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**ÖLÇÜM RAPORU**  
MEASUREMENT REPORT

TL-806

19-TST-0045-51

03-19

**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 M 150W PROJEKTÖR  
SIRUS M 150W FLOODLIGHT

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

: **07.03.2019**

**Açıklamalar**  
Remarks

: DGC'ye , IES LM-79-08 standardı uyarınca fotometrik ölçümler yapılmıştır.  
Photometric measurement has been applied to EUT according to IESNA LM-79-08

**Deneyin Yapıldığı Tarih**  
Date of Test

: **18.03.2019**

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

: 14

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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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)

<b>Markası / Brand</b>	:BAYLED
<b>Modeli / Model</b>	:SIRUS M 150 W
<b>Seri Numarası / Serial Number</b>	: Test Numunesi Test Sample
<b>Beyan Gücü / Rated Power</b>	: 150 W
<b>Beyan Gerilimi / Rated Voltage</b>	: 100-240 VAC
<b>Sembollerin Tanımı / Definitions of Symbols</b>	DGC= Deneden Geçen Cihaz EUT=Equipment Under Test



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**1.2 Deneş Standartları (Test Standards)**

Deneşler ařağıdaki standartlara göre yapılmıřtır (The tests were performed according to following standards):

**Standart / Standard**

- IESNA LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products

**1.3 Deneş Ekipmanları (Test Equipments)**

Kayıt No. (ID – No.)	Tip (Type)	Kalibrasyon Tarihi (Calibration Date)	Sonraki Kalibrasyon Tarihi (Next Calibration Date)	Kontrol (Check Point)
LAB-011	Goniophotometer	09.01.2019	09.01.2020	<input checked="" type="checkbox"/>
LAB-015	AC Power Supply	05.06.2018	05.06.2019	<input checked="" type="checkbox"/>
LAB-027	Powermeter	09.01.2019	09.01.2020	<input checked="" type="checkbox"/>
LAB-023	Standart Lamp	09.01.2019	09.01.2020	<input checked="" type="checkbox"/>
LAB-012	Integrating sphere	28.05.2018	28.05.2019	<input checked="" type="checkbox"/>

**1.3 Komponent listesi (Component list)**

Komponent (Components)	Üretici (Manufacturer)	Model (Model)	Standart no. (Standart No.)	Sertifika no. (Certificate No.)
LED	NICHIA	NF2W757GRT-V1	-	-
DRİVER	MEANWELL	HLG-185H-C1050A	-	-
PCB	LIMBUS	PLS-12NI-UPL-ASYM	-	-

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**1.4 Deney Sonuçları ( Test Results)**

**Elektriksel Ölçümler**

(Electrical Measurements)

<b>Ölçülen Güç (W)</b> (Input Power)	146,9
<b>Ölçülen Gerilim (V)</b> (Input Voltage)	240,1
<b>Ölçülen Akım (A)</b> (Input Current)	0,6444
<b>Güç Faktörü (PF)</b> (Power Factor)	0,9491
<b>Ölçülen Frekans (Hz)</b> (Input Frequency)	50
<b>Ortam Sıcaklığı / Bağıl Nem</b> (Ambient Temperature / Relative Humidity)	25,1 °C 49% Rh
<b>Stabilizasyon Süresi</b> (Stabilization Time)	60min± 5min

**Fotometrik Ölçüm Sonuçları**

(Photometric Measurement Results)

<b>Toplam Işık Akısı</b> (Total Luminous Flux) (lm)	19079,6
<b>Maksimum Işık Şiddeti</b> (Max. Light Intensity) (cd)	8840
<b>Armatür Etkinliği</b> (Luminaire Efficacy) (lm/W)	129,92



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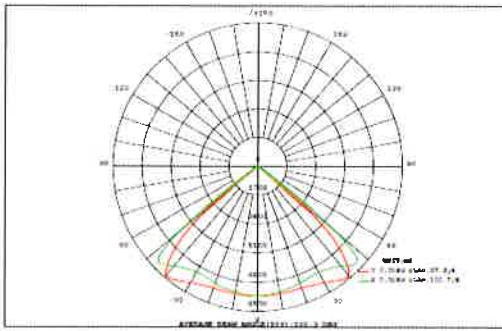
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2 Fotometrik Deney Sonuçları (Photometric Test Results)



