

Doc No: FRM-LAB-009a

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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
189

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 NW Linear Flood Beam 45°

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.
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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

: HERA

Modeli / Model

: Leoline® S12 915mm DMX SC NW
Linear Flood Beam 45°

Seri Numarası / Serial Number

: Test Numunesi
Test Sample

Beyan Gücü / Rated Power

: 44,6 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 (Components)	Üretici (Manufacturer)	Model (Model)	Teknik Bilgi (Technical Data)	Standart no. (Standart No.)
LED	Cree Inc	XTEAWT 4000K 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	CA12056_TINA2-W-45	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 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	43,13 W
Ölçülen Gerilim (V) (Input Voltage)	46,90 VDC
Ölçülen Akım (A) (Input Current)	0,92 A
Güç Faktörü (PF) (Power Factor)	-
Ölçülen Frekans (Hz) (Input Frequency)	-
Ortam Sıcaklığı / Bağlı 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)	3074,3
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	4541
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	71,28



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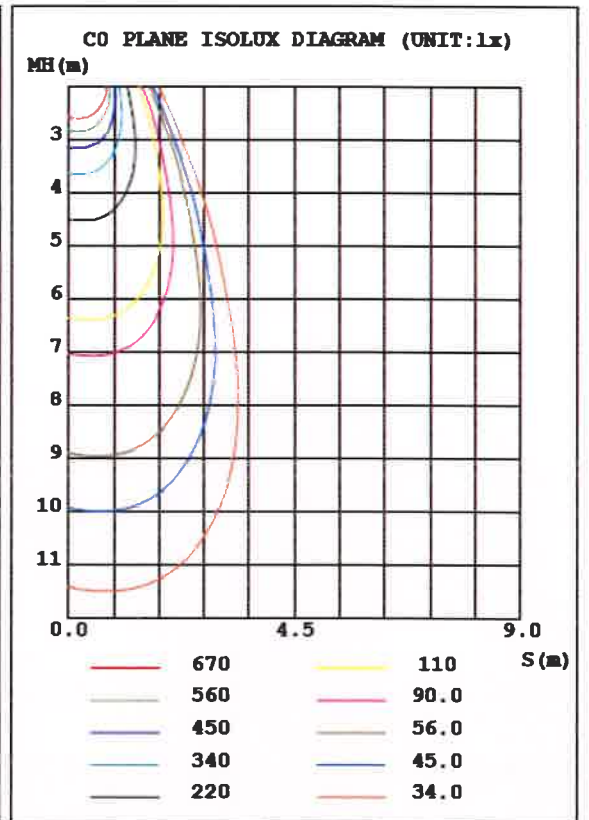
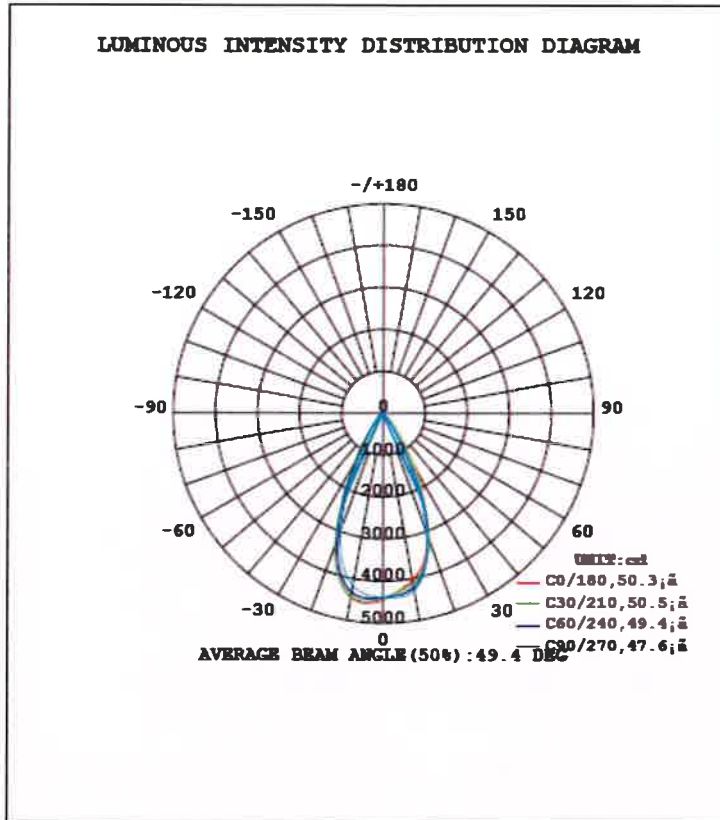
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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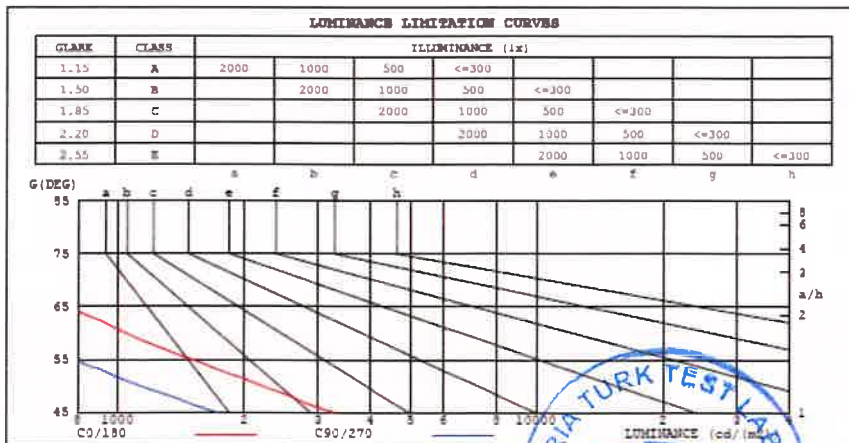
2.1

NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

v	C0	C45	C90	C135	C180	C225	C270	C315	v	☉ zone	☉ total	llum, lamp
5	4539	4455	4335	4216	4259	4302	4404	4442	0- 5	104.5	104.5	3.4.3.4
10	4450	4292	4154	3970	4042	4148	4299	4277	5- 10	307.6	412.2	13.4.13.4
15	4037	4028	3713	3542	3705	3830	3885	3987	10- 15	480.1	592.2	29.29
20	3309	3267	2924	2888	3073	3198	3078	3233	15- 20	375.8	1468	47.8.47.8
25	2300	2210	1879	2028	2299	2272	2015	2207	20- 25	551.8	2020	65.7.65.7
30	1379	1187	938.7	1162	1486	1281	1037	1219	25- 30	415.9	2426	79.2.79.2
35	785.0	572.2	421.6	551.3	809.4	622.6	500.6	609.6	30- 35	256.5	2692	87.6.87.6
40	400.0	301.6	219.7	275.1	407.6	328.4	267.8	329.7	35- 40	147.1	2839	92.4.92.4
45	230.6	168.9	121.3	152.3	231.9	185.6	149.2	196.8	40- 45	89.03	2527	95.2.95.2
50	141.2	99.04	72.63	90.43	142.7	109.6	86.14	109.9	45- 50	55.42	2382	97.97
55	85.59	61.49	44.99	56.59	83.90	67.77	51.90	67.17	50- 55	36.32	2019	98.2.98.2
60	51.91	39.60	27.36	35.41	51.76	42.16	32.09	41.67	55- 60	23.94	2041	99.99
65	31.89	21.60	14.77	19.81	31.84	24.71	18.34	24.48	60- 65	16.31	2038	99.9.99.9
70	17.97	10.59	7.130	10.02	18.28	12.27	8.748	11.93	65- 70	8.004	2067	99.8.99.8
75	8.240	4.812	3.302	4.756	9.032	5.612	3.900	5.327	70- 75	4.442	2072	99.9.99.9
80	3.045	1.624	1.184	1.746	3.641	2.120	1.421	1.891	75- 80	1.959	2074	100.100
85	0.4511	0.2017	0.1417	0.2144	0.7691	0.2682	0.2002	0.2626	80- 85	0.8817	2074	100.100
90	0	0	0	0	0	0	0	0	85- 90	0.0251	2074	100.100
95	0	0	0	0	0	0	0	0	90- 95	0	2074	100.100
100	0	0	0	0	0	0	0	0	95-100	0	2074	100.100
105	0	0	0	0	0	0	0	0	100-105	0	2074	100.100
110	0	0	0	0	0	0	0	0	105-110	0	2074	100.100
115	0	0	0	0	0	0	0	0	110-115	0	2074	100.100
120	0	0	0	0	0	0	0	0	115-120	0	2074	100.100
125	0	0	0	0	0	0	0	0	120-125	0	2074	100.100
130	0	0	0	0	0	0	0	0	125-130	0	2074	100.100
135	0	0	0	0	0	0	0	0	130-135	0	2074	100.100
140	0	0	0	0	0	0	0	0	135-140	0	2074	100.100
145	0	0	0	0	0	0	0	0	140-145	0	2074	100.100
150	0	0.0729	0.0626	0.0486	0	0	0	0	145-150	0.0013	2074	100.100
155	0.0598	0.1783	0.2244	0.1451	0.0018	0.0124	0.0117	0	150-155	0.0121	2074	100.100
160	0.2098	0.2801	0.3851	0.2328	0.0793	0.0624	0.0849	0.0268	155-160	0.0252	2074	100.100
165	0.2546	0.3152	0.3460	0.2746	0.1323	0.1060	0.0805	0.0715	160-165	0.0292	2074	100.100
170	0.2650	0.2146	0.2278	0.2874	0.1445	0.1223	0.0787	0.0804	165-170	0.0242	2074	100.100
175	0.2516	0.3028	0.2707	0.2689	0.1732	0.1772	0.1136	0.0956	170-175	0.0140	2074	100.100
180	0.2928	0.3404	0.3241	0.2829	0.2874	0.2253	0.2745	0.2477	175-180	0.0087	2074	100.100
DEG	LUMINOUS INTENSITY:cd											UNIT:lm



