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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
199

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 Tarif
Name and identity of test item

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

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 (Components)	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/Whi teSilkScreen	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 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	44,98 W
Ölçülen Gerilim (V) (Input Voltage)	46,87 VDC
Ölçülen Akım (A) (Input Current)	0,96 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)	2970,9
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	4755
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	66,05



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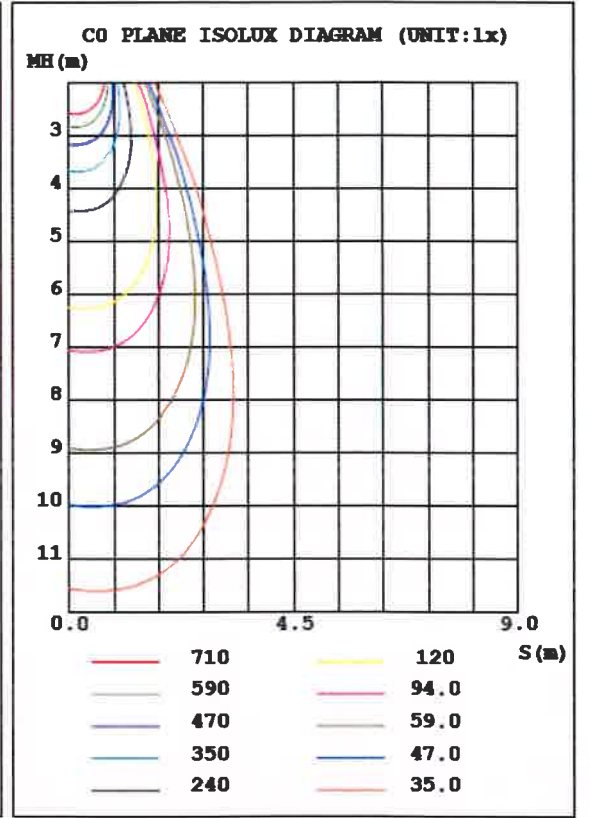
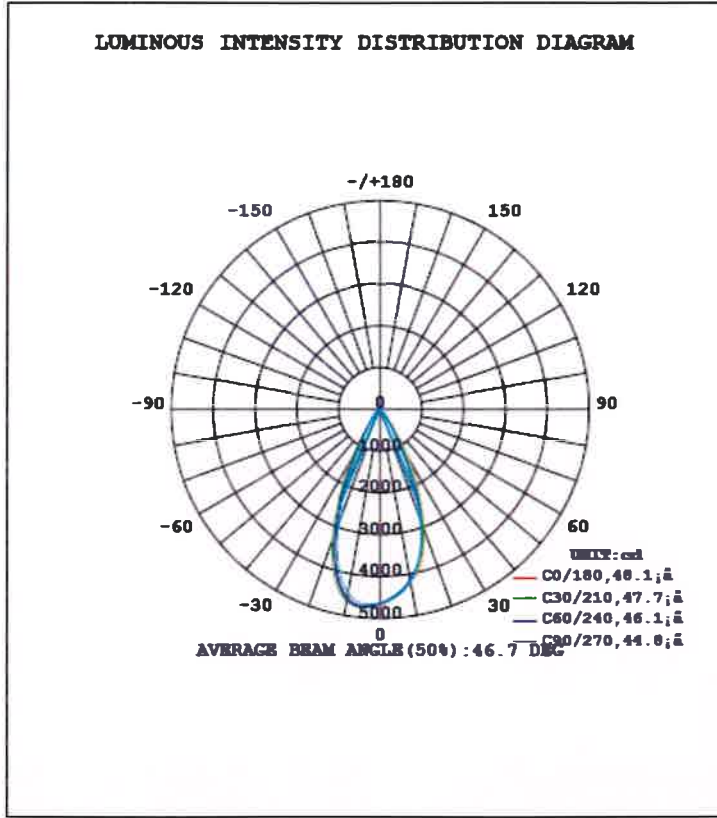
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)



