

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 1 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

Müşterinin Adı Adresi
Customer name/address

: HERA EĞLENCE VE MİMARİ AYDINLATMA SİSTEMLERİ A.Ş.
Güllübağlar Mah. Kahramanlar Cad. No:3-1 34906 PENDİK-
İSTANBUL/TÜRKİYE

İstek Numarası
Order No

: 19-TST-0095

Numunenin Adı ve Tarifi
Name and identity of test item

: Leoline® S12 915mm DMX SC WW Linear Medium Beam 30°

Numunenin kabul tarihi
The date of receipt of test item

: 31.07.2019

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

: 03.08.2019

Raporun Sayfa Sayısı
Number of Pages of the Report

:18

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.
International Accreditation Service, Inc. (IAS) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 2 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

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
2. Deney Sonuçları ve Koşulları (Test Results and Conditions)	5
2.1 Fotometrik Deney Sonuçları (Photometric Test Results)	5
2.2 Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results)	16
3.1 DGC'nin Fotoğrafları (Photos of EUT)	18



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 3 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

1.1

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

Markası / Brand

: HERA

Modeli / Model

: Leoline® S12 915mm DMX SC WW
Linear Medium Beam 30°

Seri Numarası / Serial Number

: Test Numunesi
Test Sample

Beyan Gücü / Rated Power

: 43,7 W

Beyan Gerilimi / Rated Voltage

: 48 VDC

Sembollerin Tanımı / Definitions of Symbols

DGC= Deneyden Geçen Cihaz
EUT=Equipment Under Test



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 4 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

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	05.06.2020	<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	28.05.2020	<input checked="" type="checkbox"/>

1.3 Komponent listesi (Component list)

Komponent (Components)	Üretici (Manufacturer)	Model (Model)	Teknik Bilgi (Technical Data)	Standart no. (Standart No.)
LED	Cree Inc	XTEAWT 2700-3000K White Led	Binned at 85 °C • Thermal resistance: 5 °C/W • Wide viewing angle: 115°-140° Maximum drive current: White 1.5 A, Royal Blue 1.5 A Maximum Vf for High Efficacy XT-E White: 2.85 V Available in 2200 K CCT	UL (E349212) RoHS REACH
PCB	PCB	C13088_R1.1	0.8mm FR4 4 Layers 35+35+35+35umCu/ BlackSolderMask/Whi teSilkScreen	IPC A 600 J Class II Revizyon J standardı (COC) IPC 6012 Class II UL FCC
LENS	LEDIL	CA11017_TINA2-M-30	Dimensions Ø 16.1 mm Height 9.7 mm	ANSI/ESD S20.20:2014 EN 61340-5- 1:2007

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

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 5 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)**Elektriksel Ölçümler**

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	42,22 W
Ölçülen Gerilim (V) (Input Voltage)	46,91 VDC
Ölçülen Akım (A) (Input Current)	0,90 A
Güç Faktörü (PF) (Power Factor)	-
Ölçülen Frekans (Hz) (Input Frequency)	-
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25,1 °C 49% Rh
Stabilizasyon Süresi (Stabilization Time)	60 dk ±5dk

Fotometrik Ölçüm Sonuçları

(Photometric Measurement Results)

Toplam Işık Akısı (Total Luminous Flux) (lm)	2980,6
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	8722
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	70,60



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 6 / 18

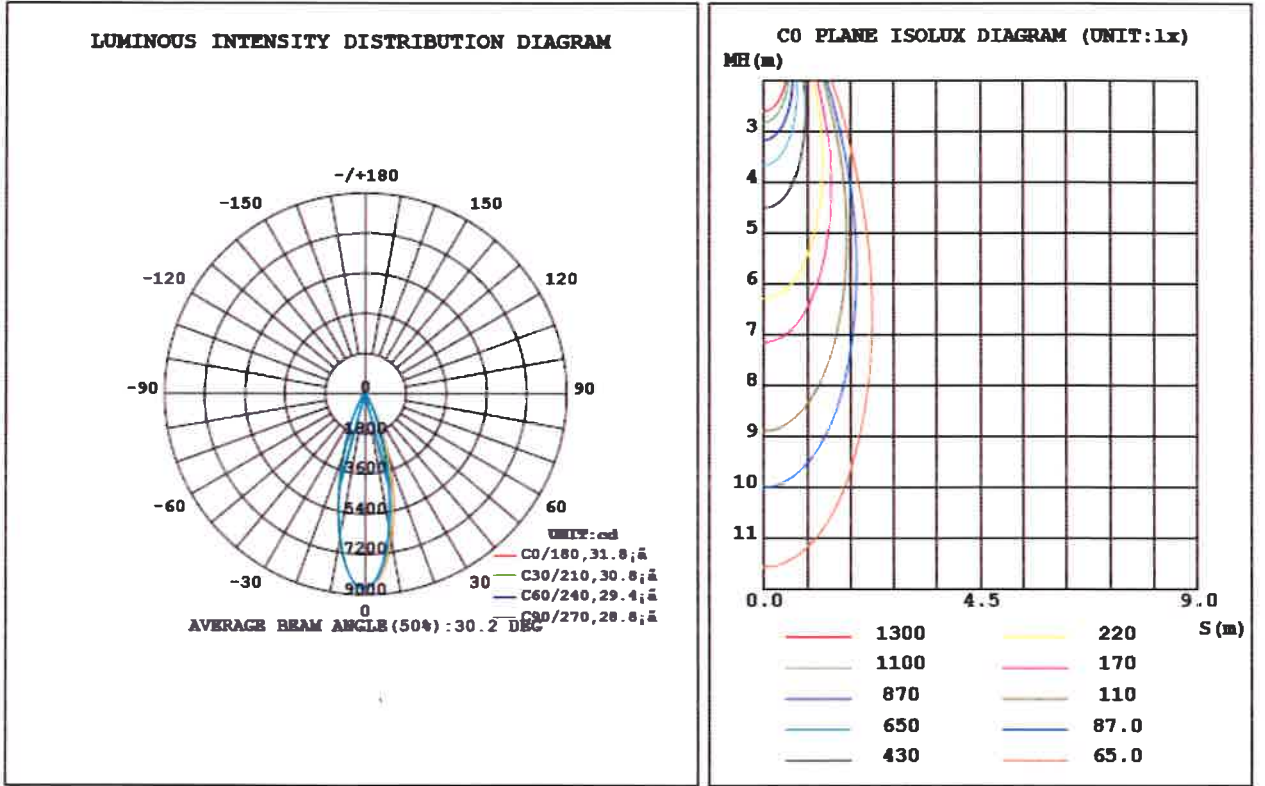
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 7 / 18

