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**ÖLÇÜM RAPORU**  
**MEASUREMENT REPORT**

TL-806

19-TST-0045-50

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

: TETRA PRV-5 PROJEKTÖR  
TETRA PRV-5 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

: **26.03.2019**

**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.

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

**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**

:BAYLED

**Modeli / Model**

: TETRA PRV-5

**Seri Numarası / Serial Number**

: Test Numunesi  
Test Sample

**Beyan Gücü / Rated Power**

: 575 W

**Beyan Gerilimi / Rated Voltage**

: 100-240 VAC

**Sembollerin Tanımı / Definitions of Symbols**

DGC= Deneyden Geçen Cihaz  
EUT=Equipment Under Test



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**1.2 DeneY Standartları (Test Standards)**

DeneYler 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 DeneY 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 Kompenent listesi (Component list)**

Kompenent (Component)	Üretici (Manufacturer)	Model (Model)	Standart no. (Standart No.)	Sertifika no. (Certificate No.)
LED	NICHIA	NF2W757GRT-V1	-	CE,UL
PCB	LIMBUS	TLS-12NI-HBL-60	-	-
DRIVER	MEANWELL	ELG-240-C1050A ELG-150-C700A		CE,UR



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**1.4 Deney Sonuçları ( Test Results)**

**Elektriksel Ölçümler**

(Electrical Measurements)

<b>Ölçülen Güç (W)</b> (Input Power)	554,8
<b>Ölçülen Gerilim (V)</b> (Input Voltage)	239,9
<b>Ölçülen Akım (A)</b> (Input Current)	2,353
<b>Güç Faktörü (PF)</b> (Power Factor)	0,9825
<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)	42767,8
<b>Maksimum Işık Şiddeti</b> (Max. Light Intensity) (cd)	34074
<b>Armatür Etkinliği</b> (Luminaire Efficacy) (lm/W)	77,09



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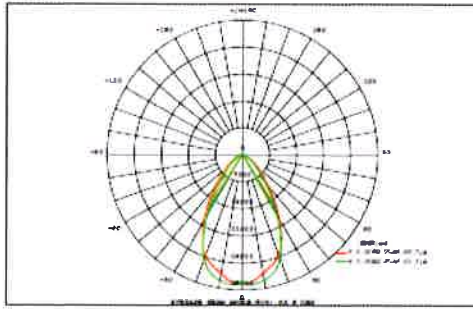
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**



