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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
201

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 CW 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

: 02.08.2019

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.
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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

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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 CW
Linear Medium Beam 30°

Seri Numarası / Serial Number

: Test Numunesi
Test Sample

Beyan Gücü / Rated Power

: 46 W

Beyan Gerilimi / Rated Voltage

: 48 VDC

Sembollerin Tanımı / Definitions of Symbols

DGC= Deneyden 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	05.06.2020	<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 (Component)	Üretici (Manufacturer)	Model (Model)	Teknik Bilgi (Technical Data)	Standart no. (Standart No.)
LED	Cree Inc	XTEAWT 6500K White Led	Binned at 85 °C • Thermal resistance: 5 °C/W • Wide viewing angle: 115°-140° Unlimited floor life at ≤ 30 °C/85% Maximum drive current: White 1.5 A, Royal Blue 1.5 A Maximum Vf for High Efficacy XT-E White: 2.85 V	UL (E349212) RoHS REACH
PCB	PCB	C13088_R1.1	0.8mm FR4 4 Layers 35+35+35+35umCu/ BlackSolderMask/WhiteSilkScreen	IPC A 600 J Class II Revizyon J standardı (COC) IPC 6012 Class II UL FQC
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

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

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	45,44 W
Ölçülen Gerilim (V) (Input Voltage)	46,86 VDC
Ölçülen Akım (A) (Input Current)	0,97 A
Güç Faktörü (PF) (Power Factor)	-
Ölçülen Frekans (Hz) (Input Frequency)	-
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25,1 °C 48% Rh
Stabilizasyon Süresi (Stabilization Time)	60 dk ±5dk

Fotometrik Ölçüm Sonuçları

(Photometric Measurement Results)

Toplam Işık Akısı (Total Luminous Flux) (lm)	2893,9
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	8845
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	63,69



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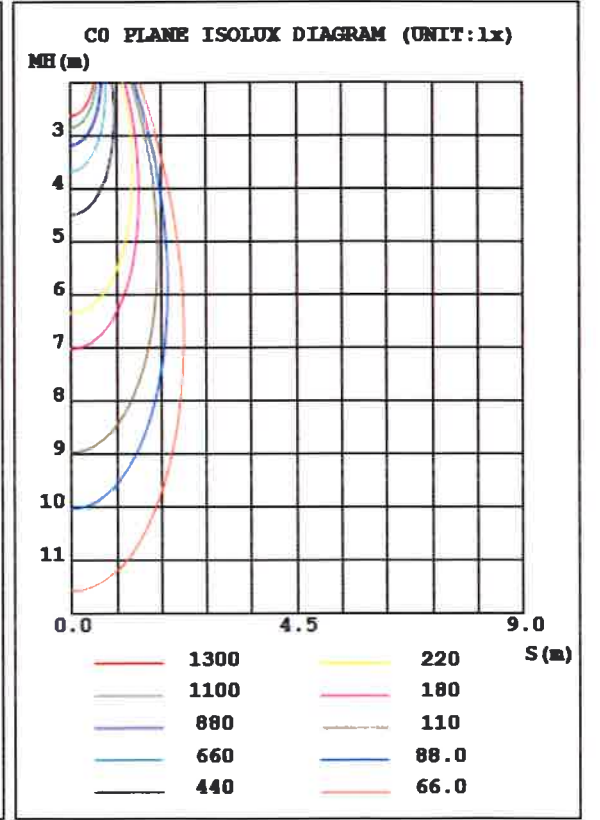
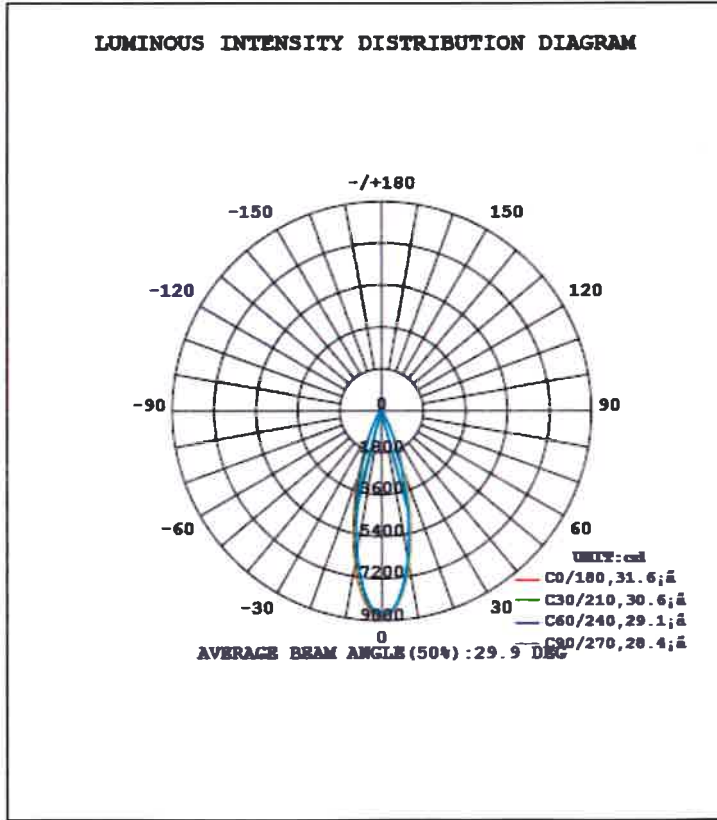
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)