DATA OF LAMP		Eff:129.92lm/W	
MODEL	SIRUS M	Imax (cd)	8840
NOMINAL POWER (W)	150	AVAILABILITY (%)	97.1
RATED VOLTAGE (V)	240	Avai. FLUX (lm)	18530
NOMINAL FLUX (lm)	19079.6	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	19079
TEST VOLTAGE (V)	240.1	θ @50% (H,V)	77,95DEG

AREA FLUX DIAGRAM																	UNIT: lm		φ t	φ a		
90	0.00	0.01	0.05	0.10	0.16	0.23	0.30	0.34	0.38	0.38	0.34	0.30	0.23	0.16	0.10	0.05	0.01	0.00	3.13	0.00		
80	0.00	0.07	0.25	0.56	1.01	1.54	2.02	2.48	3.01	3.01	2.48	2.02	1.54	1.01	0.56	0.25	0.07	0.00	21.9	0.00		
70	0.01	0.16	0.63	1.44	2.50	3.70	4.98	6.13	6.83	6.83	6.13	4.98	3.70	2.50	1.44	0.63	0.16	0.01	52.8	0.00		
60	0.02	0.28	1.12	2.49	4.35	7.51	20.1	39.4	47.4	47.4	39.4	20.1	7.51	4.35	2.49	1.12	0.28	0.02	246	165		
50	0.03	0.42	1.62	3.62	8.73	74.3	190	229	235	235	229	190	74.3	8.73	3.62	1.62	0.42	0.03	1485	1453		
40	0.04	0.56	2.07	4.74	41.4	186	230	226	225	225	226	230	186	41.4	4.74	2.07	0.56	0.04	1829	1805		
30	0.05	0.68	2.41	6.32	92.7	203	211	214	218	218	214	211	203	92.7	6.32	2.41	0.68	0.05	1898	1877		
20	0.06	0.77	2.65	9.44	124	201	208	216	224	224	216	208	201	124	9.44	2.65	0.77	0.06	1971	1953		
10	0.06	0.81	2.76	13.1	139	201	210	221	229	229	221	210	201	139	13.1	2.76	0.81	0.06	2032	2013		
0	0.06	0.81	2.76	13.1	139	201	210	221	229	229	221	210	201	139	13.1	2.76	0.81	0.06	2032	2013		
-10	0.06	0.77	2.65	9.44	124	201	208	216	224	224	216	208	201	124	9.44	2.65	0.77	0.06	1971	1953		
-20	0.05	0.68	2.41	6.32	92.7	203	211	214	218	218	214	211	203	92.7	6.32	2.41	0.68	0.05	1898	1877		
-30	0.04	0.56	2.07	4.74	41.4	186	230	226	225	225	226	230	186	41.4	4.74	2.07	0.56	0.04	1829	1805		
-40	0.03	0.42	1.62	3.62	8.73	74.3	190	229	235	235	229	190	74.3	8.73	3.62	1.62	0.42	0.03	1485	1453		
-50	0.02	0.28	1.12	2.49	4.35	7.51	20.1	39.4	47.4	47.4	39.4	20.1	7.51	4.35	2.49	1.12	0.28	0.02	246	165		
-60	0.01	0.16	0.63	1.44	2.50	3.70	4.98	6.13	6.83	6.83	6.13	4.98	3.70	2.50	1.44	0.63	0.16	0.01	52.8	0.00		
-70	0.00	0.07	0.25	0.56	1.01	1.54	2.02	2.48	3.01	3.01	2.48	2.02	1.54	1.01	0.56	0.25	0.07	0.00	21.9	0.00		
-80	0.00	0.01	0.05	0.10	0.16	0.23	0.30	0.34	0.38	0.38	0.34	0.30	0.23	0.16	0.10	0.05	0.01	0.00	3.13	0.00		
-90	0.00	0.01	0.05	0.10	0.16	0.23	0.30	0.34	0.38	0.38	0.34	0.30	0.23	0.16	0.10	0.05	0.01	0.00	3.13	0.00		
	φ t	0.55	7.52	27.1	83.7	829	1757	2151	2308	2375	2375	2308	2151	1757	829	83.7	27.1	7.52	0.55	19079	---	
	φ a	0.00	0.00	0.00	21.4	787	1725	2119	2275	2338	2338	2275	2119	1725	787	21.4	0.00	0.00	0.00	---	18530	---

one-half-peak spread: U:9.1,D:9.1 , L:11.2,R:11. NEMA Beam Type: Type 5 x 6 (H x V)



