

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 1 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

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

: YÜKSEK TAVAN AYDINLATMA ARMATÜRÜ
HIGHBAY LUMINIARE

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

: 19

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

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 2 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

İÇİNDEKİLER
(CONTENTS)

	Sayfa Page
1. Dokümantasyon (Documentation)	
1.1 DGC, Çevre Şartları ve Sembollerin Tanımları (Description of the EUT, Environmental Conditions and Symbol Definitions)	3
1.2 Deney Standartları (Test Standards)	4
1.3 Deney Ekipmanları (Test Equipments)	4
1.4 Ölçüm Sonuçları (Test Results)	5
2. Deney Sonuçları ve Koşulları (Test Results and Conditions)	6
3. Ekler (Attachments)	18
3.1 DGC'nin Fotoğrafları (Photos of EUT)	18



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 3 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

1.1

DGC, Çevre Şartları ve Sembollerin Tanımları (Description of the EUT, Environmental Conditions and Symbol Definitions)

Markası / Brand	:BAYLED
Modeli / Model	:CIRCLE HIGHBAY M 120W
Seri Numarası / Serial Number	: Test Numunesi Test Sample
Beyan Gücü / Rated Power	: 120W
Beyan Gerilimi / Rated Voltage	: 100-240 VAC
Sembollerin Tanımı / Definitions of Symbols	DGC= Deneden Geçen Cihaz EUT=Equipment Under Test



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 4 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

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 (Component)	Üretici (Manufacturer)	Model (Model)	Standart no. (Standart No.)	Sertifika no. (Certificate No.)
LED	NICHIA	NF2W757GRT-V1	-	CE,UL
DRİVER	MEANWELL	ELG-150-C700A	-	CE,UR
PCB	LIMBUS	TL5-12NI-UPL-ASYM	-	-

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 5 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

1.4 Deney Sonuçları (Test Results)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	115,6
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	0,4902
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)	13225
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	6450
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	114,45



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 6 / 19

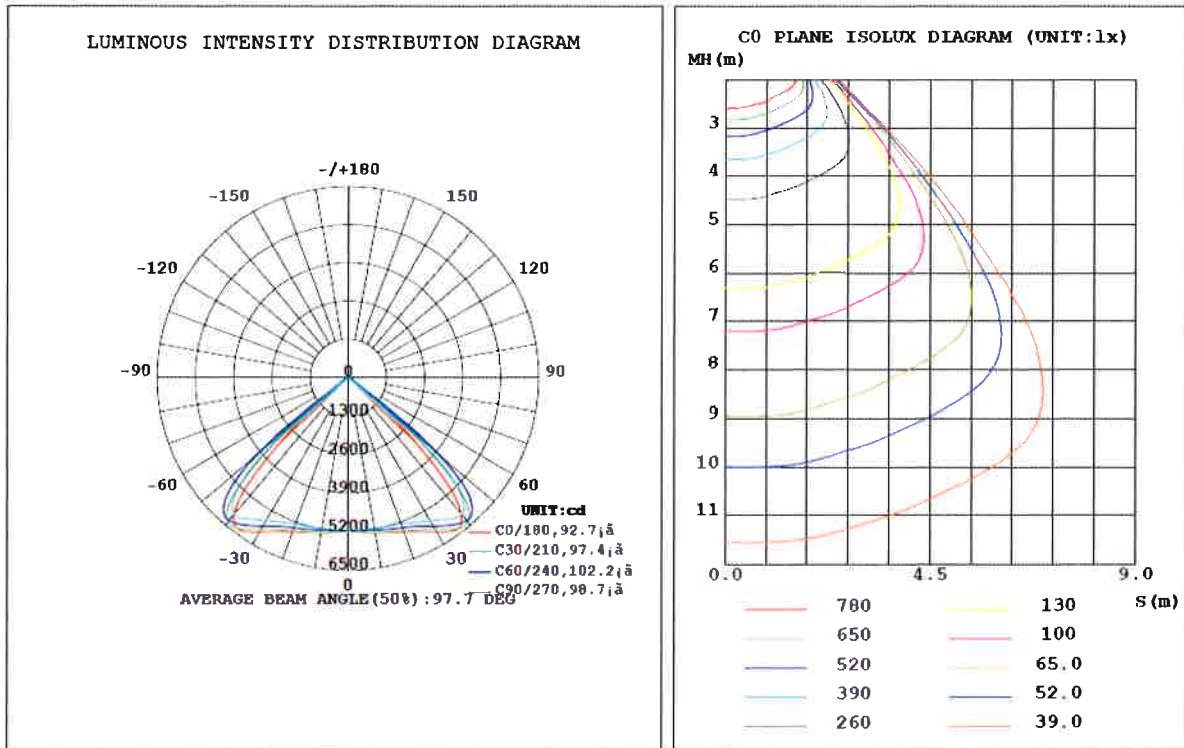
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 7 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