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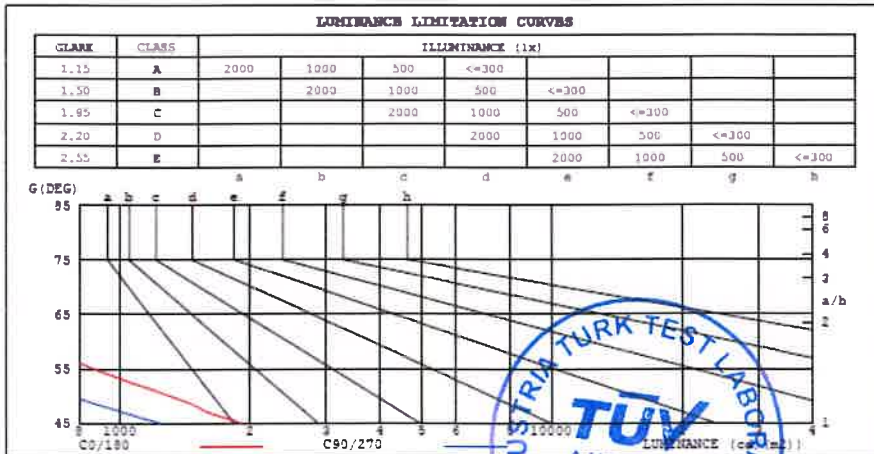
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ_{zone}	ϕ_{total}	lum.lim
5	8279	8045	7849	7612	8270	8190	8083	8076	0- 5	200.8	200.8	8.94.6.94
10	6721	6206	5956	6087	6729	6826	6286	6682	5- 10	914.6	715.5	24.7.24.7
15	4749	4246	3837	4012	4754	4425	4234	4434	10- 15	627.9	1242	46.4.46.4
20	2945	2454	2143	2295	2866	2870	2423	2626	15- 20	552.3	1896	65.9.65.5
25	1629	1295	1100	1210	1578	1324	1230	1282	20- 25	391.7	2288	79.79
30	841.1	648.4	580.7	609.9	820.6	639.1	591.4	679.7	25- 30	240.9	2528	87.4.87.4
35	427.1	322.7	288.2	314.2	410.4	313.7	291.4	341.1	30- 35	140.6	2469	92.2.92.2
40	224.0	182.1	163.4	170.0	218.5	168.6	181.8	184.0	35- 40	82.21	2752	95.1.95.1
45	125.1	104.2	87.77	97.12	124.0	96.86	82.89	104.5	40- 45	50.96	2803	96.9.96.9
50	82.80	62.87	49.24	57.83	81.06	59.33	49.59	62.62	45- 50	32.72	2826	99.98
55	49.70	38.70	29.12	35.98	49.54	35.35	30.09	38.86	50- 55	21.63	2837	99.7.99.7
60	31.62	25.07	18.54	22.70	31.86	25.39	19.50	25.06	55- 60	14.54	2872	99.2.99.2
65	21.49	18.42	11.09	14.66	21.86	16.20	12.30	15.98	60- 65	9.923	2882	99.6.99.6
70	12.93	8.487	5.818	8.086	13.15	9.288	6.922	8.994	65- 70	6.297	2888	99.8.99.8
75	6.237	4.148	2.810	3.954	6.898	4.624	3.402	4.476	70- 75	3.480	2892	99.9.99.9
80	2.542	1.250	0.9579	1.242	2.895	1.729	1.281	1.620	75- 80	1.592	2893	100.100
85	0.3202	0.0676	0.0185	0.1000	0.4822	0.1948	0.1115	0.1466	80- 85	0.4287	2894	100.100
90	0	0	0	0	0	0	0	0	85- 90	0.0127	2894	100.100
95	0	0	0	0	0	0	0	0	90- 95	0	2894	100.100
100	0	0	0	0	0	0	0	0	95-100	0	2894	100.100
105	0	0	0	0	0	0	0	0	100-105	0	2894	100.100
110	0	0	0	0	0	0	0	0	105-110	0	2894	100.100
115	0	0	0	0	0	0	0	0	110-115	0	2894	100.100
120	0	0	0	0	0	0	0	0	115-120	0	2894	100.100
125	0	0	0	0	0	0	0	0	120-125	0	2894	100.100
130	0	0	0	0	0	0	0	0	125-130	0	2894	100.100
135	0	0	0	0	0	0	0	0	130-135	0	2894	100.100
140	0	0	0	0	0	0	0	0	135-140	0	2894	100.100
145	0	0	0	0	0	0	0	0	140-145	0	2894	100.100
150	0	0.0040	0	0.0002	0	0	0	0	145-150	0.0000	2894	100.100
155	0.0416	0.1561	0.1911	0.1220	0	0.0000	0	0	150-155	0.0066	2894	100.100
160	0.2917	0.3864	0.4558	0.3169	0.0889	0.0741	0.0582	0.0276	155-160	0.0270	2894	100.100
165	0.4479	0.5488	0.6189	0.4584	0.1909	0.1860	0.1347	0.1188	160-165	0.0440	2894	100.100
170	0.5258	0.6288	0.6846	0.5847	0.2610	0.2201	0.1886	0.1841	165-170	0.0441	2894	100.100
175	0.5286	0.6251	0.5970	0.5628	0.3212	0.3109	0.2276	0.2281	170-175	0.0294	2894	100.100
180	0.5507	0.6014	0.5402	0.5099	0.5551	0.5602	0.4901	0.4810	175-180	0.0112	2894	100.100