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	52	16
80	175	68
75	218	128
70	526	208
65	755	349
60	1038	547
55	1492	784
50	2197	1120
45	3261	1716

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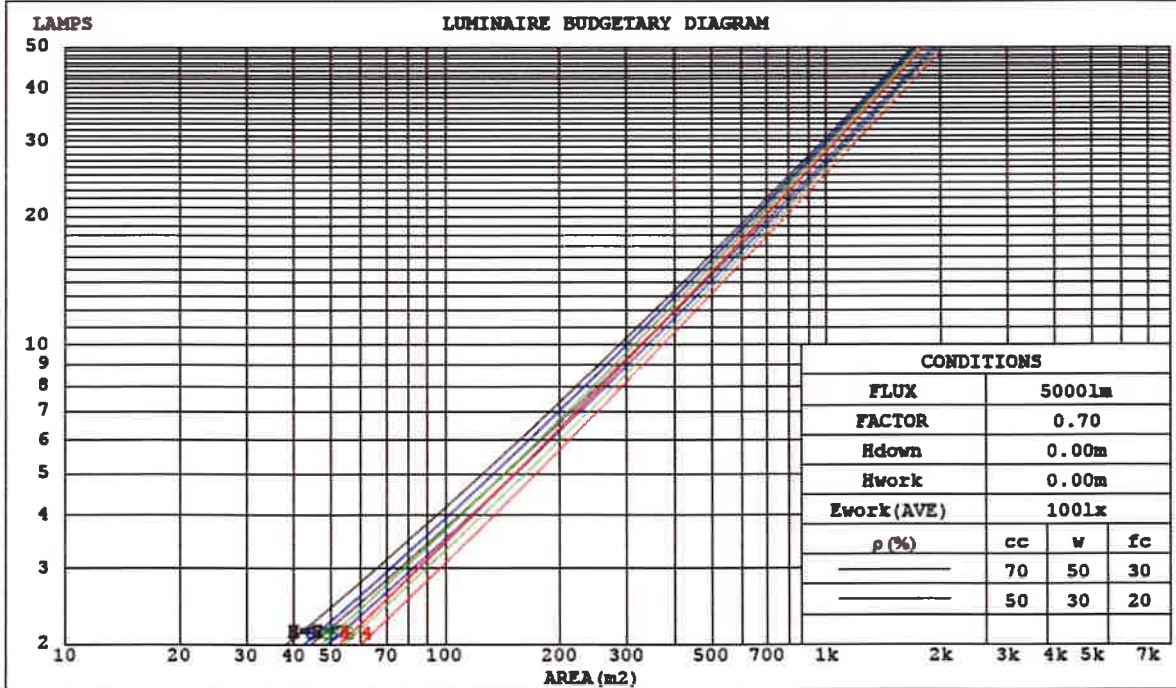
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
pv	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
afc	20%			20%			20%			20%			20%			0
BCR	BCR: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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	.00	.97	1.02	.99	.96	.99	.96	.93	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.92	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.81	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.76	.72	.81	.76	.71	.79	.74	.71	.78	.74	.70	.76	.73	.70	.69
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.65
8.0	.73	.67	.63	.72	.67	.63	.71	.67	.63	.70	.66	.63	.69	.65	.63	.61
9.0	.69	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55



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

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	.172	.098	.031	.165	.094	.030	.152	.087	.028	.141	.081	.026	.130	.076	.024	
2.0	.164	.090	.028	.158	.087	.027	.148	.082	.025	.138	.077	.024	.129	.073	.023	
3.0	.155	.083	.025	.151	.081	.024	.142	.077	.023	.133	.073	.022	.126	.070	.022	
4.0	.148	.077	.023	.144	.075	.022	.136	.072	.022	.129	.069	.021	.122	.066	.020	
5.0	.140	.072	.021	.137	.070	.020	.130	.068	.020	.124	.065	.019	.118	.063	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018	
7.0	.128	.063	.018	.125	.062	.018	.120	.061	.017	.115	.059	.017	.110	.057	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.057	.016	.111	.056	.016	.107	.055	.016	
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.015	.107	.053	.015	.103	.052	.015	
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.103	.051	.015	.100	.050	.014	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.078	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.061	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.093	.061	.037	.065	.043	.027	.037	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.003	



