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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
191

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 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

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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 Medium Beam 30°
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/Whi teSilkScreen	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 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 / 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)	2975,6
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	9015
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	68,99



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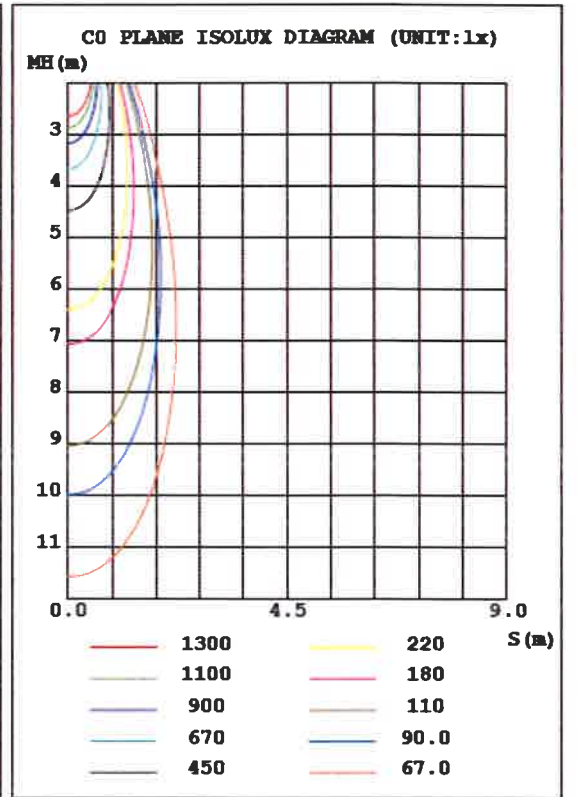
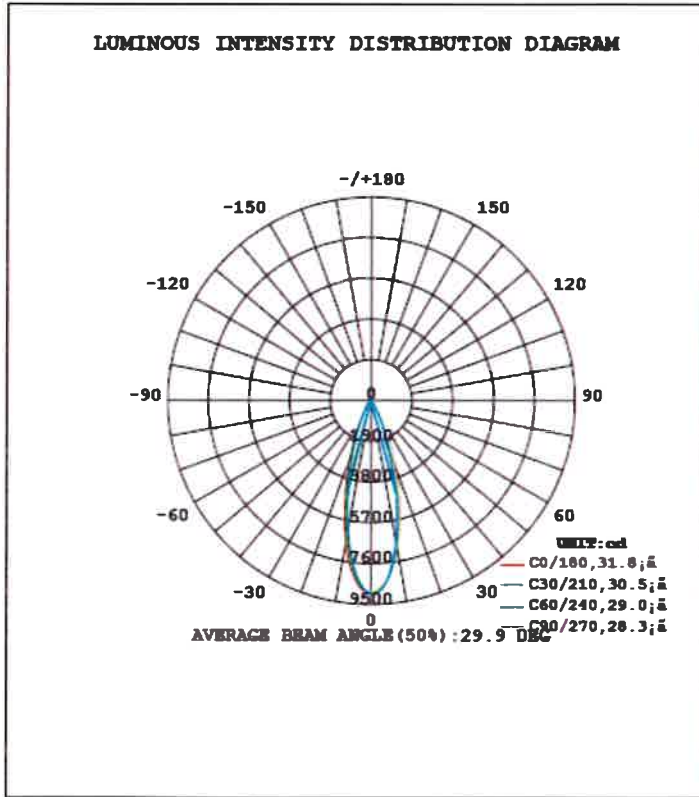
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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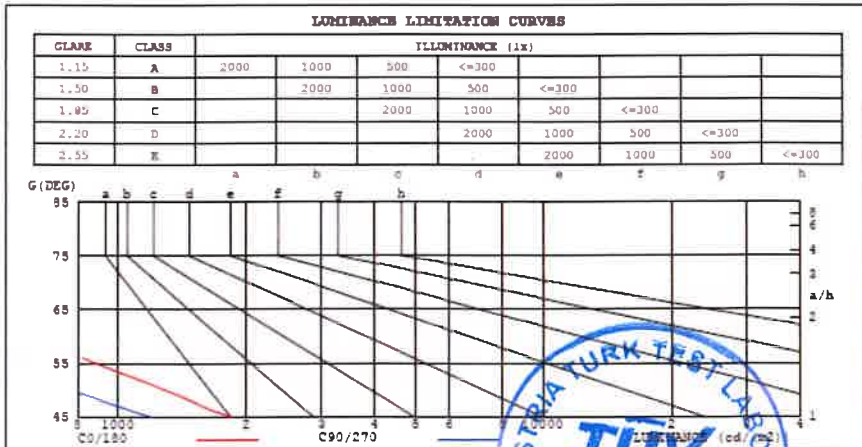
2.1