DATA OF LAMP		Eff:77.09lm/W	
MODEL	TETRA PRV 5	I <sub>max</sub> (cd)	34074
NOMINAL POWER (W)	556	AVAILABILITY (%)	92.0
RATED VOLTAGE (V)	240	Avai. FLUX (lm)	39342
NOMINAL FLUX (lm)	42767.8	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	42767
TEST VOLTAGE (V)	240.0	θ @50% (H,V)	65,62DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		φ t	φ a
	0.01	0.05	0.15	0.31	0.60	1.01	1.41	1.74	1.95	1.95	1.74	1.41	1.01	0.60	0.31	0.15	0.05	0.01		
90	0.01	0.05	0.15	0.31	0.60	1.01	1.41	1.74	1.95	1.95	1.74	1.41	1.01	0.60	0.31	0.15	0.05	0.01	14.5	0.00
80	0.02	0.19	0.80	2.58	5.62	8.97	11.7	13.7	14.5	14.5	13.7	11.7	8.97	5.62	2.58	0.80	0.19	0.02	116	0.00
70	0.04	0.48	2.87	8.68	16.8	24.6	30.8	34.8	36.3	36.3	34.8	30.8	24.6	16.8	8.68	2.87	0.48	0.04	311	0.00
60	0.06	1.10	6.42	17.4	32.9	49.3	64.8	76.9	82.1	82.1	76.9	64.8	49.3	32.9	17.4	6.42	1.10	0.06	662	76.2
50	0.09	2.06	10.6	28.1	56.8	92.1	130	164	185	185	164	130	92.1	56.8	28.1	10.6	2.06	0.09	1337	1085
40	0.12	3.16	14.9	40.4	88.9	158	243	329	387	387	329	243	158	88.9	40.4	14.9	3.16	0.12	2527	2389
30	0.15	4.18	18.7	53.3	122	239	405	587	703	703	587	405	239	122	53.3	18.7	4.18	0.15	4264	4154
20	0.18	4.97	21.8	64.2	150	318	573	817	947	947	817	573	318	150	64.2	21.8	4.97	0.18	5791	5696
10	0.19	5.45	23.6	70.1	166	365	657	884	1008	1008	884	657	365	166	70.1	23.6	5.45	0.19	6359	6271
0	0.19	5.45	23.6	70.1	166	365	657	884	1008	1008	884	657	365	166	70.1	23.6	5.45	0.19	6359	6271
-10	0.18	4.97	21.8	64.2	150	318	573	817	947	947	817	573	318	150	64.2	21.8	4.97	0.18	5791	5696
-20	0.15	4.18	18.7	53.3	122	239	405	587	703	703	587	405	239	122	53.3	18.7	4.18	0.15	4264	4154
-30	0.12	3.16	14.9	40.4	88.9	158	243	329	387	387	329	243	158	88.9	40.4	14.9	3.16	0.12	2527	2389
-40	0.09	2.06	10.6	28.1	56.8	92.1	130	164	185	185	164	130	92.1	56.8	28.1	10.6	2.06	0.09	1337	1085
-50	0.06	1.10	6.42	17.4	32.9	49.3	64.8	76.9	82.1	82.1	76.9	64.8	49.3	32.9	17.4	6.42	1.10	0.06	662	76.2
-60	0.04	0.48	2.87	8.68	16.8	24.6	30.8	34.8	36.3	36.3	34.8	30.8	24.6	16.8	8.68	2.87	0.48	0.04	311	0.00
-70	0.02	0.19	0.80	2.58	5.62	8.97	11.7	13.7	14.5	14.5	13.7	11.7	8.97	5.62	2.58	0.80	0.19	0.02	116	0.00
-80	0.01	0.05	0.15	0.31	0.60	1.01	1.41	1.74	1.95	1.95	1.74	1.41	1.01	0.60	0.31	0.15	0.05	0.01	14.5	0.00
-90	0.01	0.05	0.15	0.31	0.60	1.01	1.41	1.74	1.95	1.95	1.74	1.41	1.01	0.60	0.31	0.15	0.05	0.01	14.5	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
φ t	1.71	43.3	200	570	1279	2512	4232	5816	6728	6728	5816	4232	2512	1279	570	200	43.3	1.71	42764	---
φ a	0.00	0.00	0.00	241	1044	2285	4006	5592	6503	6503	5592	4006	2285	1044	241	0.00	0.00	0.00	---	39342

