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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-55

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 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-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

: 21.03.2019

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.
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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= 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 Kompenent listesi (Component list)

Kompenent (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 Deney Sonuçları (Test Results)

Elektriksel Ölçümler
(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	293,9
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	1,247
Güç Faktörü (PF) (Power Factor)	0,9818
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)	34377,5
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	31037
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	116,98



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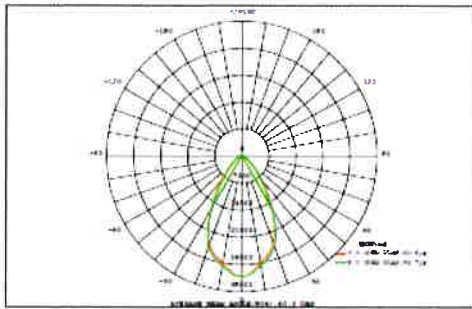
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2 Fotometrik Deney Sonuçları (Photometric Test Results)



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

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		φ t	φ a
	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	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
20	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
10	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	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
-10	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
-20	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	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	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	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	34376	---
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 , L:30.5,R:30.5

NEMA Beam Type: Type 6



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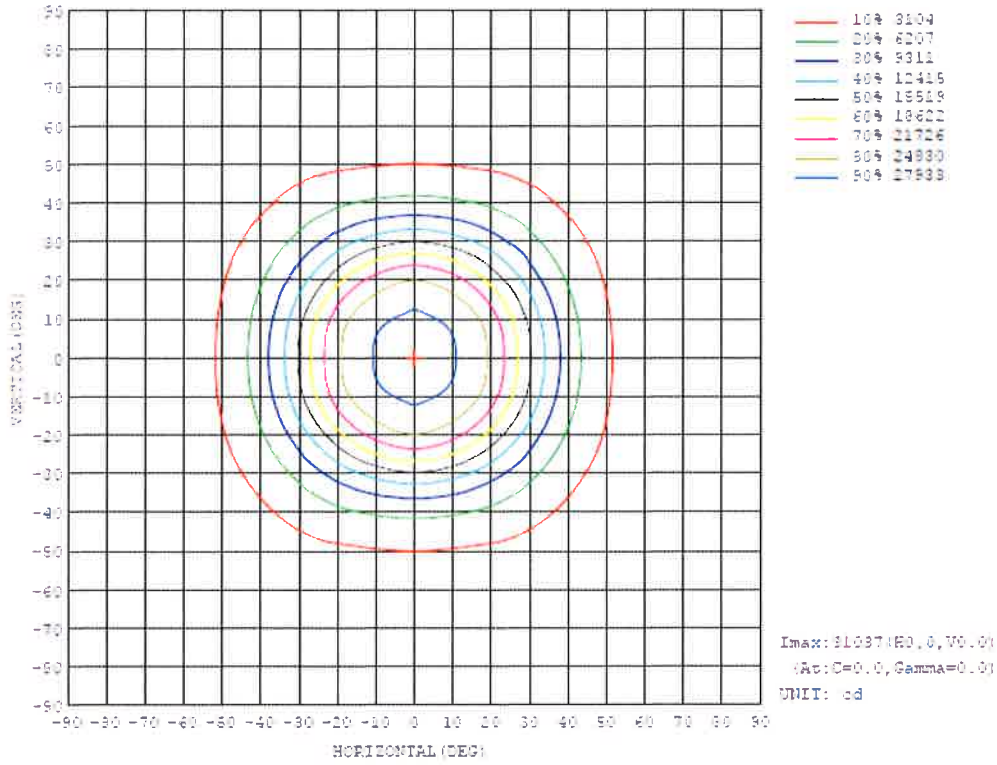
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOCANDELA DIAGRAM



