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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806
19-TST-0045- 130
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

: 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-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

: 30.05.2019

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.

Mühür ve Tarih
Seal and Date



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	: 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

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



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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.)	Tip (Type)	Kontrol (Check Point)
LAB-011	Goniophotometer	<input checked="" type="checkbox"/>
LAB-015	AC Power Supply	<input checked="" type="checkbox"/>
LAB-027	Powermeter	<input checked="" type="checkbox"/>
LAB-012	Integrating Sphere	<input checked="" type="checkbox"/>
LAB-007	Accelerated Aging Lifetime Test System	<input checked="" type="checkbox"/>
LAB-023	Standart Lamp	<input checked="" type="checkbox"/>

1.3 Komponent listesi (Component list)

Komponent (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	-	-
DRİVER	MEANWELL	ELG-240-C1050A ELG-150-C700A		CE,UR



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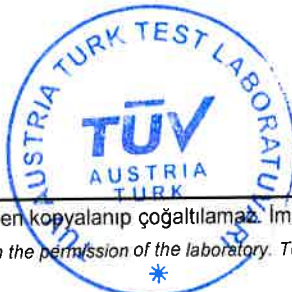
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1.4 25°C Oda Sıcaklığında ilk ölçüm (Room Temperature Initial Measurement Test at 25°C)

Unit	Room Temperature Initial Measurement Test at 25°C
Aktif Güç <i>Electric Power P_0 (W)</i>	554,8
Gerilim <i>Voltage (V)</i>	239,9
Akım <i>Current (A)</i>	2,353
Işık Akısı <i>Luminous Flux Φ_0 (lm)</i>	42767,8
Verimlilik <i>Luminous efficacy (lm/w)</i>	77,09
CIE Koordinatları <i>CIE Coordinate x_0</i>	0,3185
CIE Koordinatları <i>CIE Coordinate y_0</i>	0,3381
CCTi (K)	6153
Tb	59,7
Tsp	80,9
Tc LED Driver	57,4



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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 P_0 (W)</i>	544,6
Gerilim <i>Voltage (V)</i>	239,9
Akım <i>Current (A)</i>	2,322
Işık Akısı <i>Luminous Flux Φ_0 (lm)</i>	38677,5
Verimlilik <i>Luminous efficacy (lm/w)</i>	71,02
CIE Koordinatları <i>CIE Coordinate x_0</i>	0,3092
CIE Koordinatları <i>CIE Coordinate y_0</i>	0,3374
CCTi (K)	6146
Tb	84,7
Tsp	112,6
Tc LED Driver	87,8



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2 Deney Sonuçları (Test Results)**Electrical Measurements**

Aktif güç (W) (active power)	554,8
Ortalama Gerilim (V) (Average Voltage)	239,9
Ortalama AC Akım (A) (Average AC Current)	2,353
Güç Faktörü (PF) (Power Factor)	0,9825
Frekans (Hz) (Frequency)	50
Ortam Sıcaklığı (°C) (Ambient Temperature)	25.1 °C 49% Rh

Photometric Results

Işık Akısı (Luminous Flux)	42767,8 lm
Maksimum Işık Şiddeti (Peak Intensity)	34074 cd
Verimlilik (Luminous efficacy)	77,09 lm/W



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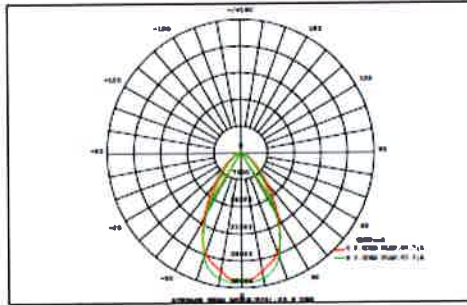
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2 Deney Sonuçları (Test Results)



DATA OF LAMP		Eff:77.09lm/W	
MODEL	TETRA PRV 5	Imax (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