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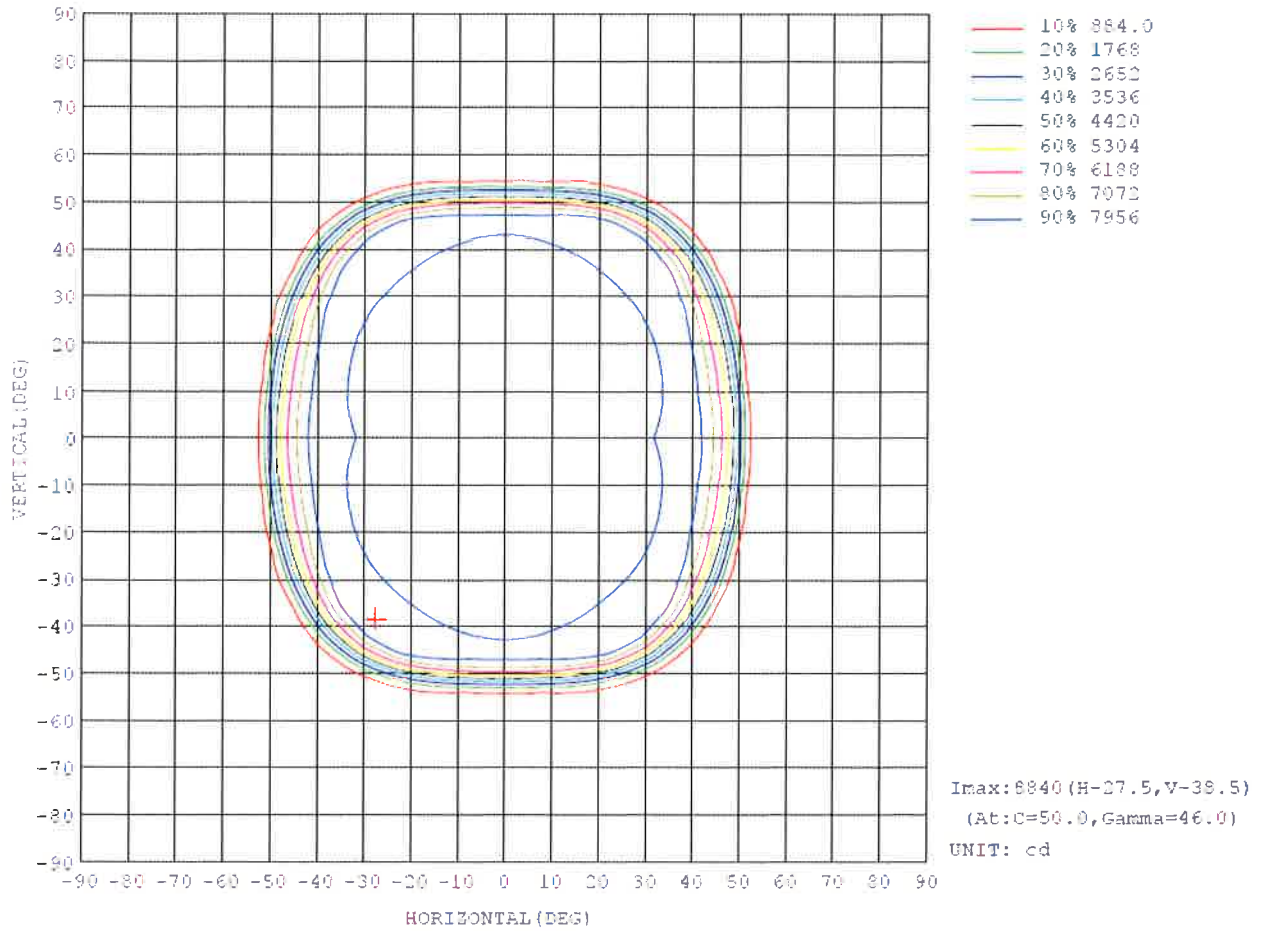
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**ISOCANDELA DIAGRAM**



