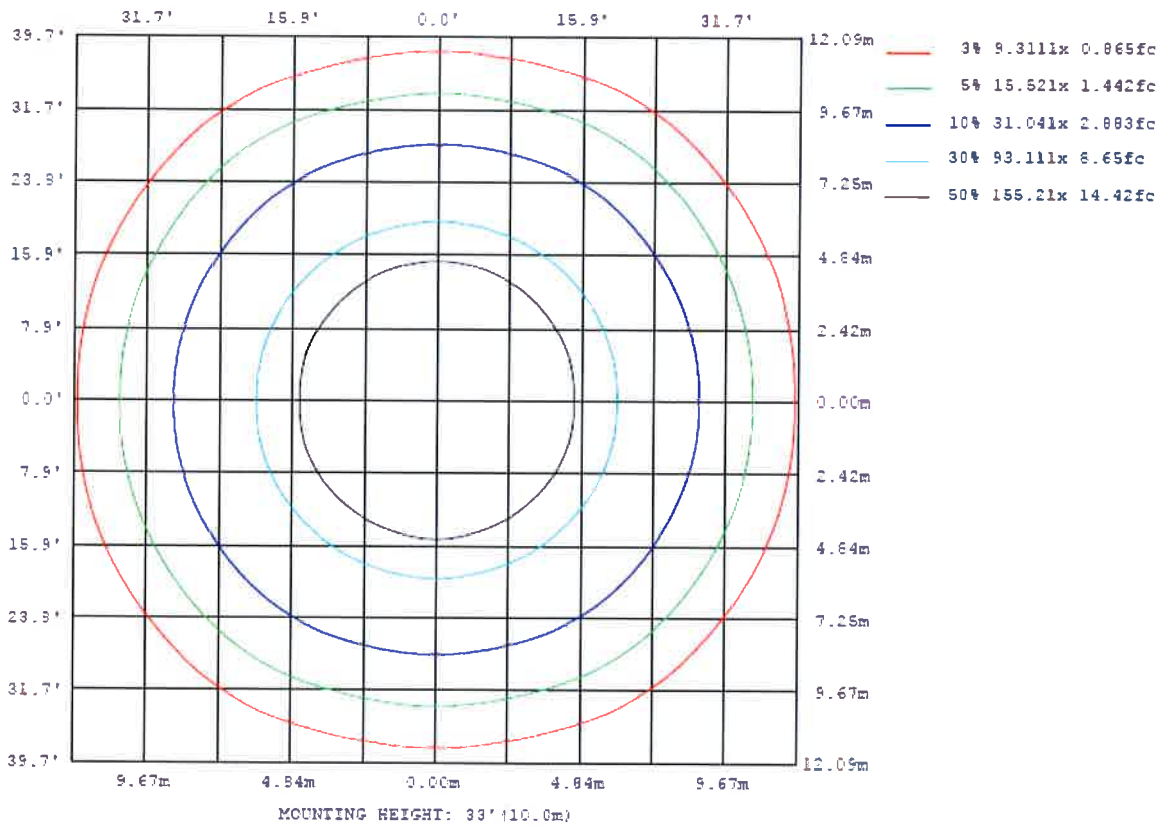
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**2 Deney Sonuçları (Test Results)**

**ISOLUX DIAGRAM**



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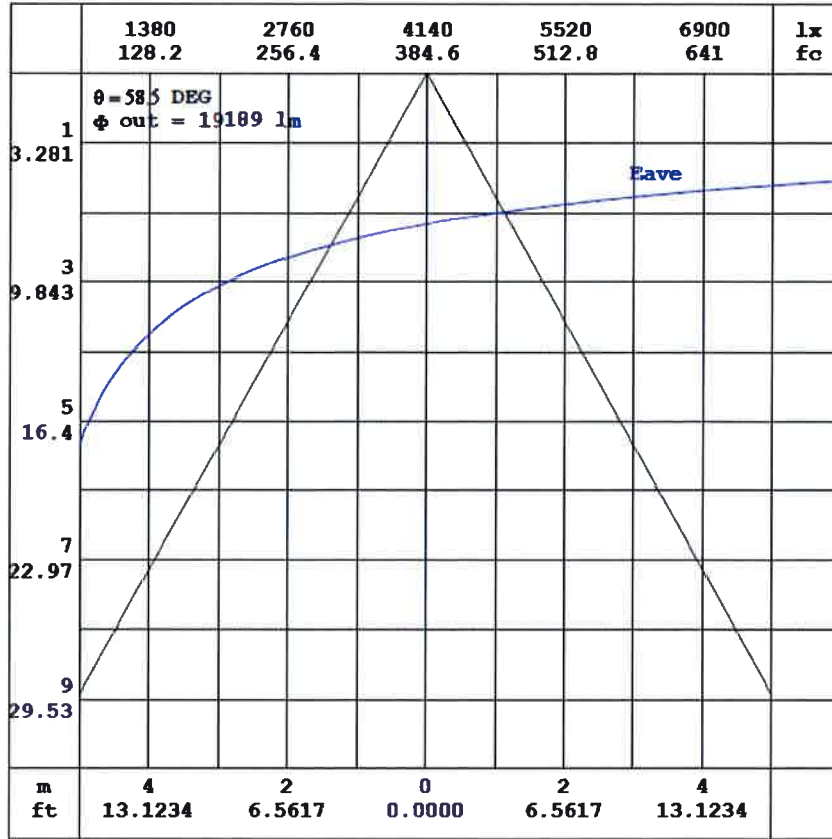
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2 **Deney Sonuçları (Test Results)**