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

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

y	C0	C45	C90	C135	C180	C225	C270	C315	y	☉ zone	☉ total	lum. limit
5	8408	8148	7978	8089	8287	8478	8426	8410	0- 5	206.0	206.0	6.92, 6.92
10	6765	6282	6000	6241	6987	6971	6872	6723	5- 10	528.2	734.2	24.7, 24.7
15	4692	4127	3842	4138	5025	4724	4480	4614	10- 15	645.2	1380	66.4, 66.4
20	2889	2329	2124	2380	3104	2749	2579	2720	15- 20	567.2	1947	65.4, 65.4
25	1861	1211	1070	1252	1691	1429	1322	1429	20- 25	401.2	2348	76.9, 76.9
30	808.2	602.9	529.5	632.2	907.8	711.1	684.8	702.7	25- 30	247.1	2898	87.2, 87.2
35	414.1	313.2	273.4	326.5	462.1	361.4	329.8	388.0	30- 35	145.9	2741	92.1, 92.1
40	224.4	172.0	147.1	175.8	252.5	192.4	172.5	192.1	35- 40	87.02	2828	95.95
45	120.4	100.8	84.41	102.0	147.8	110.0	98.59	107.6	40- 45	52.60	2882	96.8, 96.8
50	62.40	61.88	49.45	60.80	81.62	62.99	52.06	63.16	45- 50	34.25	2916	98.98
55	50.57	48.69	39.72	47.75	62.40	48.69	41.87	48.75	50- 55	22.26	2928	99.7, 99.7
60	32.60	28.60	19.22	24.96	36.08	28.25	20.07	28.12	55- 60	15.00	2952	99.9, 99.9
65	22.02	16.10	11.70	15.28	22.20	15.21	11.84	18.89	60- 65	10.16	2964	99.6, 99.6
70	13.09	8.792	6.086	8.402	12.88	8.620	6.496	8.909	65- 70	6.242	2970	99.8, 99.8
75	6.469	4.179	2.902	4.128	7.129	4.529	3.411	4.555	70- 75	2.515	2972	99.9, 99.9
80	2.851	1.375	0.9673	1.408	2.851	1.673	1.245	1.654	75- 80	1.610	2975	100, 100
85	0.3245	0.0664	0.0102	0.0982	0.5149	0.2115	0.1516	0.1948	80- 85	0.4298	2978	100, 100
90	0	0	0	0	0	0	0	0	85- 90	0.0144	2975	100, 100
95	0	0	0	0	0	0	0	0	90- 95	0	2975	100, 100
100	0	0	0	0	0	0	0	0	95-100	0	2975	100, 100
105	0	0	0	0	0	0	0	0	100-105	0	2975	100, 100
110	0	0	0	0	0	0	0	0	105-110	0	2975	100, 100
115	0	0	0	0	0	0	0	0	110-115	0	2975	100, 100
120	0	0	0	0	0	0	0	0	115-120	0	2975	100, 100
125	0	0	0	0	0	0	0	0	120-125	0	2975	100, 100
130	0	0	0	0	0	0	0	0	125-130	0	2975	100, 100
135	0	0	0	0	0	0	0	0	130-135	0	2975	100, 100
140	0	0	0	0	0	0	0	0	135-140	0	2975	100, 100
145	0	0	0	0	0	0	0	0	140-145	0	2975	100, 100
150	0	0.0111	0	0	0	0	0	0	145-150	0.0200	2978	100, 100
155	0.0825	0.1786	0.1889	0.1260	0	0	0	0	150-155	0.0071	2978	100, 100
160	0.2075	0.4150	0.4667	0.2092	0.0781	0.0618	0.0815	0.0289	155-160	0.0274	2978	100, 100
165	0.4662	0.8794	0.6300	0.4568	0.1822	0.1454	0.1310	0.1226	160-165	0.0446	2976	100, 100
170	0.8520	0.6502	0.6944	0.5590	0.2544	0.2142	0.1800	0.1891	165-170	0.0448	2976	100, 100
175	0.5478	0.6292	0.6009	0.5722	0.2178	0.2061	0.2308	0.2426	170-175	0.0298	2974	100, 100
180	0.5618	0.5877	0.5745	0.5641	0.5544	0.5792	0.4922	0.4912	175-180	0.0112	2976	100, 100