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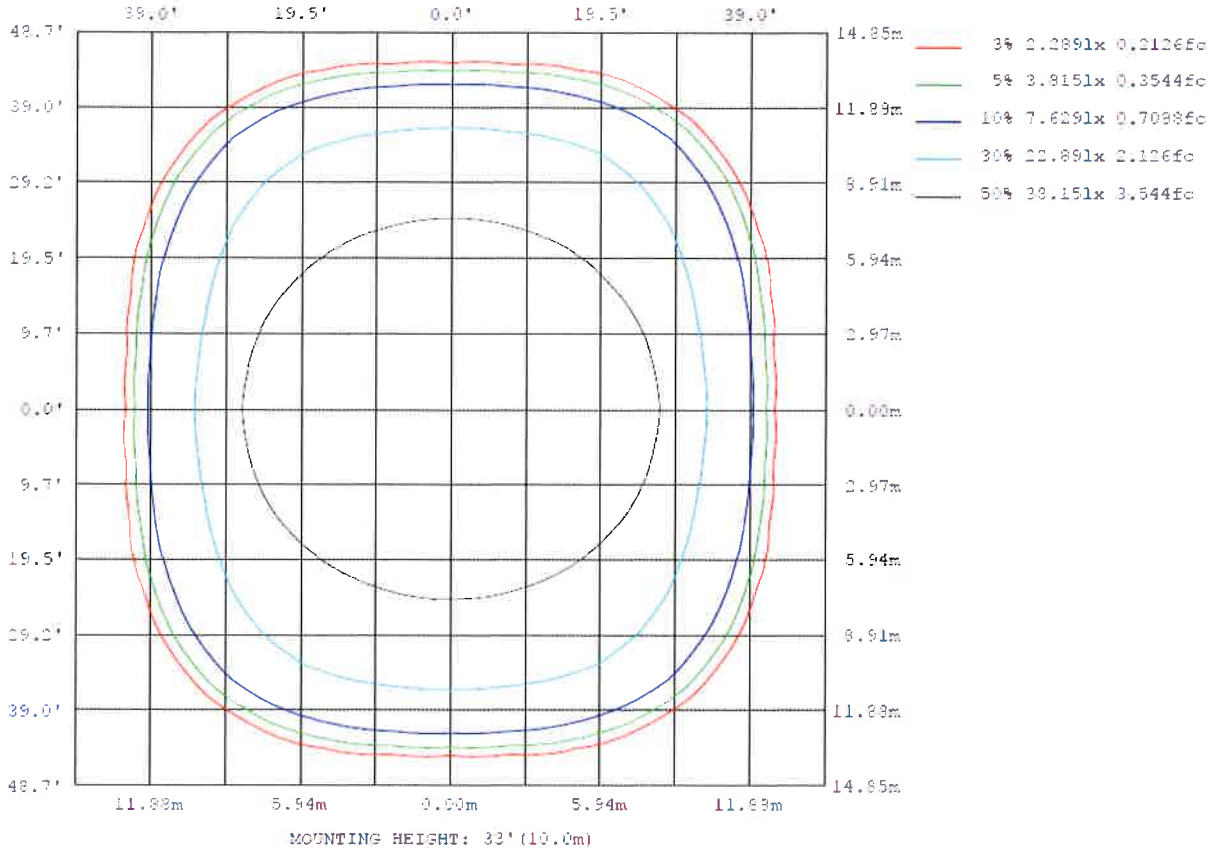
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**ISOLUX DIAGRAM**