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
55	28	2
60	146	55
75	245	109
70	278	170
65	509	262
60	632	371
55	866	508
50	1204	766
45	1911	1241

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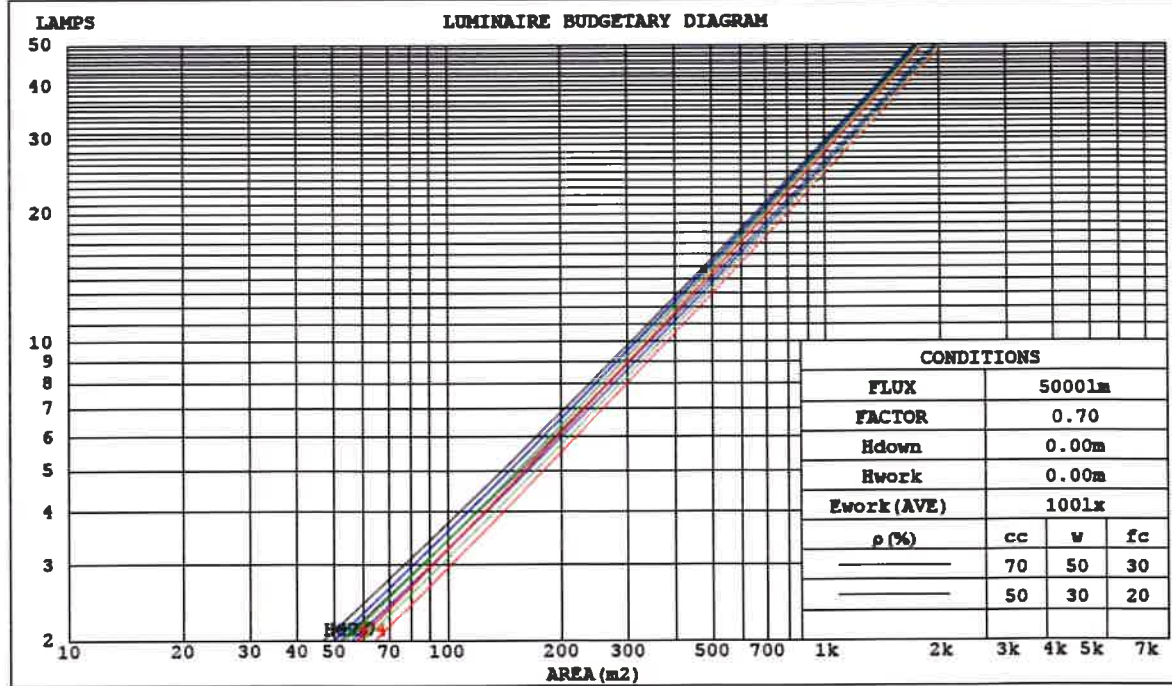
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	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	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.82	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.79	.86	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.83	.78	.75	.82	.77	.74	.80	.77	.74	.79	.76	.74	.73
8.0	.80	.75	.72	.79	.76	.72	.78	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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

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	.154	.088	.028	.147	.084	.027	.135	.077	.025	.123	.071	.023	.113	.065	.021	
2.0	.145	.079	.024	.139	.077	.024	.129	.072	.022	.119	.067	.021	.111	.063	.020	
3.0	.136	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.107	.059	.018	
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.056	.017	
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.110	.054	.015	.107	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014	
8.0	.105	.051	.014	.103	.051	.014	.098	.049	.014	.094	.048	.014	.091	.047	.014	
9.0	.100	.049	.014	.098	.048	.013	.095	.047	.013	.091	.046	.013	.088	.044	.013	
10.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.012	.085	.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	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.040	.061	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	



