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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-52

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 PROJEKTÖR
SIRUS 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.

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

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

:SIRUS 90 W

Seri Numarası / Serial Number

: Test Numunesi
Test Sample

Beyan Gücü / Rated Power

: 90 W

Beyan Gerilimi / Rated Voltage

: 100-240 VAC

Sembollerin Tanımı / Definitions of Symbols

DGC= Deneden Geçen Cihaz
EUT=Equipment Under Test



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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

- 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 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-120H-C700A	-	-
PCB	LIMBUS	TLS-12NI-HBL-60	-	-



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1.4 Deney Sonuçları (Test Results)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	85,88
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	0,3874
Güç Faktörü (PF) (Power Factor)	0,9231
Ölçülen Frekans (Hz) (Input Frequency)	50
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25,1 °C 49% Rh
Stabilizasyon Süresi (Stabilization Time)	60min± 5min

Fotometrik Ölçüm Sonuçları

(Photometric Measurement Results)

Toplam Işık Akısı (Total Luminous Flux) (lm)	9278,54
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	7704
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	108,04



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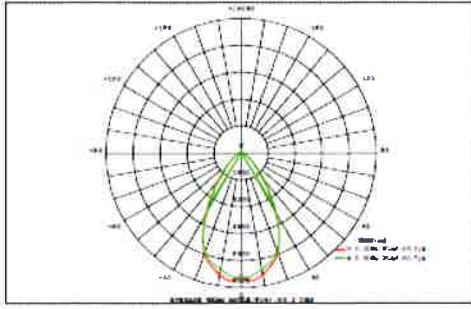
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2 Fotometrik Deney Sonuçları (Photometric Test Results)



DATA OF LAMP		Eff:108.04lm/W	
MODEL	SIRUS	Imax (cd)	7704
NOMINAL POWER (W)	88	AVAILABILITY (%)	91.5
RATED VOLTAGE (V)	240	Avai. FLUX (lm)	8485
NOMINAL FLUX (lm)	9278.54	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	9278
TEST VOLTAGE (V)	240.2	θ @50% (H,V)	63.62DEG

AREA FLUX DIAGRAM																	UNIT: lm		φ t	φ a
90	0.00	0.01	0.04	0.10	0.19	0.30	0.40	0.51	0.60	0.60	0.51	0.40	0.30	0.19	0.10	0.04	0.01	0.00	4.29	0.00
80	0.00	0.06	0.29	0.70	1.24	1.87	2.51	3.19	3.83	3.83	3.19	2.51	1.87	1.24	0.70	0.29	0.06	0.00	27.4	0.00
70	0.01	0.18	0.74	1.71	3.05	4.68	6.33	7.63	8.52	8.52	7.63	6.33	4.68	3.05	1.71	0.74	0.18	0.01	65.7	0.00
60	0.02	0.33	1.28	3.00	5.66	9.42	13.5	16.6	18.3	18.3	16.6	13.5	9.42	5.66	3.00	1.28	0.33	0.02	136	10.7
50	0.03	0.49	1.86	4.59	9.63	17.8	27.7	35.8	40.4	40.4	35.8	27.7	17.8	9.63	4.59	1.86	0.49	0.03	277	217
40	0.04	0.63	2.44	6.56	15.3	30.6	52.3	74.5	87.5	87.5	74.5	52.3	30.6	15.3	6.56	2.44	0.63	0.04	540	502
30	0.05	0.75	2.97	8.67	22.0	47.7	89.0	134	158	158	134	89.0	47.7	22.0	8.67	2.97	0.75	0.05	928	899
20	0.06	0.84	3.37	10.4	28.2	65.8	128	185	206	206	185	128	65.8	28.2	10.4	3.37	0.84	0.06	1256	1232
10	0.06	0.88	3.58	11.3	31.8	76.5	148	204	227	227	204	148	76.5	31.8	11.3	3.58	0.88	0.06	1405	1382
0	0.06	0.88	3.58	11.3	31.8	76.5	148	204	227	227	204	148	76.5	31.8	11.3	3.58	0.88	0.06	1405	1382
-10	0.06	0.84	3.37	10.4	28.2	65.8	128	185	206	206	185	128	65.8	28.2	10.4	3.37	0.84	0.06	1256	1232
-20	0.05	0.75	2.97	8.67	22.0	47.7	89.0	134	158	158	134	89.0	47.7	22.0	8.67	2.97	0.75	0.05	928	899
-30	0.04	0.63	2.44	6.56	15.3	30.6	52.3	74.5	87.5	87.5	74.5	52.3	30.6	15.3	6.56	2.44	0.63	0.04	540	502
-40	0.03	0.49	1.86	4.59	9.63	17.8	27.7	35.8	40.4	40.4	35.8	27.7	17.8	9.63	4.59	1.86	0.49	0.03	277	217
-50	0.02	0.33	1.28	3.00	5.66	9.42	13.5	16.6	18.3	18.3	16.6	13.5	9.42	5.66	3.00	1.28	0.33	0.02	136	10.7
-60	0.01	0.18	0.74	1.71	3.05	4.68	6.33	7.63	8.52	8.52	7.63	6.33	4.68	3.05	1.71	0.74	0.18	0.01	65.7	0.00
-70	0.00	0.06	0.29	0.70	1.24	1.87	2.51	3.19	3.83	3.83	3.19	2.51	1.87	1.24	0.70	0.29	0.06	0.00	27.4	0.00
-80	0.00	0.01	0.04	0.10	0.19	0.30	0.40	0.51	0.60	0.60	0.51	0.40	0.30	0.19	0.10	0.04	0.01	0.00	4.29	0.00
-90	0.00	0.01	0.04	0.10	0.19	0.30	0.40	0.51	0.60	0.60	0.51	0.40	0.30	0.19	0.10	0.04	0.01	0.00	4.29	0.00
φ t	0.54	8.32	33.1	94.1	234	510	936	1324	1500	1500	1324	936	510	234	94.1	33.1	8.32	0.54	9278	---
φ a	0.00	0.00	0.00	13.5	173	456	884	1271	1445	1445	1271	884	456	173	13.5	0.00	0.00	0.00	---	8485