TL-806

19-TST-0095-
179

08-19

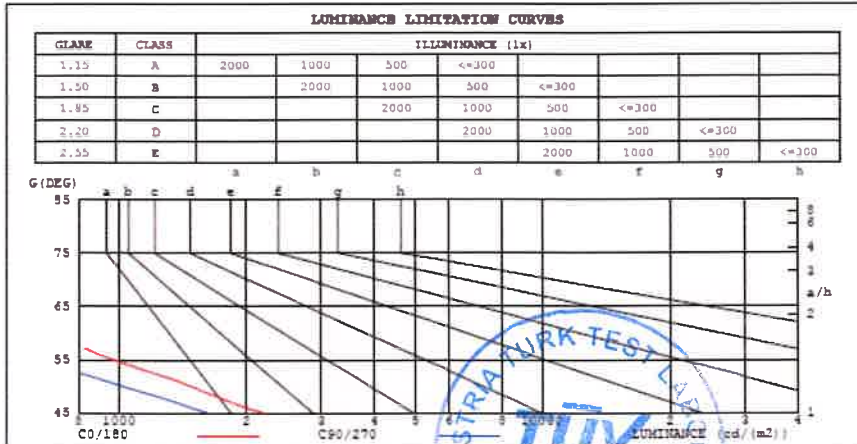
ÖLÇÜM RAPORU
MEASUREMENT REPORT

2.1 WW Fotometrik Denev Sonuřları (Photometric Test Results of the WW)

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

y	C0	C45	C90	C135	C180	C225	C270	C315	y	☉ some	☉ total	llum, lamp
5	8104	8104	8075	8068	8130	7997	7880	7919	0- 5	199.5	199.5	6.69, 6.69
10	6568	6489	6320	6382	6625	6268	6043	6216	5- 10	511.6	711.1	23.9, 23.9
15	4631	4494	4287	4260	4741	4228	3957	4218	10- 15	627.8	1339	44.9, 44.9
20	2927	2715	2549	2585	2925	2462	2271	2494	15- 20	561.1	1900	62.7, 62.7
25	1652	1495	1374	1403	1620	1210	1179	1227	20- 25	428.8	2309	77.3, 77.3
30	882.4	790.7	711.3	727.9	881.4	665.3	686.7	676.0	25- 30	260.2	2969	86.2, 86.2
35	472.2	414.2	375.7	390.5	449.7	339.9	296.2	281.7	30- 35	197.2	2726	91.8, 91.8
40	264.3	229.5	204.4	206.2	242.7	192.9	189.0	194.0	35- 40	94.88	2021	94.8, 94.8
45	155.1	131.5	114.4	117.5	139.1	104.4	88.34	110.2	40- 45	58.75	2880	98.6, 98.6
50	94.98	79.22	65.55	68.85	86.66	60.74	49.99	65.22	45- 50	37.44	2917	97.9, 97.9
55	55.30	47.00	38.91	41.94	51.22	27.76	20.02	39.99	50- 55	24.12	2941	98.7, 98.7
60	24.21	20.66	22.42	27.24	38.52	24.77	18.41	28.99	55- 60	15.81	2957	99.2, 99.2
65	22.79	18.81	13.89	17.01	28.17	16.23	11.81	16.40	60- 65	10.69	2948	99.6, 99.6
70	13.83	10.52	7.297	9.570	14.22	8.797	6.841	9.264	65- 70	6.778	2974	99.9, 99.9
75	6.992	5.011	3.498	4.727	7.817	4.496	3.274	4.892	70- 75	3.776	2978	99.9, 99.9
80	2.621	1.788	1.282	1.728	3.079	1.651	1.198	1.632	75- 80	1.724	2980	100,100
85	0.2792	0.1844	0.1222	0.2170	0.5765	0.1974	0.1061	0.1726	80- 85	0.4858	2980	100,100
90	0	0	0	0	0	0	0	0	85- 90	0.0209	2980	100,100
95	0	0	0	0	0	0	0	0	90- 95	0	2980	100,100
100	0	0	0	0	0	0	0	0	95-100	0	2980	100,100
105	0	0	0	0	0	0	0	0	100-105	0	2980	100,100
110	0	0	0	0	0	0	0	0	105-110	0	2980	100,100
115	0	0	0	0	0	0	0	0	110-115	0	2980	100,100
120	0	0	0	0	0	0	0	0	115-120	0	2980	100,100
125	0	0	0	0	0	0	0	0	120-125	0	2980	100,100
130	0	0	0	0	0	0	0	0	125-130	0	2980	100,100
135	0	0	0	0	0	0	0	0	130-135	0	2980	100,100
140	0	0	0	0	0	0	0	0	135-140	0	2980	100,100
145	0	0	0	0	0	0	0	0	140-145	0	2980	100,100
150	0	0.0087	0	0.0087	0	0	0	0	145-150	0.0080	2980	100,100
155	0.0828	0.1594	0.1771	0.1230	0	0.0075	0.0072	0	150-155	0.0066	2980	100,100
160	0.8015	0.3826	0.4312	0.3002	0.0873	0.0836	0.0842	0.0866	155-160	0.0277	2980	100,100
165	0.4569	0.3462	0.3914	0.4415	0.1887	0.1627	0.1844	0.1279	160-165	0.0442	2980	100,100
170	0.5406	0.6279	0.6662	0.5291	0.2584	0.2236	0.1956	0.1961	165-170	0.0441	2981	100,100
175	0.5424	0.6326	0.5965	0.5557	0.2192	0.2142	0.2401	0.2424	170-175	0.0299	2981	100,100
180	0.5426	0.5949	0.5418	0.5054	0.5494	0.5976	0.5045	0.4865	175-180	0.0112	2981	100,100