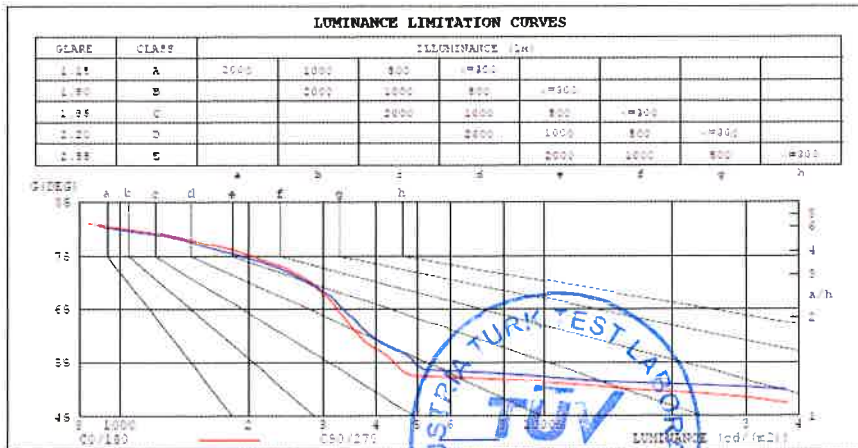
03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total	lum, lamp
5	5260	5224	5177	5224	5260	5224	5177	5224	0- 5	104.5	104.5	0.94, 0.94
10	5351	5288	5190	5288	5351	5288	5190	5288	5- 10	176.0	500.5	3.78, 3.78
15	5422	5369	5212	5369	5422	5369	5212	5369	10- 15	630.9	1131	8.55, 8.55
20	5573	5463	5270	5463	5573	5463	5270	5463	15- 20	889.8	2021	15.3, 15.3
25	5763	5624	5408	5624	5763	5624	5408	5624	20- 25	1160	3181	24.1, 24.1
30	6052	5870	5588	5870	6052	5870	5588	5870	25- 30	1452	4632	35.35
35	6330	6196	5858	6196	6330	6196	5858	6196	30- 35	1770	6402	48.4, 48.4
40	6013	6431	6032	6431	6013	6431	6032	6431	35- 40	2081	8482	64.1, 64.1
45	3984	5975	5291	5975	3984	5975	5291	5975	40- 45	2185	10669	80.7, 80.7
50	1056	3557	2407	3557	1056	3557	2407	3557	45- 50	1681	12350	93.4, 93.4
55	254.0	654.0	282.4	654.0	254.0	654.0	282.4	654.0	50- 55	556.0	12926	92.6, 92.6
60	182.9	207.9	195.0	207.9	182.9	207.9	195.0	207.9	55- 60	119.3	13025	98.5, 98.5
65	136.9	138.6	141.4	138.6	136.9	138.6	141.4	138.6	60- 65	31.63	13196	95.1, 95.1
70	96.88	90.33	94.82	90.33	96.88	90.33	94.82	90.33	65- 70	58.27	13165	99.5, 99.5
75	53.37	48.46	49.99	48.46	53.37	48.46	49.99	48.46	70- 75	36.57	13201	99.8, 99.8
80	17.90	17.69	17.09	17.69	17.90	17.69	17.09	17.69	75- 80	17.29	13218	100, 100
85	3.173	3.433	2.622	3.433	3.173	3.433	2.622	3.433	80- 85	4.906	13222	100, 100
90	0	0	0	0	0	0	0	0	85- 90	0.6230	13224	100, 100
95	0	0	0	0	0	0	0	0	90- 95	0	13224	100, 100
100	0	0	0	0	0	0	0	0	95-100	0	13224	100, 100
105	0	0	0	0	0	0	0	0	100-105	0	13224	100, 100
110	0	0	0	0	0	0	0	0	105-110	0	13224	100, 100
115	0	0	0	0	0	0	0	0	110-115	0	13224	100, 100
120	0	0.0202	0	0.0202	0	0.0202	0	0.0202	115-120	0.0005	13224	100, 100
125	0.0981	0.1150	0.0618	0.1150	0.0981	0.1150	0.0618	0.1150	120-125	0.0226	13224	100, 100
130	0.1898	0.1957	0.1578	0.1957	0.1898	0.1957	0.1578	0.1957	125-130	0.0615	13224	100, 100
135	0.2746	0.2829	0.2503	0.2829	0.2746	0.2829	0.2503	0.2829	130-135	0.0914	13224	100, 100
140	0.3668	0.3743	0.3494	0.3743	0.3668	0.3743	0.3494	0.3743	135-140	0.1182	13224	100, 100
145	0.4136	0.4132	0.4210	0.4132	0.4136	0.4132	0.4210	0.4132	140-145	0.1315	13224	100, 100
150	0.4117	0.4163	0.4350	0.4163	0.4117	0.4163	0.4350	0.4163	145-150	0.1332	13224	100, 100
155	0.4095	0.4143	0.4333	0.4143	0.4095	0.4143	0.4333	0.4143	150-155	0.1064	13225	100, 100
160	0.4340	0.4364	0.4487	0.4364	0.4340	0.4364	0.4487	0.4364	155-160	0.0859	13225	100, 100
165	0.4279	0.4265	0.4338	0.4265	0.4279	0.4265	0.4338	0.4265	160-165	0.0754	13225	100, 100
170	0.4277	0.4267	0.4309	0.4267	0.4277	0.4267	0.4309	0.4267	165-170	0.0502	13225	100, 100
175	0.4756	0.4728	0.4739	0.4728	0.4756	0.4728	0.4739	0.4728	170-175	0.0317	13225	100, 100
180	0.5171	0.5154	0.5174	0.5154	0.5171	0.5154	0.5174	0.5154	175-180	0.0182	13225	100, 100