one-half-peak spread: U:28.4,D:28.4 , L:27.2,R:27.2

NEMA Beam Type: Type 6



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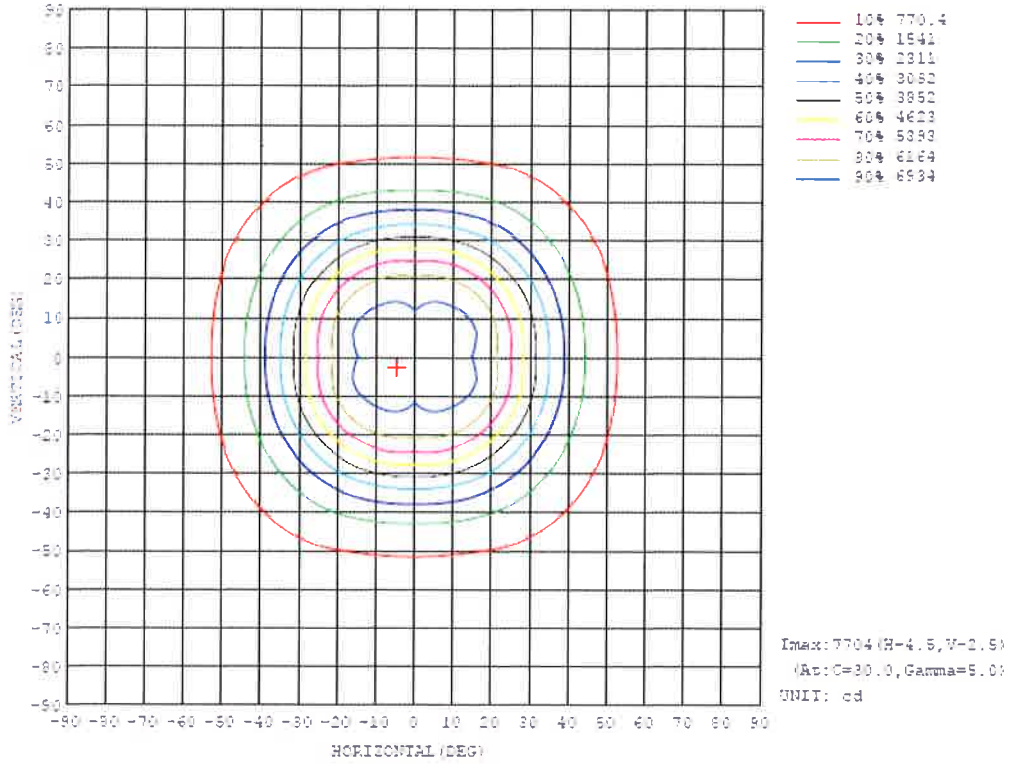
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOCANDELA DIAGRAM