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

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	7.7	8.5	7.9	8.6	8.8	5.7	6.4	5.9	6.6	6.7
3H	7.8	8.5	8.0	8.7	8.9	5.6	6.3	5.9	6.5	6.7
4H	7.8	8.4	8.0	8.7	8.9	5.5	6.2	5.8	6.4	6.7
6H	7.7	8.3	8.0	8.6	8.8	5.5	6.1	5.8	6.3	6.6
8H	7.7	8.3	8.0	8.5	8.8	5.4	6.0	5.7	6.3	6.5
12H	7.6	8.2	7.9	8.5	8.7	5.4	6.0	5.7	6.2	6.5
4H 2H	7.6	8.3	7.9	8.5	8.7	5.6	6.3	5.9	6.5	6.7
3H	7.7	8.3	8.0	8.5	8.8	5.6	6.2	5.9	6.4	6.7
4H	7.7	8.2	8.0	8.5	8.8	5.5	6.1	5.9	6.4	6.7
6H	7.6	8.1	8.0	8.4	8.8	5.4	5.9	5.8	6.3	6.6
8H	7.6	8.0	7.9	8.4	8.7	5.4	5.8	5.8	6.2	6.6
12H	7.5	7.9	7.9	8.3	8.7	5.3	5.7	5.8	6.1	6.5
8H 4H	7.5	8.0	7.9	8.3	8.7	5.4	5.9	5.8	6.2	6.6
6H	7.5	7.8	7.9	8.2	8.6	5.3	5.7	5.8	6.1	6.5
8H	7.4	7.7	7.9	8.2	8.6	5.3	5.6	5.7	6.0	6.5
12H	7.4	7.6	7.8	8.1	8.6	5.2	5.5	5.7	5.9	6.4
12H 4H	7.5	7.9	7.9	8.3	8.6	5.4	5.8	5.8	6.1	6.5
6H	7.4	7.7	7.9	8.2	8.6	5.3	5.6	5.7	6.0	6.5
8H	7.4	7.6	7.8	8.1	8.5	5.2	5.5	5.7	5.9	6.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 3.5					+ 2.0 / - 4.4				
1.5H	+ 3.9 / - 3.0					+ 3.2 / - 3.1				
2.0H	+ 3.8 / - 3.1					+ 3.4 / - 2.9				

CIE Pub.117 Corrected 2894 lm Total Lamp Luminous Flux. ($\theta_{log}(F/F_0) = 3.7$)



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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)**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	0.6	0.3	0.7	0.6	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	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	95	91	99	94	91	98	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	106	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
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						SEAWOM = 1.25			



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

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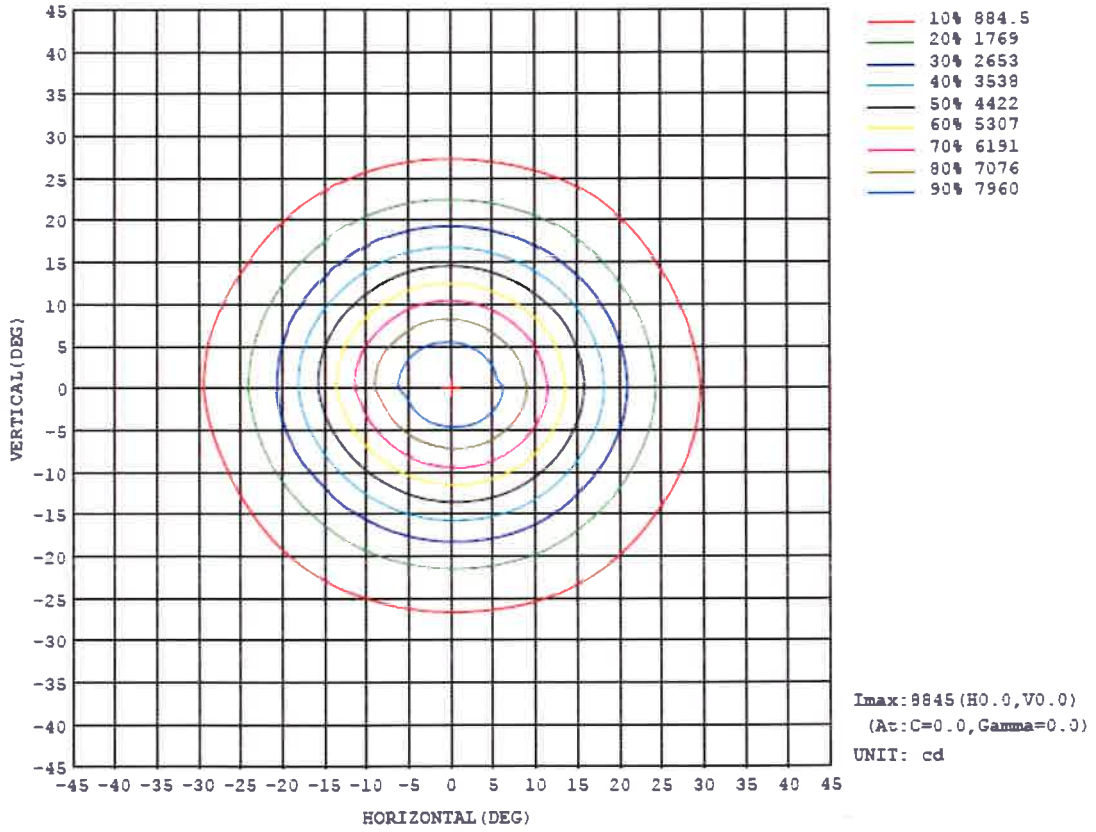
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