LUMINANCE cd/(m2)

G (DEG)	C0/180	C90/270
95	27	1
80	147	56
75	250	112
70	383	178
65	521	277
60	652	384
55	882	518
50	1282	769
45	1844	1194

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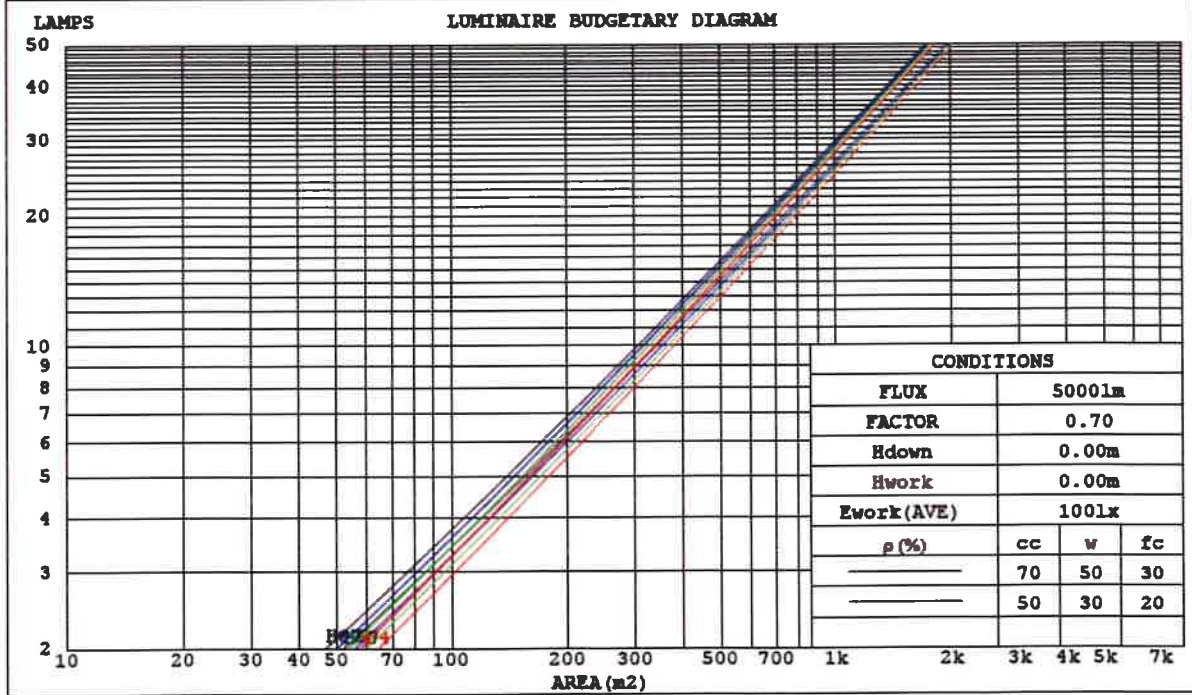
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.19	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	.96
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	.82
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.81	.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	.81	.77	.74	.80	.77	.74	.79	.76	.74	.72
8.0	.80	.75	.72	.79	.75	.72	.78	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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