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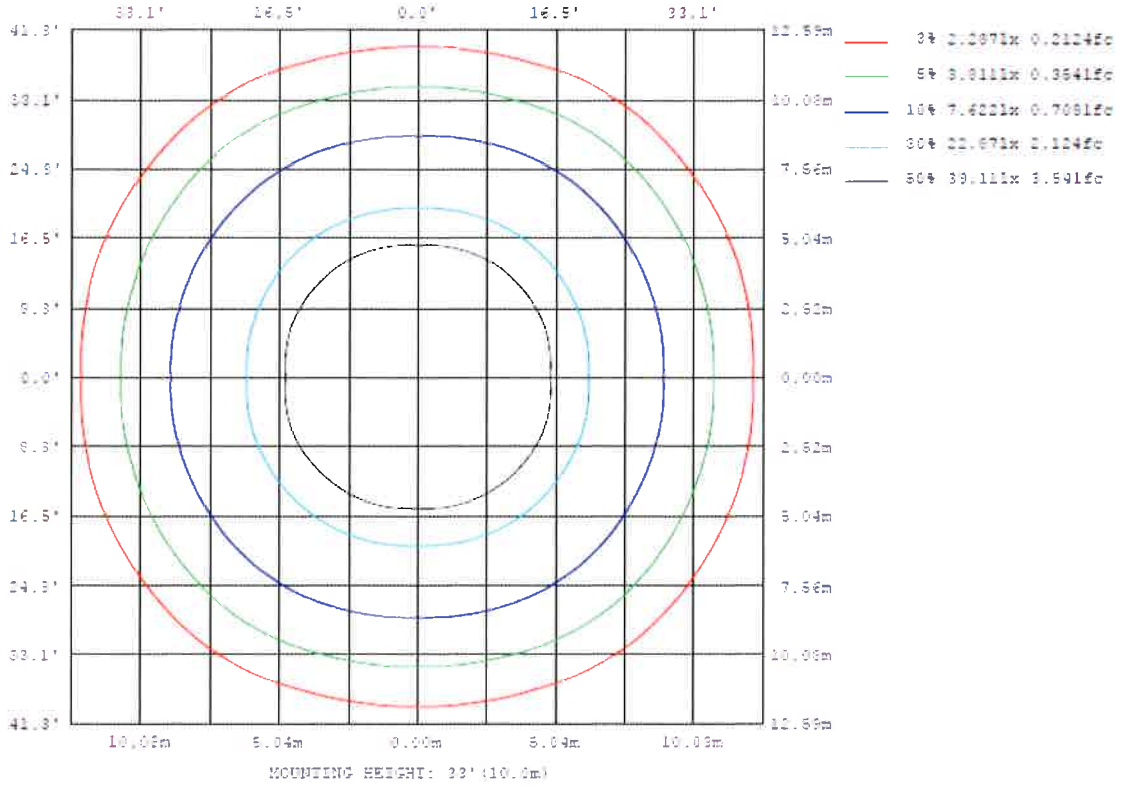
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOLUX DIAGRAM