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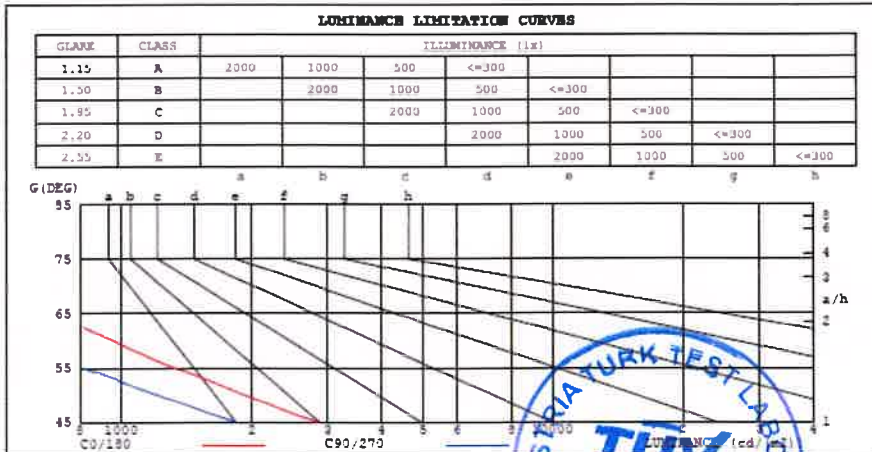
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lim. lum.
5	4740	4748	4662	4517	4493	4480	4493	4565	0- 5	109.9	109.9	3.7, 3.7
10	4582	4641	4453	4280	4210	4153	4157	4277	5- 10	219.7	429.6	14.5, 14.3
15	4095	4134	3888	3761	3787	3670	3635	3876	10- 15	487.5	917.1	30.9, 30.9
20	3289	3216	2889	2946	3017	2926	2812	3071	15- 20	566.8	1484	49.9, 49.9
25	2240	2115	1774	1987	2157	2022	1796	2062	20- 25	525.7	2010	47.4, 47.4
30	1281	1110	879.7	1079	1217	1124	899.5	1101	25- 30	389.7	2392	30.6, 30.6
35	659.5	530.5	414.7	523.2	702.0	548.2	424.6	526.0	30- 35	230.0	2623	18.3, 18.3
40	354.2	286.0	225.3	278.4	365.9	281.7	217.1	273.3	35- 40	131.4	2755	12.7, 12.7
45	202.7	162.9	130.4	162.4	217.6	156.0	118.6	149.9	40- 45	79.75	2834	9.4, 9.4
50	123.0	97.80	77.66	97.37	136.0	91.75	70.33	90.14	45- 50	50.93	2885	7.1, 7.1
55	75.62	61.05	46.95	60.39	81.01	59.26	42.49	56.22	50- 55	33.63	2913	4.9, 4.9
60	47.83	38.62	29.76	37.82	49.25	36.66	26.64	33.09	55- 60	22.31	2941	3.3, 3.3
65	29.87	22.91	16.97	22.80	30.49	21.36	14.64	19.32	60- 65	14.41	2956	2.2, 2.2
70	17.12	11.52	8.629	12.04	17.34	10.86	7.294	9.884	65- 70	9.492	2964	1.5, 1.5
75	8.174	5.129	3.652	5.224	8.658	4.987	3.401	4.679	70- 75	4.359	2968	0.9, 0.9
80	2.892	1.782	1.216	1.787	2.400	1.773	1.217	1.621	75- 80	1.892	2970	0.6, 0.6
85	0.4899	0.1922	0.1076	0.2260	0.6724	0.2566	0.1265	0.2131	80- 85	0.5261	2971	0.4, 0.4
90	0	0	0	0	0	0	0	0	85- 90	0.0274	2971	0.3, 0.3
95	0	0	0	0	0	0	0	0	90- 95	0	2971	0.2, 0.2
100	0	0	0	0	0	0	0	0	95-100	0	2971	0.1, 0.1
105	0	0	0	0	0	0	0	0	100-105	0	2971	0.1, 0.1
110	0	0	0	0	0	0	0	0	105-110	0	2971	0.1, 0.1
115	0	0	0	0	0	0	0	0	110-115	0	2971	0.1, 0.1
120	0	0	0	0	0	0	0	0	115-120	0	2971	0.1, 0.1
125	0	0	0	0	0	0	0	0	120-125	0	2971	0.1, 0.1
130	0	0	0	0	0	0	0	0	125-130	0	2971	0.1, 0.1
135	0	0	0	0	0	0	0	0	130-135	0	2971	0.1, 0.1
140	0	0	0	0	0	0	0	0	135-140	0	2971	0.1, 0.1
145	0	0	0	0	0	0	0	0	140-145	0	2971	0.1, 0.1
150	0	0.0479	0.0279	0.0222	0	0	0	0	145-150	0.0007	2971	0.1, 0.1
155	0.0600	0.1552	0.1874	0.1202	0.0901	0.0179	0.0169	0	150-155	0.0097	2971	0.1, 0.1
160	0.2180	0.2675	0.3098	0.2291	0.0813	0.0705	0.0679	0.0426	155-160	0.0240	2971	0.1, 0.1
165	0.2710	0.3202	0.3408	0.2785	0.1423	0.1172	0.0960	0.0937	160-165	0.0298	2971	0.1, 0.1
170	0.2912	0.3272	0.3432	0.3021	0.1882	0.1389	0.0994	0.0928	165-170	0.0256	2971	0.1, 0.1
175	0.2847	0.3401	0.3042	0.2956	0.1906	0.1933	0.1262	0.1085	170-175	0.0185	2971	0.1, 0.1
180	0.2211	0.2824	0.2599	0.2119	0.2268	0.2619	0.3102	0.2728	175-180	0.0062	2971	0.1, 0.1
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
85	56	12
80	172	70
75	216	141
70	501	252
65	707	402
60	951	575
55	1318	919
50	1914	1298
45	2866	1944

