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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
195

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 DW Linear Asymmetric Beam 35+15°

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

: 05.08.2019

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

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 DW Linear Asymmetric Beam 35+15°
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	☒
LAB-015	AC Power Supply	05.06.2018	05.06.2020	☒
LAB-027	Powermeter	09.01.2019	09.01.2020	☒
LAB-023	Standart Lamp	09.01.2019	09.01.2020	☒
LAB-012	Integrating sphere	28.05.2018	28.05.2020	☒

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 XTEAWT 6500K White Led	• Binned at 85 °C • Thermal resistance: 5 °C/W • Wide viewing angle: 115°-140°- Maximum Vf for High Efficacy XT-E White: 2.85 V- Available in 70-, 80- and 90-CRI minimum white	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 standartı (COC) IPC 6012 Class II UL FQC
LENS	LEDIL	CA11052 TINA2-O- 35+15	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 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**Elektriksel Ölçümler**

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	43,61 W
Ölçülen Gerilim (V) (Input Voltage)	46,90 VDC
Ölçülen Akım (A) (Input Current)	0,93 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)	2918,7
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	9440
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	66,93



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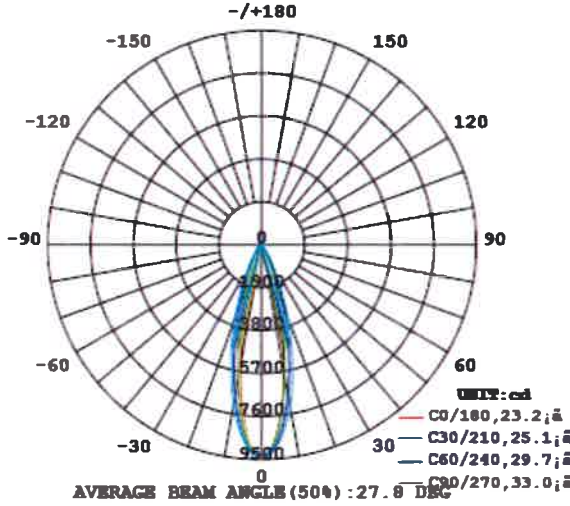
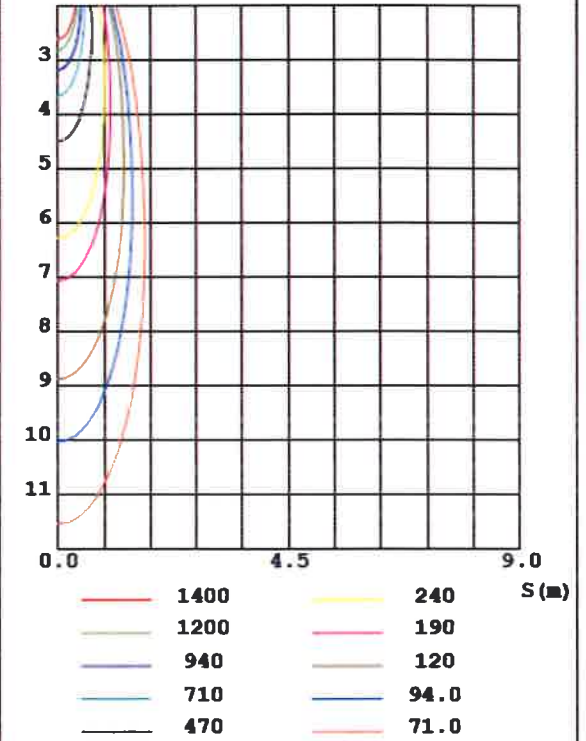
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**LUMINOUS INTENSITY DISTRIBUTION DIAGRAM****C0 PLANE ISOLUX DIAGRAM (UNIT:lx)**