LUMINANCE cd/m²

G(DEG)	C0/180	C90/270
85	364	301
80	1031	954
75	2062	1931
70	3933	2792
65	8239	3346
60	1659	3899
55	4423	4923
50	16427	5743
45	58340	74331

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Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 8 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

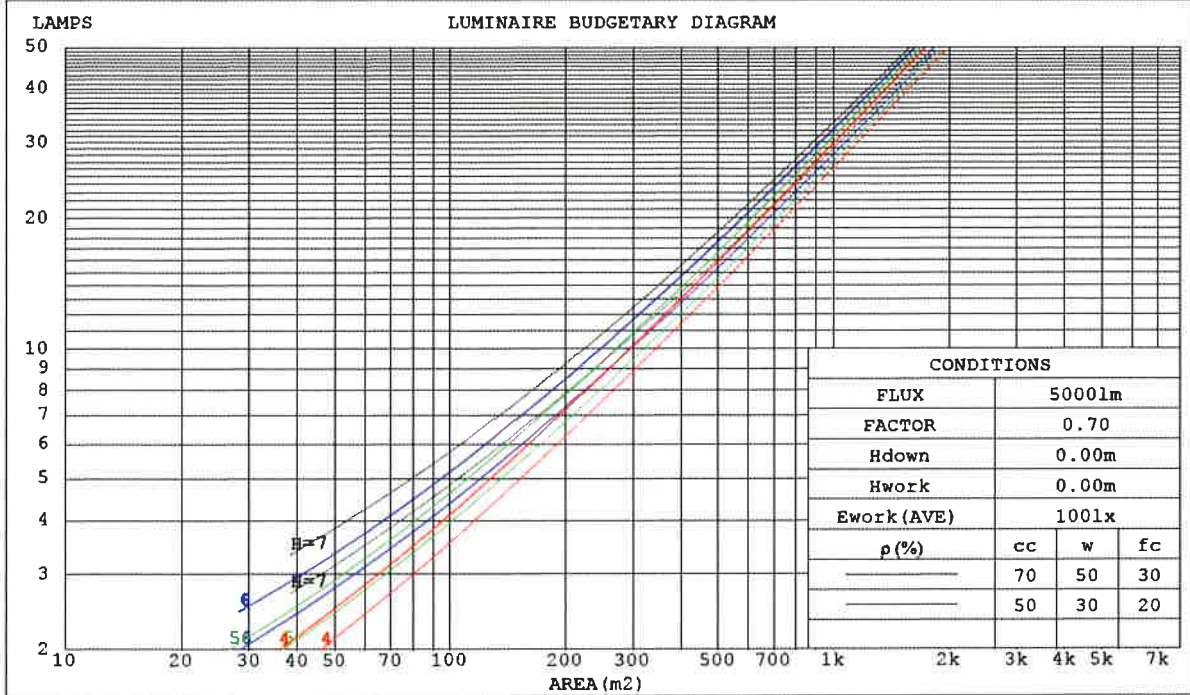
19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.09	1.05	1.03	1.06	1.04	1.01	1.02	.00	.98	.98	.97	.95	.95	.94	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.80
3.0	.89	.82	.77	.87	.81	.77	.85	.80	.75	.82	.78	.74	.80	.76	.73	.71
4.0	.80	.73	.68	.79	.73	.67	.77	.71	.67	.75	.70	.66	.73	.68	.65	.63
5.0	.73	.65	.60	.72	.65	.60	.70	.64	.59	.68	.63	.58	.66	.62	.58	.56
6.0	.66	.59	.53	.65	.58	.53	.64	.57	.53	.62	.56	.52	.61	.56	.52	.50
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.45
8.0	.55	.48	.43	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.39	.34	.44	.38	.34	.33