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
95	44	14
80	151	74
75	266	125
70	404	213
65	529	222
60	684	449
55	964	644
50	1479	1020
45	2194	1619

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 8 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

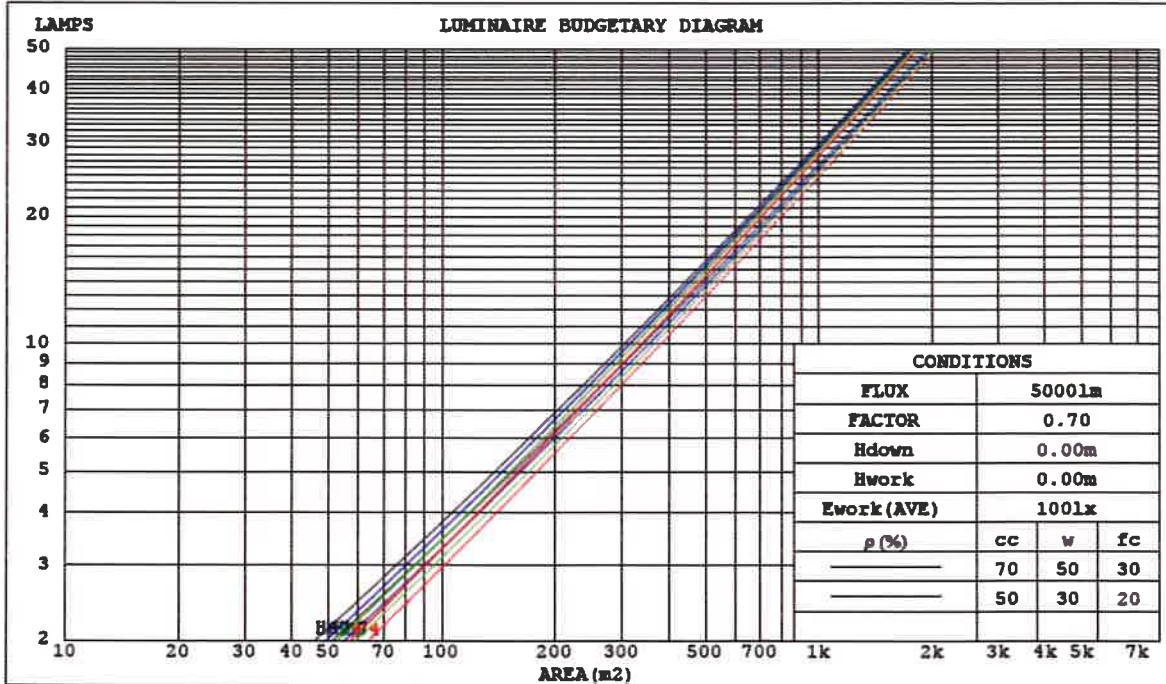
19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρcc	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.96
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.96	.93	.92	.90
3.0	.00	.96	.92	.99	.96	.92	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82
5.0	.90	.86	.82	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.81	.78	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.72
8.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66
10.0	.73	.69	.65	.73	.68	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.64



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 9 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Denev Sonuları (Photometric Test Results of the WW)