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

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	11.3	12.2	11.6	12.4	12.6	8.4	9.3	8.6	9.5	9.7
3H	11.3	12.2	11.6	12.4	12.6	8.3	9.2	8.6	9.4	9.6
4H	11.3	12.1	11.6	12.3	12.5	8.3	9.0	8.5	9.3	9.5
6H	11.2	11.9	11.5	12.2	12.4	8.2	8.9	8.5	9.1	9.4
8H	11.2	11.9	11.5	12.1	12.4	8.1	8.8	8.4	9.1	9.4
12H	11.1	11.8	11.4	12.1	12.3	8.1	8.8	8.4	9.0	9.3
4H 2H	11.2	12.0	11.4	12.2	12.4	8.4	9.1	8.6	9.4	9.6
3H	11.2	11.9	11.5	12.1	12.4	8.3	9.0	8.6	9.2	9.5
4H	11.1	11.7	11.5	12.0	12.3	8.2	8.8	8.6	9.1	9.4
6H	11.0	11.6	11.4	11.9	12.3	8.1	8.7	8.5	9.0	9.3
8H	11.0	11.5	11.4	11.9	12.2	8.1	8.6	8.5	8.9	9.3
12H	11.0	11.4	11.4	11.8	12.2	8.0	8.5	8.4	8.9	9.2
8H 4H	11.0	11.5	11.4	11.8	12.2	8.1	8.6	8.5	8.9	9.3
6H	10.9	11.3	11.3	11.7	12.1	8.0	8.4	8.4	8.8	9.2
8H	10.9	11.2	11.3	11.6	12.1	8.0	8.3	8.4	8.7	9.2
12H	10.8	11.1	11.3	11.6	12.0	7.9	8.2	8.4	8.6	9.1
12H 4H	10.9	11.4	11.3	11.8	12.2	8.0	8.5	8.5	8.9	9.3
6H	10.9	11.2	11.3	11.6	12.1	8.0	8.3	8.4	8.7	9.2
8H	10.8	11.1	11.3	11.6	12.0	7.9	8.2	8.4	8.7	9.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 4.0					+ 2.0 / - 4.6				
1.5H	+ 4.1 / - 3.4					+ 3.2 / - 3.0				
2.0H	+ 4.1 / - 3.6					+ 3.1 / - 3.3				

CIE Pub.117 Corrected 3074 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.9)



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

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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	73
0.80	94	88	84	94	88	84	92	87	84	80
1.00	99	93	89	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	109	106	102	106	103	100	96
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	116	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRPM = 1.25			



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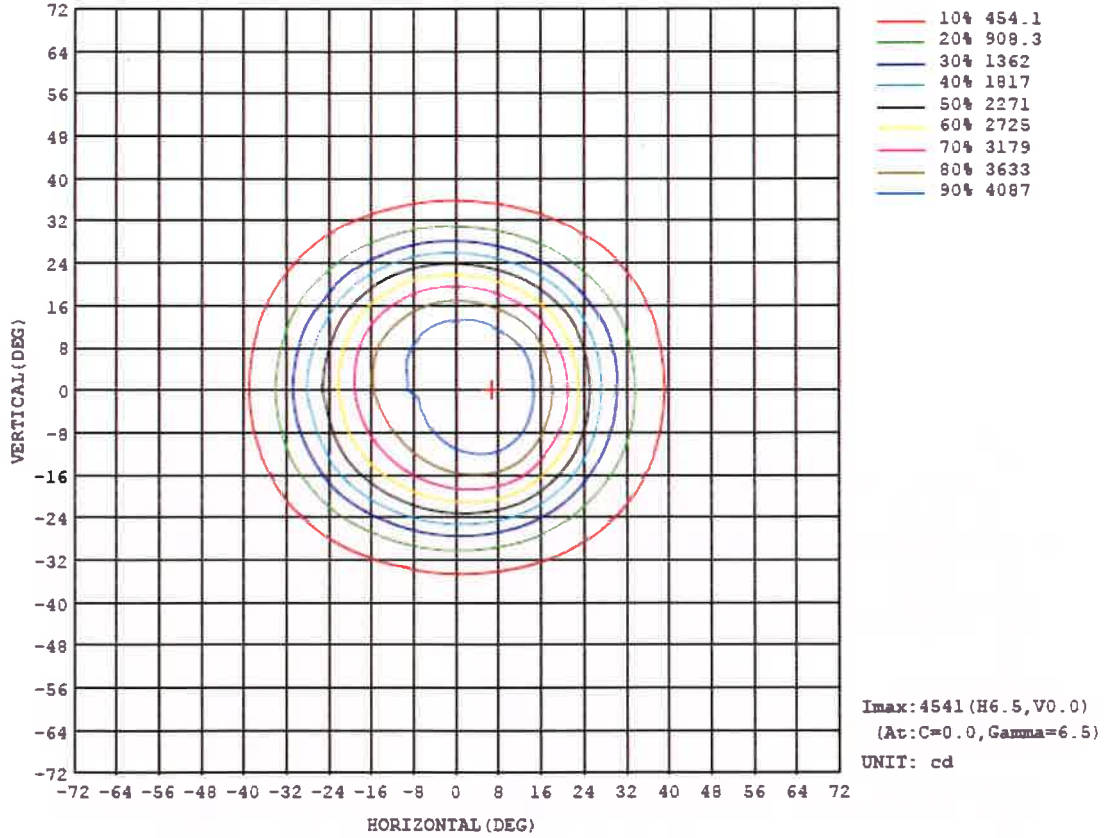
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOCANDELA DIAGRAM