ISOCANDELA DIAGRAM



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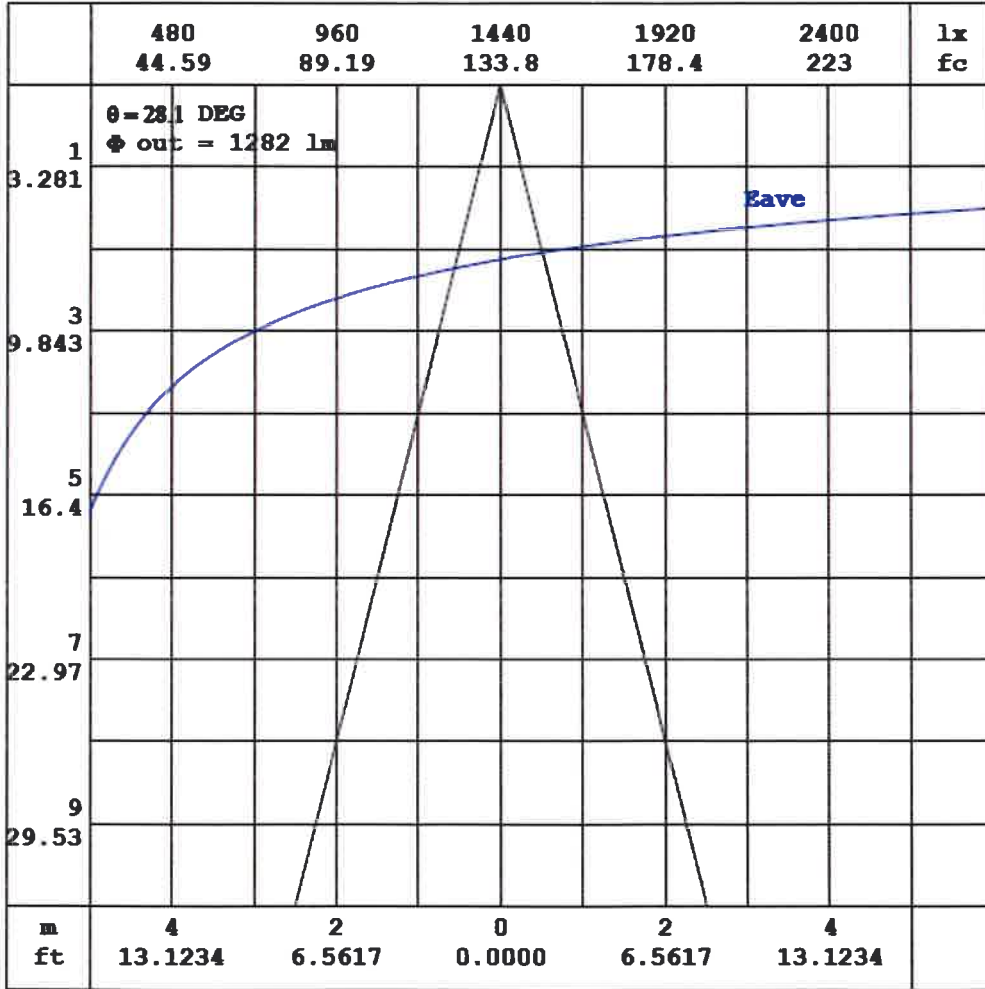
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)**AAI CURVES**