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	.156	.089	.028	.149	.085	.027	.137	.078	.025	.125	.072	.023	.115	.066	.021	
2.0	.147	.081	.025	.141	.078	.024	.131	.073	.023	.121	.068	.021	.113	.064	.020	
3.0	.138	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.109	.061	.019	
4.0	.131	.068	.020	.127	.066	.020	.119	.063	.019	.112	.060	.018	.106	.058	.018	
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016	
6.0	.117	.059	.017	.115	.058	.017	.109	.056	.016	.104	.054	.016	.099	.052	.015	
7.0	.112	.055	.016	.109	.054	.016	.104	.053	.015	.100	.051	.015	.095	.050	.015	
8.0	.107	.052	.015	.104	.051	.015	.100	.050	.014	.096	.049	.014	.092	.047	.014	
9.0	.102	.049	.014	.100	.049	.014	.096	.048	.013	.093	.046	.013	.089	.045	.013	
10.0	.098	.047	.013	.096	.046	.013	.093	.045	.013	.089	.044	.013	.086	.043	.012	

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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.028	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	



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

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 10 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)

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	8.6	9.4	8.9	9.6	9.7	7.3	8.1	7.5	8.2	8.4
3H	8.7	9.4	8.9	9.6	9.8	7.2	8.0	7.5	8.1	8.3
4H	8.7	9.3	8.9	9.6	9.8	7.2	7.9	7.4	8.1	8.3
6H	8.6	9.2	8.9	9.5	9.7	7.1	7.7	7.4	8.0	8.2
8H	8.6	9.2	8.9	9.4	9.7	7.0	7.7	7.3	7.9	8.2
12H	8.5	9.1	8.8	9.4	9.6	7.0	7.6	7.3	7.9	8.1
4H 2H	8.5	9.2	8.8	9.4	9.6	7.2	7.9	7.5	8.1	8.3
3H	8.6	9.2	8.9	9.5	9.7	7.2	7.8	7.5	8.1	8.3
4H	8.6	9.1	8.9	9.4	9.7	7.1	7.7	7.5	8.0	8.3
6H	8.5	9.0	8.9	9.3	9.7	7.0	7.5	7.4	7.9	8.2
8H	8.5	8.9	8.9	9.3	9.6	7.0	7.4	7.4	7.8	8.2
12H	8.4	8.8	8.8	9.2	9.6	6.9	7.4	7.3	7.7	8.1
8H 4H	8.4	8.9	8.8	9.2	9.6	7.0	7.5	7.4	7.8	8.2
6H	8.4	8.7	8.8	9.1	9.6	6.9	7.3	7.4	7.7	8.1
8H	8.3	8.7	8.8	9.1	9.5	6.9	7.2	7.3	7.6	8.1
12H	8.3	8.6	8.7	9.0	9.5	6.8	7.1	7.3	7.5	8.0
12H 4H	8.4	8.8	8.8	9.2	9.6	7.0	7.4	7.4	7.7	8.1
6H	8.3	8.6	8.8	9.1	9.5	6.9	7.2	7.3	7.6	8.1
8H	8.3	8.6	8.7	9.0	9.5	6.8	7.1	7.3	7.5	8.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 3.7					+ 2.2 / - 4.7				
1.5H	+ 3.6 / - 2.9					+ 3.4 / - 3.4				
2.0H	+ 3.7 / - 3.0					+ 3.6 / - 3.1				

CIE Pub.117 Corrected 2981 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.8)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 11 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)**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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	88	82	78	87	81	78	76
0.80	96	90	86	96	89	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	96	103	98	96	101	97	94	90
1.50	106	102	98	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004	Suspended						SEASON = 1.25			



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 12 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

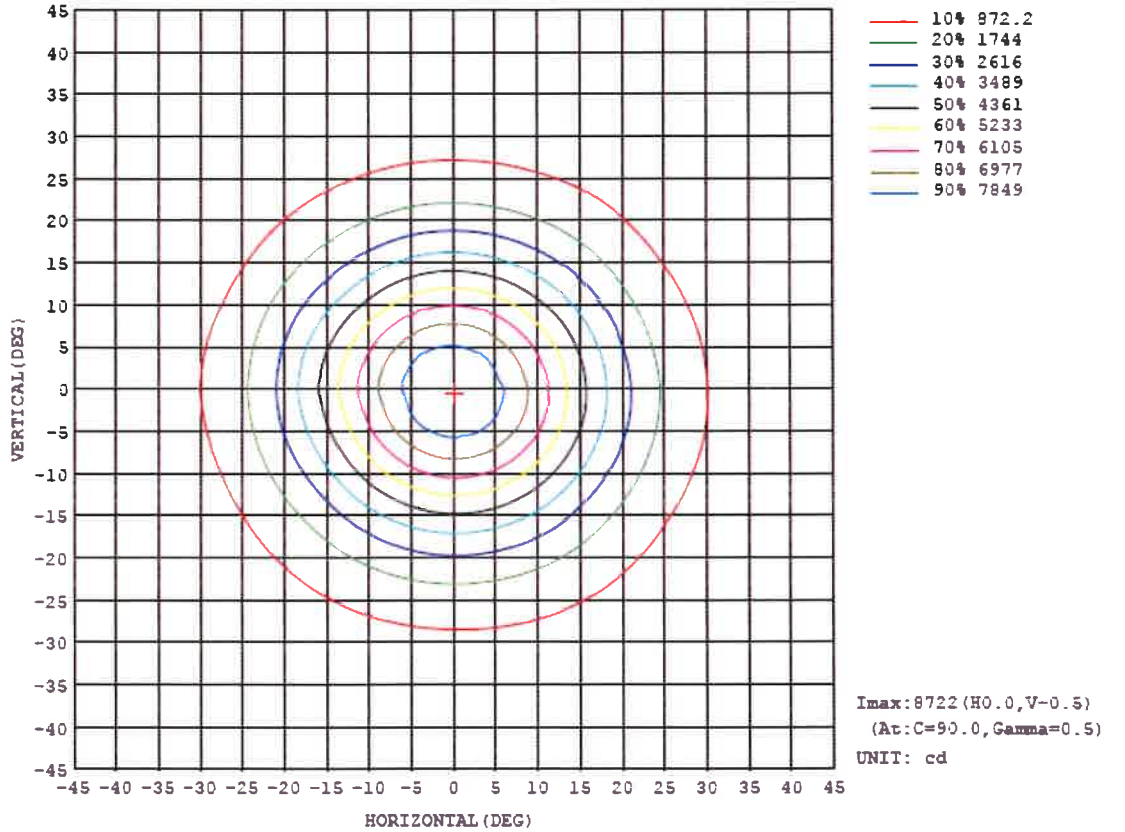
TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)

