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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

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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 Wide Flood Beam 60°

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 Wide Flood Beam 60°

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	GA11176_TINA2-WW- 60	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)	43,59 W
Ölçülen Gerilim (V) (Input Voltage)	46,89 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)	3116
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	3236
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	71,48



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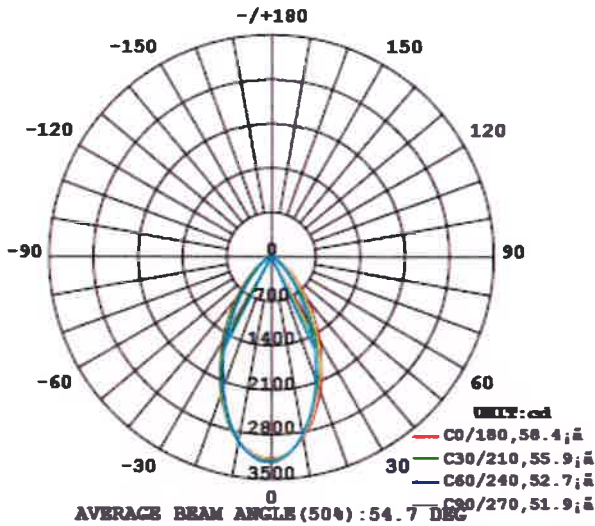
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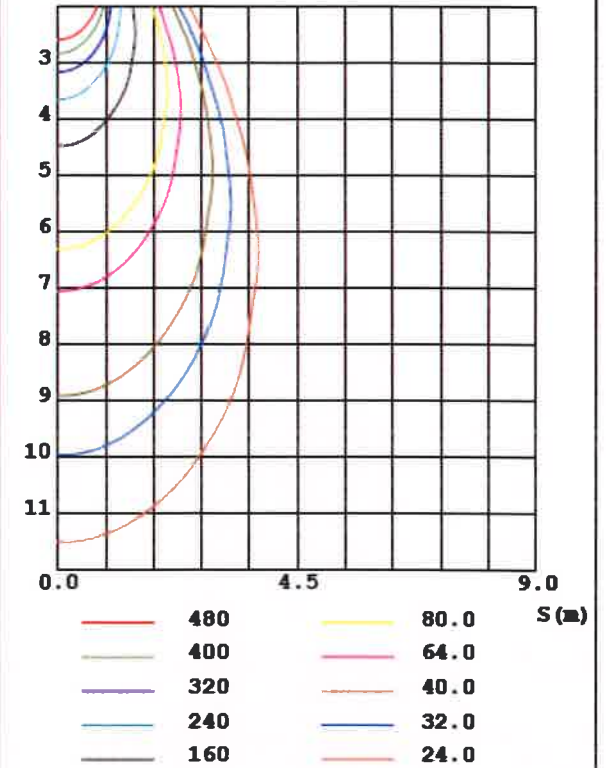
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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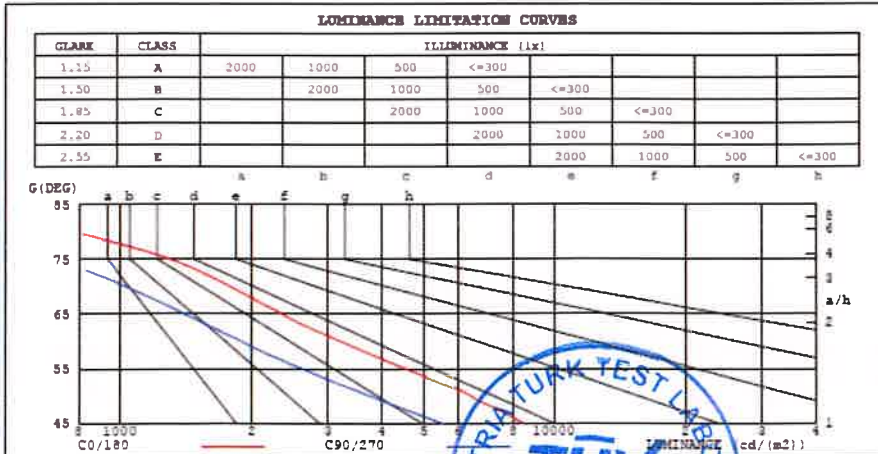
2.1