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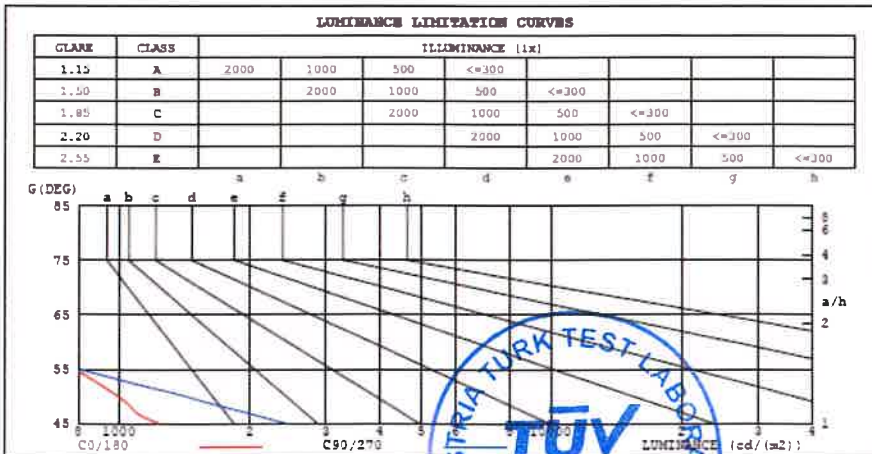
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	± zone	± total	lim. lamp
5	8246	8496	8710	8914	9229	9437	9832	9872	0- 5	212.3	212.3	7.29, 7.29
10	5555	6355	7168	8137	9430	10311	7342	6465	5- 10	525.6	720.5	25.3, 25.3
15	3078	4092	5202	6591	8204	10079	5392	4149	10- 15	610.5	1249	46.2, 46.2
20	1628	2340	3253	4196	5252	6375	3493	2364	15- 20	824.4	1872	64.2, 64.2
25	859.1	1277	1857	2388	3057	3784	2075	1260	20- 25	1000.9	2254	77.2, 77.2
30	422.1	622.6	884	1123	1415.3	1766.7	1125	632.1	25- 30	1249.0	2502	85.8, 85.8
35	235.6	366.0	534.7	702.0	904.6	1148.8	594.4	344.1	30- 35	154.8	2650	51.1, 51.1
40	132.8	208.8	318.1	450.7	602.7	772.2	318.9	182.6	35- 40	95.21	2752	34.2, 34.2
45	86.78	120.8	171.9	238.8	320.7	418.7	169.1	111.0	40- 45	59.42	2812	26.4, 26.4
50	62.86	74.87	91.74	111.74	134.95	161.48	87.35	67.76	45- 50	38.11	2851	17.7, 17.7
55	45.20	47.07	46.32	44.70	46.71	44.45	45.97	42.10	50- 55	25.11	2876	10.9, 10.9
60	32.27	30.97	26.81	22.72	22.64	28.95	28.70	28.41	55- 60	16.94	2892	6.1, 6.1
65	22.87	19.23	15.87	18.77	22.54	17.85	14.67	17.74	60- 65	11.55	2904	3.5, 3.5
70	14.48	10.82	8.736	10.43	14.76	10.17	8.439	10.19	65- 70	7.360	2912	2.2, 2.2
75	7.299	5.364	4.300	5.116	7.659	5.318	4.437	5.296	70- 75	4.185	2918	1.2, 1.2
80	2.496	1.898	1.531	1.822	3.083	2.044	1.761	1.911	75- 80	1.922	2918	0.6, 0.6
85	0.4058	0.1856	0.1516	0.2221	0.6141	0.2506	0.2999	0.2753	80- 85	0.5828	2918	0.3, 0.3
90	0	0	0	0	0	0	0	0	85- 90	0.0284	2918	0.1, 0.1
95	0	0	0	0	0	0	0	0	90- 95	0	2918	0.05, 0.05
100	0	0	0	0	0	0	0	0	95-100	0	2918	0.01, 0.01
105	0	0	0	0	0	0	0	0	100-105	0	2918	0.005, 0.005
110	0	0	0	0	0	0	0	0	105-110	0	2918	0.001, 0.001
115	0	0	0	0	0	0	0	0	110-115	0	2918	0.0005, 0.0005
120	0	0	0	0	0	0	0	0	115-120	0	2918	0.0001, 0.0001
125	0	0	0	0	0	0	0	0	120-125	0	2918	0.00005, 0.00005
130	0	0	0	0	0	0	0	0	125-130	0	2918	0.00001, 0.00001
135	0	0	0	0	0	0	0	0	130-135	0	2918	0.000005, 0.000005
140	0	0	0	0	0	0	0	0	135-140	0	2918	0.000001, 0.000001
145	0	0	0	0	0	0	0	0	140-145	0	2918	0.0000005, 0.0000005
150	0	0.0108	0.0907	0.0023	0	0	0	0	145-150	0.0029	2918	0.0001, 0.0001
155	0	0.1389	0.2868	0.1092	0	0.0008	0.0288	0	150-155	0.0093	2918	0.0005, 0.0005
160	0.2077	0.3919	0.8897	0.2868	0.0418	0.0621	0.1109	0.0389	155-160	0.0274	2919	0.001, 0.001
165	0.4171	0.5256	0.6558	0.4539	0.1466	0.1490	0.1179	0.0428	160-165	0.0428	2919	0.001, 0.001
170	0.5799	0.6360	0.6919	0.5821	0.2397	0.2266	0.1976	0.1740	165-170	0.0441	2919	0.001, 0.001
175	0.6022	0.6822	0.6118	0.5977	0.3045	0.3221	0.2461	0.2202	170-175	0.0202	2919	0.001, 0.001
180	0.5428	0.6005	0.6178	0.5229	0.5541	0.5963	0.5229	0.4894	175-180	0.0115	2919	0.001, 0.001