AREA FLUX DIAGRAM																	UNIT:lm		φ t	φ a
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
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:30.8,R:30.6

NEMA Beam Type: Type 6



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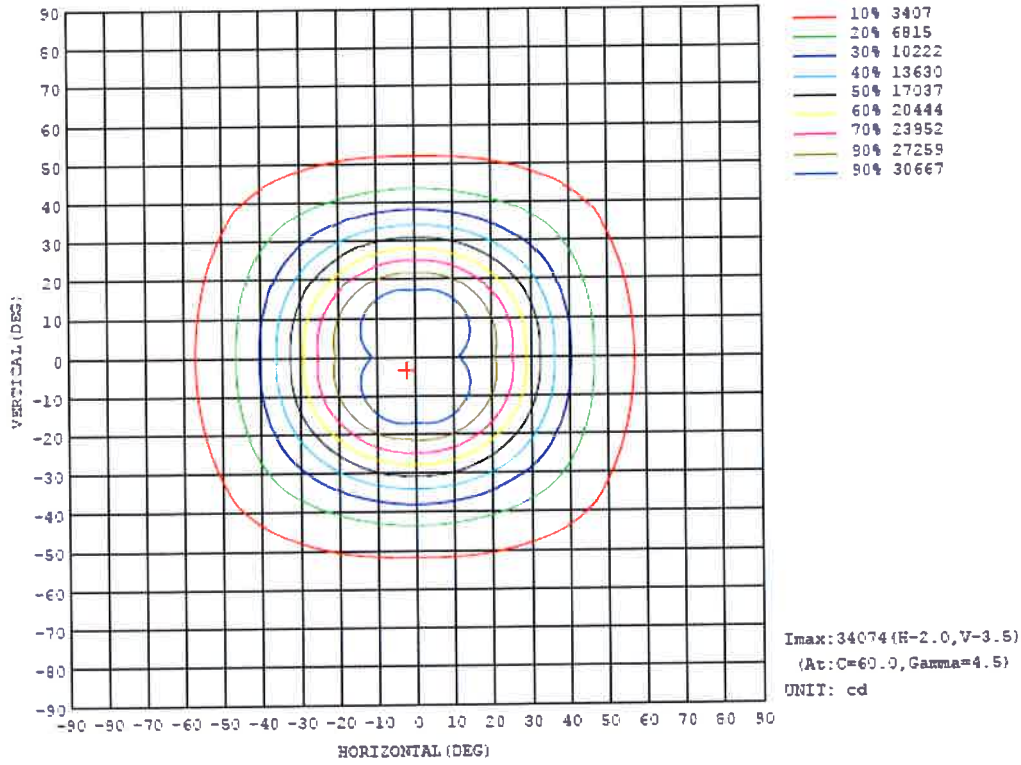
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2 Deney Sonuçları (Test Results)