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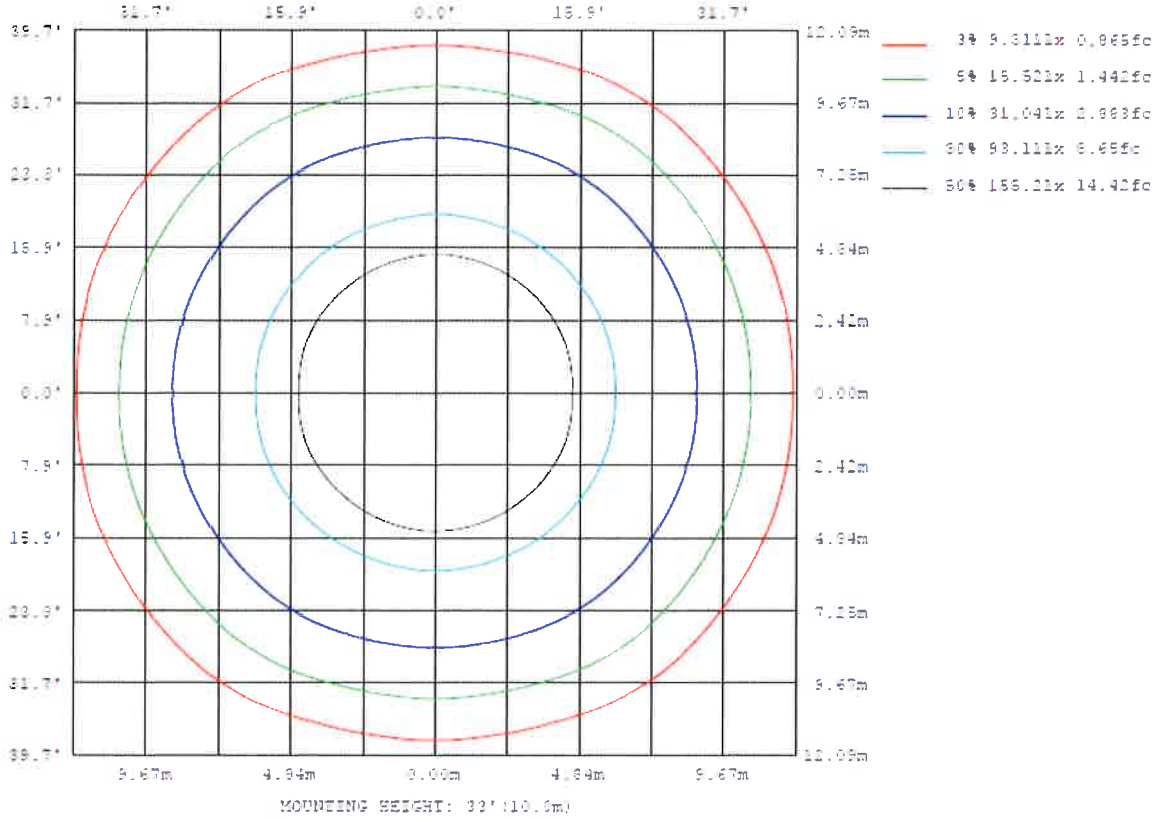
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOLUX DIAGRAM