ISOCANDELA DIAGRAM



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

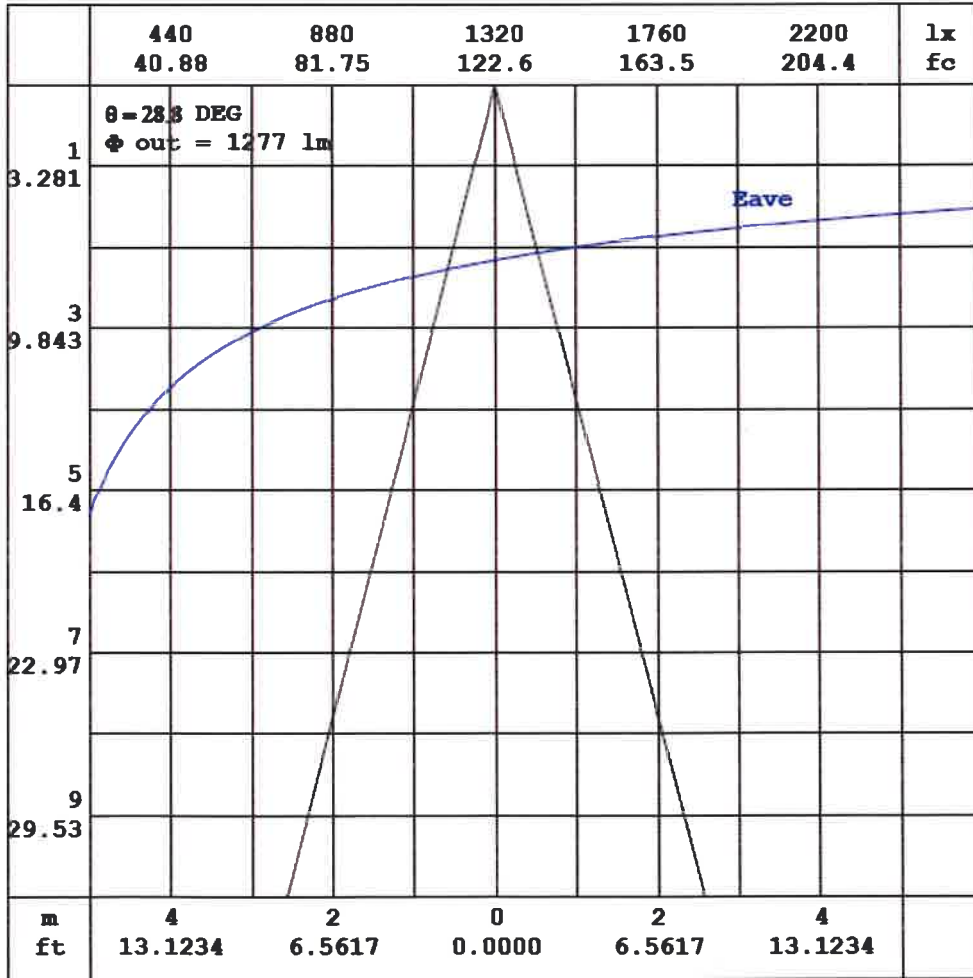
Sayfa / Page : 13 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)**AAI CURVES**

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



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

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 14 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