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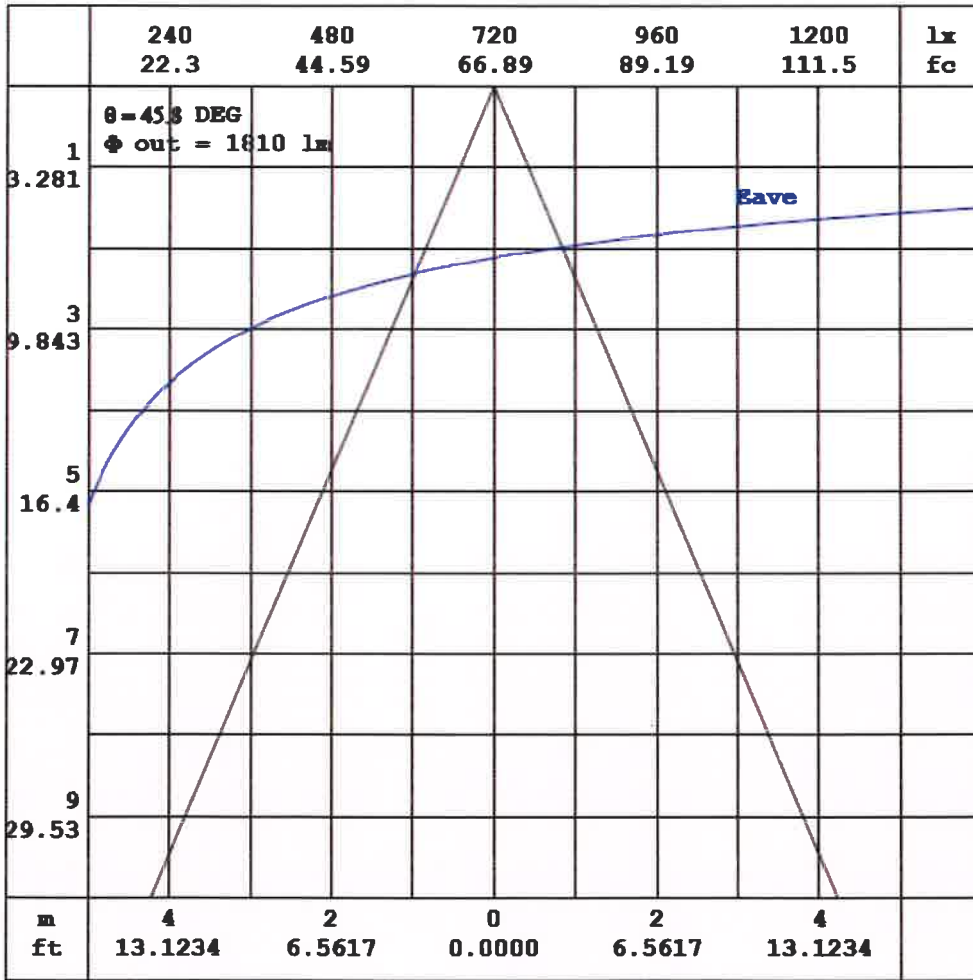
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)**AAI CURVES**

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.