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



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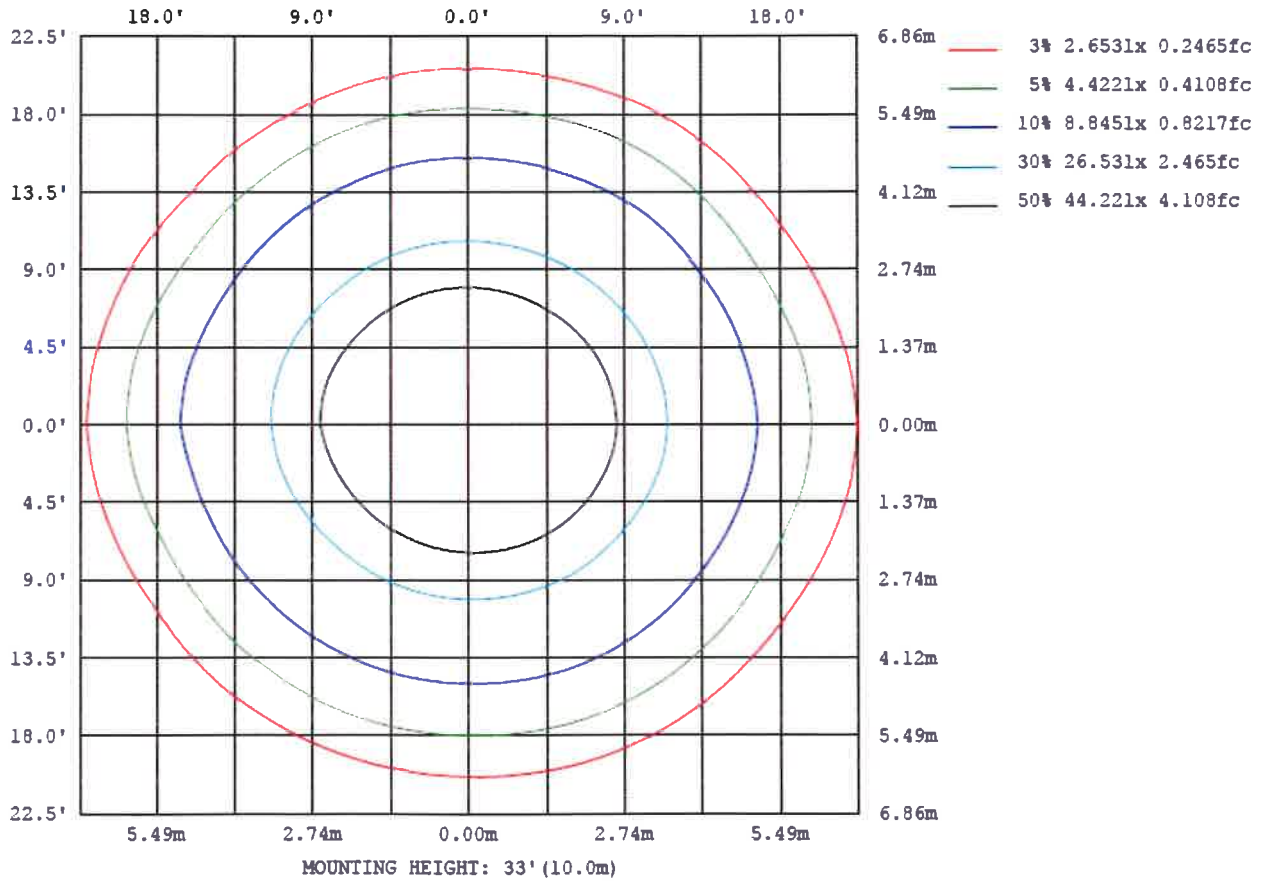
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

ISOLUX DIAGRAM



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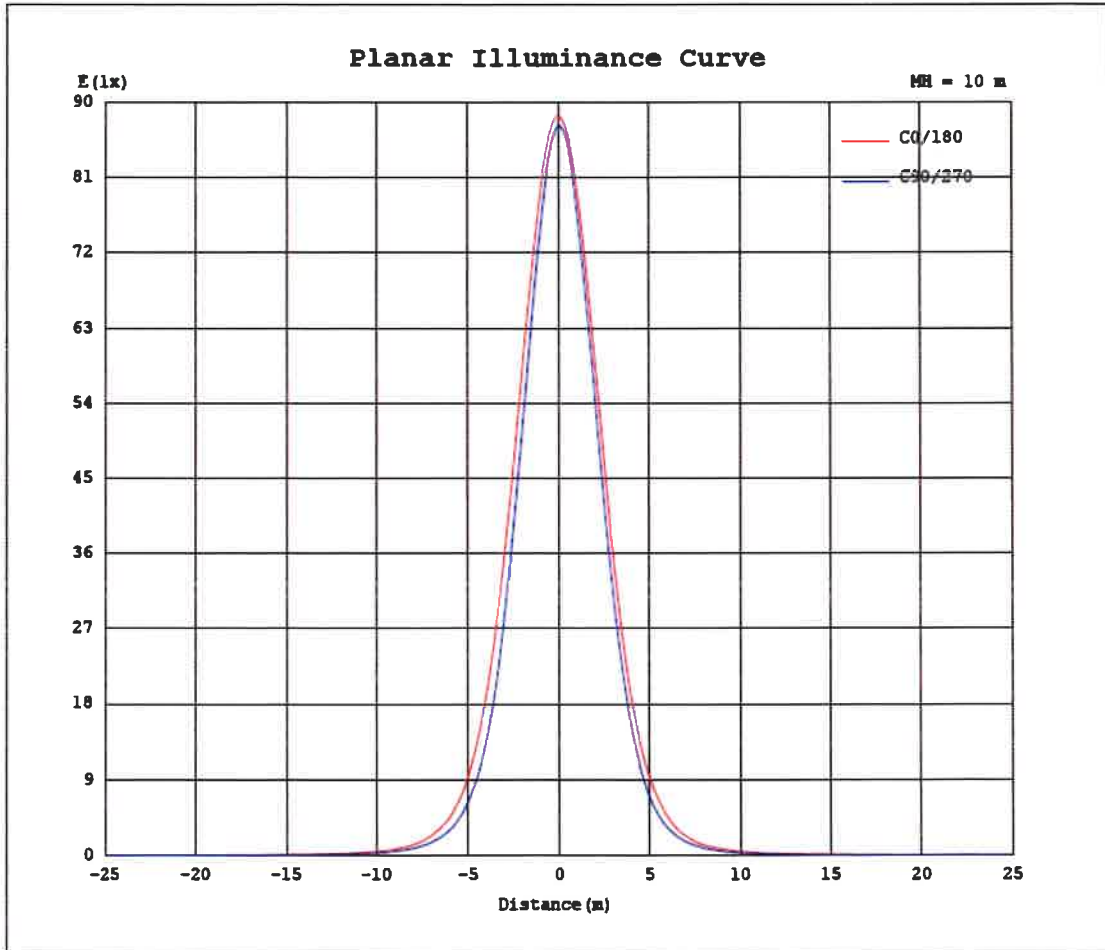
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)