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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	.154	.088	.028	.147	.084	.027	.135	.077	.025	.124	.071	.023	.113	.065	.021	
2.0	.145	.080	.024	.140	.077	.024	.129	.072	.022	.120	.067	.021	.111	.063	.020	
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018	
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.057	.017	
5.0	.122	.062	.018	.119	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015	
7.0	.110	.054	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014	
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014	
9.0	.101	.049	.014	.099	.048	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	
10.0	.096	.046	.013	.095	.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 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	7.4	8.2	7.7	8.4	8.5	5.2	6.0	5.5	6.2	6.3
3H	7.5	8.2	7.8	8.4	8.6	5.2	5.9	5.5	6.1	6.3
4H	7.5	8.2	7.8	8.4	8.6	5.2	5.8	5.4	6.1	6.3
6H	7.5	8.1	7.7	8.3	8.6	5.1	5.7	5.4	6.0	6.2
8H	7.4	8.0	7.7	8.3	8.5	5.0	5.7	5.3	5.9	6.2
12H	7.4	8.0	7.7	8.2	8.5	5.0	5.6	5.3	5.9	6.1
4H 2H	7.3	8.0	7.6	8.2	8.4	5.2	5.9	5.5	6.1	6.3
3H	7.4	8.0	7.8	8.3	8.6	5.2	5.8	5.6	6.1	6.4
4H	7.4	8.0	7.8	8.3	8.6	5.2	5.7	5.5	6.0	6.3
6H	7.4	7.9	7.7	8.2	8.5	5.1	5.6	5.5	5.9	6.2
8H	7.3	7.8	7.7	8.1	8.5	5.1	5.5	5.4	5.8	6.2
12H	7.3	7.7	7.7	8.1	8.4	5.0	5.4	5.4	5.8	6.2
8H 4H	7.3	7.7	7.7	8.1	8.5	5.1	5.5	5.5	5.9	6.2
6H	7.2	7.6	7.7	8.0	8.4	5.0	5.4	5.4	5.8	6.2
8H	7.2	7.5	7.6	7.9	8.4	4.9	5.3	5.4	5.7	6.1
12H	7.1	7.4	7.6	7.9	8.3	4.9	5.2	5.3	5.6	6.1
12H 4H	7.3	7.7	7.7	8.0	8.4	5.0	5.4	5.4	5.8	6.2
6H	7.2	7.5	7.6	7.9	8.4	4.9	5.3	5.4	5.7	6.1
8H	7.1	7.4	7.6	7.9	8.3	4.9	5.2	5.4	5.6	6.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 3.2					+ 2.0 / - 4.0				
1.5H	+ 3.8 / - 2.8					+ 3.2 / - 2.8				
2.0H	+ 3.5 / - 2.7					+ 3.2 / - 2.6				

CIE Pub.117 Corrected 2976 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.8)



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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	0.6	0.6	0.5	0
Walls	0.7	0.6	0.3	0.7	0.6	0.3	0.7	0.6	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	86	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	105	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				SRPMCM = 1.25			



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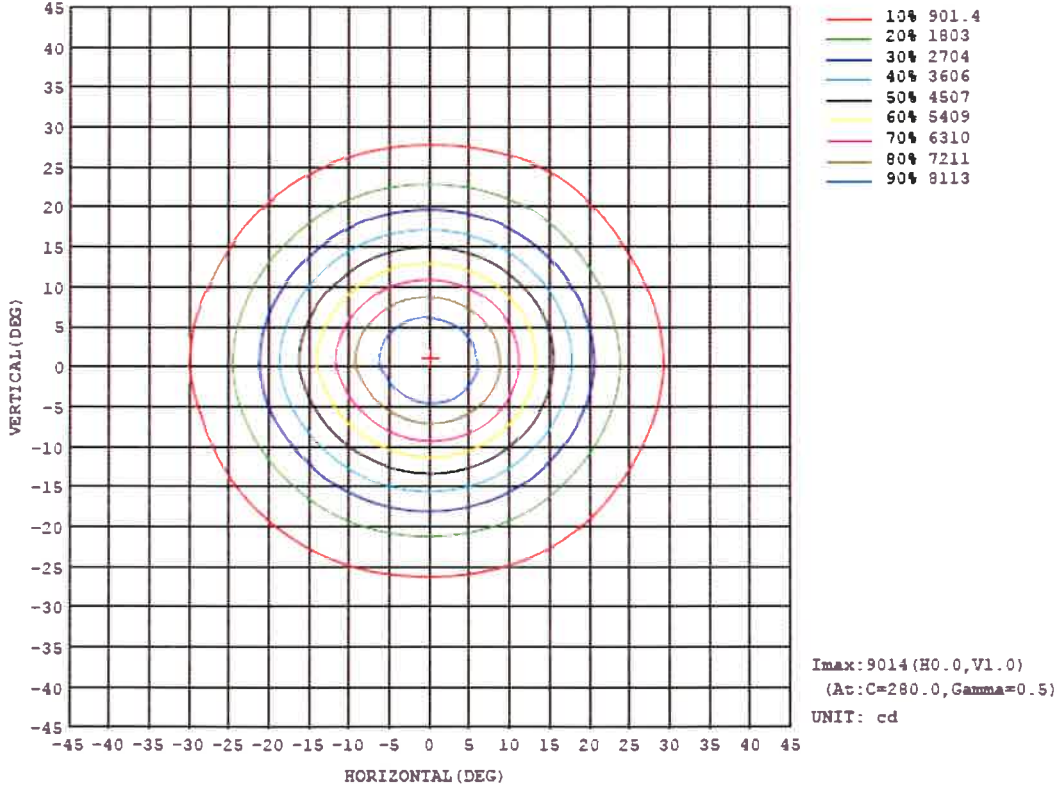
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOCANDELA DIAGRAM