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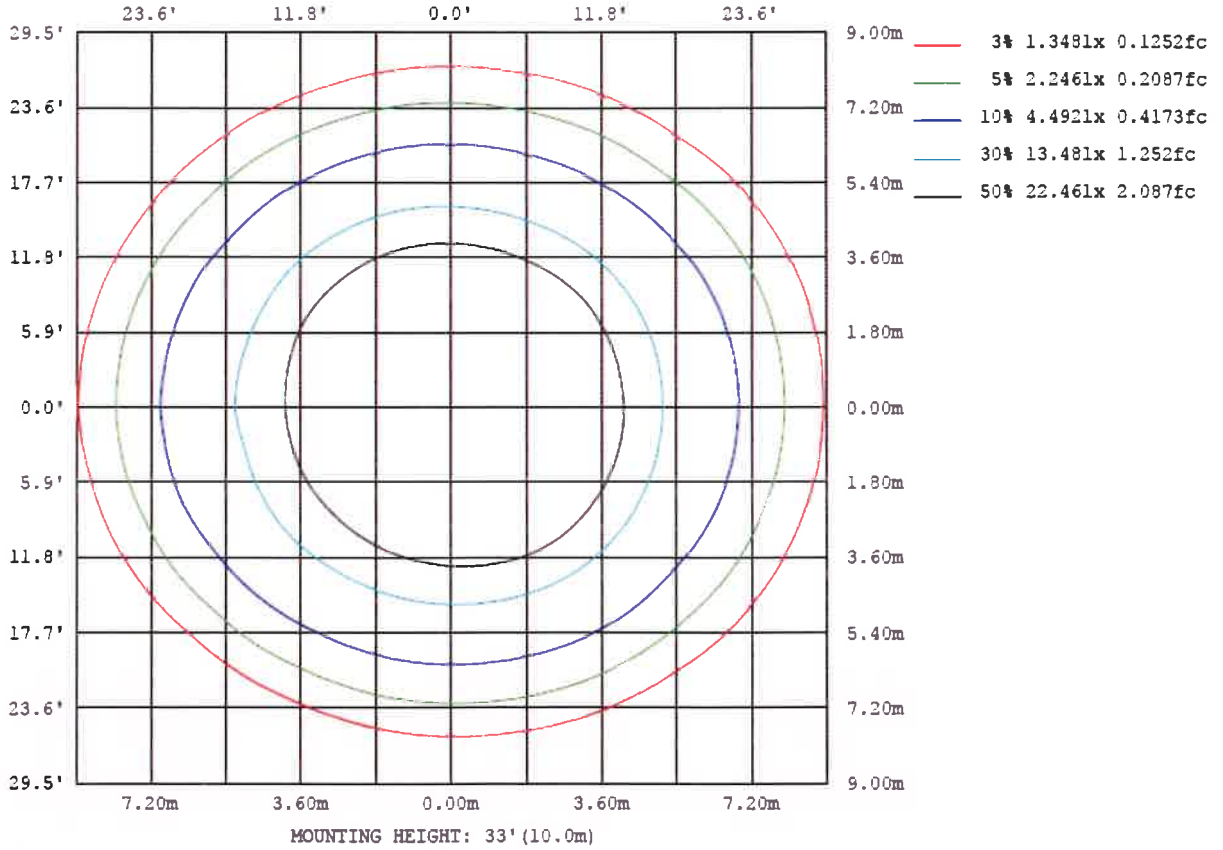
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOLUX DIAGRAM



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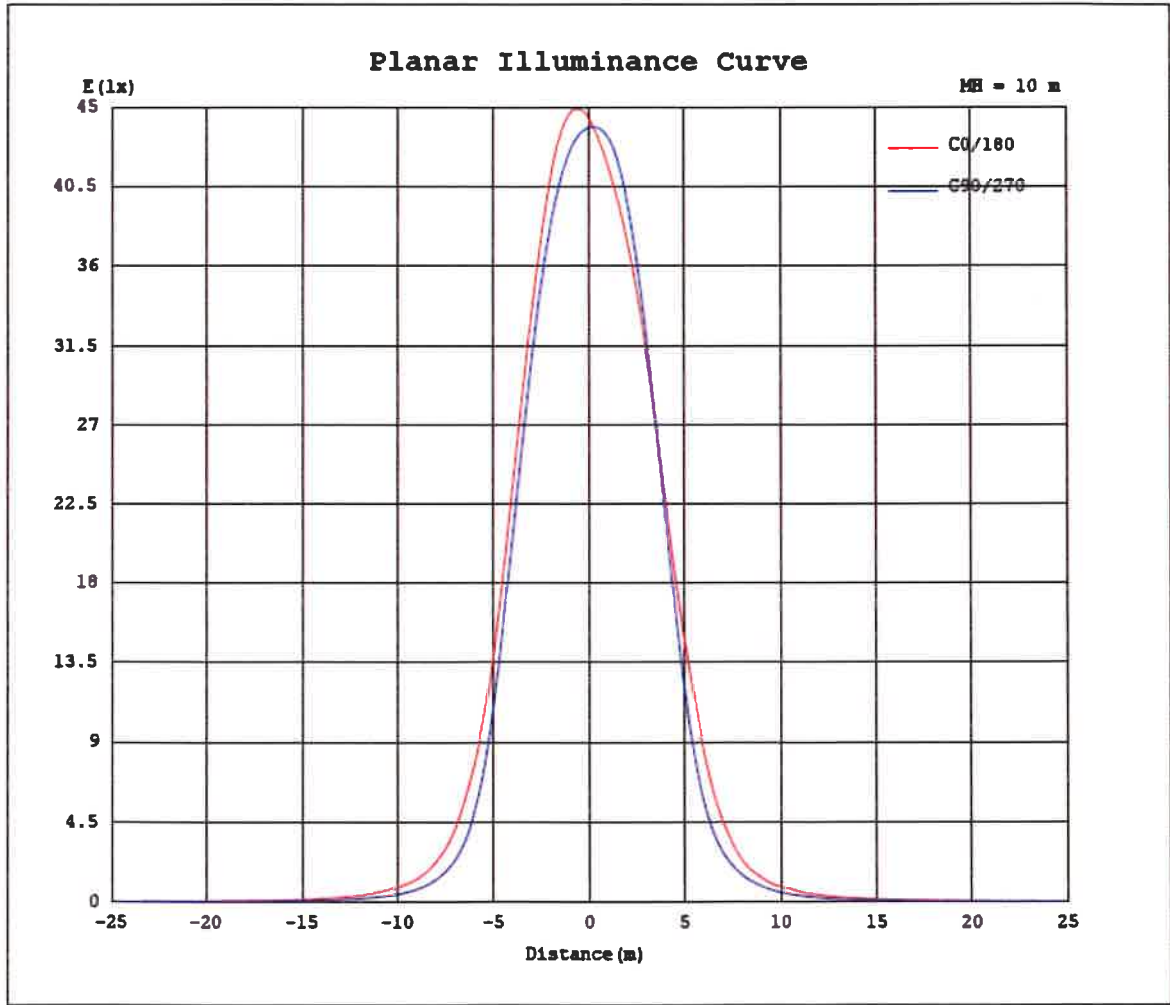
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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2.2 NW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the NW)**Elektriksel Ölçümler**