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

Elektriksel Ölçümler
(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	45,44 W
Ölçülen Gerilim (V) (Input Voltage)	46,86 VDC
Ölçülen Akım (A) (Input Current)	0,97 A
Güç Faktörü (PF) (Power Factor)	-
Ölçülen Frekans (Hz) (Input Frequency)	-
Ortam Sıcaklığı / Bağıl Nem (Ambient Temperature / Relative Humidity)	25 °C 48% Rh
Stabilizasyon Süresi (Stabilization Time)	60 dk ±5dk

Spektrokolorimetrik Ölçüm Sonuçları
(Spectrocolorimetric Measurement Results)

Chrom x	0,3140
Chrom y	0,3302
Duv	0,0037
Chrom u'	0,1983
Chrom v'	0,4691
Peak	445 nm
Dominant	490 nm
CCT	6427 K
Nominal CCT	-
Ra(CRI)	71
R9	-24
S/P Ratio	2,0
Preburning time	1 hr
Test Configuration	4π



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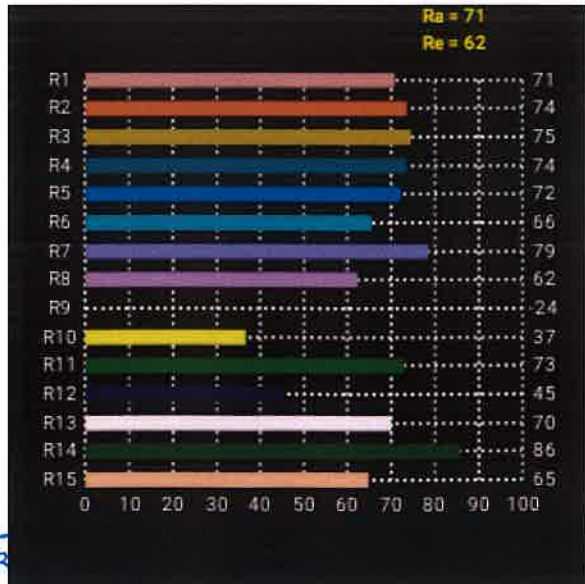
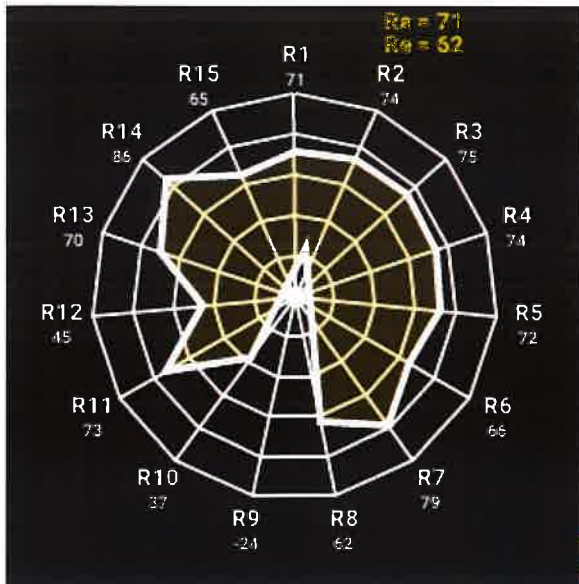
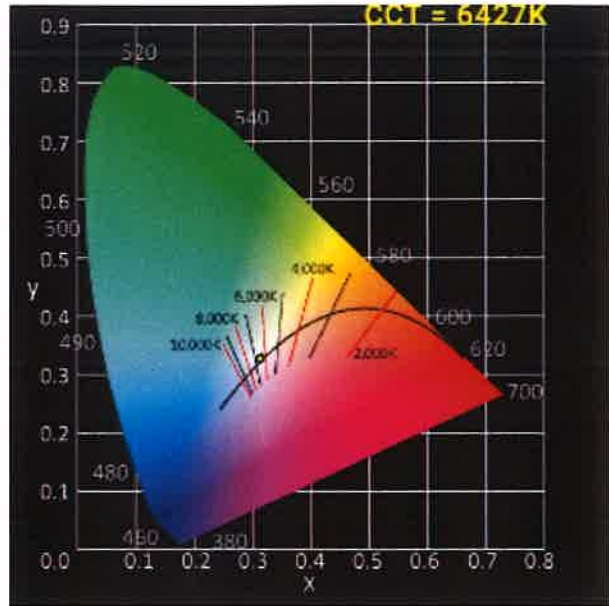
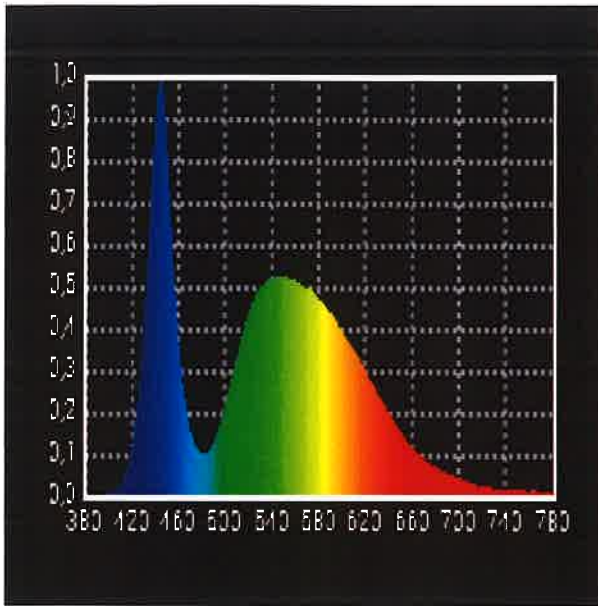
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2.2 CW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the CW)