one-half-peak spread: U:27.5,D:27.5 , L:30.6,R:30.6

NEMA Beam Type: Type 6



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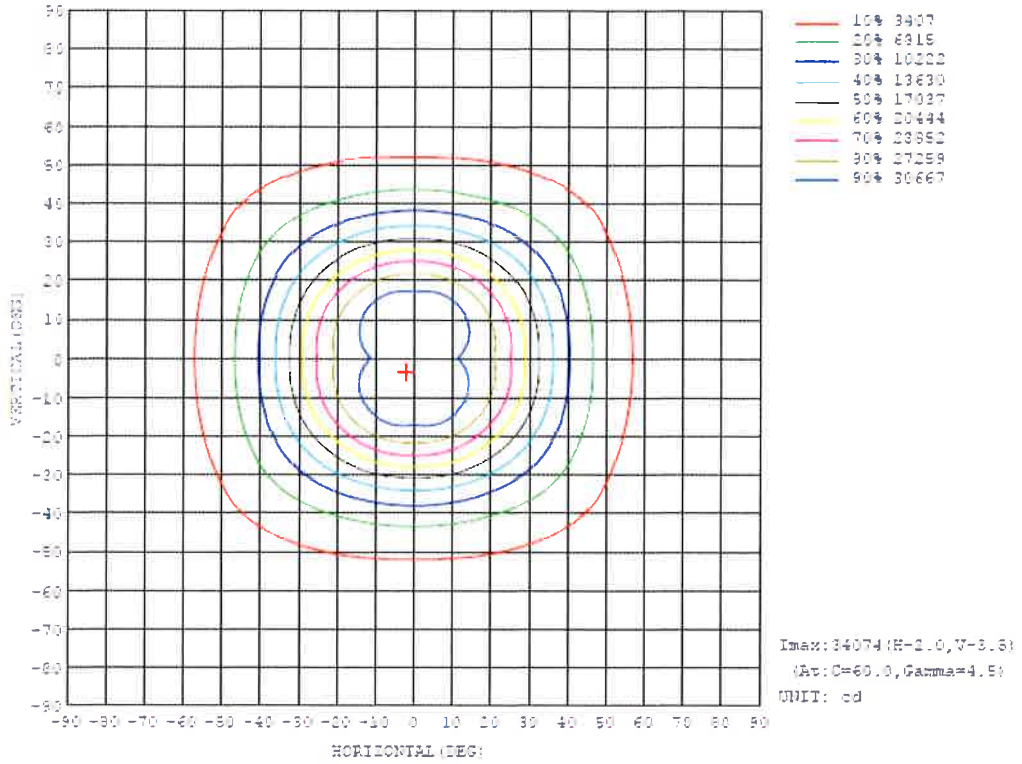
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**ISOCANDELA DIAGRAM**



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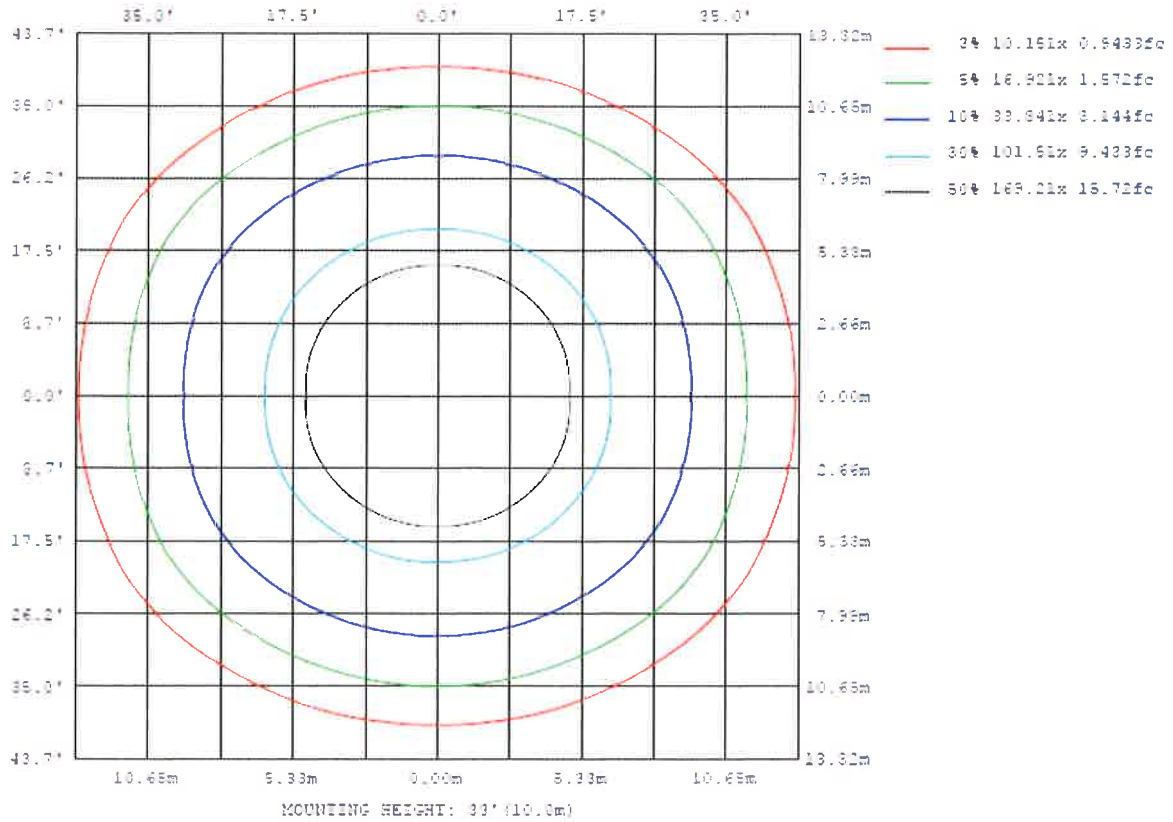
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**ISOLUX DIAGRAM**