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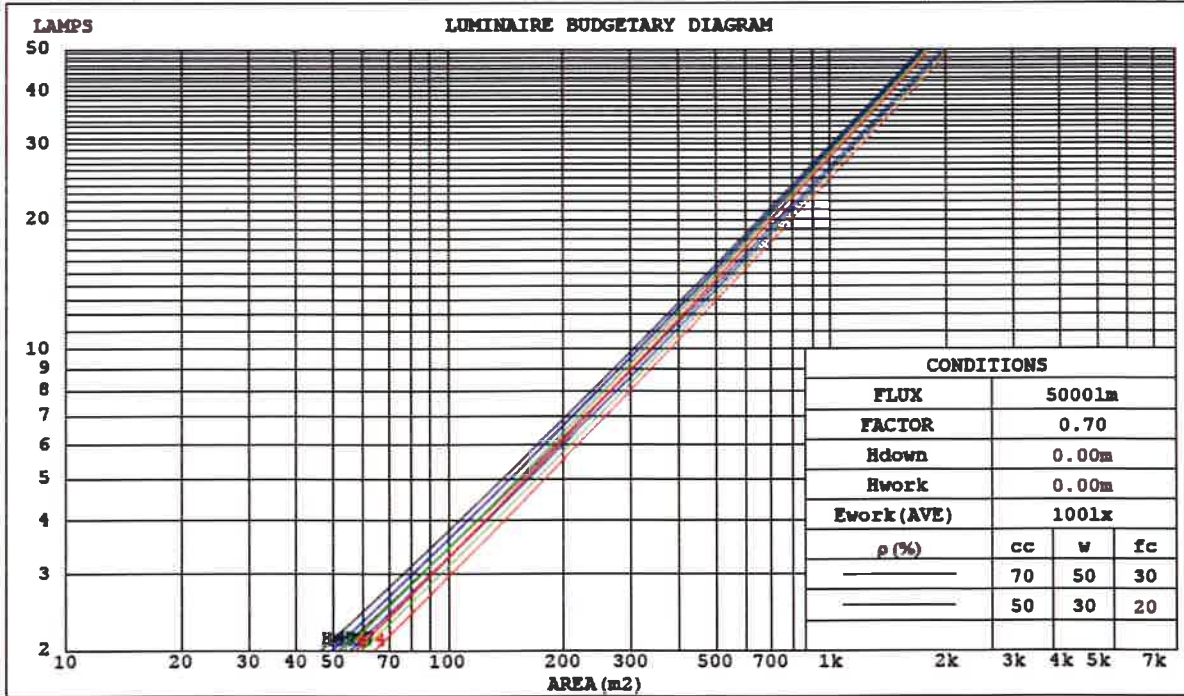
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

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



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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**WEC AND CCEC**

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.156	.088	.028	.149	.085	.027	.136	.078	.025	.125	.072	.023	.114	.066	.021		
2.0	.147	.080	.025	.141	.078	.024	.131	.073	.023	.121	.068	.021	.112	.063	.020		
3.0	.138	.073	.022	.133	.071	.021	.125	.068	.021	.117	.064	.020	.109	.060	.019		
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017		
5.0	.123	.063	.018	.120	.061	.018	.113	.059	.017	.107	.057	.017	.102	.054	.016		
6.0	.117	.059	.017	.114	.058	.017	.108	.056	.016	.103	.054	.016	.098	.052	.015		
7.0	.111	.055	.016	.109	.054	.015	.104	.052	.015	.099	.051	.015	.095	.049	.014		
8.0	.106	.052	.015	.104	.051	.014	.100	.050	.014	.095	.048	.014	.092	.047	.014		
9.0	.101	.049	.014	.099	.048	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013		
10.0	.097	.047	.013	.095	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.012		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.109	.085	.066	.075	.059	.047	.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	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.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	.051	.032	.018	.030	.019	.011	.010	.006	.004	