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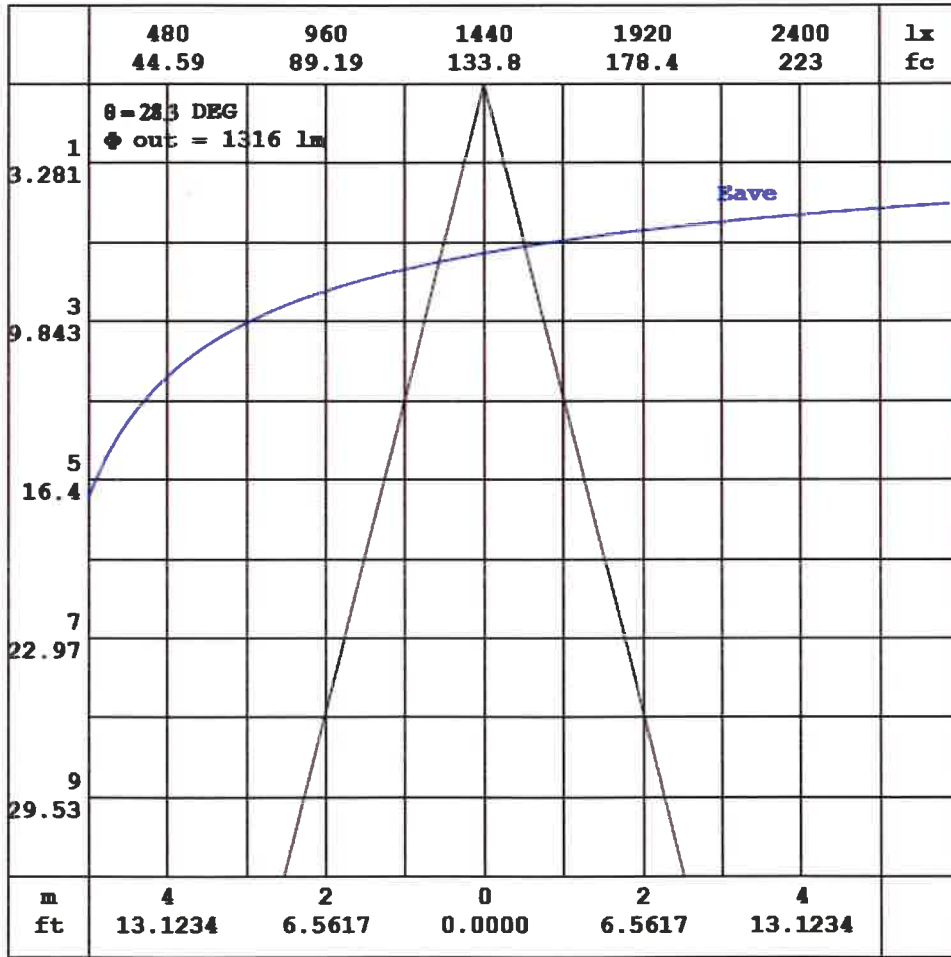
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