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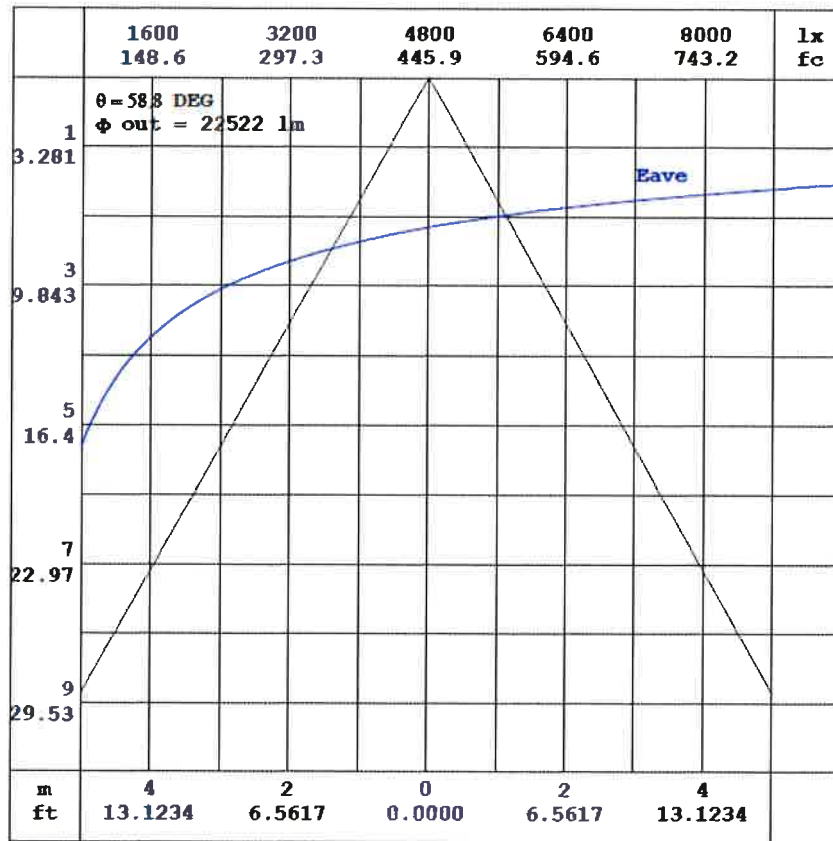
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)****AAI CURVES**