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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**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	6.0	6.8	6.2	6.9	7.1	9.2	9.9	9.4	10.1	10.3
3H	6.3	7.0	6.5	7.2	7.4	9.1	9.8	9.3	10.0	10.2
4H	6.3	7.0	6.6	7.2	7.4	9.0	9.7	9.3	9.9	10.1
6H	6.3	6.9	6.6	7.2	7.4	8.9	9.6	9.2	9.8	10.1
8H	6.2	6.9	6.5	7.1	7.4	8.9	9.5	9.2	9.8	10.0
12H	6.2	6.8	6.5	7.1	7.3	8.9	9.5	9.2	9.7	10.0
4H 2H	6.0	6.7	6.3	6.9	7.1	9.0	9.7	9.3	9.9	10.1
3H	6.4	7.0	6.7	7.2	7.5	9.0	9.6	9.3	9.8	10.1
4H	6.4	7.0	6.8	7.3	7.6	8.9	9.4	9.2	9.7	10.0
6H	6.4	6.9	6.8	7.2	7.6	8.8	9.3	9.2	9.6	10.0
8H	6.4	6.8	6.8	7.2	7.5	8.8	9.2	9.1	9.6	9.9
12H	6.3	6.7	6.7	7.1	7.5	8.7	9.1	9.1	9.5	9.9
8H 4H	6.3	6.8	6.7	7.1	7.5	8.8	9.2	9.2	9.6	9.9
6H	6.3	6.7	6.7	7.1	7.5	8.7	9.0	9.1	9.4	9.9
8H	6.3	6.6	6.7	7.0	7.5	8.6	9.0	9.1	9.4	9.8
12H	6.2	6.5	6.7	6.9	7.4	8.6	8.8	9.0	9.3	9.8
12H 4H	6.3	6.7	6.7	7.1	7.5	8.7	9.1	9.1	9.5	9.9
6H	6.3	6.6	6.7	7.0	7.4	8.6	9.0	9.1	9.4	9.8
8H	6.2	6.5	6.7	6.9	7.4	8.6	8.8	9.0	9.3	9.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 2.0					+ 3.1 / - 5.5				
1.5H	+ 1.7 / - 1.3					+ 4.6 / - 4.4				
2.0H	+ 1.7 / - 1.5					+ 4.9 / - 4.1				

CIE Pub.117 Corrected 2919 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.7)



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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**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	87	82	78	87	81	78	74
0.80	95	90	86	95	89	86	94	89	85	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	98	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	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										
SHRINK = 1.25										



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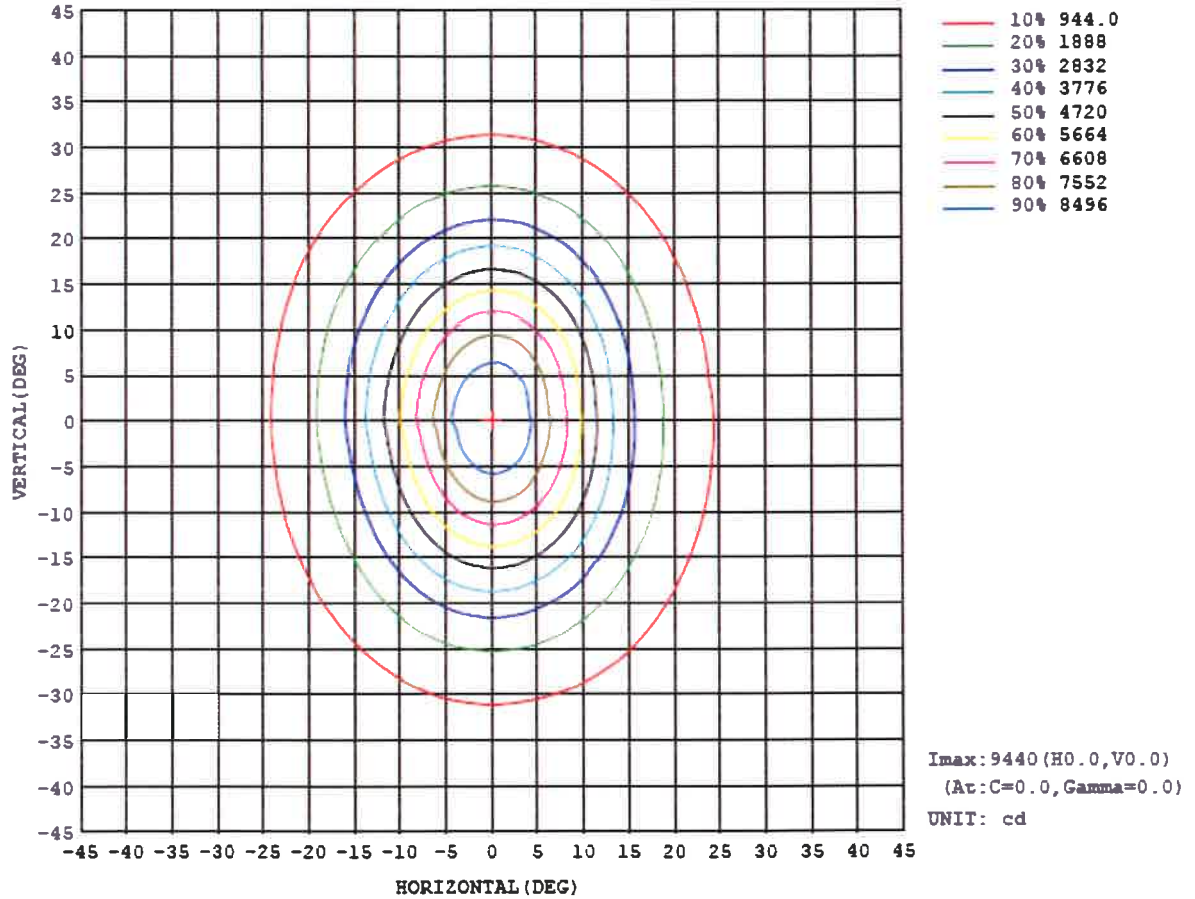
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