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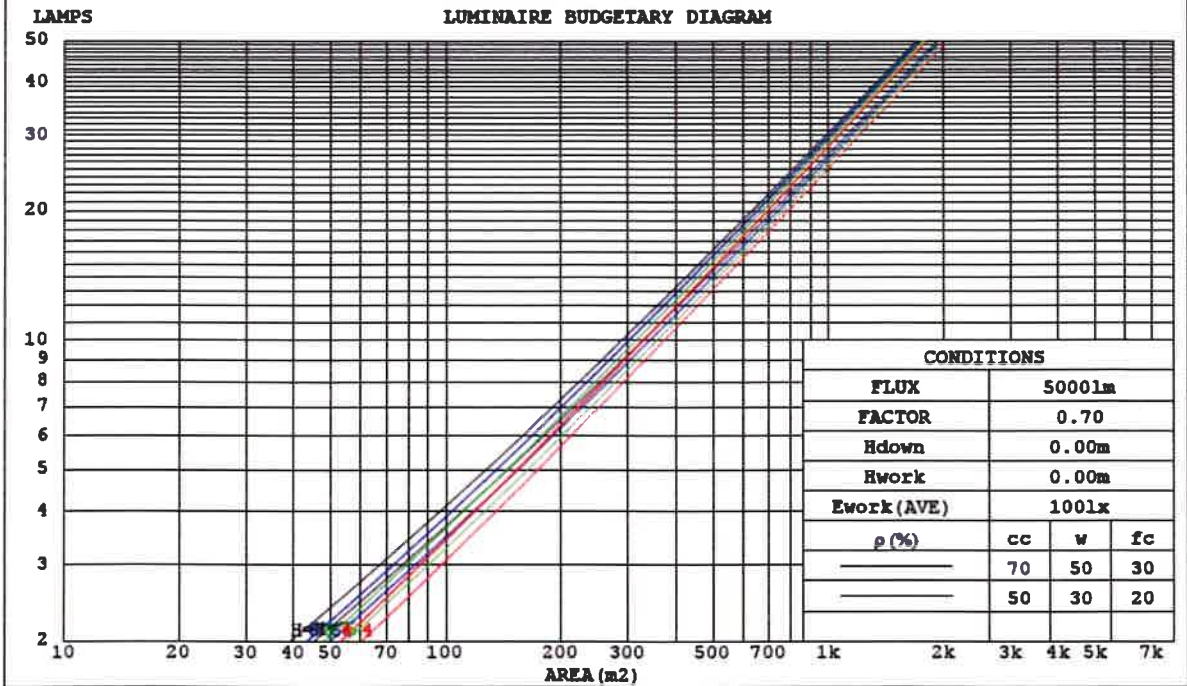
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

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 Utilisation (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	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.82	.79	.76	.81	.78	.75	.73
6.0	.82	.76	.72	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.74	.71	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.66
8.0	.74	.68	.64	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.62
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
10.0	.67	.62	.58	.67	.61	.58	.66	.61	.58	.65	.61	.58	.64	.60	.58	.56



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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	.170	.096	.031	.163	.093	.030	.150	.086	.028	.139	.080	.026	.128	.074	.024	
2.0	.162	.089	.027	.156	.086	.026	.145	.081	.025	.136	.076	.024	.127	.072	.023	
3.0	.153	.082	.024	.148	.079	.024	.140	.076	.023	.131	.072	.022	.124	.068	.021	
4.0	.145	.076	.022	.141	.074	.022	.134	.071	.021	.126	.068	.020	.120	.065	.020	
5.0	.138	.070	.020	.135	.069	.020	.128	.067	.020	.122	.064	.019	.116	.062	.019	
6.0	.132	.066	.019	.128	.065	.019	.123	.063	.018	.117	.061	.018	.112	.059	.018	
7.0	.126	.062	.018	.123	.061	.017	.118	.059	.017	.113	.058	.017	.108	.056	.017	
8.0	.120	.059	.016	.118	.058	.016	.113	.056	.016	.109	.055	.016	.105	.054	.016	
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.101	.051	.015	
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.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	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.078	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	