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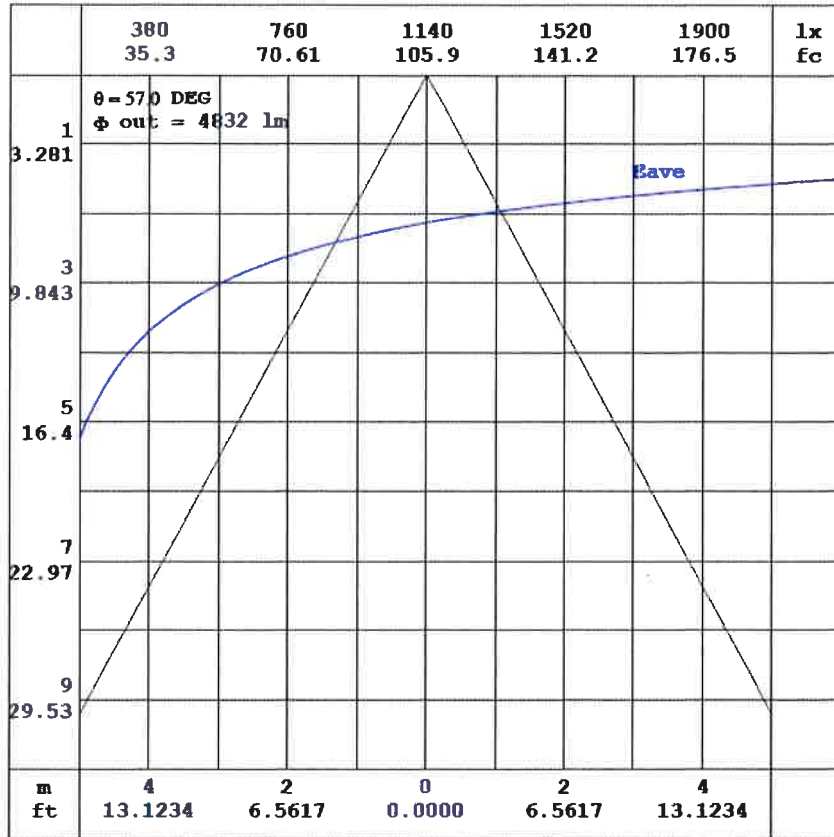
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2 Fotometrik Deney Sonuçları (Photometric Test Results)**AAI CURVES**

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



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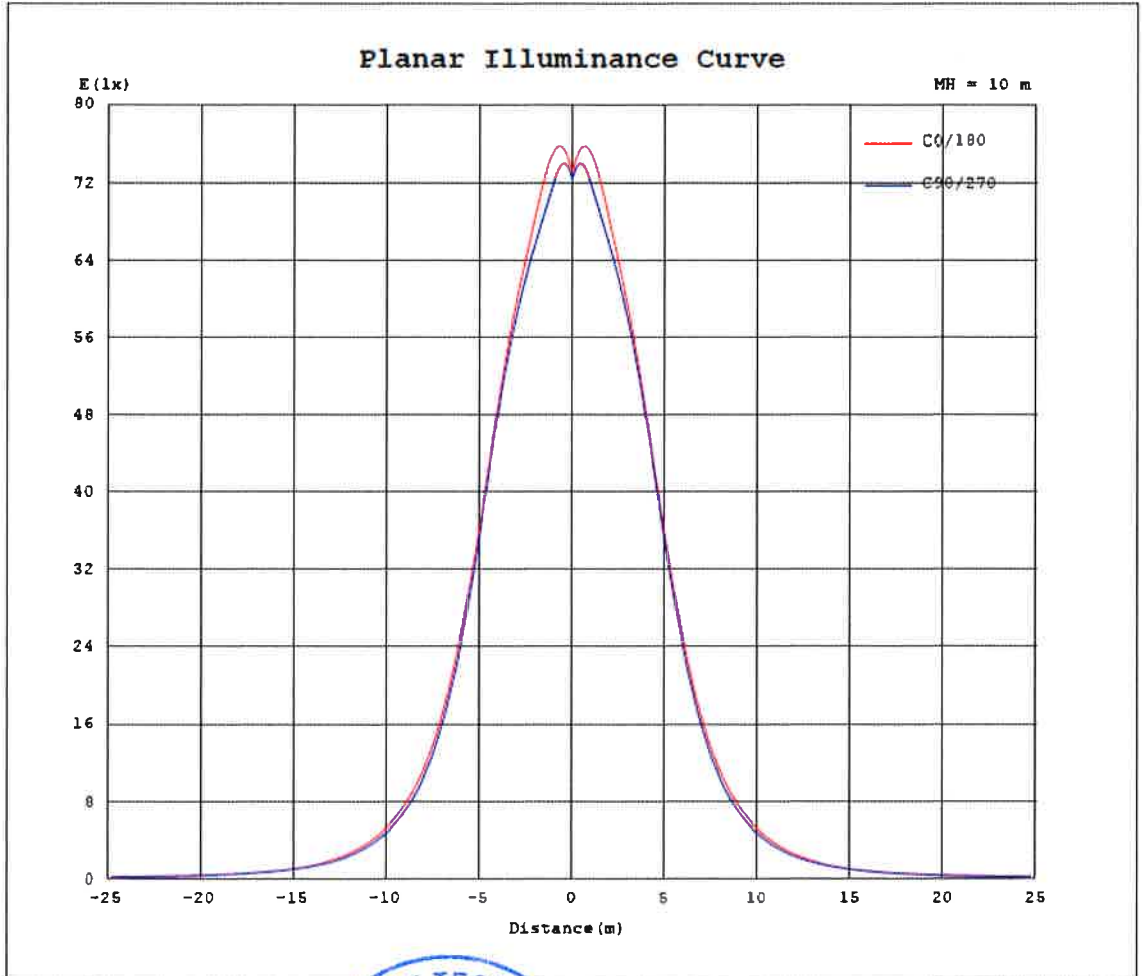
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