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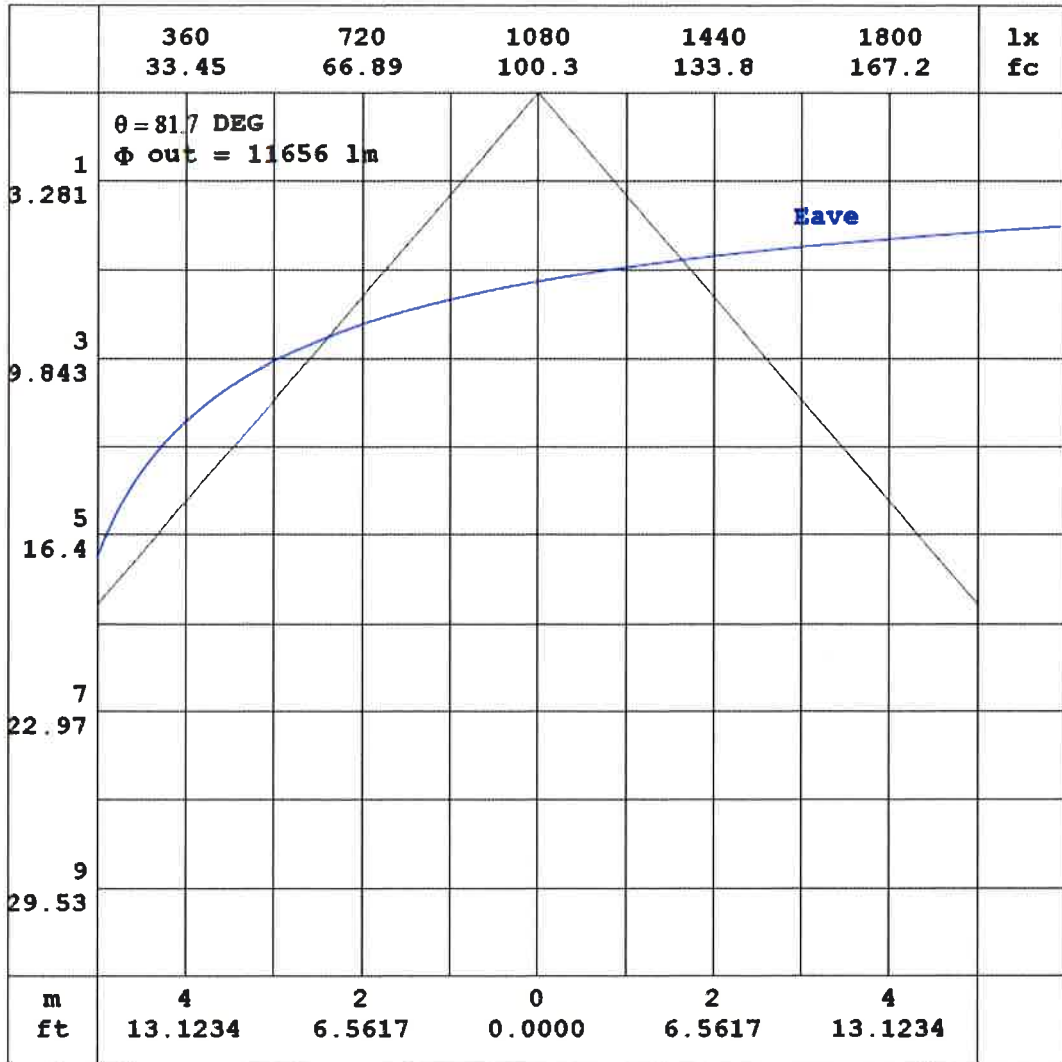
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)****AAI CURVES**

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