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

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

Y	C0	C45	C90	C135	C180	C225	C270	C315	Y	Φ zone	Φ total	lum, lamp
8	2117	2148	2184	2122	2096	2105	2111	2114	0- 8	75.70	75.70	2.42.2.42
10	2928	2926	2920	2895	2897	2849	2840	2875	8- 10	215.1	290.8	9.22.9.22
15	2648	2632	2564	2552	2587	2492	2472	2541	10- 15	322.9	612.7	19.7.19.7
20	2311	2258	2186	2189	2246	2098	2082	2160	15- 20	399.6	1009	32.2.32.2
25	1907	1848	1732	1762	1856	1710	1651	1752	20- 25	412.8	1417	45.3.45.3
30	1587	1416	1210	1377	1619	1322	1242	1348	25- 30	398.7	1816	58.3.58.3
35	1178	1027	920.9	1015	1189	969.8	866.0	982.7	30- 35	251.1	2167	69.5.69.5
40	849.4	709.5	608.4	698.7	849.4	667.6	576.9	675.2	35- 40	282.6	2450	78.6.78.6
45	595.8	460.8	389.0	467.5	594.8	446.6	374.1	452.7	40- 45	214.8	2865	85.5.85.5
50	410.5	303.1	241.0	301.2	417.2	291.8	239.8	285.0	45- 50	155.6	2821	90.5.90.5
55	259.0	191.9	149.7	190.9	264.9	189.5	149.2	189.9	50- 55	109.0	2920	94.94
60	160.0	124.2	94.84	122.1	165.0	122.2	92.77	122.7	55- 60	72.86	3004	56.4.56.4
65	95.82	79.60	59.00	79.25	104.5	78.84	58.00	77.86	60- 65	49.24	3052	98.98
70	60.72	48.40	35.19	48.52	64.72	48.90	34.92	46.42	65- 70	31.90	2085	99.99
75	32.39	25.25	18.04	25.86	36.64	26.59	18.46	25.00	70- 75	19.09	2104	99.6.99.6
80	13.29	9.091	6.141	9.604	14.86	10.19	6.853	9.272	75- 80	9.221	2112	99.9.99.9
85	2.026	0.9297	0.6690	1.227	2.810	1.845	1.012	1.287	80- 85	2.410	2116	100.100
90	0	0	0	0	0	0	0	0	85- 90	0.1791	2116	100.100
95	0	0	0	0	0	0	0	0	90- 95	0	2116	100.100
100	0	0	0	0	0	0	0	0	95-100	0	2116	100.100
105	0	0	0	0	0	0	0	0	100-105	0	2116	100.100
110	0	0	0	0	0	0	0	0	105-110	0	2116	100.100
115	0	0	0	0	0	0	0	0	110-115	0	2116	100.100
120	0	0	0	0	0	0	0	0	115-120	0	2116	100.100
125	0	0	0	0	0	0	0	0	120-125	0	2116	100.100
130	0	0	0	0	0	0	0	0	125-130	0	2116	100.100
135	0	0	0	0	0	0	0	0	130-135	0	2116	100.100
140	0	0	0	0	0	0	0	0	135-140	0	2116	100.100
145	0	0	0	0	0	0	0	0	140-145	0	2116	100.100
150	0	0.0200	0.0124	0.0121	0	0	0	0	145-150	0.0002	2116	100.100
155	0.0194	0.0829	0.0997	0.0848	0	0	0	0	150-155	0.0046	2116	100.100
160	0.1096	0.1462	0.1647	0.1071	0.0088	0.0024	0.0067	0	155-160	0.0104	2116	100.100
165	0.1361	0.1710	0.1798	0.1318	0.0327	0.0202	0.0110	0.0102	160-165	0.0126	2116	100.100
170	0.1412	0.1718	0.1768	0.1424	0.0260	0.0222	0.0028	0.0072	165-170	0.0106	2116	100.100
175	0.1242	0.1626	0.1608	0.1392	0.0844	0.0866	0.0212	0.0182	170-175	0.0061	2116	100.100
180	0.1275	0.1775	0.1910	0.1469	0.1405	0.1446	0.1256	0.1224	175-180	0.0927	2116	100.100
DEG	LUMINOUS INTENSITY:cd								WATT:1m			



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
95	224	76
90	766	254
75	1290	697
70	1775	1029
65	2228	1396
60	3201	1991
55	4516	2610
50	6287	3750
45	9422	5487