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 9 / 19

ÖLÇÜM RAPORU MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

WEC AND CCEC

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.221	.125	.040	.214	.122	.039	.201	.115	.037	.189	.109	.035	.178	.103	.033	
2.0	.217	.119	.036	.211	.116	.036	.200	.111	.035	.190	.106	.033	.180	.102	.032	
3.0	.209	.111	.033	.204	.109	.033	.194	.105	.032	.186	.102	.031	.177	.098	.030	
4.0	.200	.104	.031	.196	.102	.030	.187	.099	.030	.179	.096	.029	.172	.093	.028	
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.028	.172	.091	.027	.166	.089	.027	
6.0	.182	.091	.026	.178	.090	.026	.172	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.153	.079	.023	
8.0	.165	.081	.023	.162	.080	.023	.157	.078	.022	.151	.077	.022	.147	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	.140	.071	.021	
10.0	.150	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.118	.077	.046	.082	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.132	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	



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

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Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 10 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

Uncorrected UGR Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	24.0	25.3	24.3	25.5	25.7	25.0	26.3	25.3	26.5	26.7	
3H	23.9	25.0	24.1	25.2	25.5	24.9	26.0	25.1	26.2	26.4	
4H	23.8	24.9	24.1	25.1	25.3	24.8	25.8	25.1	26.1	26.3	
6H	23.7	24.7	24.0	25.0	25.2	24.7	25.7	25.0	25.9	26.2	
8H	23.6	24.6	24.0	24.9	25.2	24.6	25.6	24.9	25.9	26.1	
12H	23.6	24.5	23.9	24.8	25.1	24.6	25.5	24.9	25.8	26.1	
4H	2H	23.8	24.9	24.1	25.1	25.4	24.8	25.8	25.1	26.1	26.3
3H	23.6	24.6	24.0	24.8	25.1	24.6	25.5	24.9	25.8	26.1	
4H	23.6	24.4	23.9	24.7	25.0	24.5	25.3	24.9	25.6	26.0	
6H	23.5	24.2	23.9	24.5	24.9	24.4	25.1	24.8	25.5	25.8	
8H	23.4	24.1	23.8	24.5	24.8	24.4	25.0	24.8	25.4	25.8	
12H	23.4	24.0	23.8	24.4	24.8	24.3	24.9	24.8	25.3	25.7	
8H	4H	23.4	24.1	23.8	24.5	24.8	24.4	25.0	24.8	25.4	25.8
6H	23.3	23.9	23.8	24.3	24.7	24.3	24.8	24.7	25.2	25.7	
8H	23.3	23.8	23.8	24.2	24.6	24.2	24.7	24.7	25.1	25.6	
12H	23.3	23.7	23.7	24.1	24.6	24.2	24.6	24.7	25.1	25.5	
12H	4H	23.4	24.0	23.8	24.4	24.8	24.3	24.9	24.8	25.3	25.7
6H	23.3	23.8	23.8	24.2	24.6	24.2	24.7	24.7	25.1	25.6	
8H	23.3	23.7	23.7	24.1	24.6	24.2	24.6	24.7	25.1	25.5	
Variations with the observer position at spacings:											
S = 1.0H	+ 3.0 / -12.0					+ 3.2 / -11.6					
1.5H	+ 2.7 / -11.9					+ 2.3 / -12.1					
2.0H	+ 6.2 / -10.2					+ 6.2 / -12.2					

CIE Pub.117 Corrected 13225 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.0)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 11 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	79	70	64	78	70	64	77	69	64	58
1.00	88	79	74	87	79	74	85	79	73	67
1.25	94	86	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	93	102	96	92	99	94	91	85
2.50	106	100	96	104	99	95	101	97	93	87
3.00	108	103	100	106	102	98	103	99	96	89
4.00	111	107	103	108	105	102	105	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOH = 1.25			



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 12 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