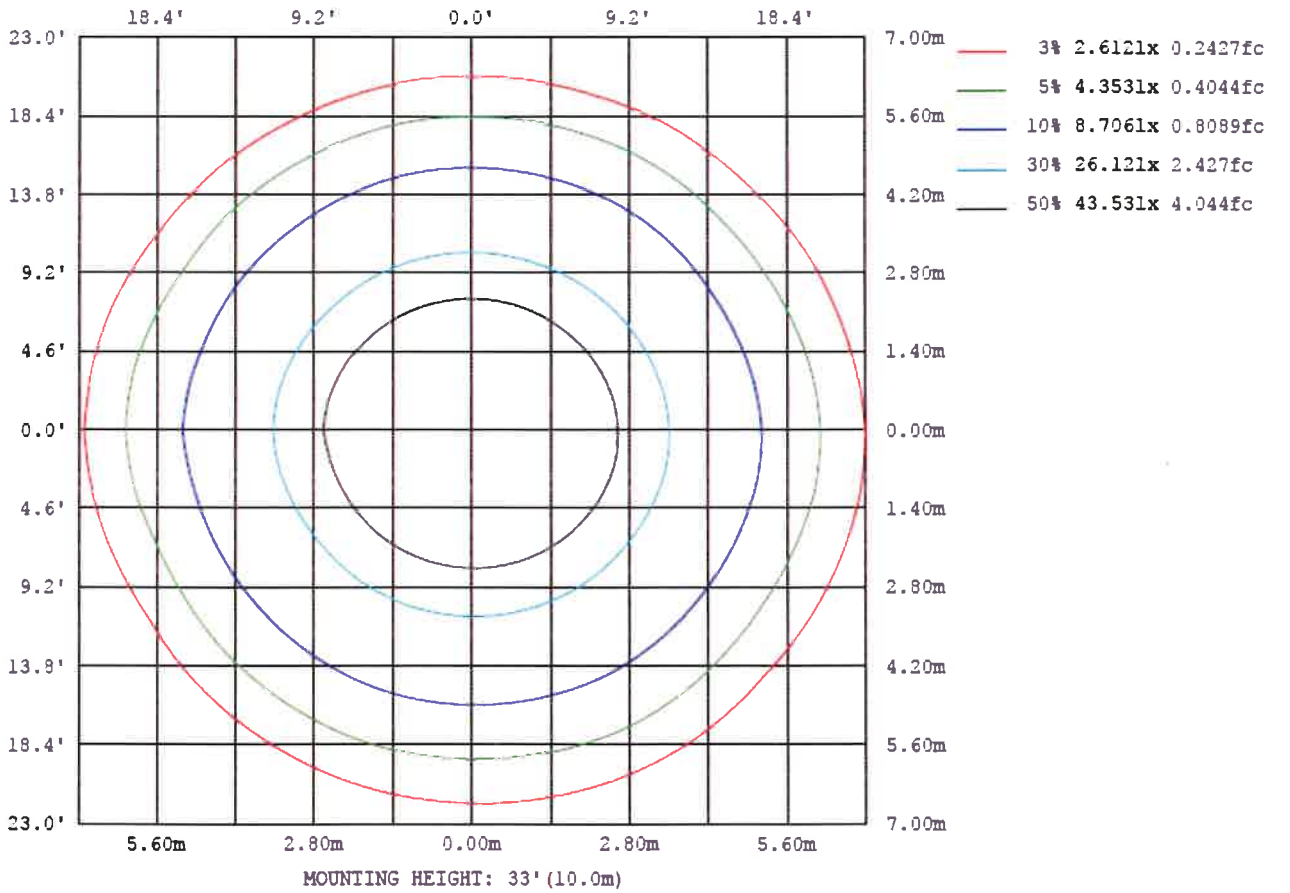
TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deneş Sonuřları (Photometric Test Results of the WW)