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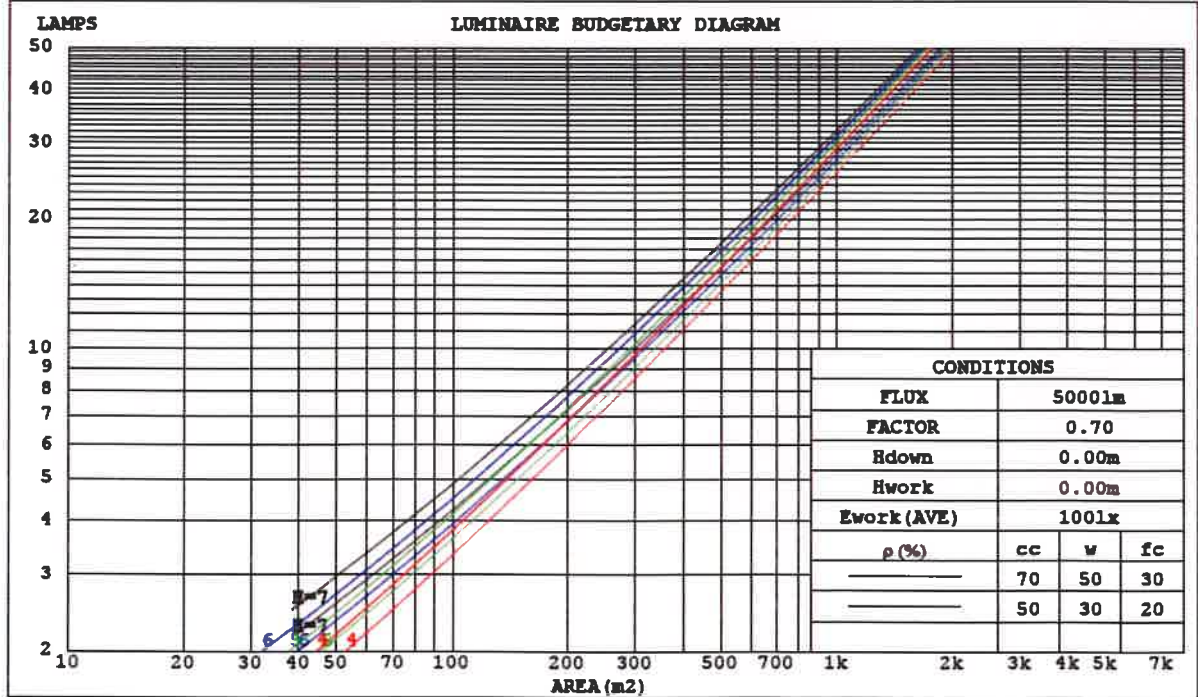
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ffc	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	1.07	1.04	1.07	1.05	1.02	1.03	1.01	.99	.99	.98	.96	.96	.95	.93	.92
2.0	1.00	.96	.92	.99	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.78	.76
4.0	.85	.79	.74	.84	.78	.74	.82	.77	.73	.80	.75	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.72	.67	.76	.71	.66	.74	.70	.66	.73	.69	.65	.64
6.0	.73	.67	.62	.72	.66	.62	.71	.65	.61	.69	.64	.61	.68	.64	.60	.59
7.0	.68	.62	.57	.68	.61	.57	.66	.61	.56	.65	.60	.56	.64	.59	.56	.54
8.0	.64	.57	.53	.63	.57	.53	.62	.56	.52	.61	.56	.52	.60	.55	.52	.50
9.0	.60	.54	.49	.59	.53	.49	.58	.53	.49	.58	.52	.49	.57	.52	.48	.47
10.0	.56	.50	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.54	.49	.45	.44



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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	.203	.115	.037	.196	.112	.036	.183	.105	.034	.172	.099	.032	.161	.093	.030		
2.0	.196	.108	.033	.190	.105	.032	.180	.100	.031	.170	.095	.030	.160	.091	.029		
3.0	.187	.099	.030	.182	.097	.029	.173	.094	.028	.164	.090	.028	.156	.086	.027		
4.0	.177	.092	.027	.173	.091	.027	.165	.087	.026	.157	.084	.025	.150	.082	.025		
5.0	.168	.086	.025	.164	.084	.025	.157	.082	.024	.150	.079	.024	.144	.077	.023		
6.0	.159	.080	.023	.156	.079	.023	.150	.077	.022	.144	.075	.022	.138	.073	.022		
7.0	.151	.075	.021	.148	.074	.021	.143	.072	.021	.137	.070	.021	.133	.069	.020		
8.0	.144	.070	.020	.141	.070	.020	.136	.068	.019	.131	.067	.019	.127	.065	.019		
9.0	.137	.066	.019	.135	.066	.018	.130	.064	.018	.126	.063	.018	.122	.062	.018		
10.0	.131	.063	.017	.129	.062	.017	.124	.061	.017	.121	.060	.017	.117	.059	.017		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016		
2.0	.160	.132	.110	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013		
3.0	.148	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010		
4.0	.139	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008		
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007		
6.0	.124	.079	.047	.106	.069	.041	.073	.048	.029	.043	.028	.017	.014	.009	.006		
7.0	.117	.072	.040	.101	.062	.035	.070	.044	.025	.041	.026	.015	.013	.008	.005		
8.0	.112	.066	.034	.096	.057	.030	.067	.040	.021	.039	.024	.013	.013	.008	.004		
9.0	.106	.061	.030	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004		
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.035	.020	.010	.012	.007	.003		