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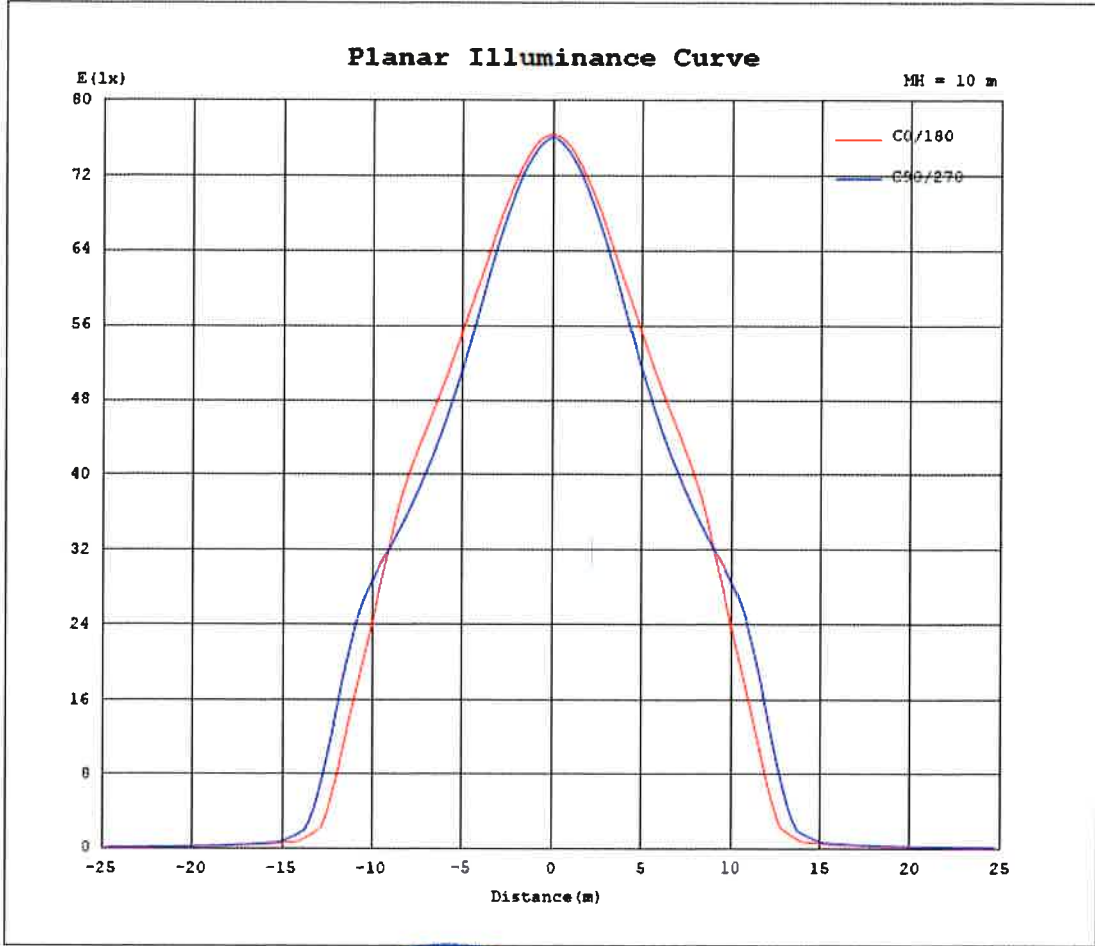
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**Planar Illuminance Curve**