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



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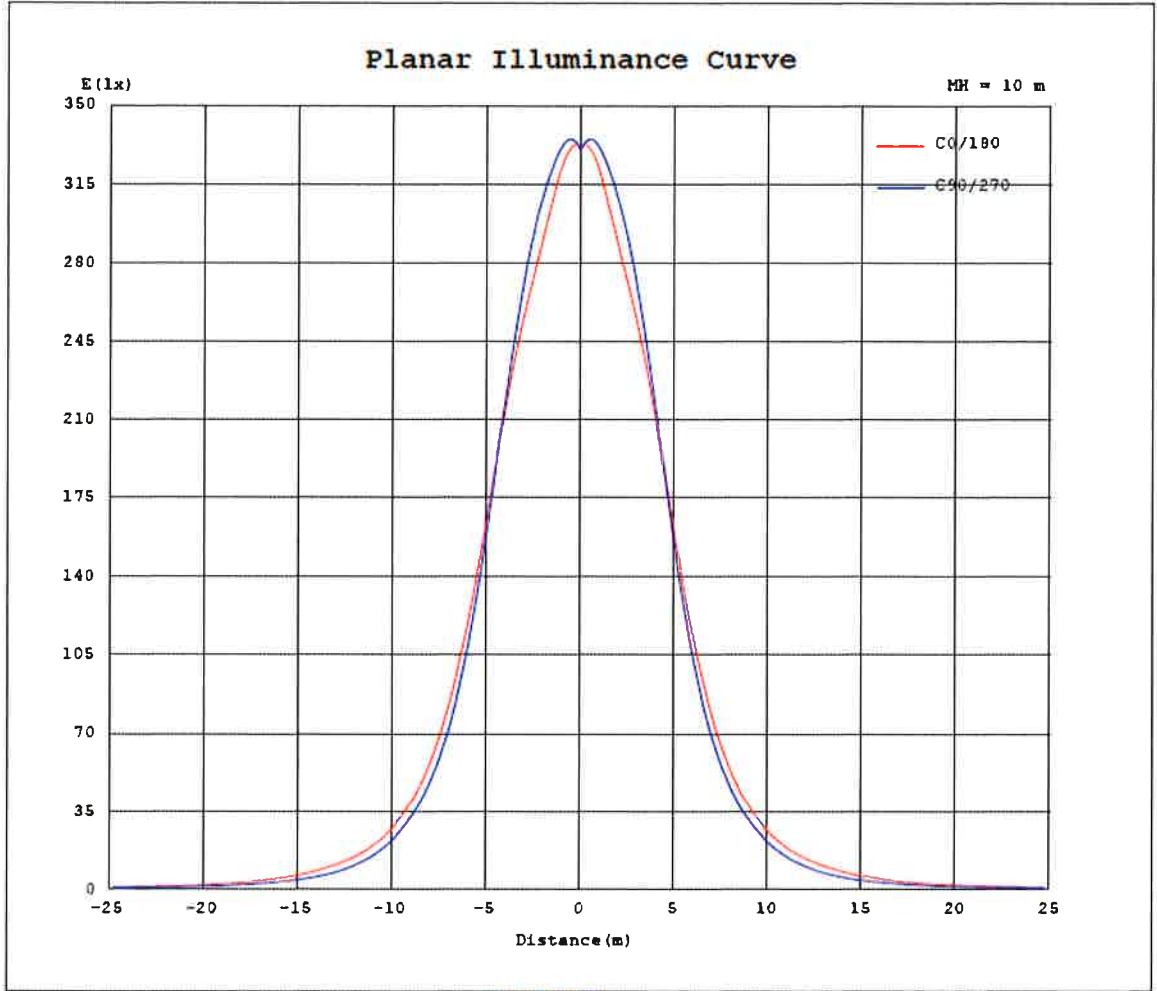
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**2 Fotometrik Deney Sonuçları (Photometric Test Results)**

**Planar Illuminance Curve**



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

<b>Ölçülen Güç (W)</b> (Input Power)	554,8
<b>Ölçülen Gerilim (V)</b> (Input Voltage)	239,9
<b>Ölçülen Akım (A)</b> (Input Current)	2,353
<b>Güç Faktörü (PF)</b> (Power Factor)	0,9825
<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)	45 min ±5 min

**Spektrokolorimetrik Ölçüm Sonuçları**  
(Spectrocolorimetric Measurement Results)

<b>Chrom x</b>	0,3185
<b>Chrom y</b>	0,3381
<b>Duv</b>	0,0049
<b>Chrom u'</b>	0,1985
<b>Chrom v'</b>	0,4740
<b>Peak</b>	452 nm
<b>Dominant</b>	496 nm
<b>CCT</b>	6153 K
<b>Nominal CCT</b>	6000 K
<b>Ra(CRI)</b>	83
<b>R9</b>	4
<b>S/P Ratio</b>	2,2
<b>Preburning time</b>	1 hr
<b>Test Configuration</b>	4π