Planar Illuminance Curve



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2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	85,88
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	0,3874
Güç Faktörü (PF) (Power Factor)	0,9231
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	0,3194
Chrom y	0,3417
Duv	0,0063
Chrom u'	0,1977
Chrom v'	0,4759
Peak	455 nm
Dominant	500 nm
CCT	6097 K
Nominal CCT	6000 K
Ra(CRI)	79
R9	-18
S/P Ratio	2,2
Preburning time	1 hr
Test Configuration	4π



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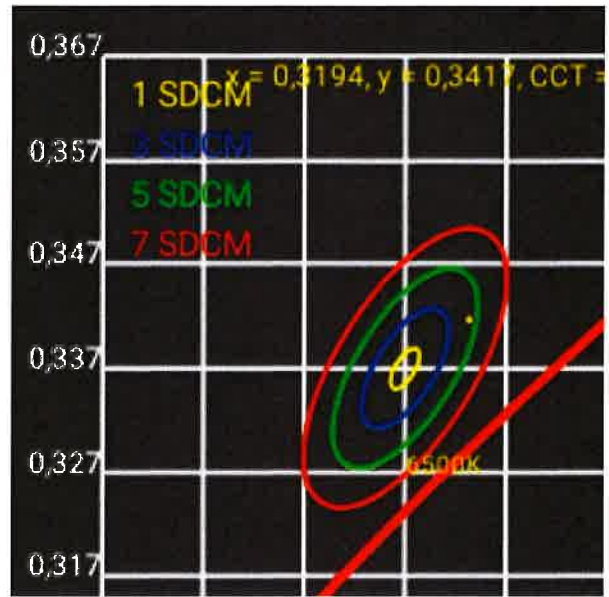
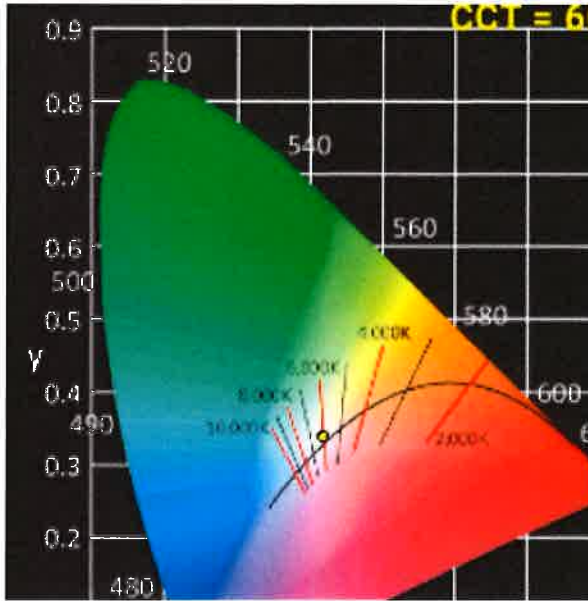
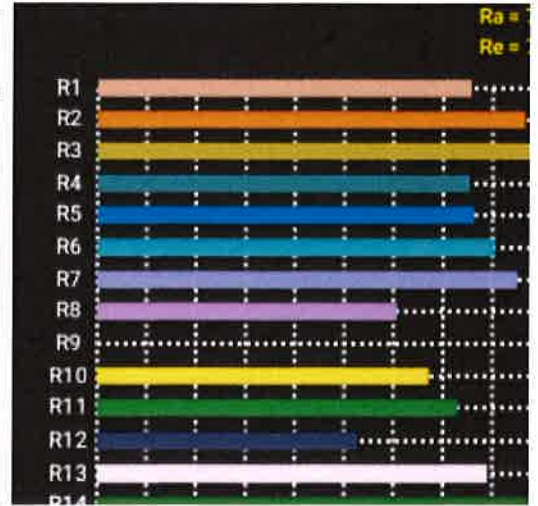
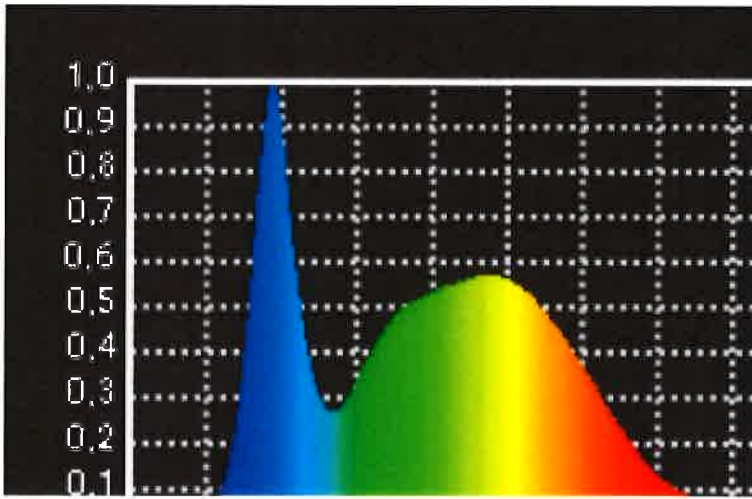
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2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results)