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	43,13 W
Ölçülen Gerilim (V) (Input Voltage)	46,90 VDC
Ölçülen Akım (A) (Input Current)	0,92 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	0,3831
Chrom y	0,3825
Duv	0,0019
Chrom u'	0,2245
Chrom v'	0,5045
Peak	441 nm
Dominant	578 nm
CCT	3972 K
Nominal CCT	-
Ra(CRI)	71
R9	-27
S/P Ratio	1,5
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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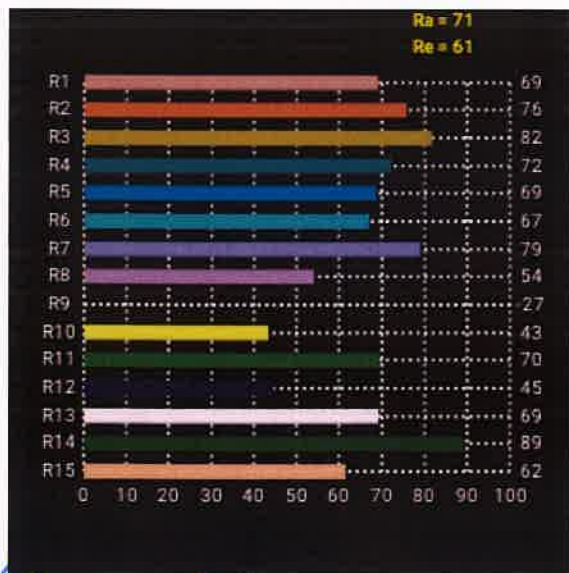
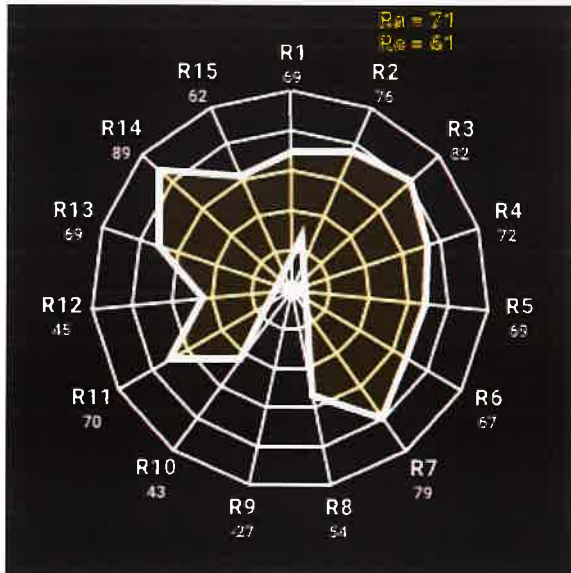
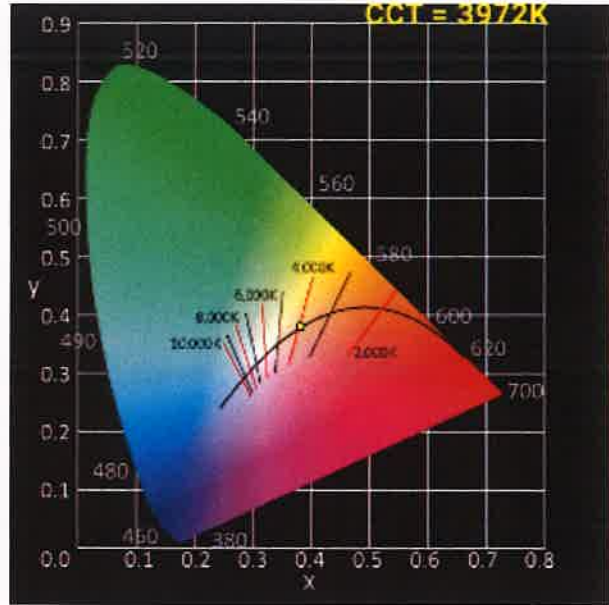
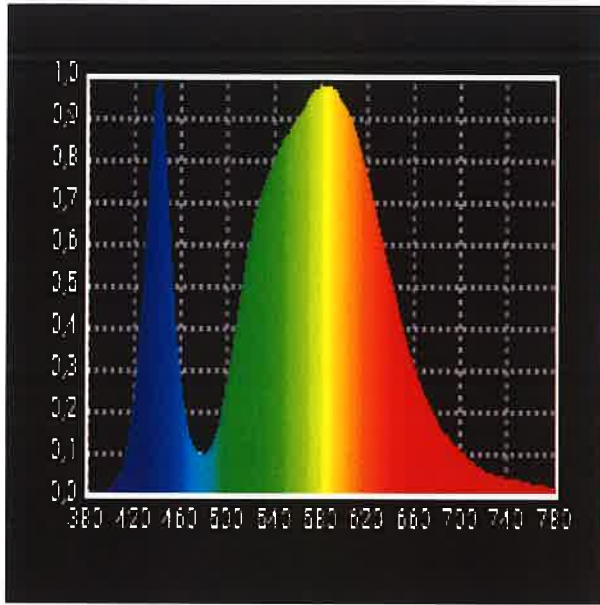
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2.2 NW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the NW)