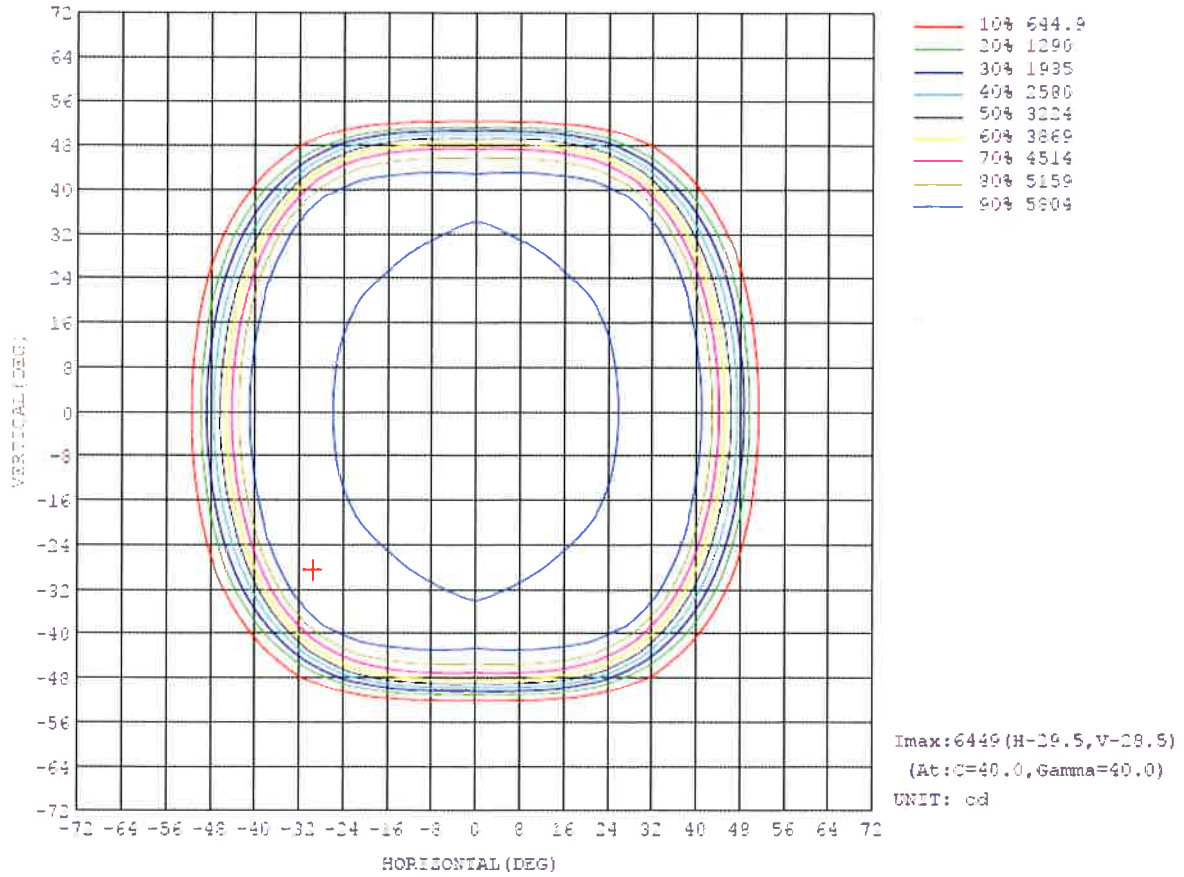
TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOCANDELA DIAGRAM



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

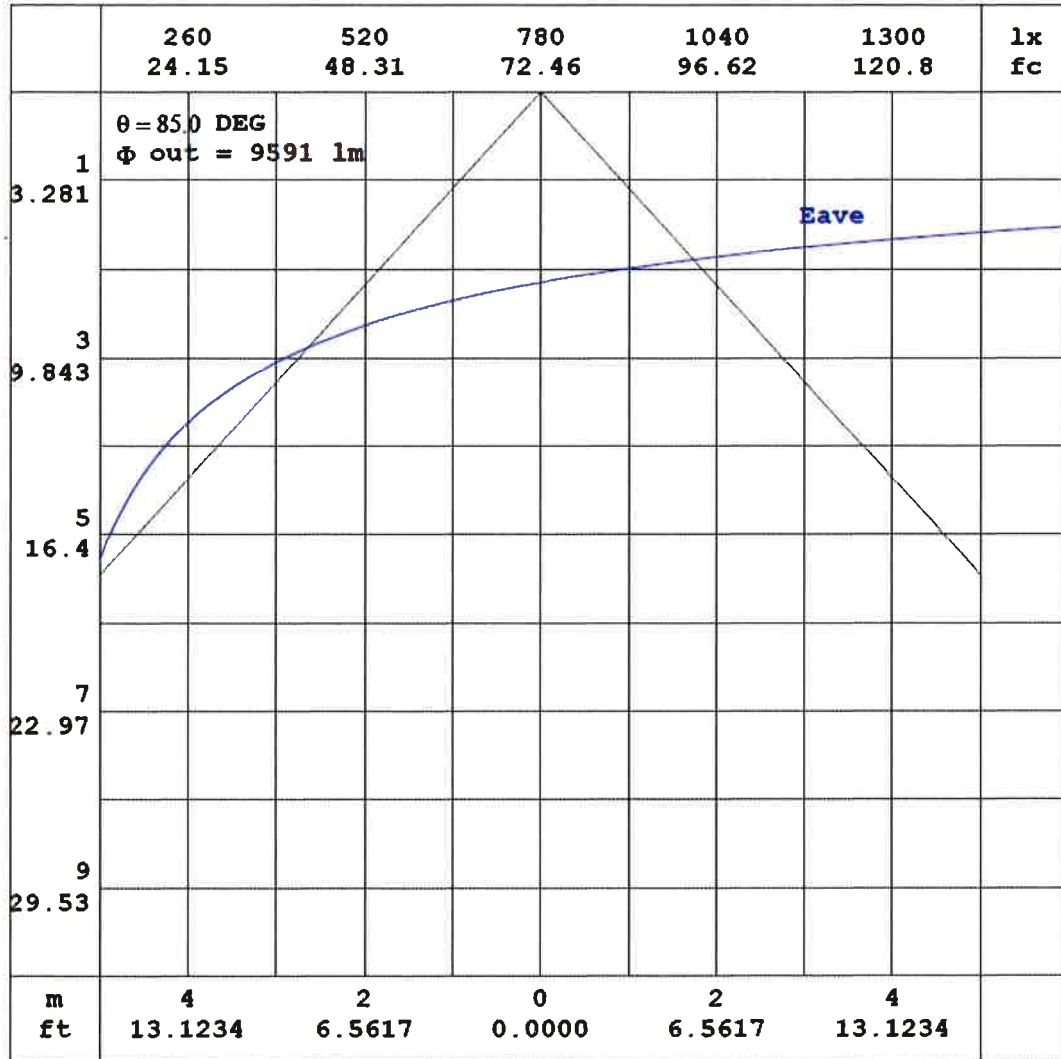
Sayfa / Page : 13 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