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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	10.8	11.7	11.0	11.9	12.0	8.4	9.3	8.6	9.5	9.6
3H	10.8	11.6	11.1	11.8	12.0	8.3	9.2	8.6	9.4	9.6
4H	10.8	11.5	11.0	11.8	12.0	8.3	9.0	8.6	9.3	9.5
6H	10.7	11.4	11.0	11.7	11.9	8.2	8.9	8.5	9.2	9.4
8H	10.7	11.4	11.0	11.6	11.9	8.2	8.8	8.5	9.1	9.4
12H	10.6	11.3	10.9	11.5	11.8	8.1	8.8	8.4	9.0	9.3
4H 2H	10.7	11.4	10.9	11.6	11.9	8.4	9.1	8.6	9.3	9.6
3H	10.7	11.4	11.0	11.6	11.9	8.3	9.0	8.6	9.3	9.5
4H	10.6	11.3	11.0	11.5	11.9	8.3	8.9	8.6	9.2	9.5
6H	10.6	11.1	10.9	11.4	11.8	8.2	8.7	8.5	9.0	9.4
8H	10.5	11.0	10.9	11.4	11.7	8.1	8.6	8.5	9.0	9.3
12H	10.5	10.9	10.9	11.3	11.7	8.1	8.5	8.5	8.9	9.3
8H 4H	10.5	11.0	10.9	11.4	11.7	8.1	8.6	8.5	9.0	9.4
6H	10.4	10.8	10.9	11.2	11.7	8.1	8.5	8.5	8.9	9.3
8H	10.4	10.7	10.8	11.2	11.6	8.0	8.4	8.4	8.8	9.2
12H	10.3	10.6	10.8	11.1	11.6	7.9	8.2	8.4	8.7	9.2
12H 4H	10.5	10.9	10.9	11.3	11.7	8.1	8.5	8.5	8.9	9.3
6H	10.4	10.7	10.8	11.2	11.6	8.0	8.4	8.4	8.8	9.2
8H	10.3	10.6	10.8	11.1	11.6	7.9	8.3	8.4	8.7	9.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / - 3.7					+ 2.0 / - 4.2				
1.5H	+ 3.8 / - 3.0					+ 3.0 / - 2.9				
2.0H	+ 3.7 / - 3.1					+ 3.2 / - 3.1				

CIE Pub.117 Corrected 2971 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.8)



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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	0.6	0.6	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	81	77	86	80	77	86	80	76	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
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	115	113	111	113	111	109	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SRMOM = 1.25			



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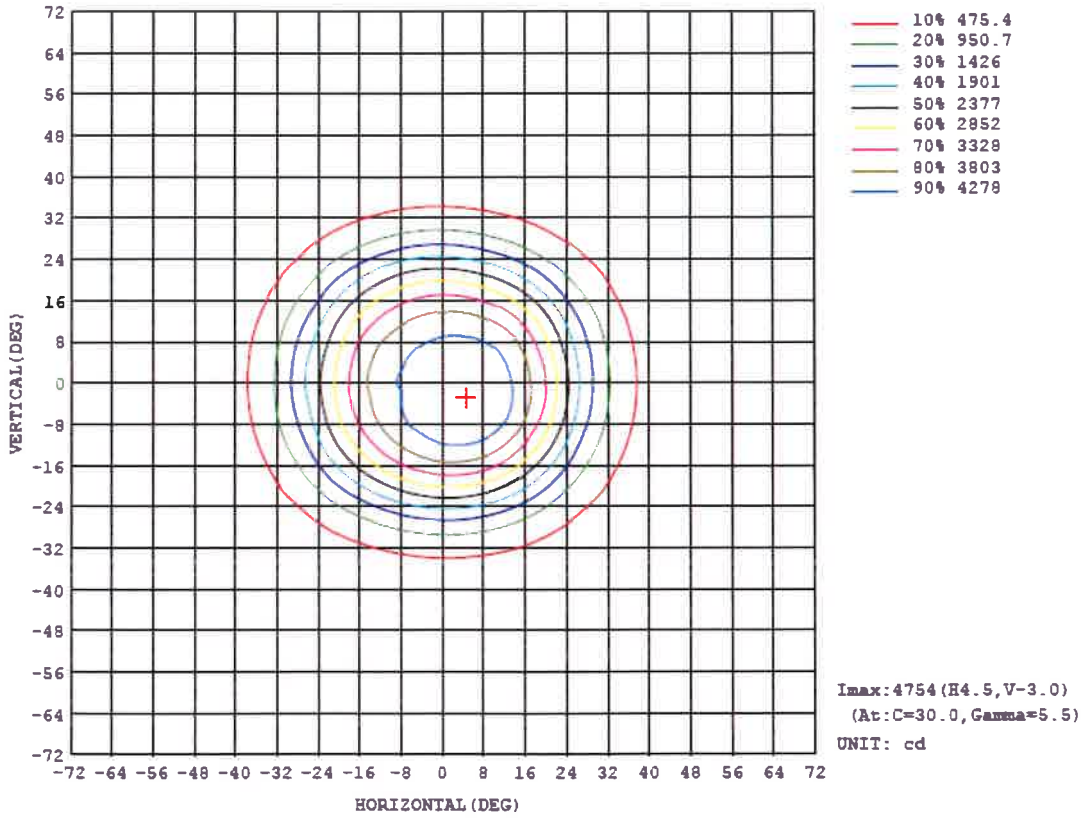
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