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**2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results )****Elektriksel Ölçümler**

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	146,9
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	0,6444
Güç Faktörü (PF) (Power Factor)	0,9491
Ölçülen Frekans (Hz) (Input Frequency)	50
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25.1 °C 49% Rh
Stabilizasyon Süresi (Stabilization Time)	45 min ±5 min

**Spektrokolorimetrik Ölçüm Sonuçları**

(Spectrocolorimetric Measurement Results)

Chrom x	0,3191
Chrom y	0,3423
Duv	0,0068
Chrom u'	0,1973
Chrom v'	0,4762
Peak	450 nm
Dominant	500 nm
CCT	6105 K
Nominal CCT	6000 K
Ra(CRI)	76
R9	-28
S/P Ratio	2,1
Preburning time	1 hr
Test Configuration	4π



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

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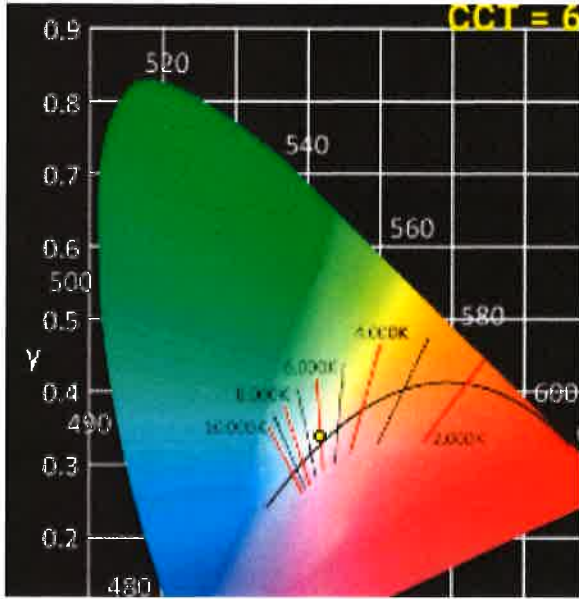
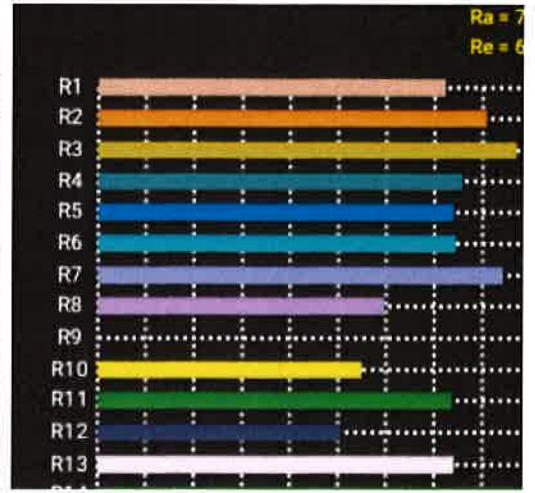
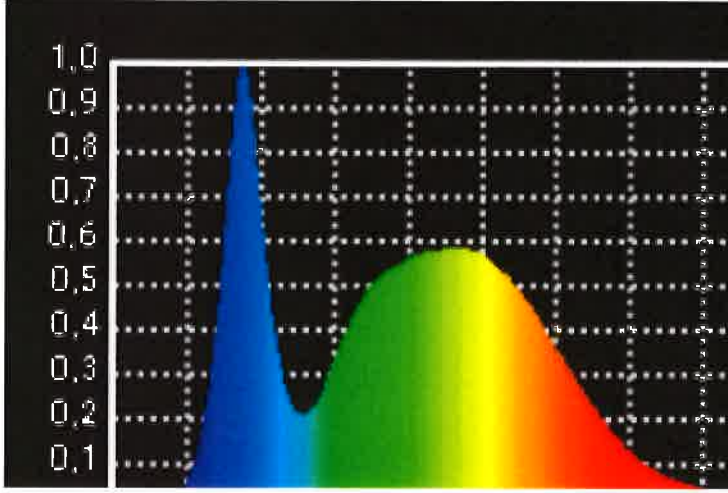
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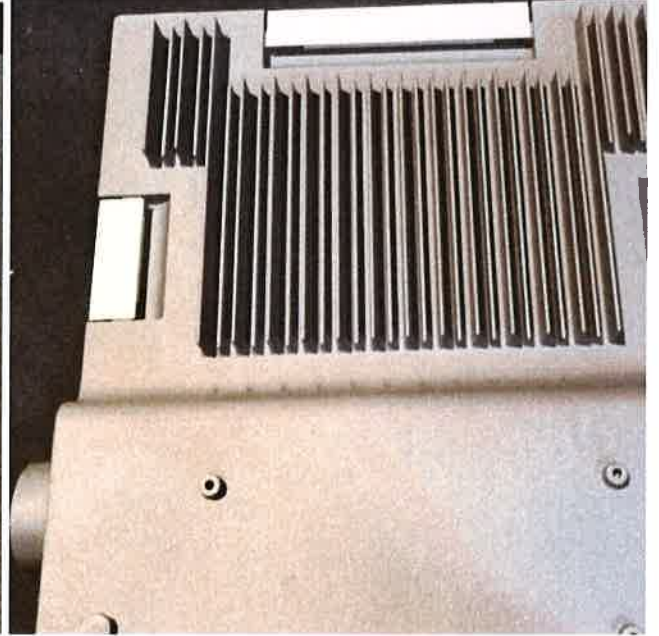
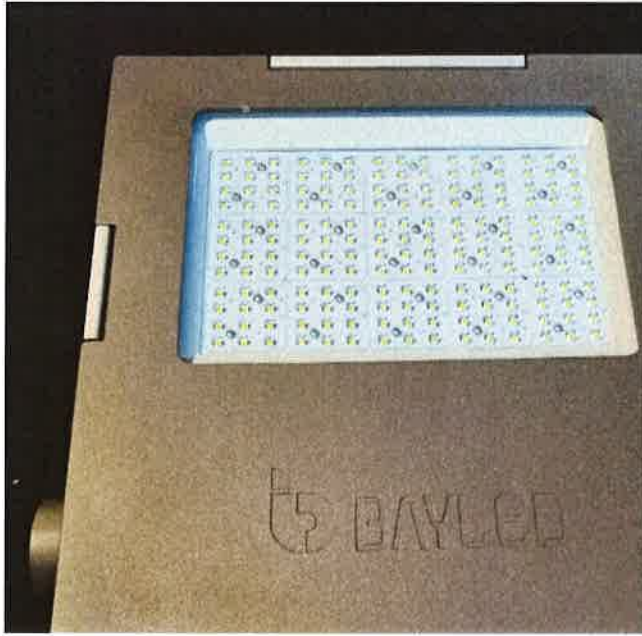
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**3.1 DGC'nin Fotoğrafları (Photos of EUT)**



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3.1 DGC'nin Fotoğrafları (Photos of EUT)