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.



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 14 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

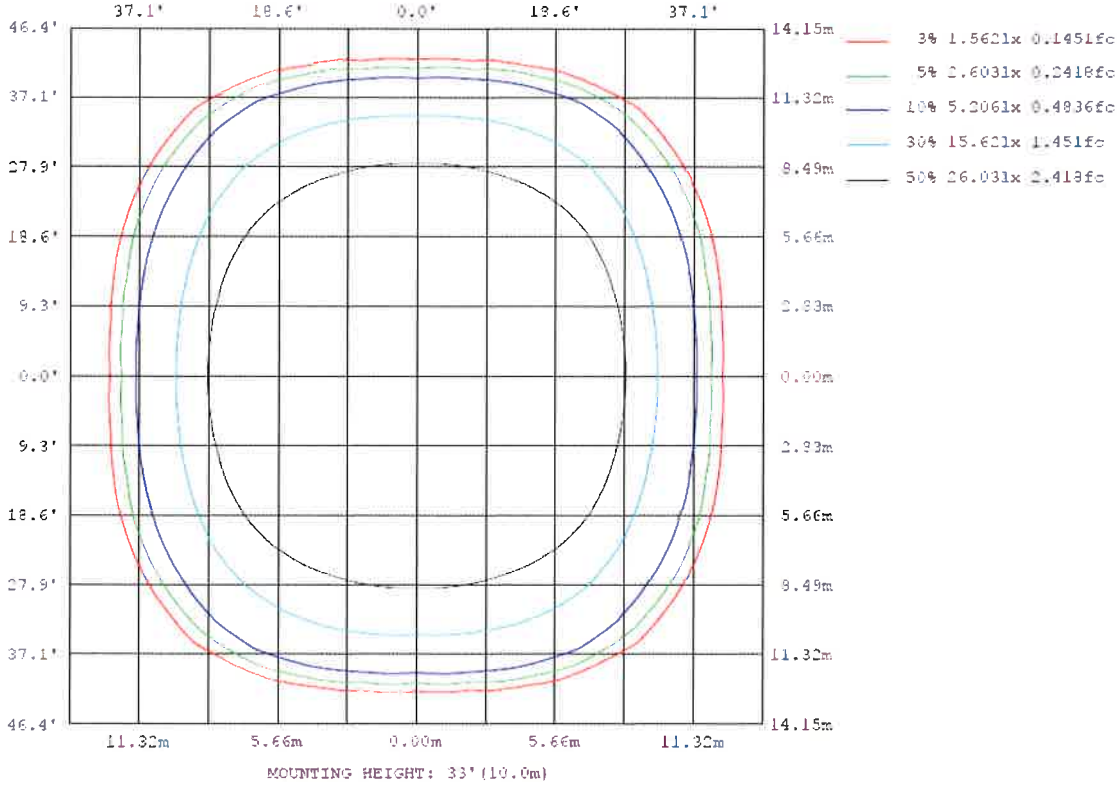
TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

ISOLUX DIAGRAM



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 15 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