ISOCANDELA DIAGRAM



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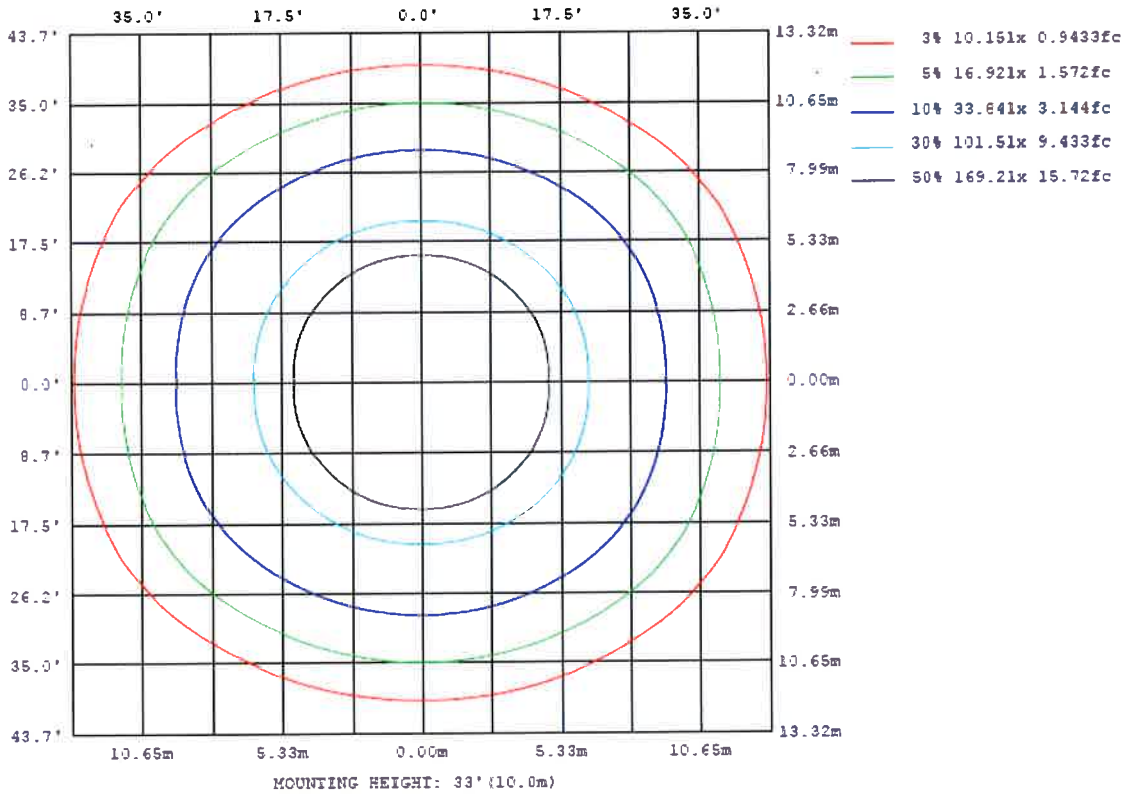
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2 Deney Sonuçları (Test Results)

ISOLUX DIAGRAM



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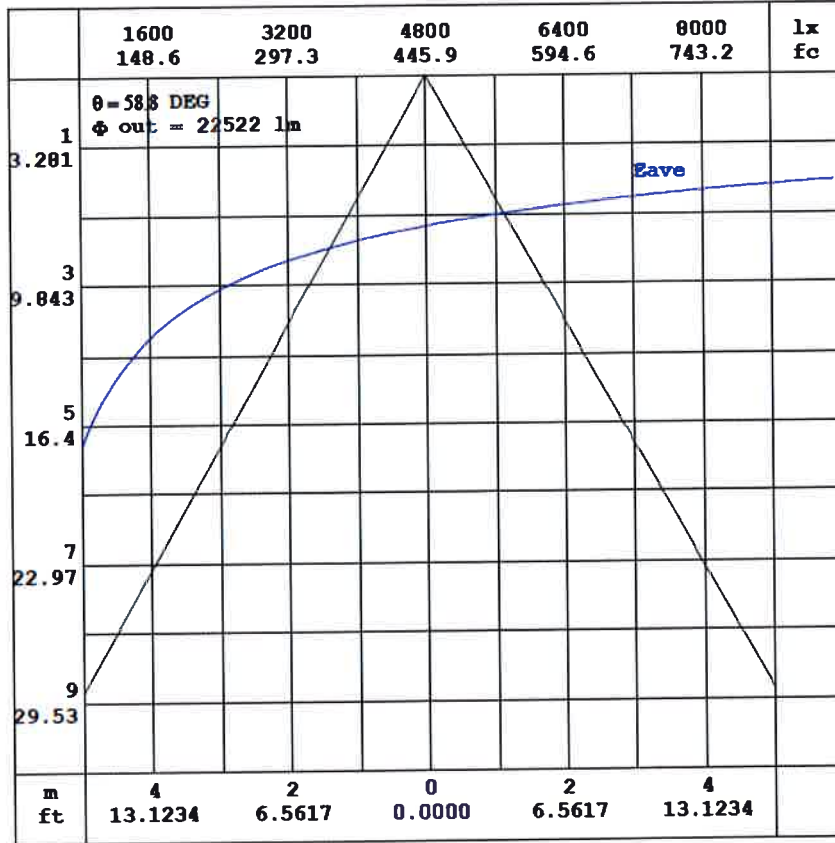
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Deney Sonuçları (Test Results)**AAI CURVES**