ISOLUX DIAGRAM



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 15 / 18

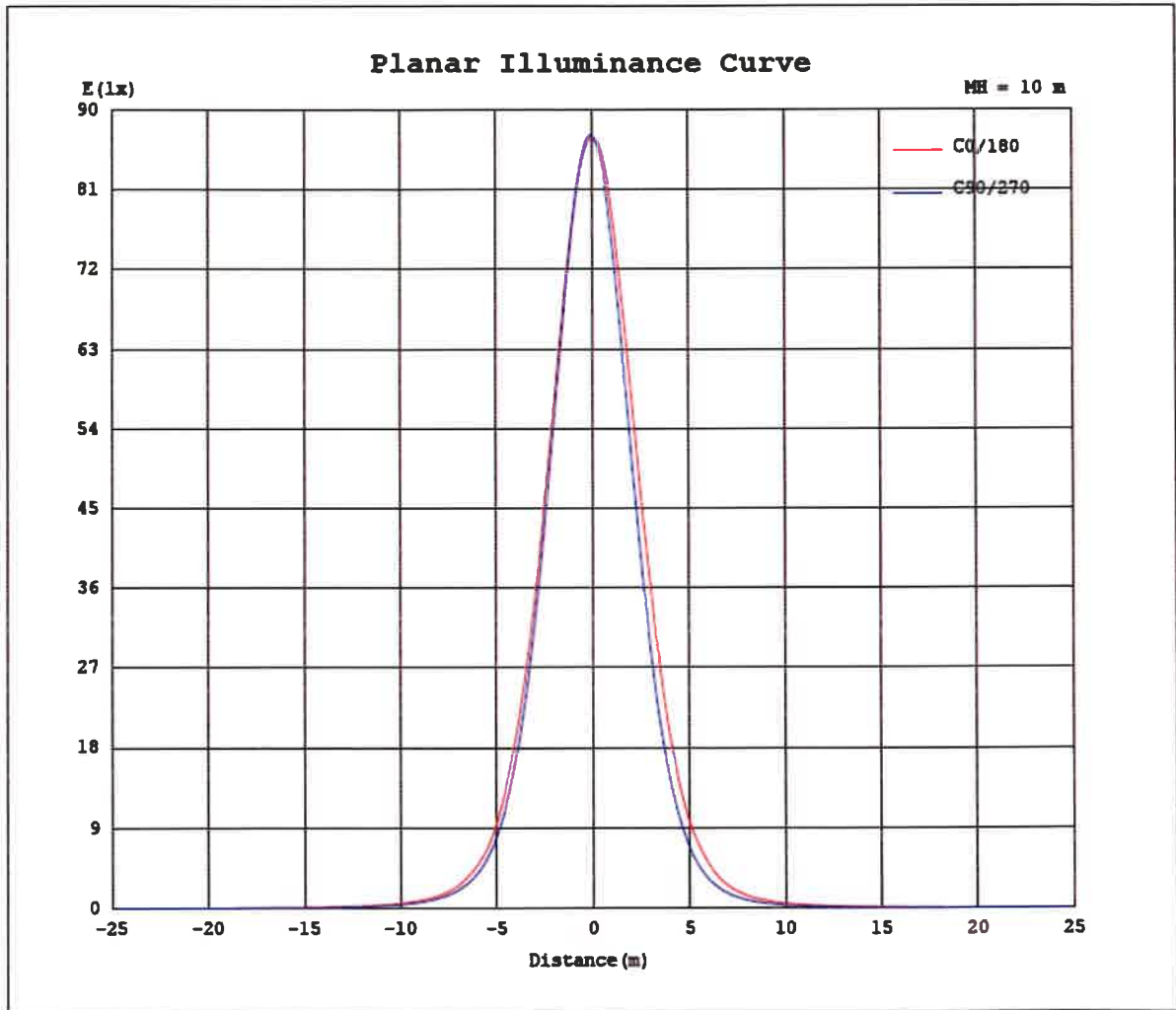
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.1 WW Fotometrik Deney Sonuçları (Photometric Test Results of the WW)



Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 16 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

2.2 WW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the WW)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	42,22 W
Ölçülen Gerilim (V) (Input Voltage)	46,91 VDC
Ölçülen Akım (A) (Input Current)	0,90 A
Güç Faktörü (PF) (Power Factor)	-
Ölçülen Frekans (Hz) (Input Frequency)	-
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25.1 °C 49% Rh
Stabilizasyon Süresi (Stabilization Time)	60 dk ±5dk

Spektrokolorimetrik Ölçüm Sonuçları

(Spectrocolorimetric Measurement Results)

Chrom x	0,4388
Chrom y	0,4131
Duv	0,0033
Chrom u'	0,2479
Chrom v'	0,5251
Peak	594 nm
Dominant	582 nm
CCT	3041 K
Nominal CCT	-
Ra(CRI)	71
R9	-32
S/P Ratio	1,2
Preburning time	1 hr
Test Configuration	4π