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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	16.7	17.8	16.9	17.9	18.1	14.6	15.7	14.8	15.8	16.0
3H	16.8	17.8	17.1	18.0	18.3	14.6	15.6	14.9	15.8	16.1
4H	16.8	17.8	17.1	18.0	18.3	14.6	15.6	14.9	15.8	16.0
6H	16.8	17.7	17.1	17.9	18.2	14.5	15.4	14.8	15.7	15.9
8H	16.8	17.6	17.1	17.9	18.2	14.5	15.3	14.8	15.6	15.9
12H	16.7	17.5	17.1	17.8	18.1	14.4	15.3	14.8	15.5	15.8
4H 2H	16.6	17.5	16.9	17.8	18.0	14.7	15.6	15.0	15.8	16.1
3H	16.8	17.6	17.2	17.9	18.2	14.8	15.6	15.1	15.9	16.2
4H	16.9	17.6	17.2	17.9	18.2	14.8	15.5	15.1	15.8	16.1
6H	16.9	17.5	17.3	17.9	18.2	14.7	15.4	15.1	15.7	16.1
8H	16.8	17.4	17.2	17.8	18.2	14.7	15.3	15.1	15.6	16.0
12H	16.8	17.3	17.2	17.7	18.1	14.6	15.2	15.1	15.6	16.0
8H 4H	16.8	17.4	17.2	17.7	18.1	14.7	15.3	15.1	15.7	16.1
6H	16.8	17.3	17.2	17.7	18.1	14.7	15.2	15.1	15.6	16.0
8H	16.8	17.2	17.2	17.6	18.1	14.7	15.1	15.1	15.5	16.0
12H	16.7	17.1	17.2	17.5	18.0	14.6	15.0	15.1	15.4	15.9
12H 4H	16.7	17.3	17.2	17.7	18.1	14.7	15.3	15.1	15.6	16.0
6H	16.7	17.2	17.2	17.6	18.0	14.7	15.1	15.1	15.5	16.0
8H	16.7	17.1	17.2	17.5	18.0	14.6	15.0	15.1	15.4	15.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.0					+ 1.6 / - 2.8				
1.5H	+ 1.9 / - 1.8					+ 2.0 / - 1.9				
2.0H	+ 3.0 / - 2.7					+ 2.8 / - 2.5				

CIE Pub.117 Corrected 3116 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.9)



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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	0.6	0
Walls	0.7	0.5	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) $k(RI) \times RCR = 5$									
$k = 0.60$	78	70	65	77	70	65	77	69	65	60
0.80	87	79	74	86	79	74	86	78	74	69
1.00	93	86	81	92	86	81	90	86	80	75
1.25	98	91	87	97	91	87	95	90	86	81
1.50	101	95	91	100	95	91	98	93	90	84
2.00	105	100	96	104	99	95	101	97	94	88
2.50	108	103	99	106	102	98	103	99	96	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SRPM = 1.25		



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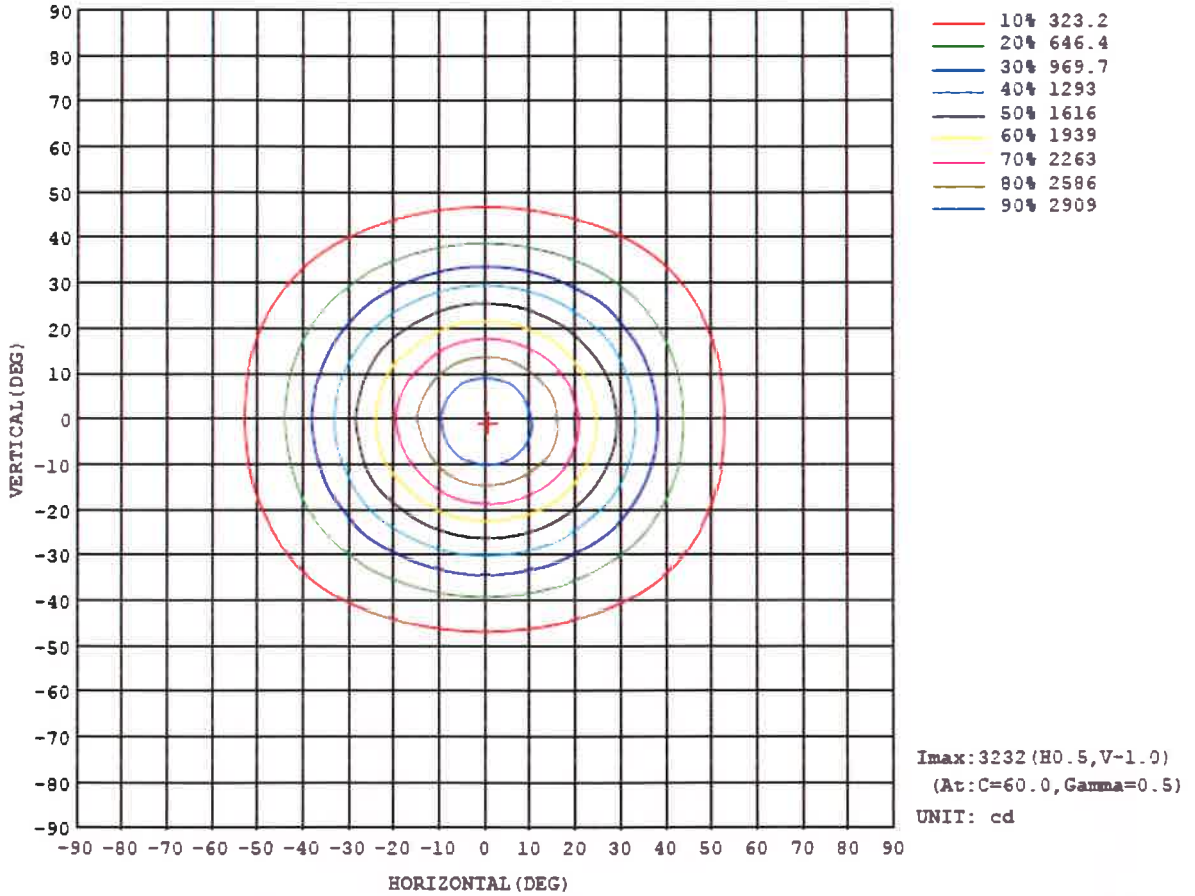
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