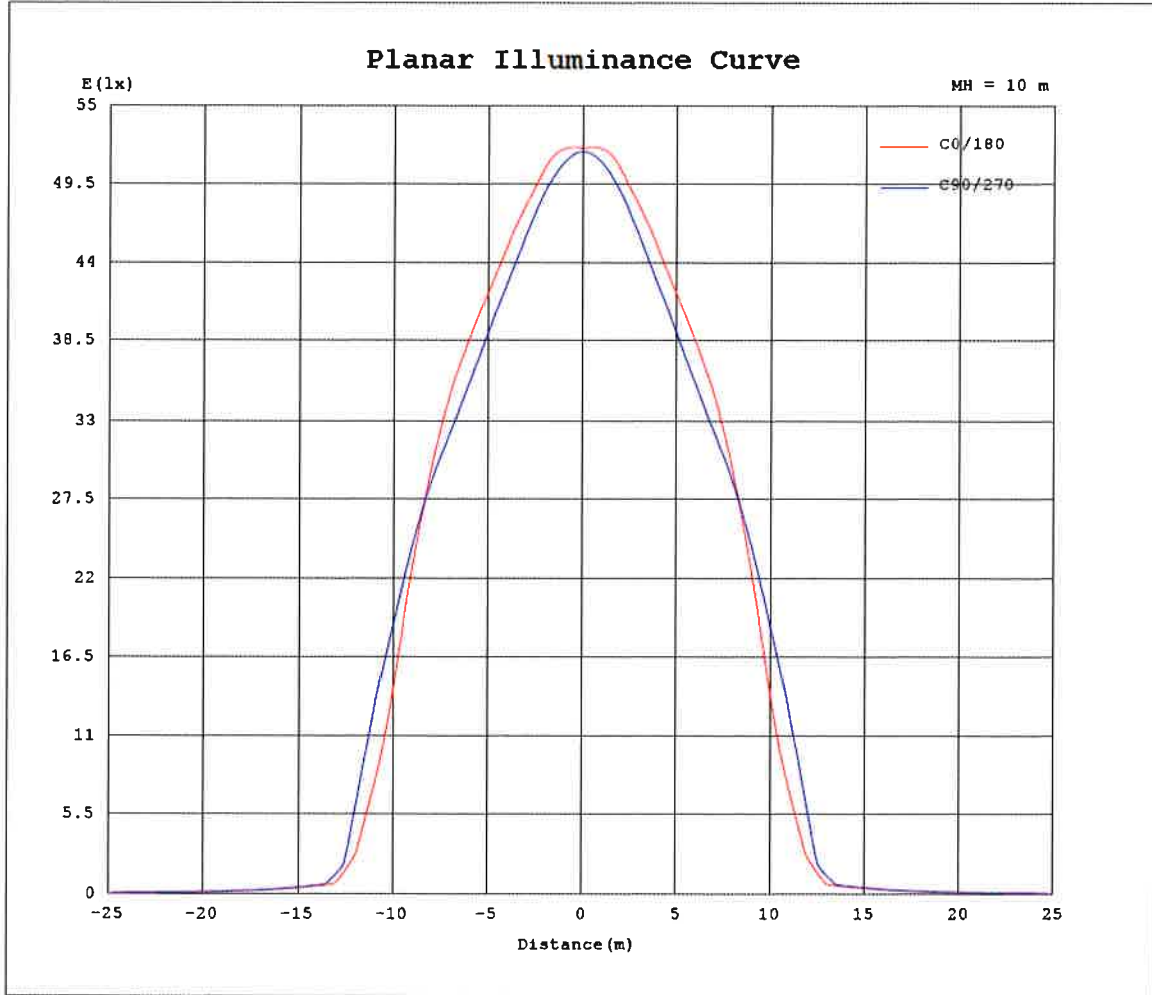
TL-806

19-TST-0045-49

03-19

2 Fotometrik Deney Sonuçları (Photometric Test Results)

Planar Illuminance Curve



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 16 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

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

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	115,6
Ölçülen Gerilim (V) (Input Voltage)	240,1
Ölçülen Akım (A) (Input Current)	0,4902
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	0,3191
Chrom y	0,3407
Duv	0,0060
Chrom u'	0,1979
Chrom v'	0,4754
Peak	452 nm
Dominant	498 nm
CCT	6114 K
Nominal CCT	6000 K
Ra(CRI)	82
R9	2
S/P Ratio	2,2
Preburning time	1 hr
Test Configuration	4π