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

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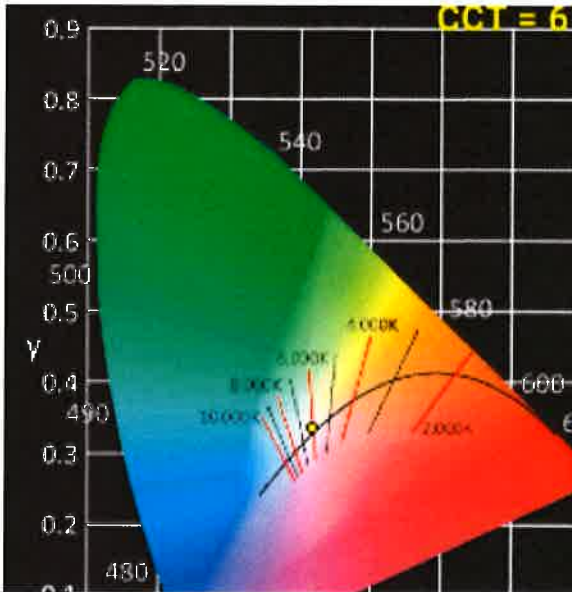
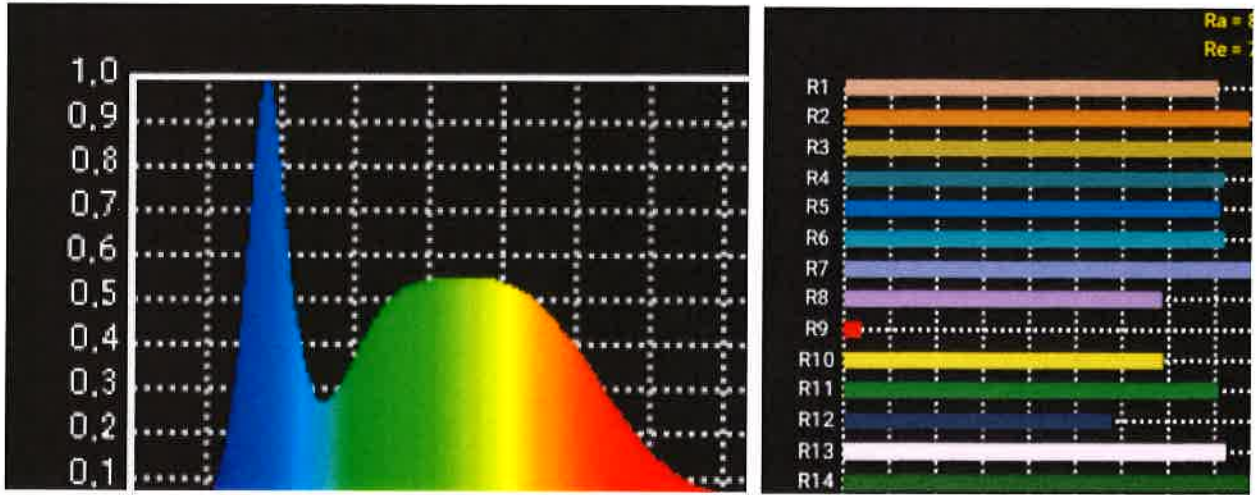
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