ISOCANDELA DIAGRAM



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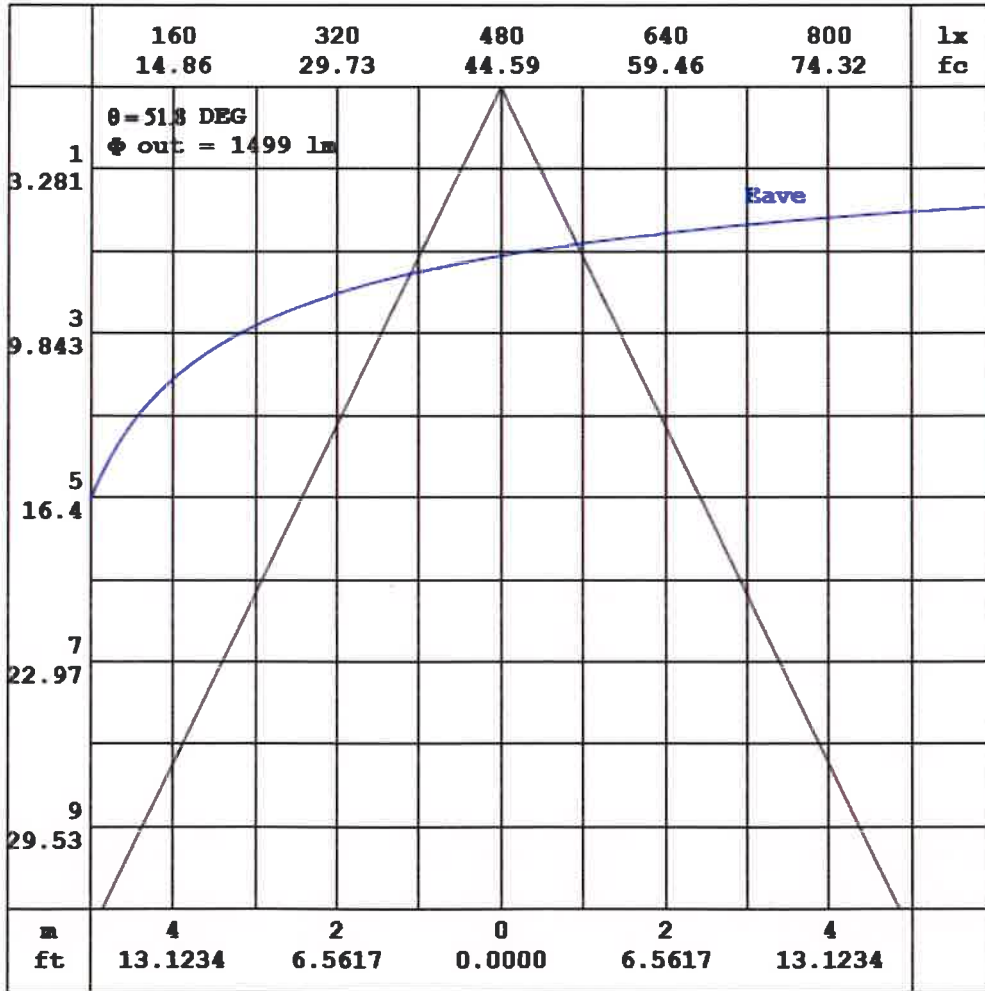
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)**AAI CURVES**