Spectral Power Distribution



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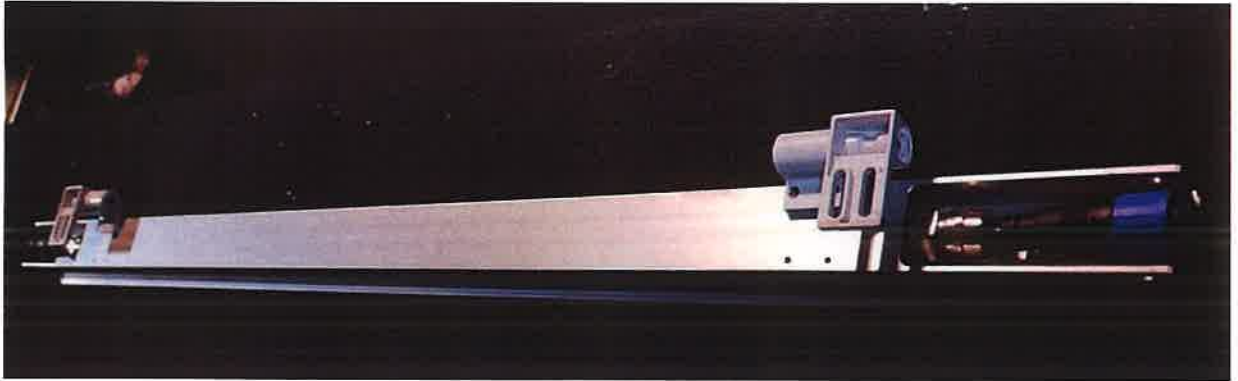
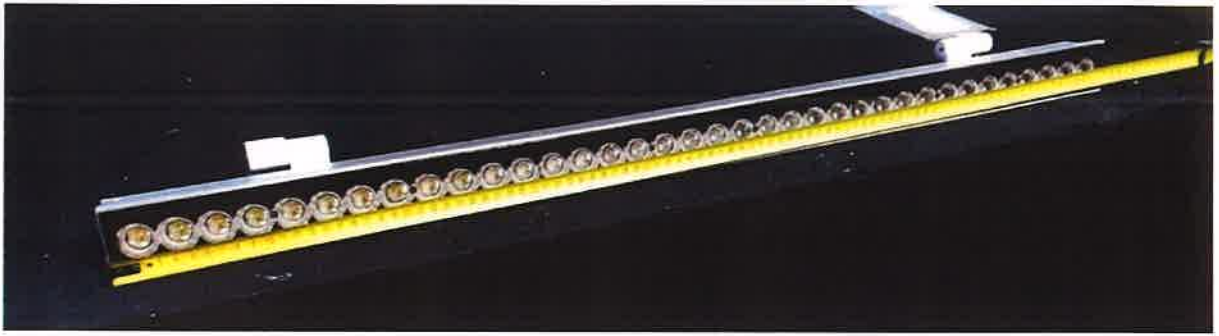
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



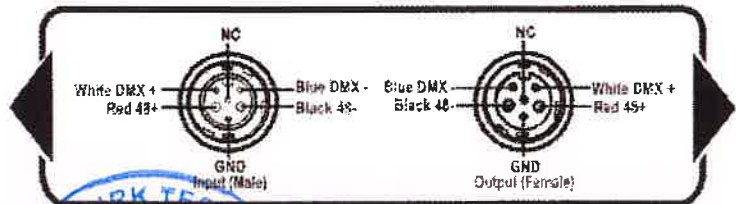
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CE FC III

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P02022063 Leoline®S12 915mm DMX SC Linear Flood Beam 45°
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