AAI CURVES



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



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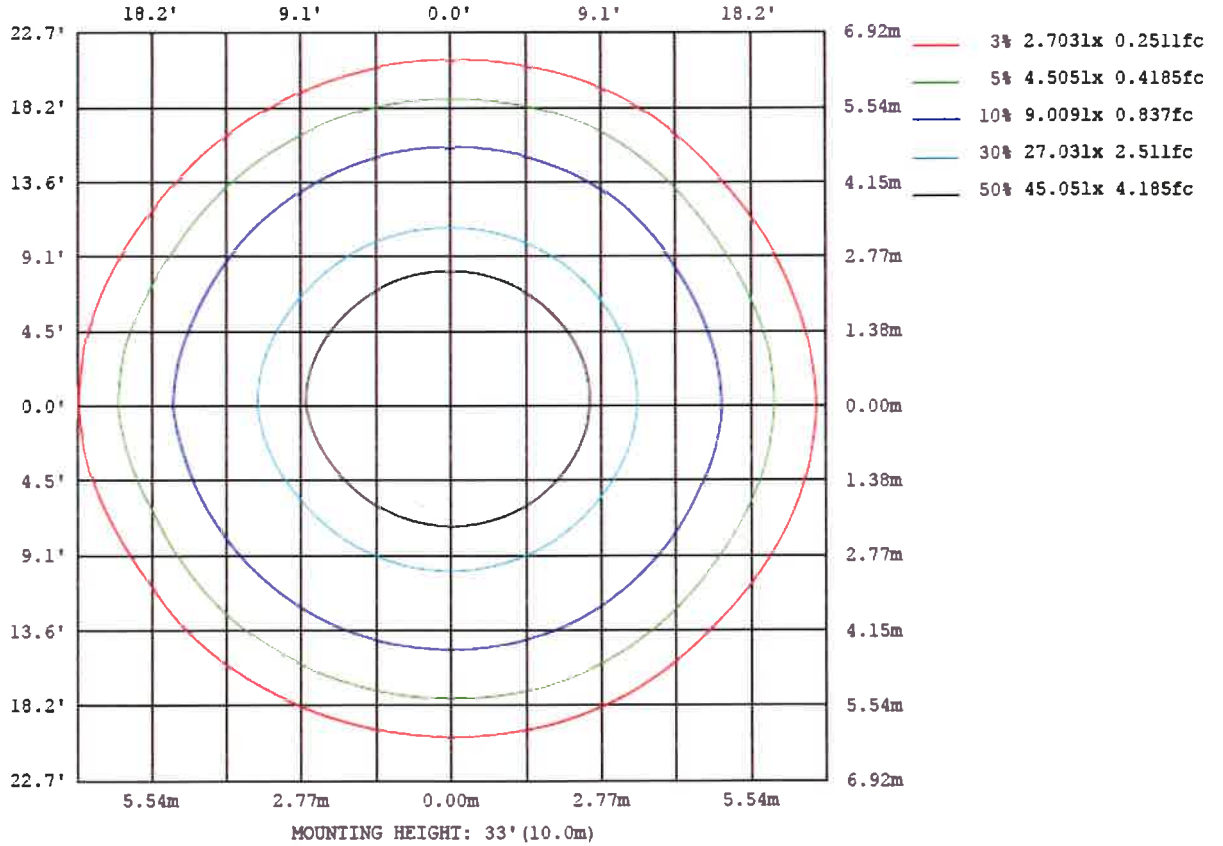
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOLUX DIAGRAM