**AAI CURVES**



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



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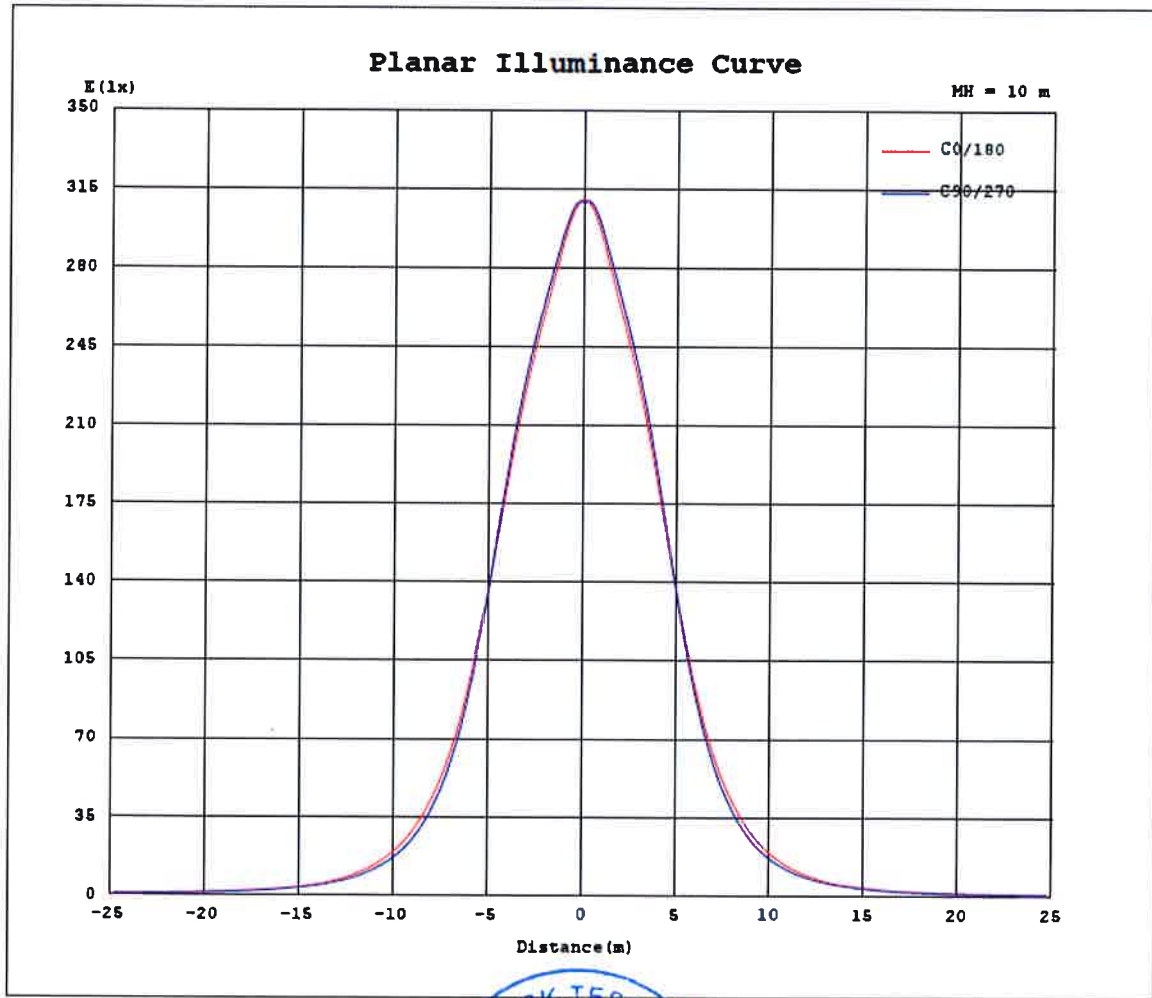
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**Deney Sonuçları (Test Results)**

**Planar Illuminance Curve**



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**2 Deney Sonuçları (Test Results)**