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



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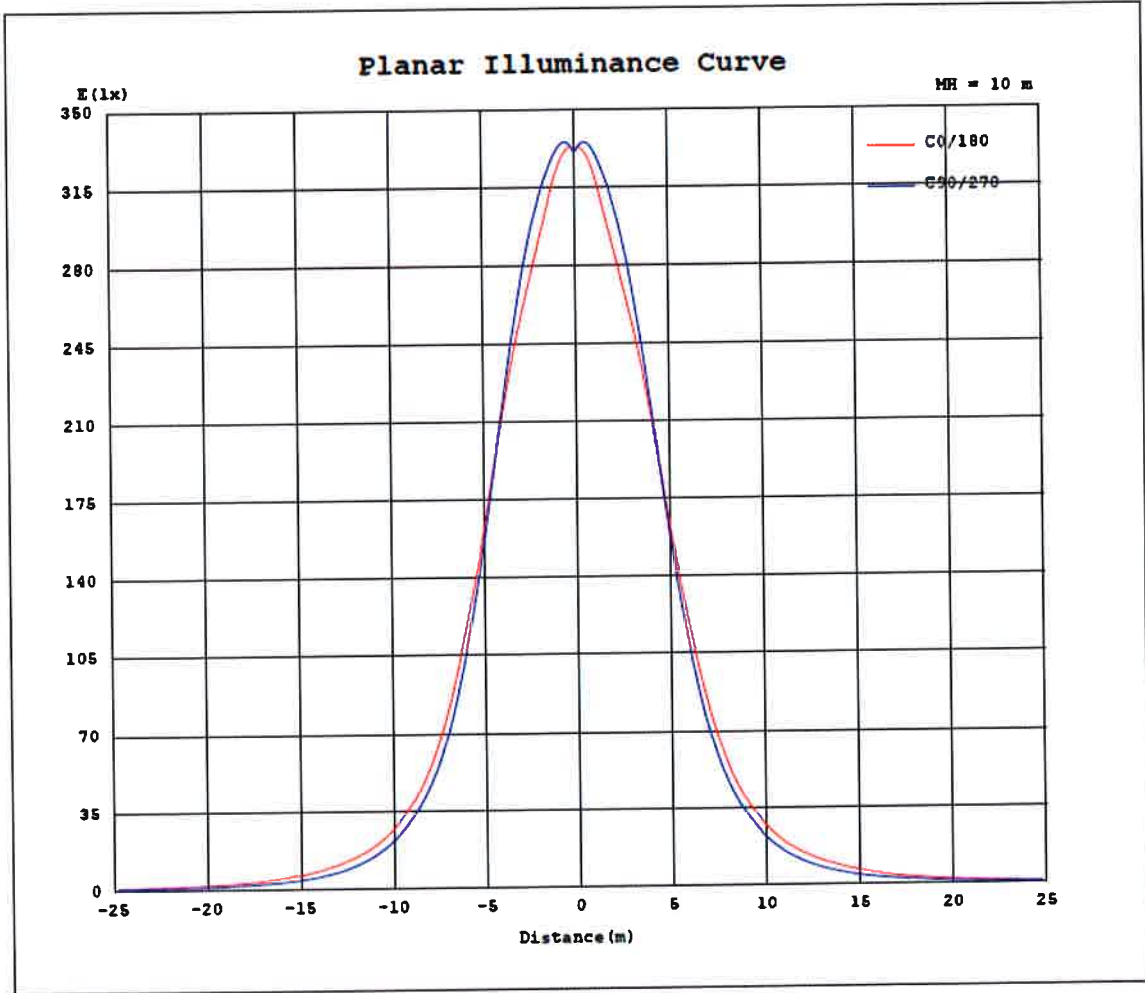
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Deney Sonuçları (Test Results)