ISOCANDELA DIAGRAM



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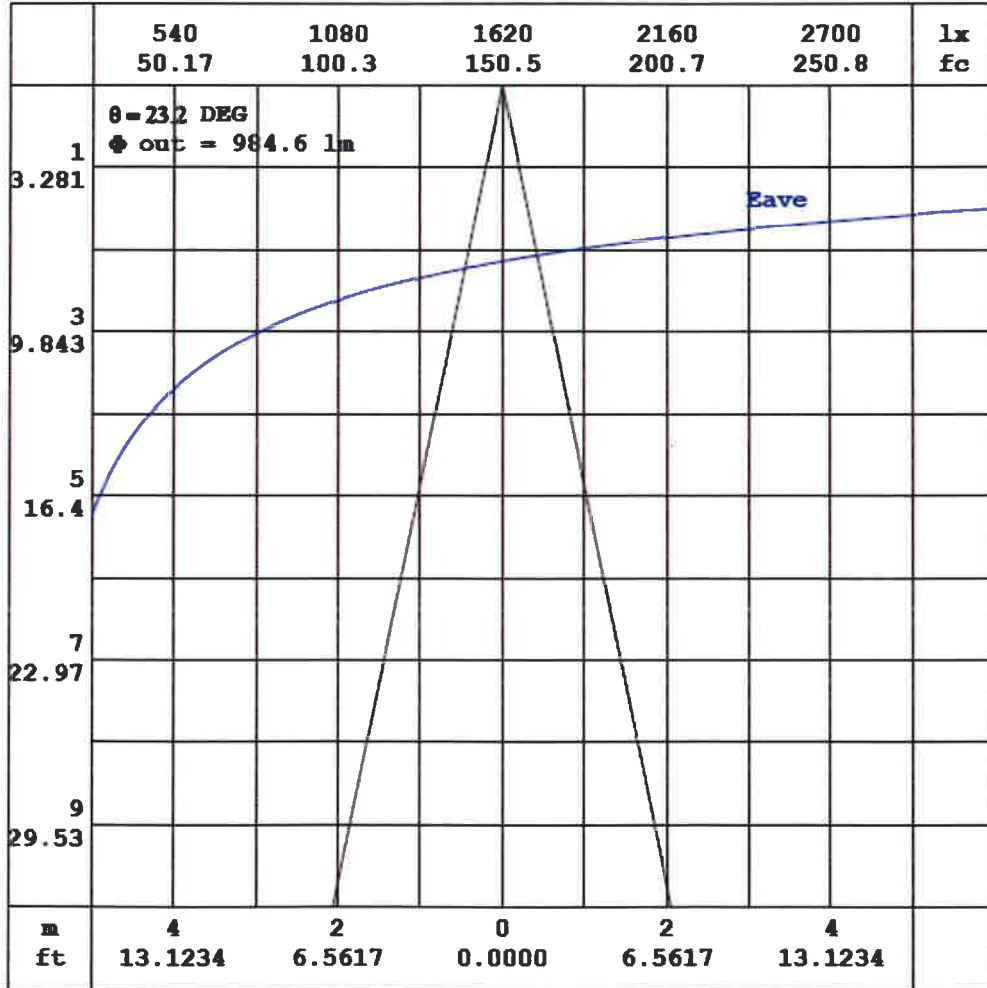
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**AAI CURVES**