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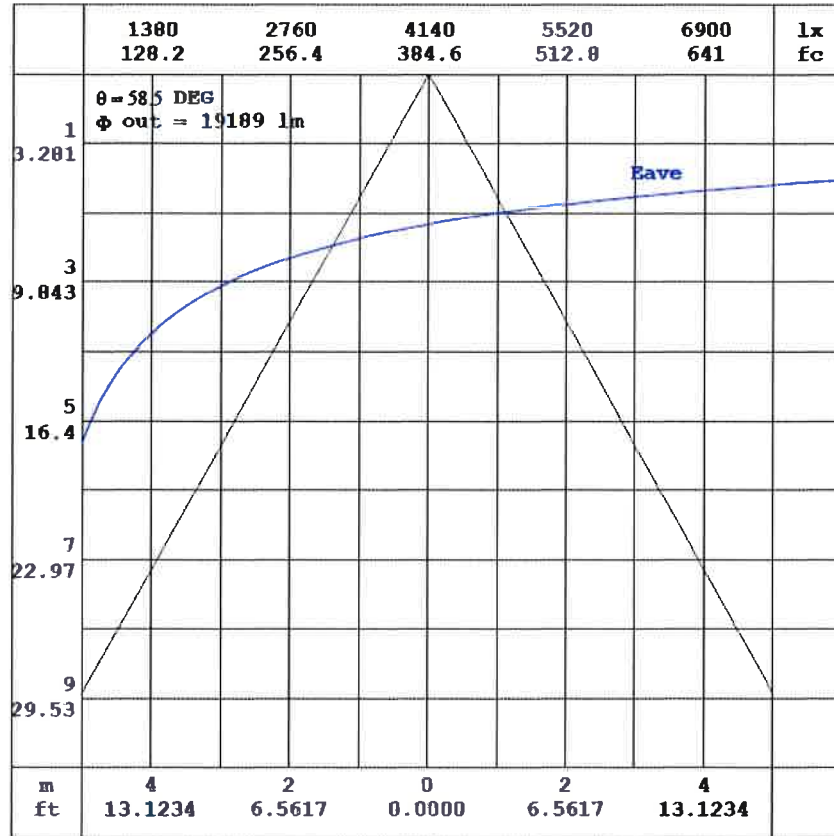
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

AAI CURVES



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



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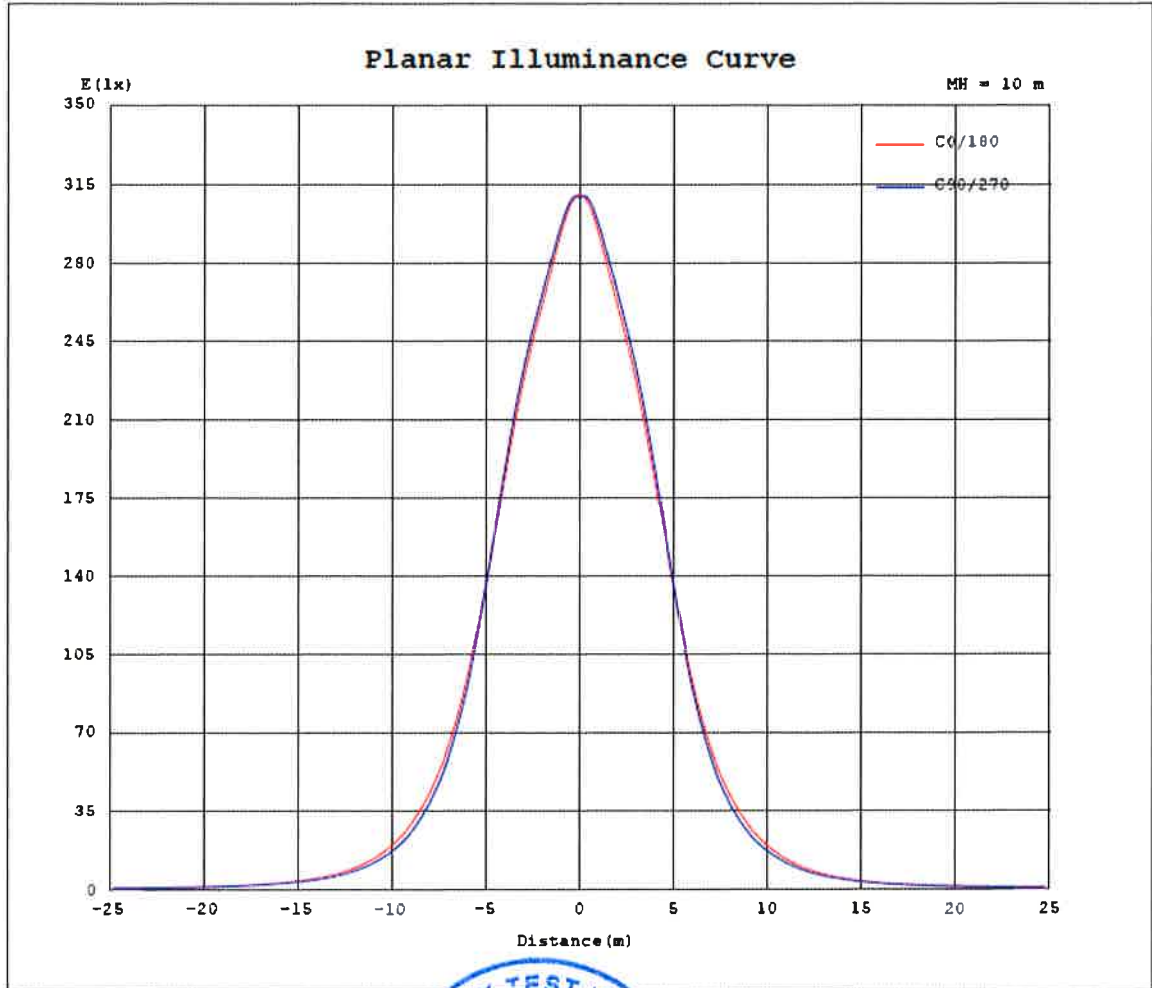
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2 Fotometrik Deney Sonuçları (Photometric Test Results)