Planar Illuminance Curve



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Deney Sonuçları (Test Results)

Aktif güç (W)(active power)	554,8
Ortalama Gerilim (V)(Average Voltage)	239,9
Ortalama AC Akım (A)(Average AC Current)	2,353
Güç Faktörü (PF)(Power Factor)	0,9825
Frekans (Hz)(Frequency)	50
Ortam Sıcaklığı (°C)(Ambient Temperature)	25.1 °C 49% Rh

Spectrocolorimetric Results

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



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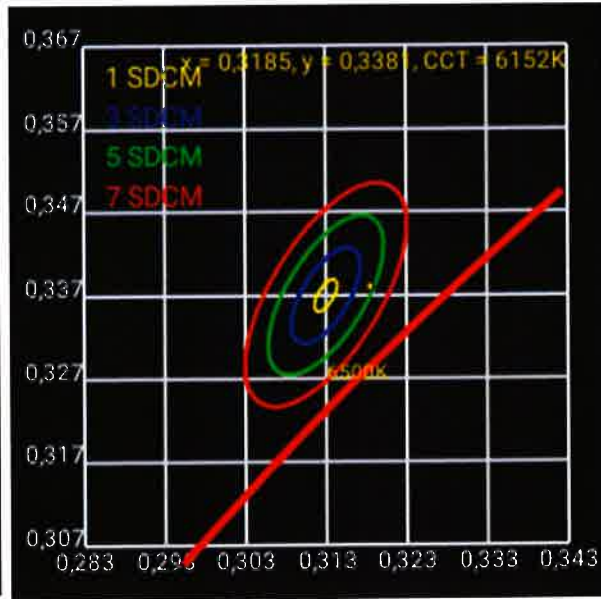
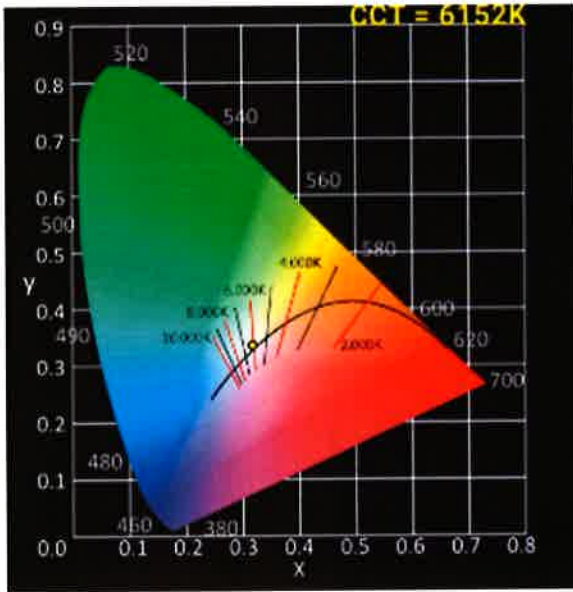
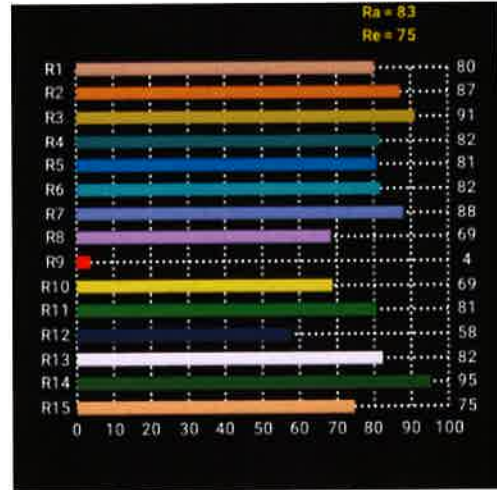
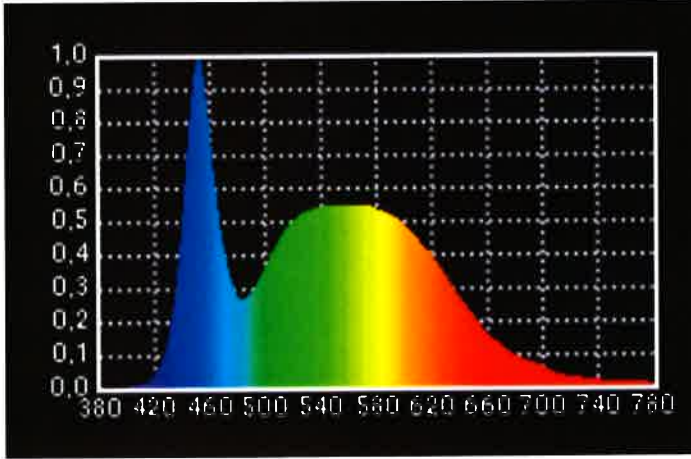
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Deney Sonuçları (Test Results)