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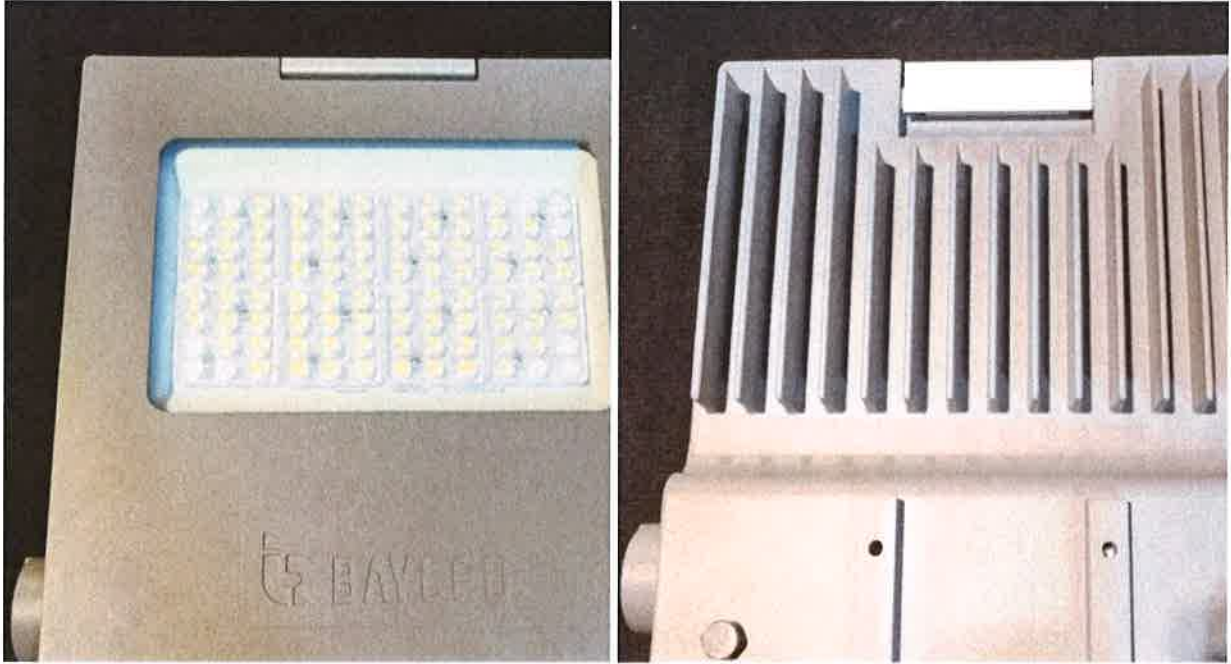
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



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