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



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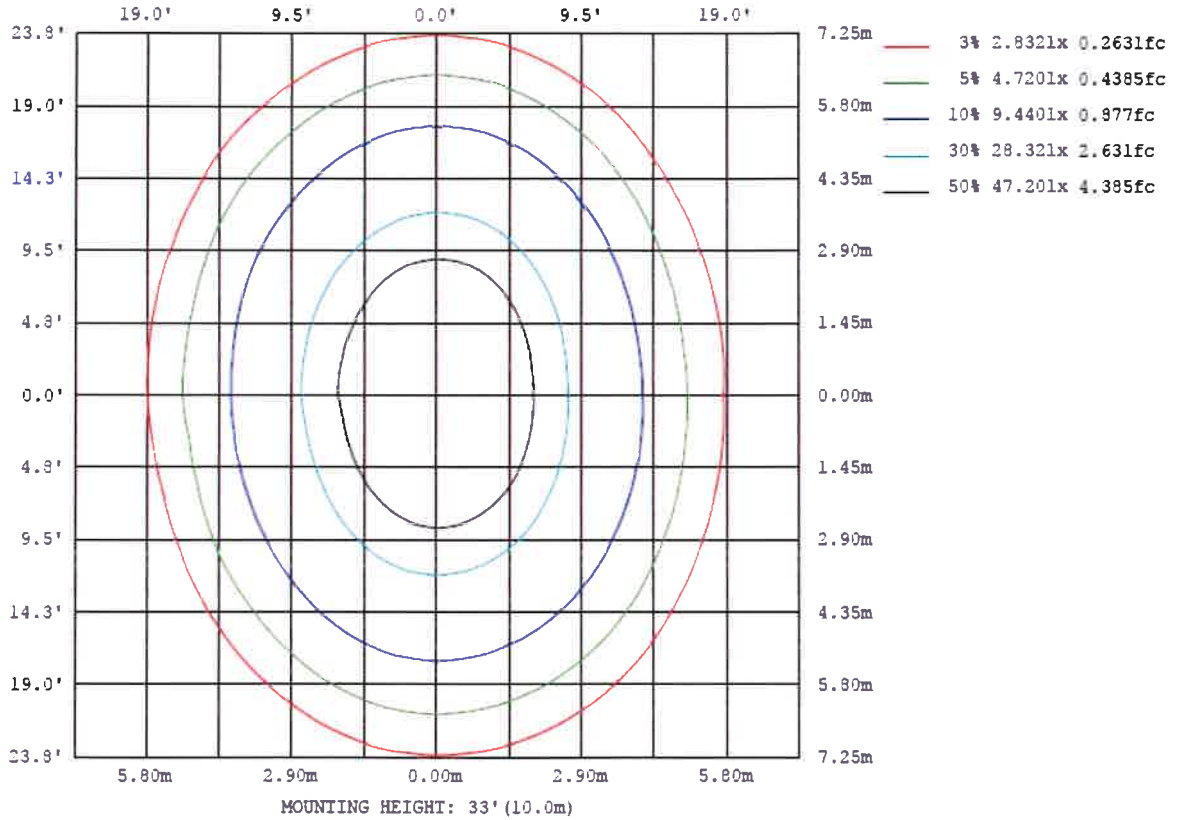
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**ISOLUX DIAGRAM**

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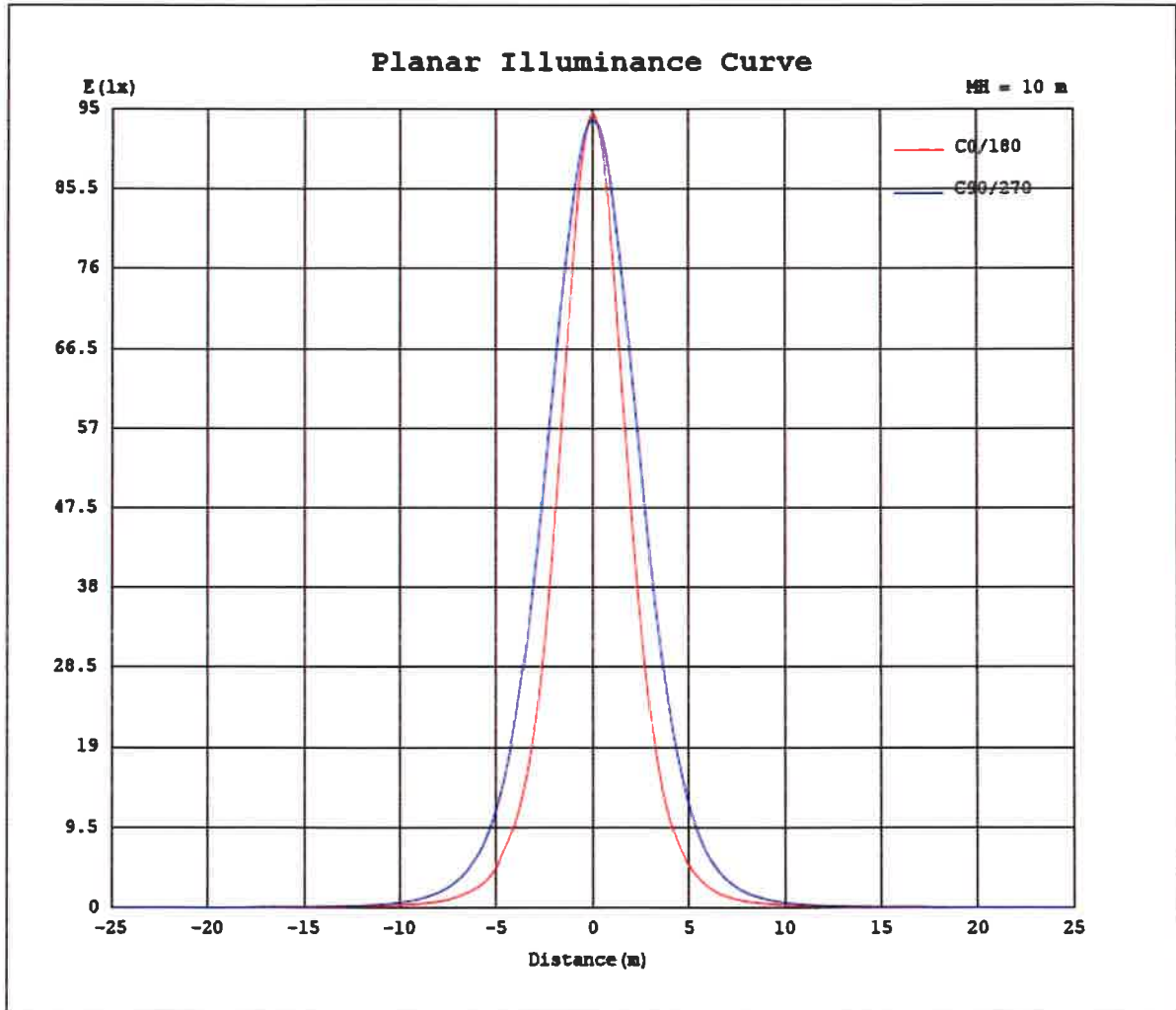
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)