ISOCANDELA DIAGRAM



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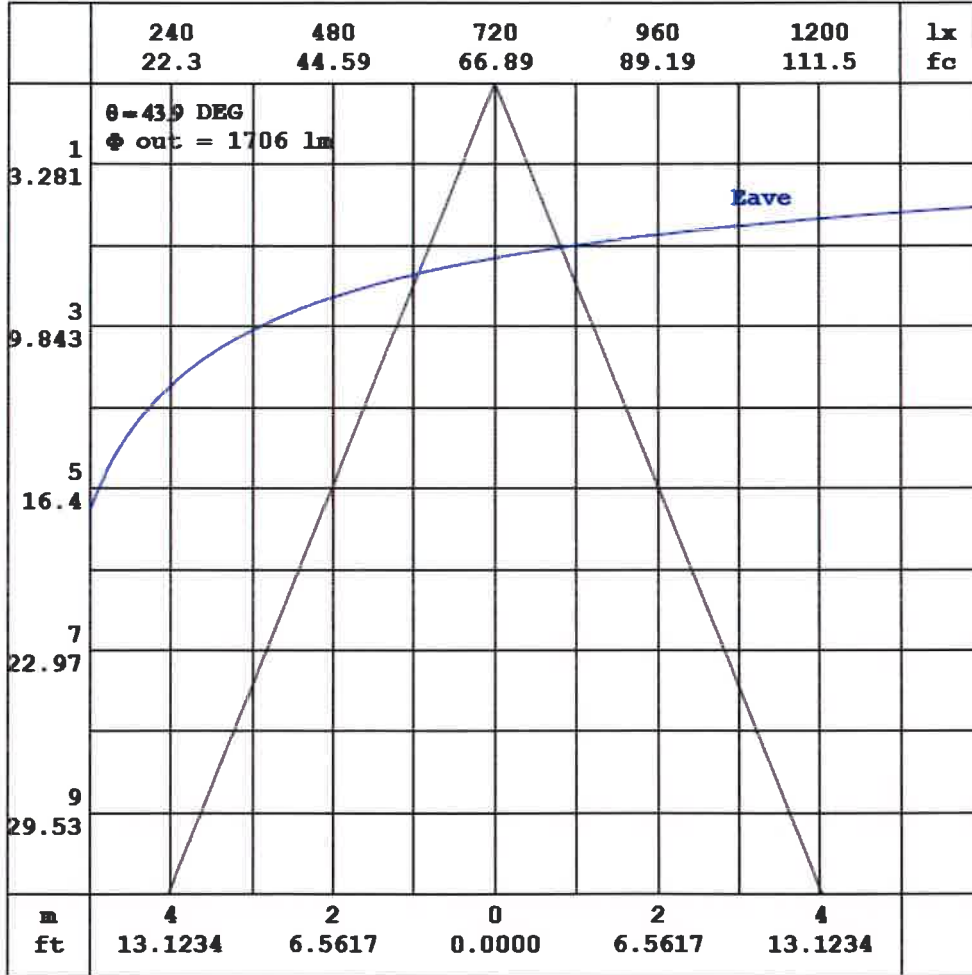
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)**AAI CURVES**