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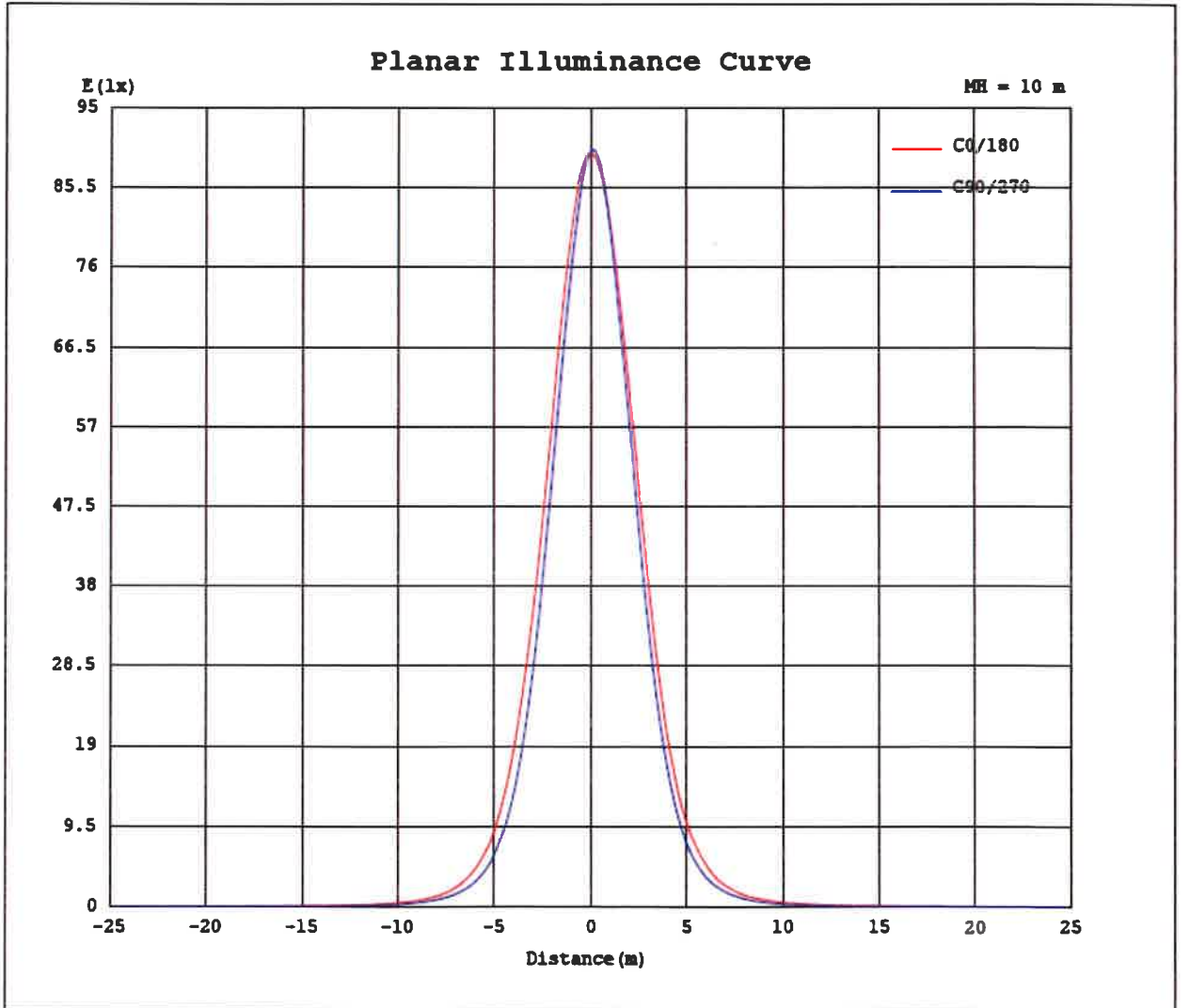
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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MEASUREMENT REPORT**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	0,3879
Chrom y	0,3920
Duv	0,0048
Chrom u'	0,2240
Chrom v'	0,5092
Peak	581 nm
Dominant	577 nm
CCT	3917 K
Nominal CCT	-
Ra(CRI)	70
R9	-32
S/P Ratio	1,4
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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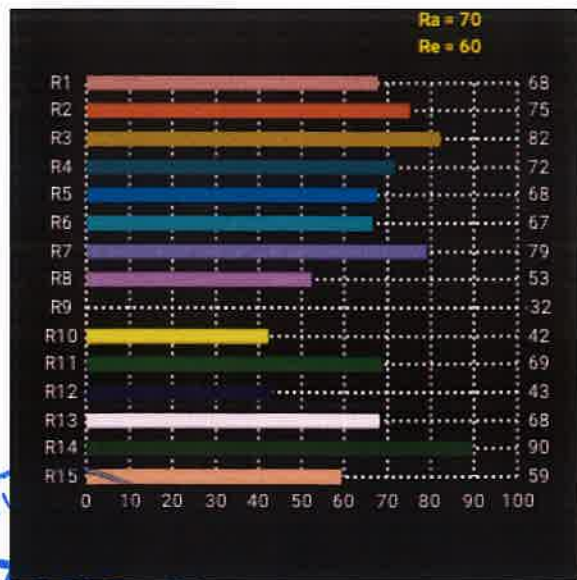
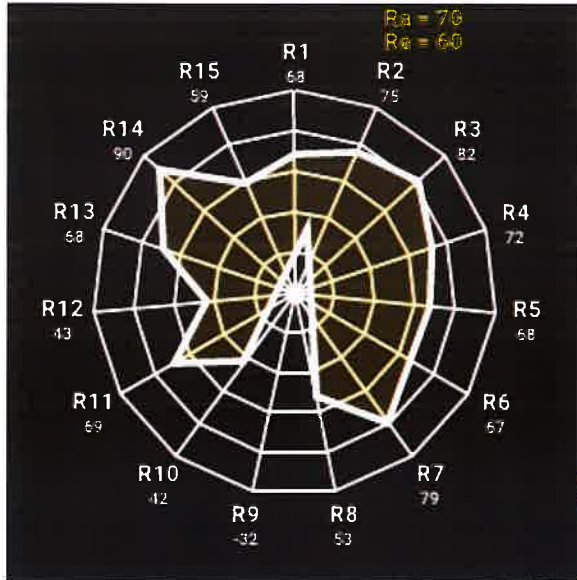
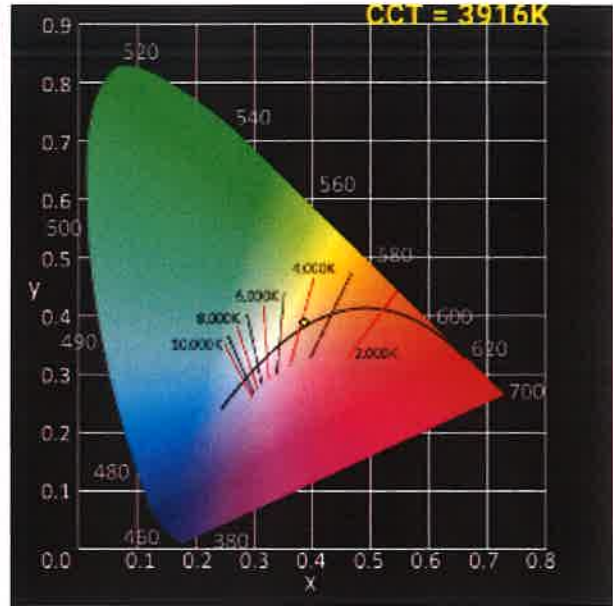
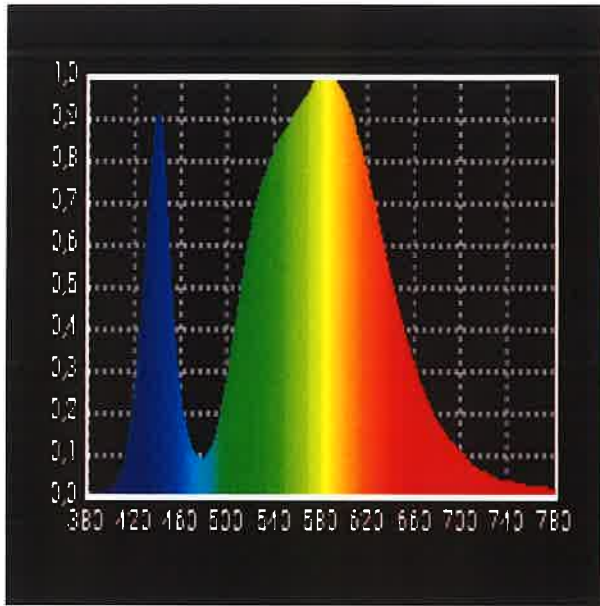
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2.2 NW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the NW)