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



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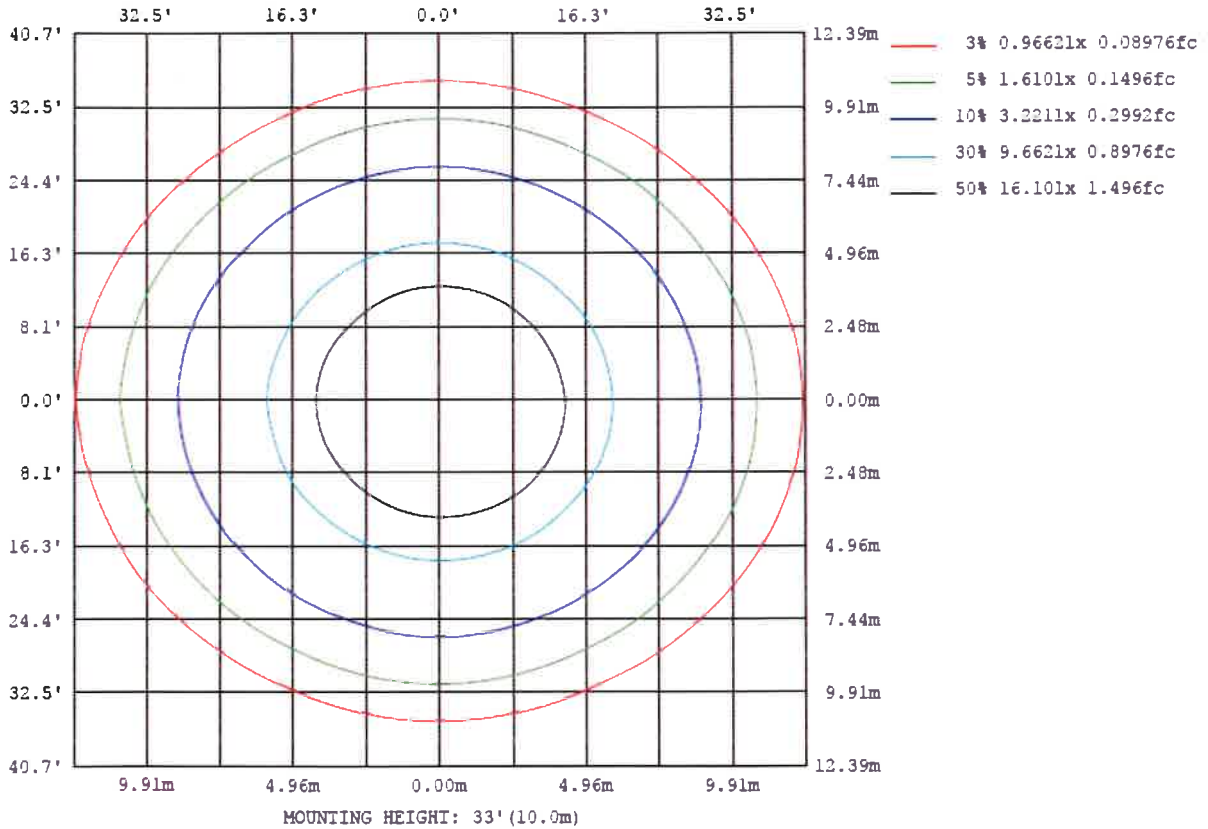
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2.1 DW Fotometrik Deney Sonuçları (Photometric Test Results of the DW)

ISOLUX DIAGRAM



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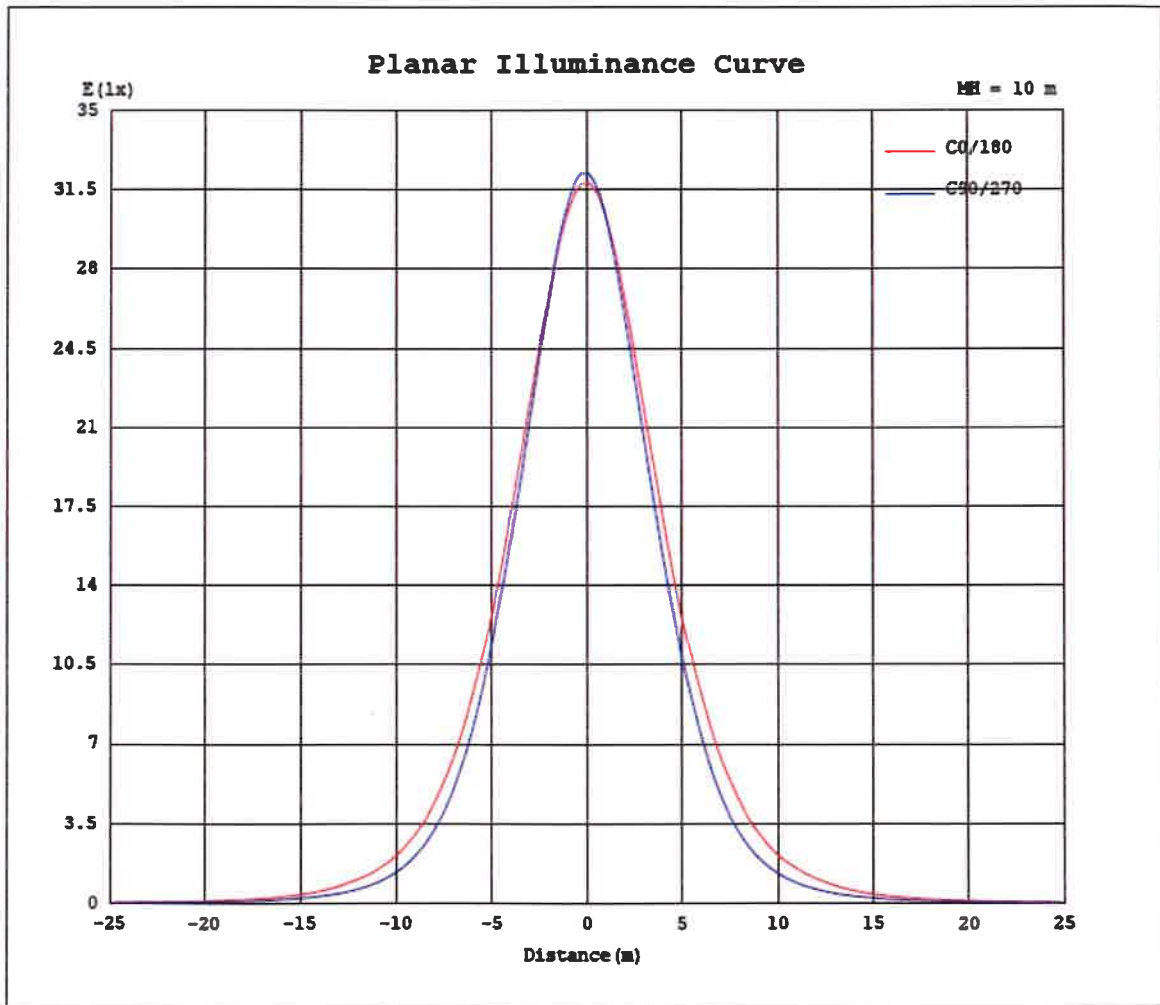
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2.1