Spectral Power Distribution



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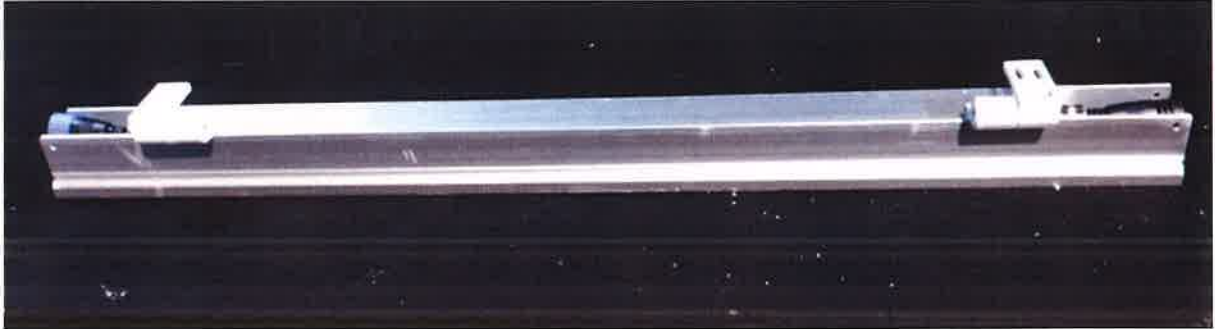
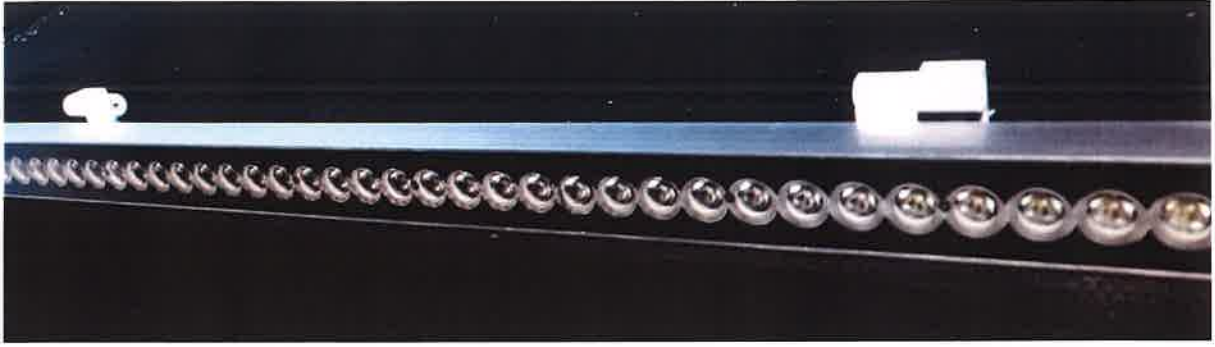
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



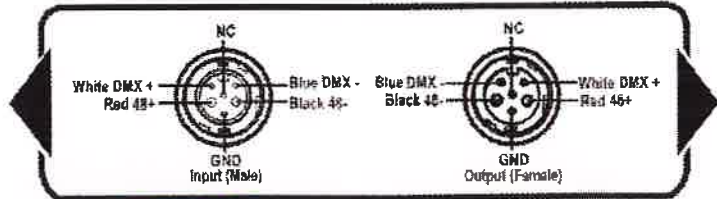
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CE FC III

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