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



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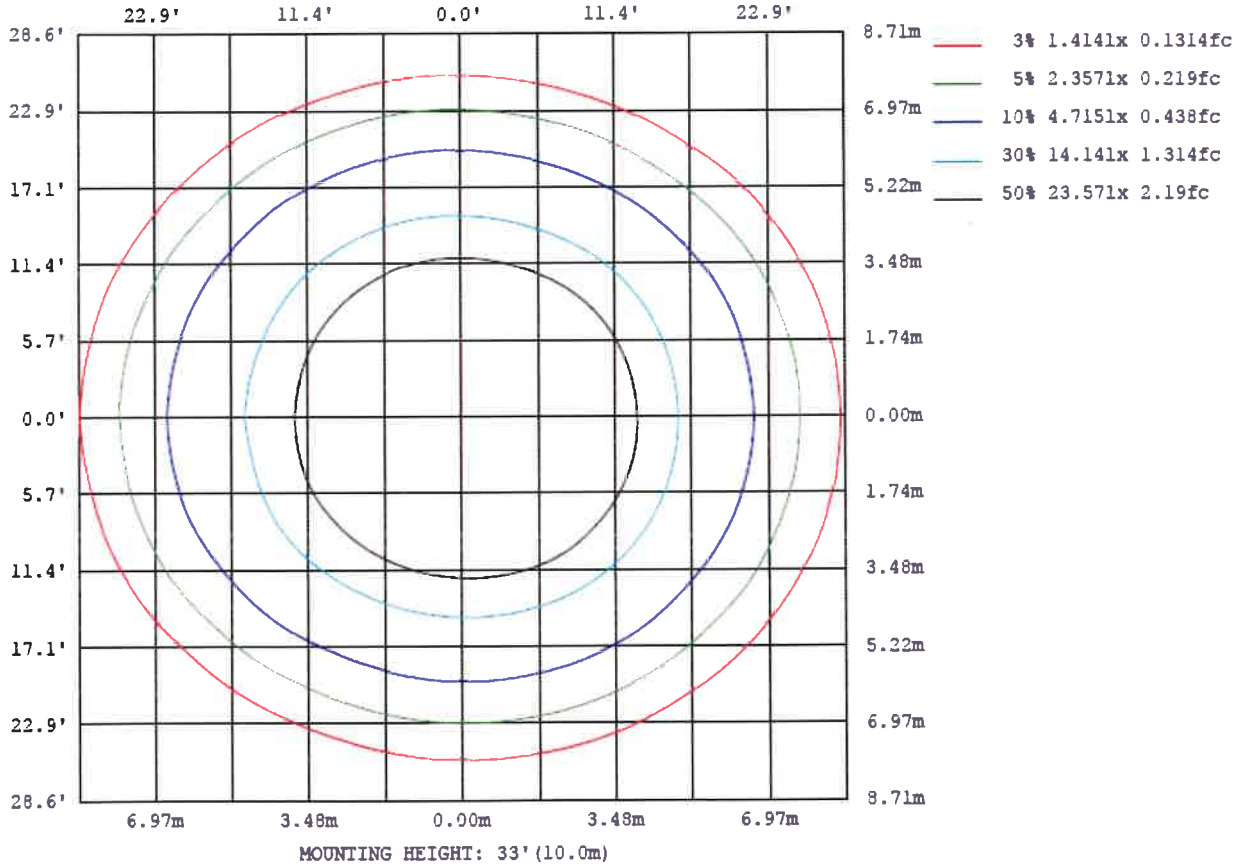
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)