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)	43,59 W
Ölçülen Gerilim (V) (Input Voltage)	46,89 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	0,3704
Chrom y	0,3673
Duv	-0,0014
Chrom u'	0,2222
Chrom v'	0,4959
Peak	445 nm
Dominant	579 nm
CCT	4220 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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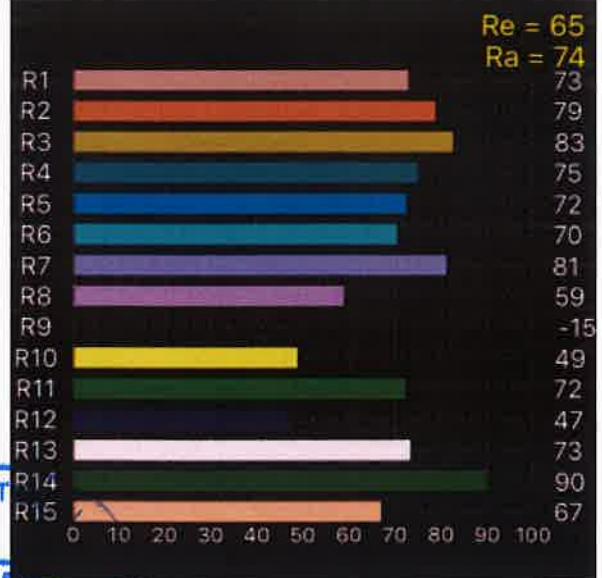
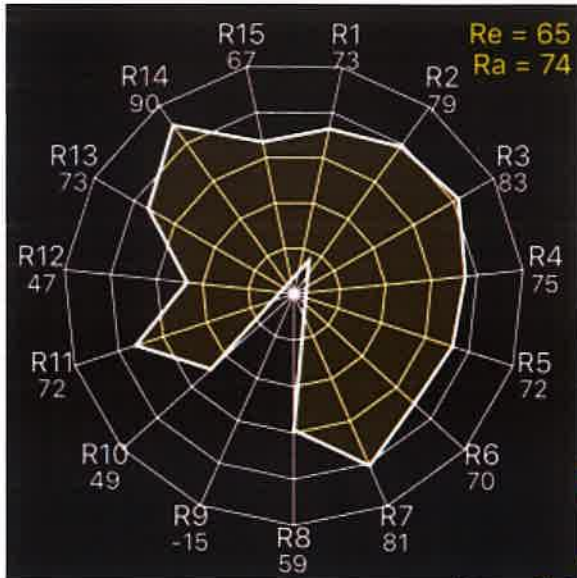
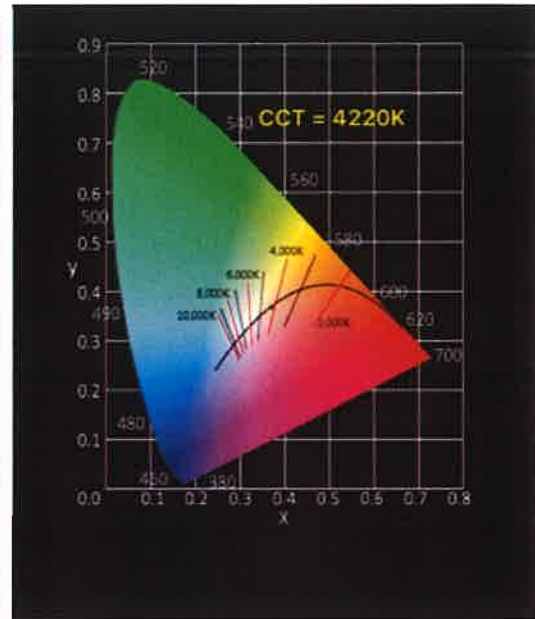
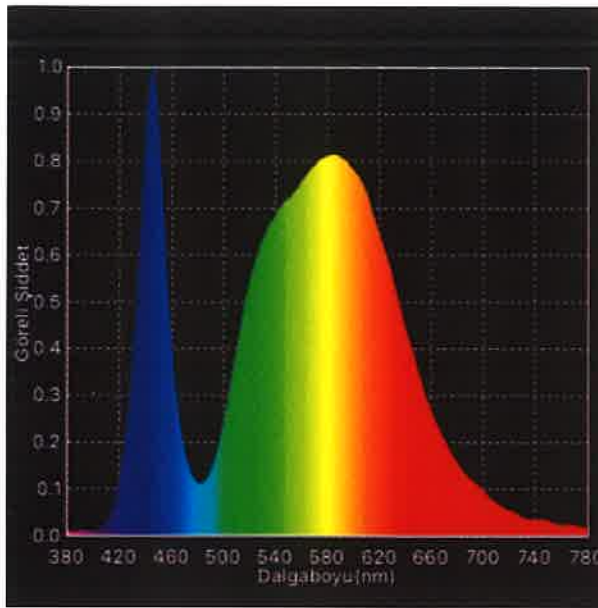
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2.2 DW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the DW)