Planar Illuminance Curve



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2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	293,9
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	1,247
Güç Faktörü (PF) (Power Factor)	0,9818
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	0,3171
Chrom y	0,3380
Duv	0,0056
Chrom u'	0,1975
Chrom v'	0,4737
Peak	448nm
Dominant	495 nm
CCT	6225 K
Nominal CCT	6000 K
Ra(CRI)	74
R9	-27
S/P Ratio	2,0
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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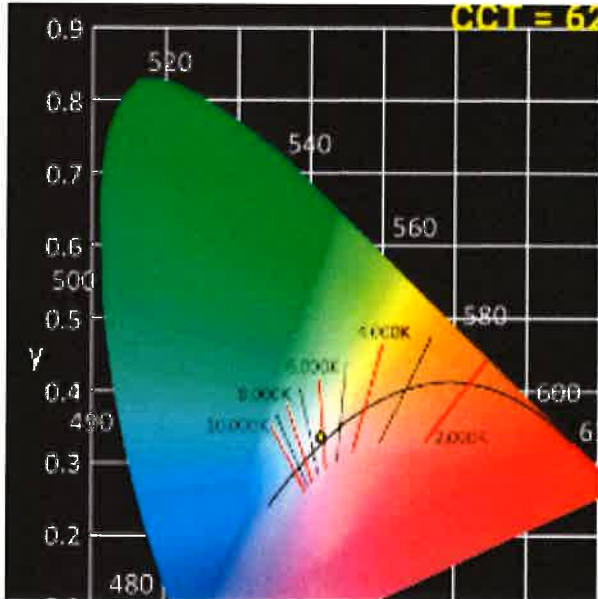
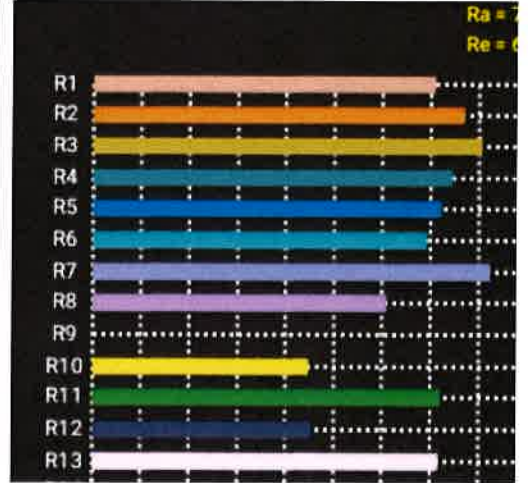
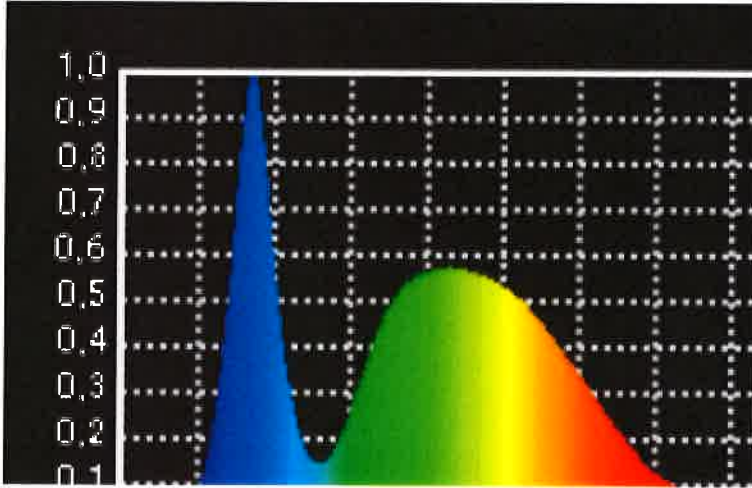
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2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results)