ISOLUX DIAGRAM



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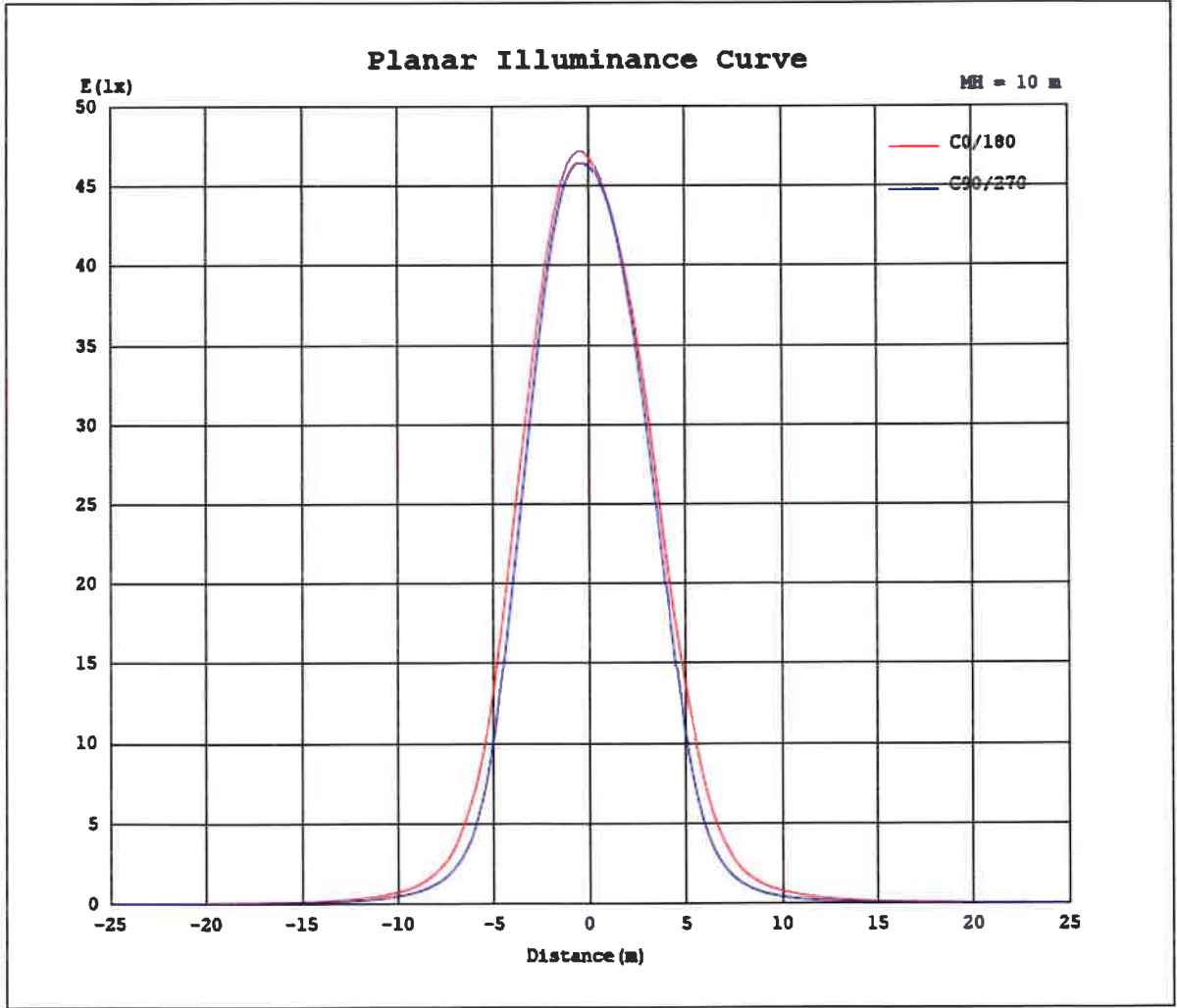
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2.1 CW Fotometrik Deney Sonuçları (Photometric Test Results of the CW)