Spectral Power Distribution



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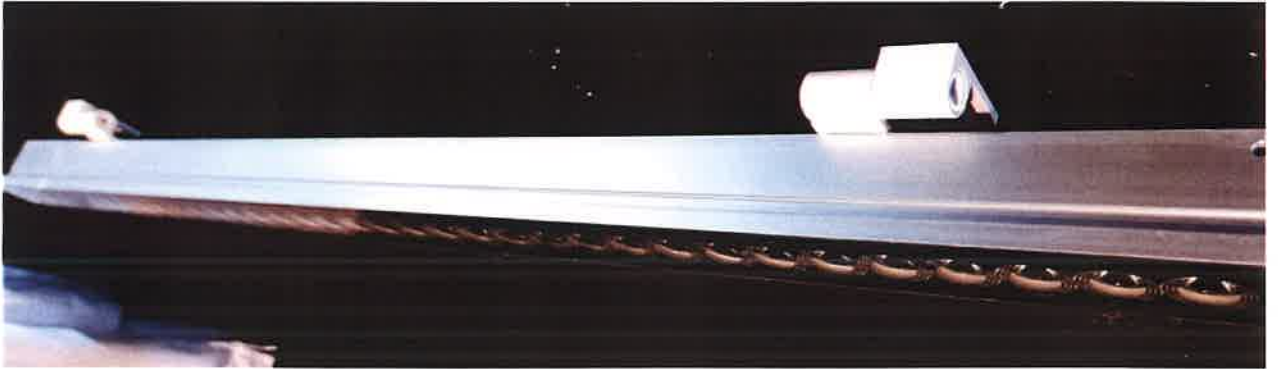
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



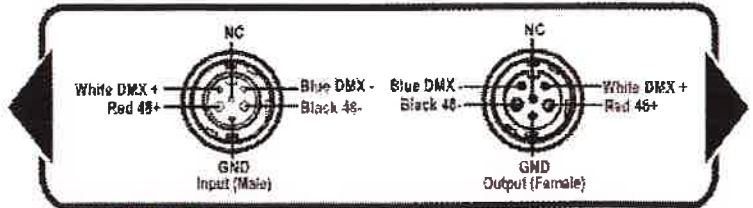
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P02022062 Leoline®S12 915mm DMX SC Linear Medium Beam 30°
48V DC / Max. 0.93A / Max. 44.6W
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