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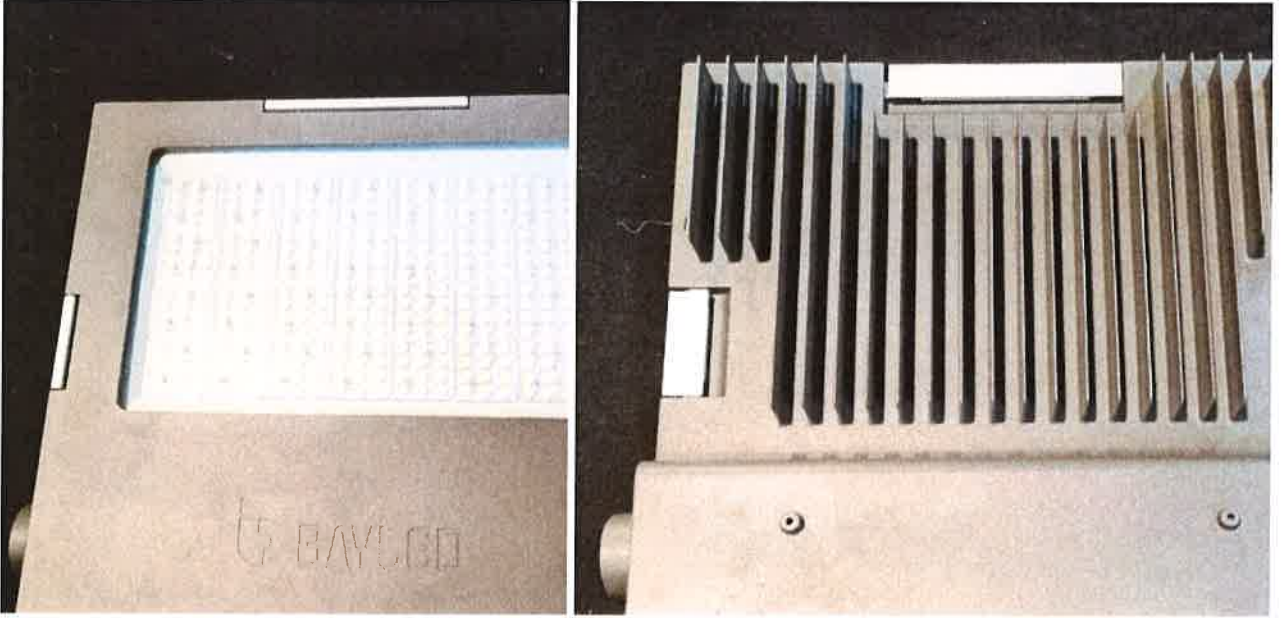
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



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