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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)	44,98 W
Ölçülen Gerilim (V) (Input Voltage)	46,87 VDC
Ölçülen Akım (A) (Input Current)	0,96 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	0,3112
Chrom y	0,3249
Duv	0,0018
Chrom u'	0,1983
Chrom v'	0,4659
Peak	445 nm
Dominant	487 nm
CCT	6621 K
Nominal CCT	-
Ra(CRI)	72
R9	-20
S/P Ratio	2,0
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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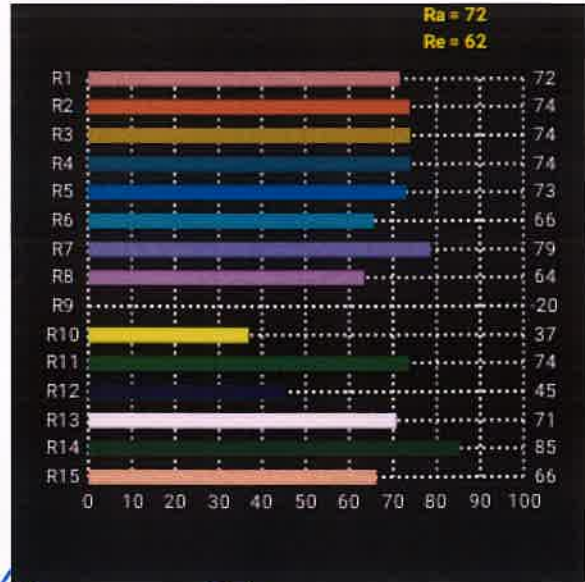
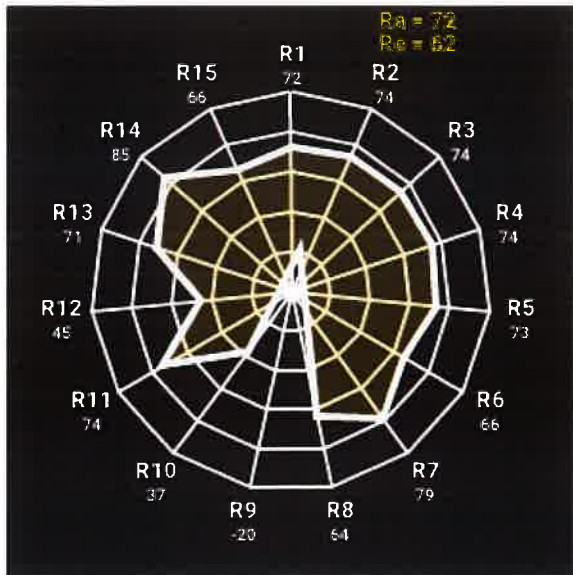
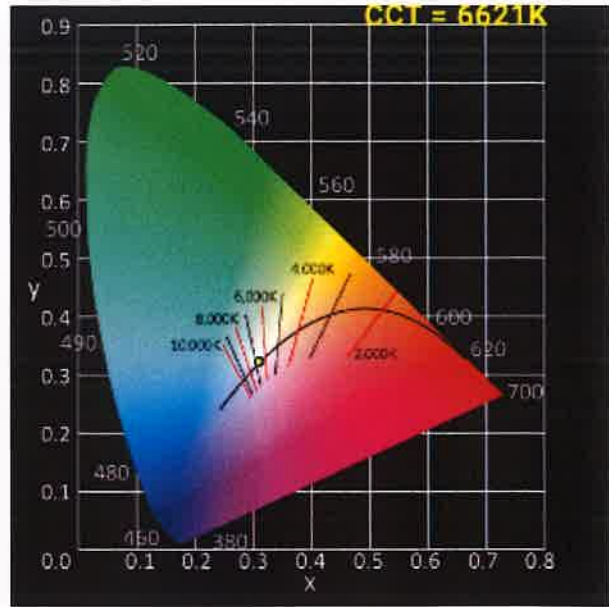
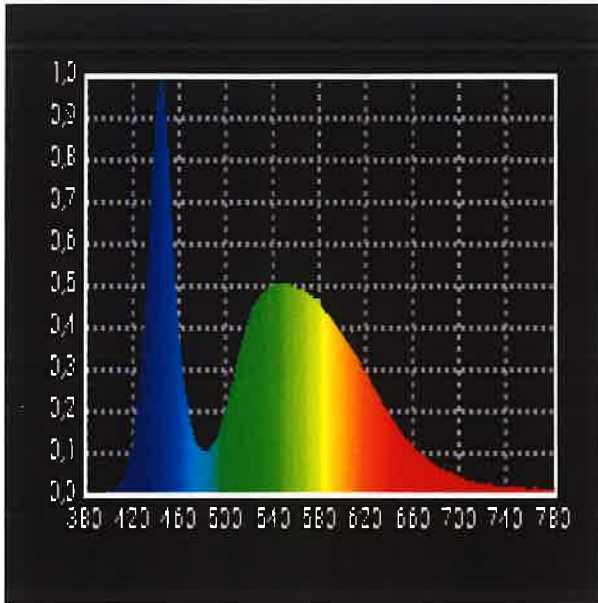
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2.2 CW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the CW)

Spectral Power Distribution



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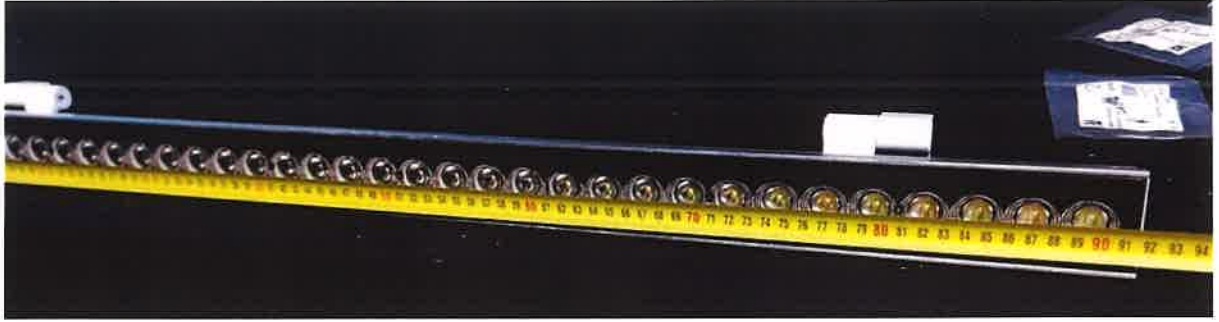
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



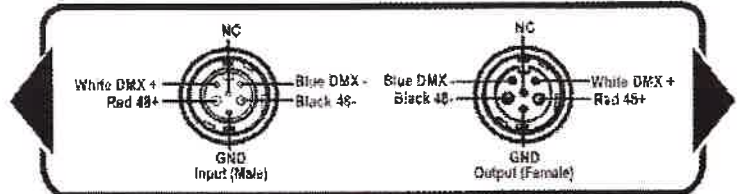
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CE FC III

RoHS compliant IP67



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48V DC / Max. 0.96A / Max. 46W
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