<b>Aktif güç (W)(active power)</b>	293,9
<b>Ortalama Gerilim (V)(Average Voltage)</b>	240,1
<b>Ortalama AC Akım (mA)(Average AC Current)</b>	1,247
<b>Güç Faktörü (PF)(Power Factor)</b>	0,9818
<b>Frekans (Hz)(Frequency)</b>	50
<b>Ortam Sıcaklığı (°C)(Ambient Temperature)</b>	25.1 °C 49% Rh

**Spectrocolorimetric Results**

<b>Chrom x</b>	0,3171
<b>Chrom y</b>	0,3380
<b>Duv</b>	0,0056
<b>Chrom u'</b>	0,1975
<b>Chrom v'</b>	0,4737
<b>Peak</b>	448nm
<b>Dominant</b>	495 nm
<b>CCT</b>	6225 K
<b>Nominal CCT</b>	6000 K
<b>Ra(CRI)</b>	74
<b>R9</b>	-27
<b>S/P Ratio</b>	2,0
<b>Preburning time</b>	1 hr
<b>Test Configuration</b>	4π



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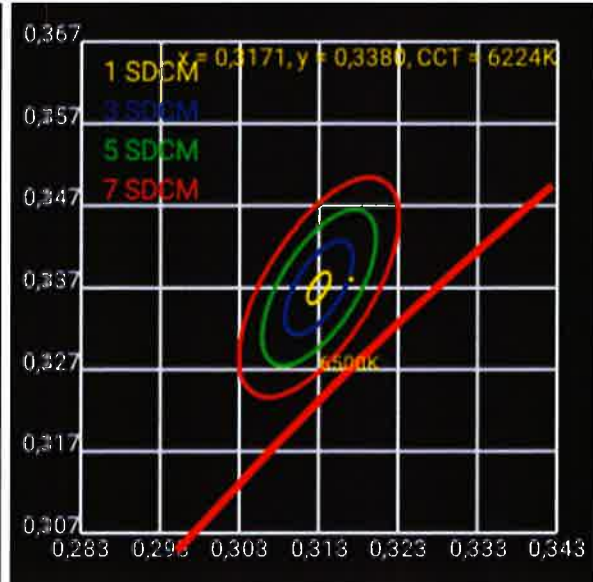
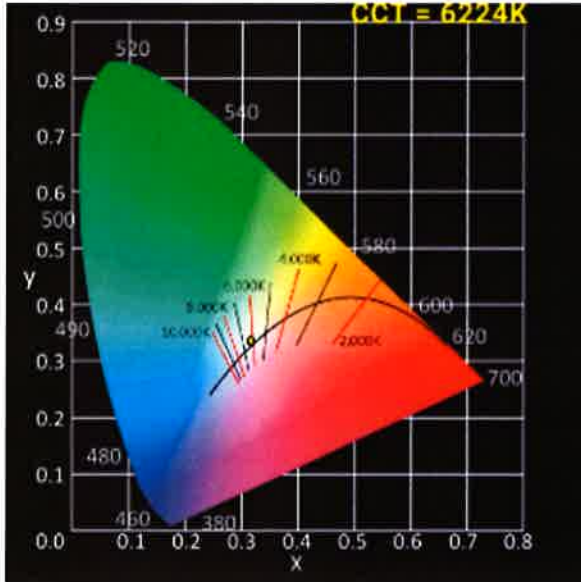
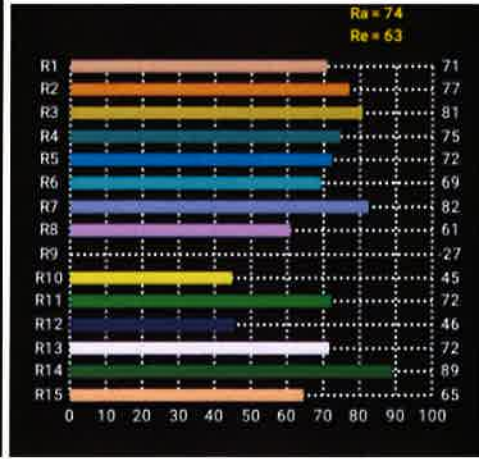
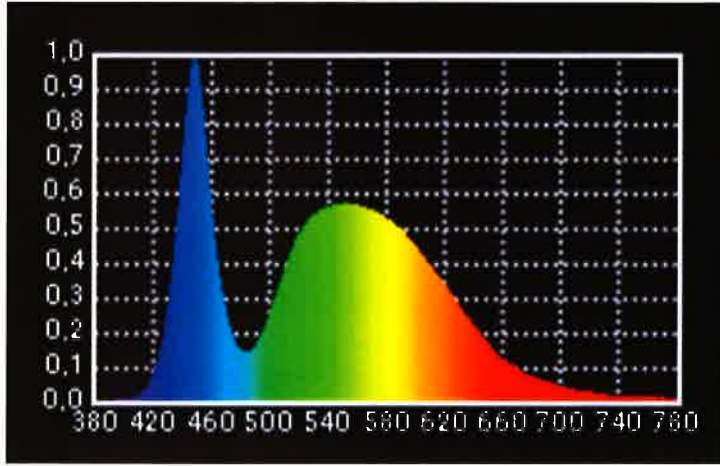
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**Deney Sonuçları (Test Results)**