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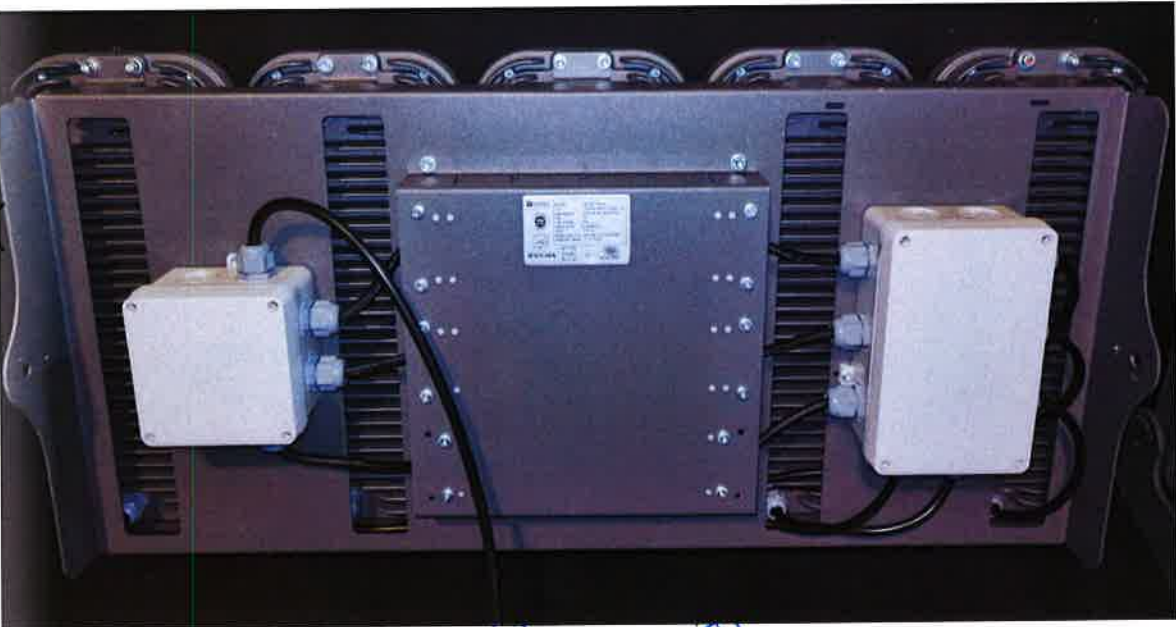
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



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3.1 DGC'nin Fotoğrafları (Photos of EUT)