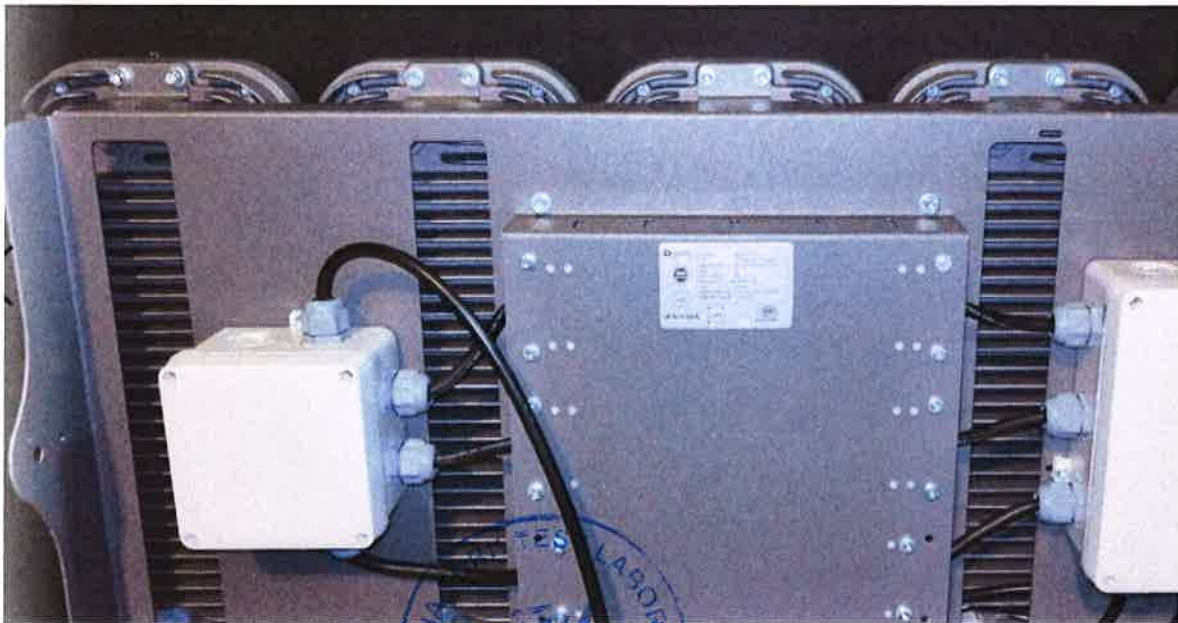
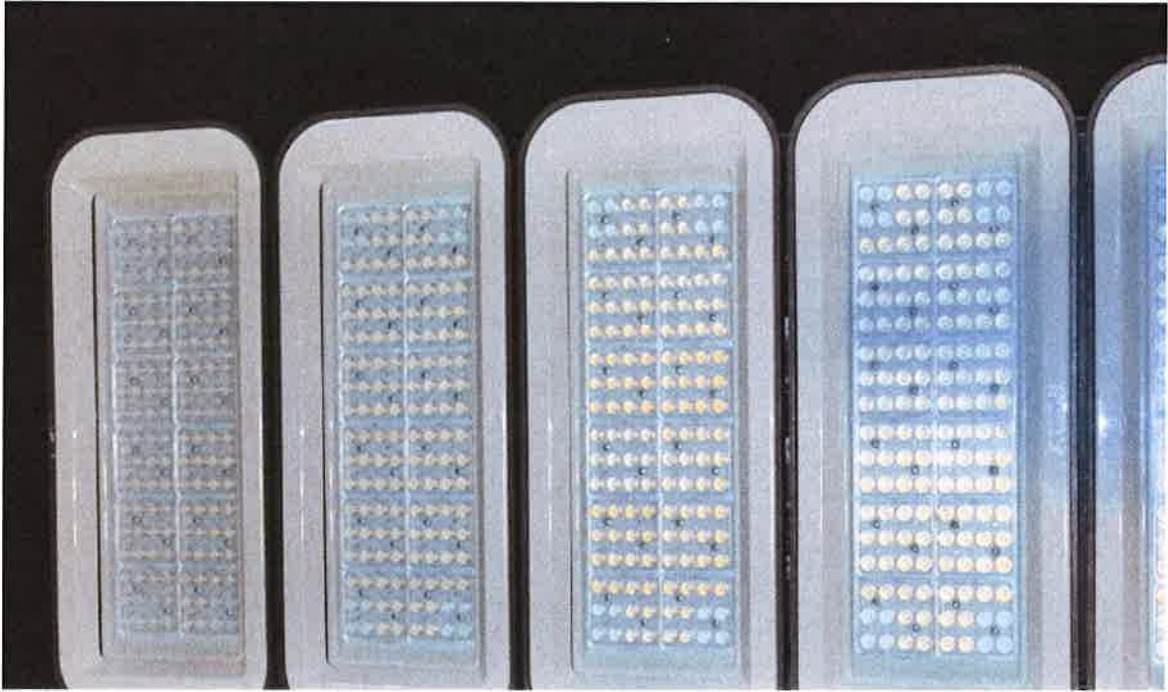
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**3.1 DGC'nin Fotoğrafları (Photos of EUT)**



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