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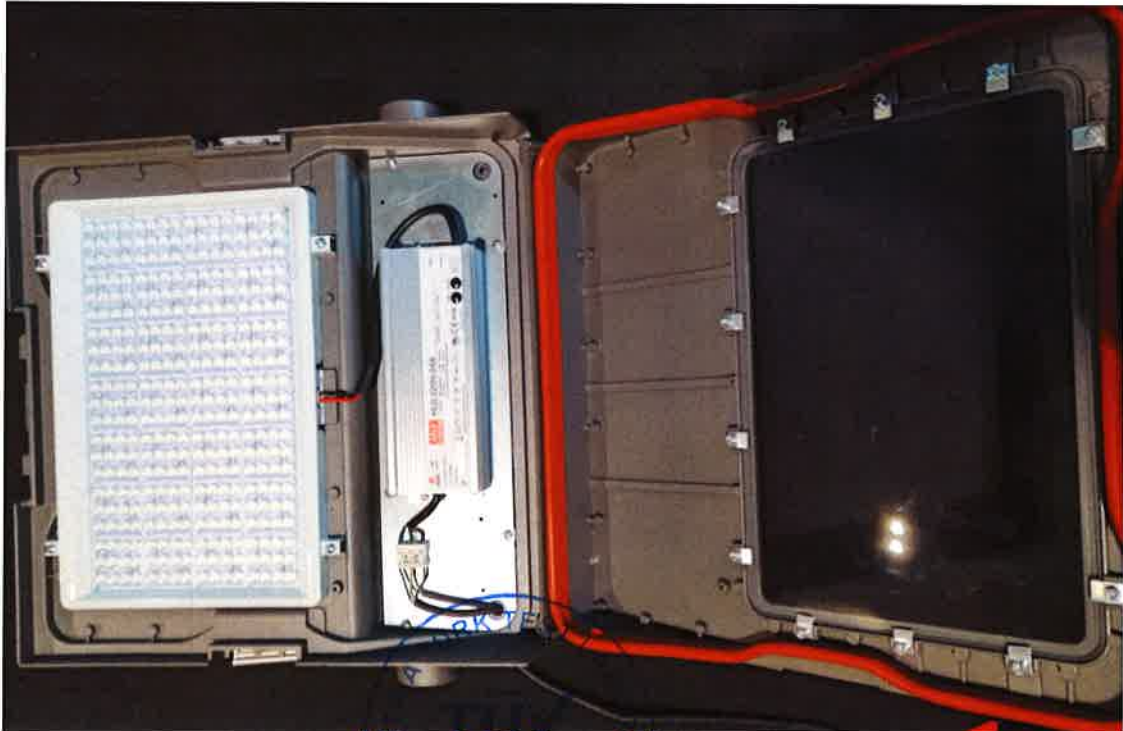
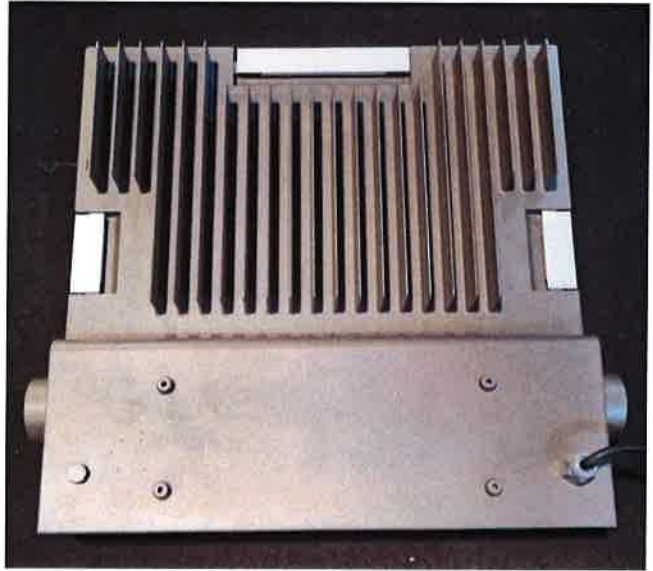
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**3.1 DGC'nin Fotoğrafları (Photos of EUT)**



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3.1 DGC'nin Fotoğrafları (Photos of EUT)