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

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	43,61 W
Ölçülen Gerilim (V) (Input Voltage)	46,90 VDC
Ölçülen Akım (A) (Input Current)	0,93
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	0,3700
Chrom y	0,3677
Duv	-0,0014
Chrom u'	0,2218
Chrom v'	0,4960
Peak	445 nm
Dominant	579 nm
CCT	4234 K
Nominal CCT	-K
Ra(CRI)	74
R9	-15
S/P Ratio	1,6
Preburning time	1 hr
Test Configuration	4π



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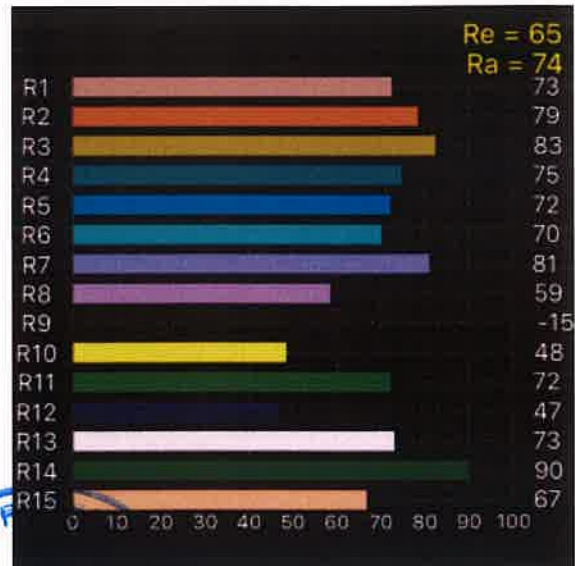
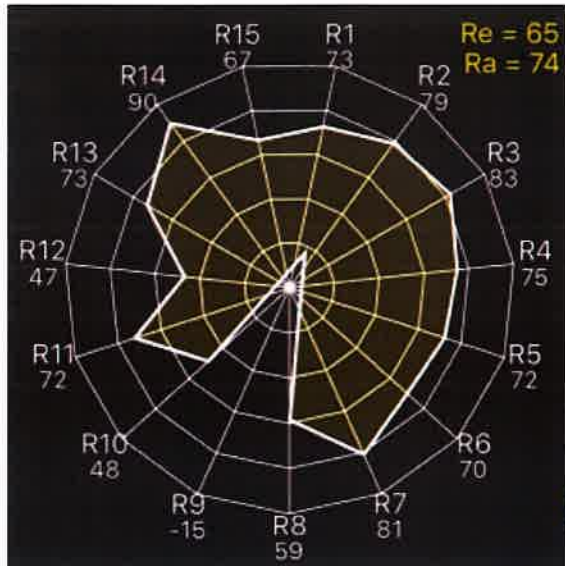
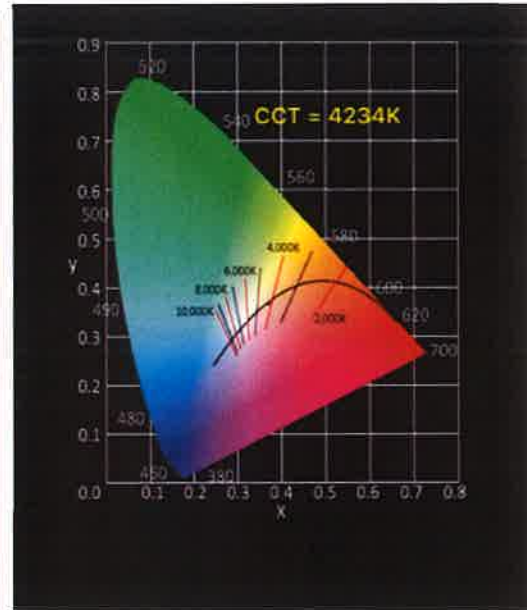
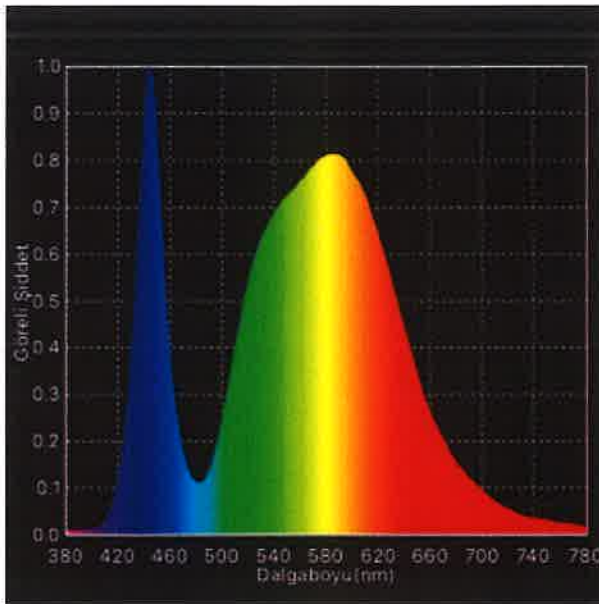
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2.2 DW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the DW)**Spectral Power Distribution**