Spectral Power Distribution



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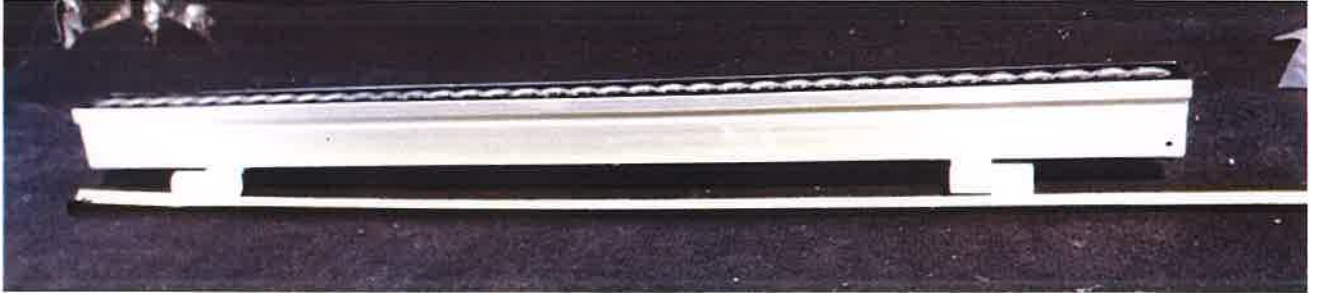
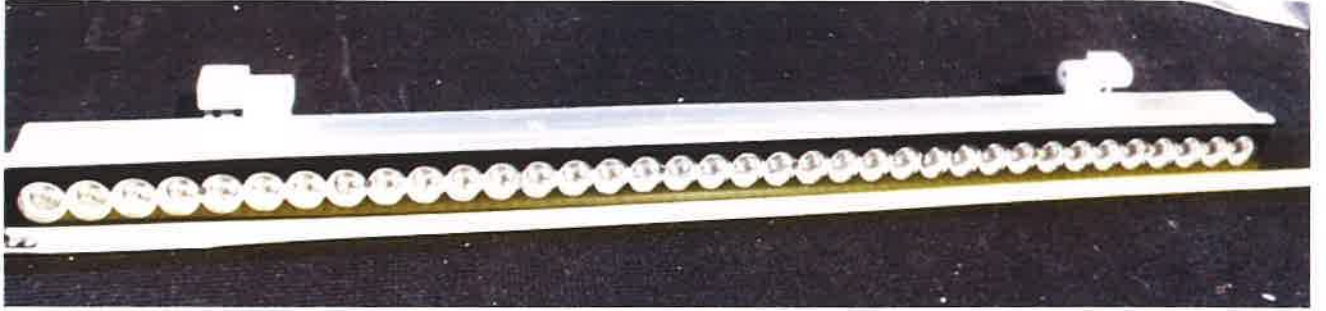
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



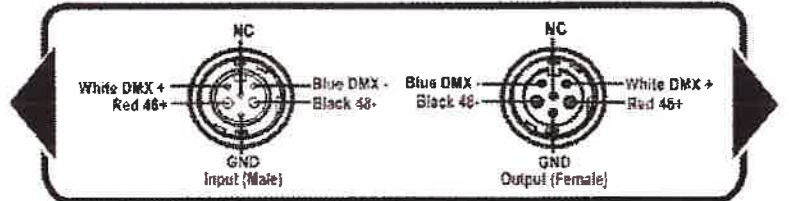
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