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

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 17 / 18

ÖLÇÜM RAPORU
MEASUREMENT REPORT

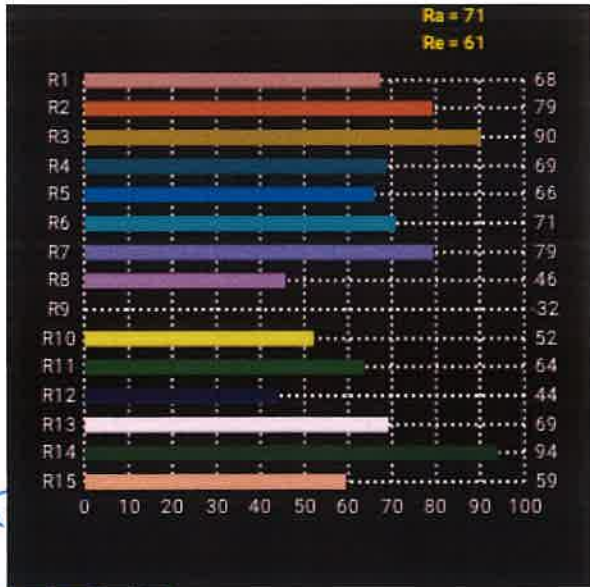
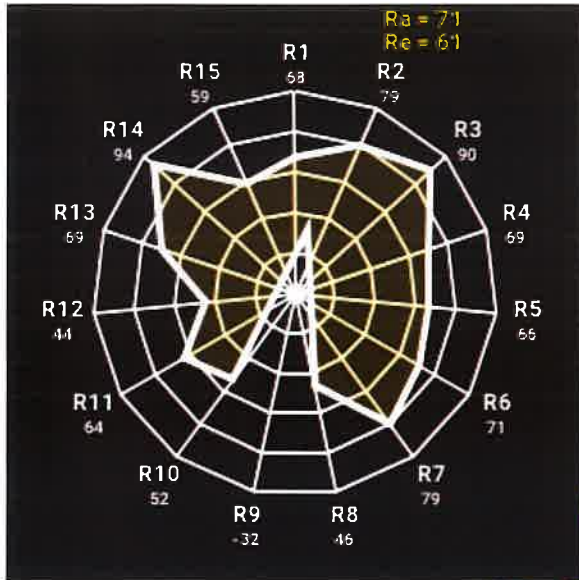
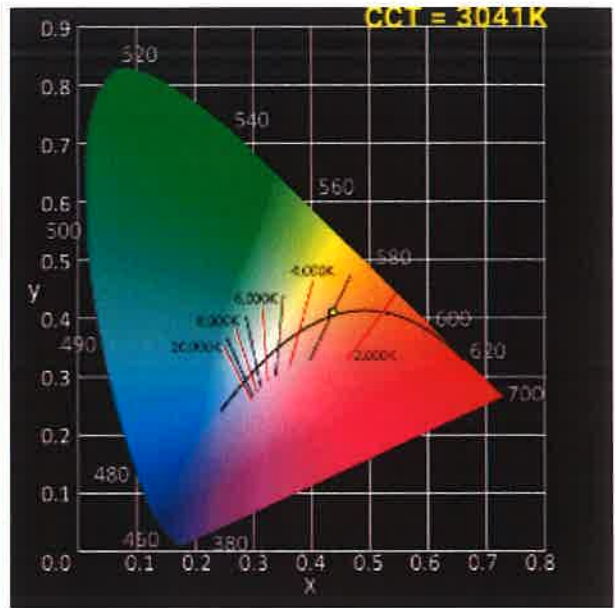
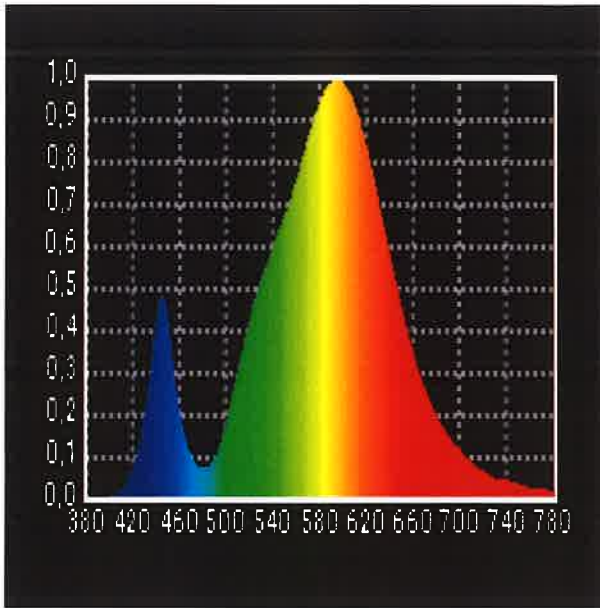
TL-806

19-TST-0095-
179

08-19

2.2 WW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the WW)

Spectral Power Distribution



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

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.

Doc No: FRM-LAB-009a

Rev.No/Date: 02 / 11.01.2019

Sayfa / Page : 18 / 18

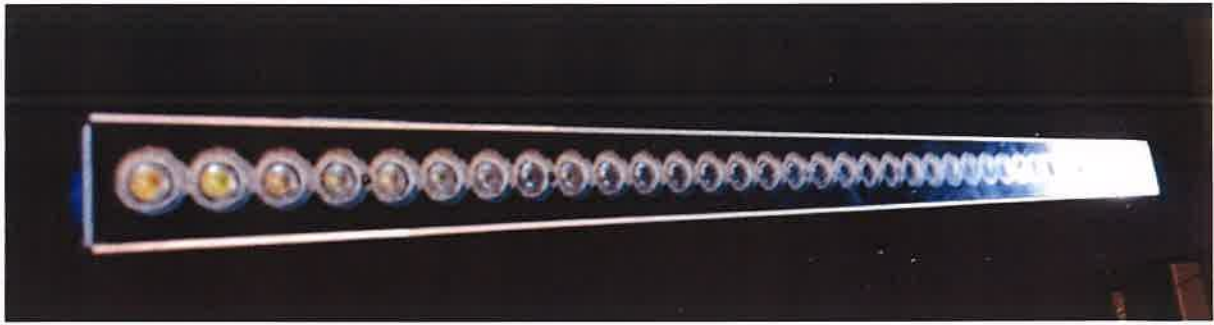
ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
179

08-19

3.1 DGC'nin Fotoğrafları (Photos of EUT)



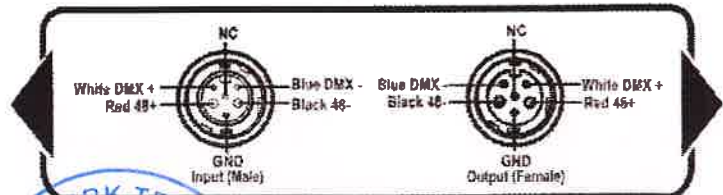
hera
entertainment & architecture lighting

CE FC III

RoHS compliant IP67



P02022072 Leoline®S12 915mm DMX SC Linear Medium Beam 30°
48V DC / Max. 0.91A / Max. 43.7W
Ta: 50°



Address: Güllübağlar Mah. Kahramanlar Cad. No. 3/1 Pendik / İstanbul / Turkey
www.heraled.com Made in Turkey