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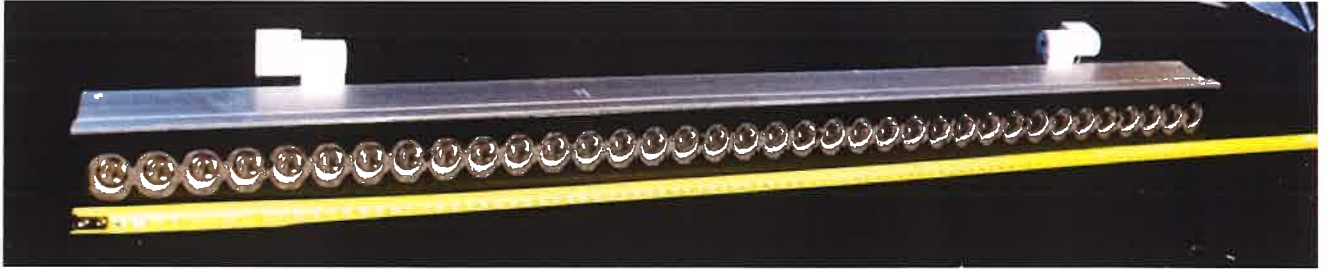
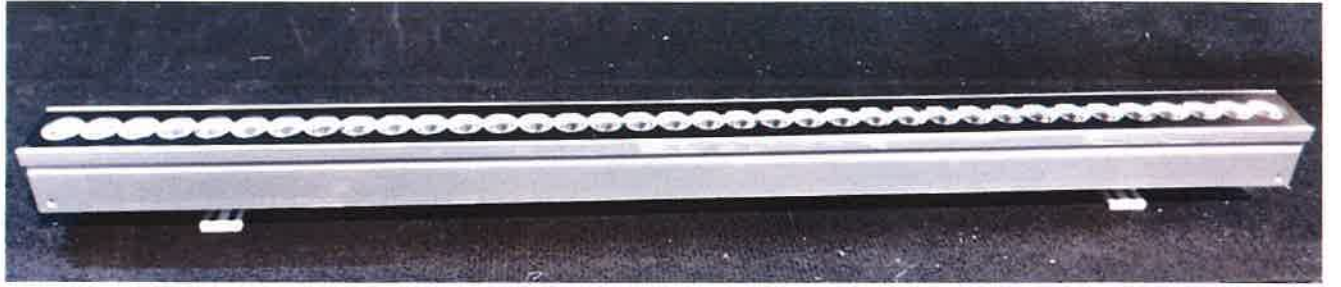
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



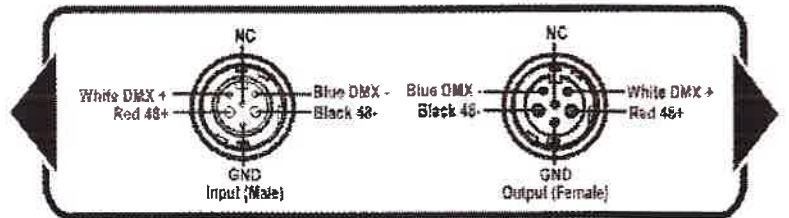
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P02022126 Leoline SS12 915mm DMX DW Linear Asymmetric Beam 35+15°
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