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 17 / 19

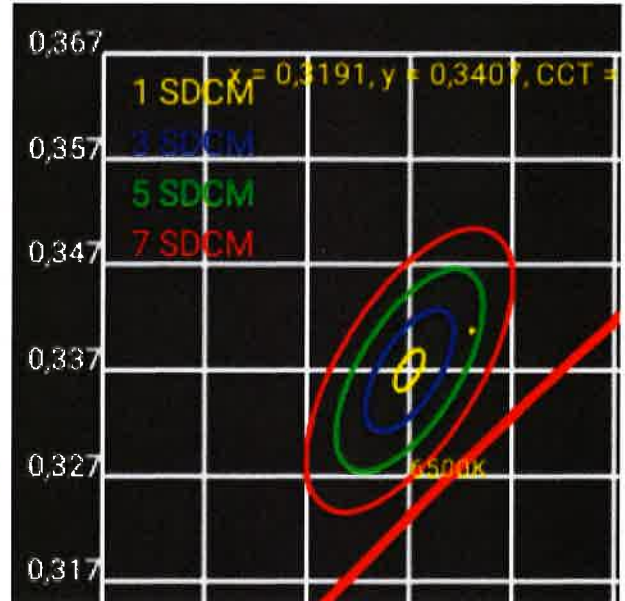
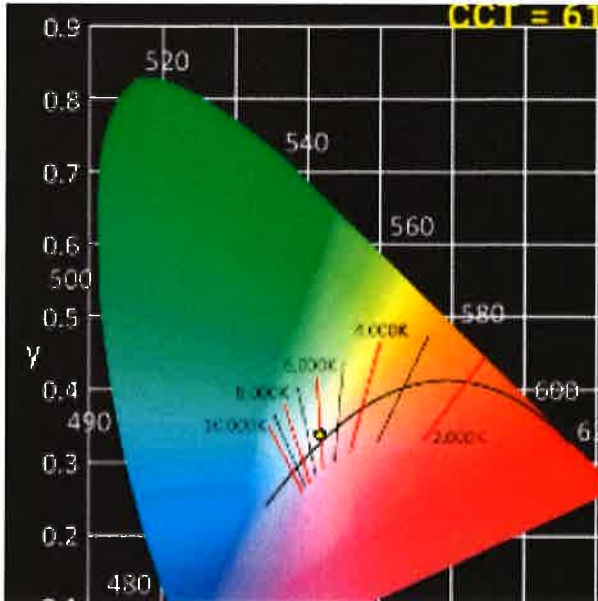
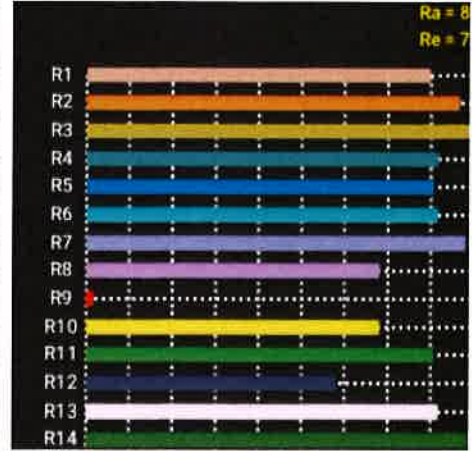
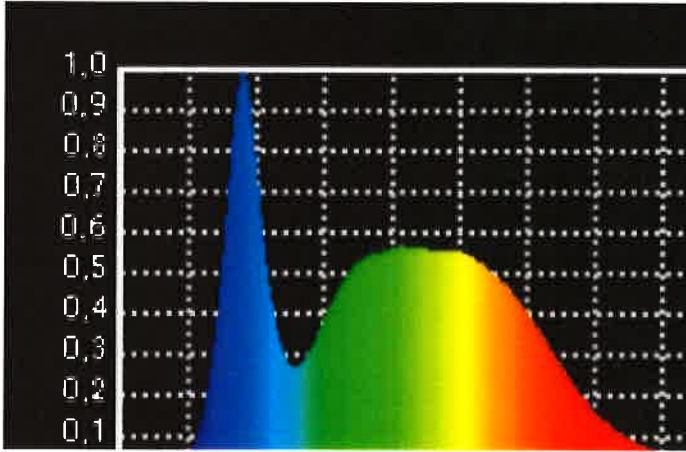
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

2 Spektrokolorimetrik Deney Sonuçları (Spectrocolorimetric Test Results)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 18 / 19

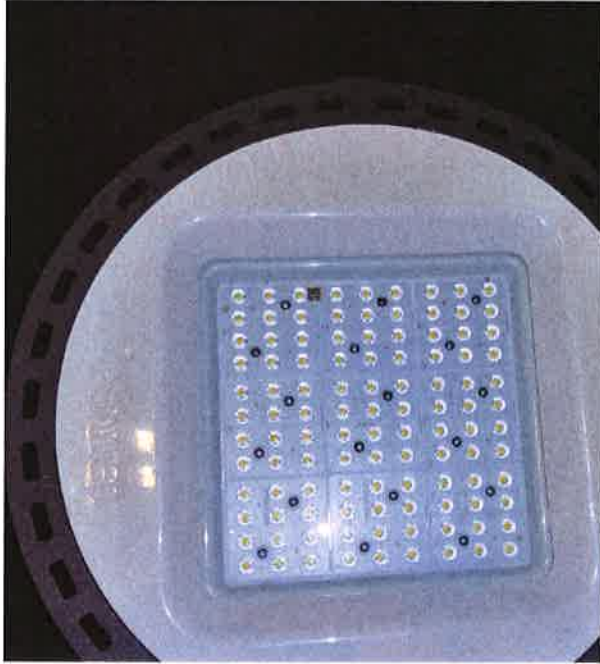
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

3.1 DGC'nin Fotoğrafları (Photos of EUT)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 19 / 19

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0045-49

03-19

3.1 DGC'nin Fotoğrafları (Photos of EUT)

