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ÖLÇÜM RAPORU
MEASUREMENT REPORT

TL-806

19-TST-0095-
190/R1

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 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

: 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.

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.

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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 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

Açıklama/Remarks

:Bu rapor 19-TST-0095-190 no'lu raporun yerini almıştır.
19-TST- 0095-190 no'lu rapor geçersizdir.
:This report was replaced to report no 19-TST-0095-190.
The report with no 19-TST-0095-190 is no more valid.



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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 (Component)	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° Maximum drive current: White 1.5 A, Royal Blue 1.5 A Maximum Vf for High Efficacy XT-E White: 2.85 V Available in 2200 K CCT	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 FCC
LENS	LEDIL	CA11052-11A2-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 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

Elektriksel Ölçümler

(Electrical Measurements)

Ölçülen Güç (W) (Input Power)	43,16 W
Ölçülen Gerilim (V) (Input Voltage)	46,92 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)	2863,7
Maksimum Işık Şiddeti (Max. Light Intensity) (cd)	9719
Armatür Etkinliği (Luminaire Efficacy) (lm/W)	66,35



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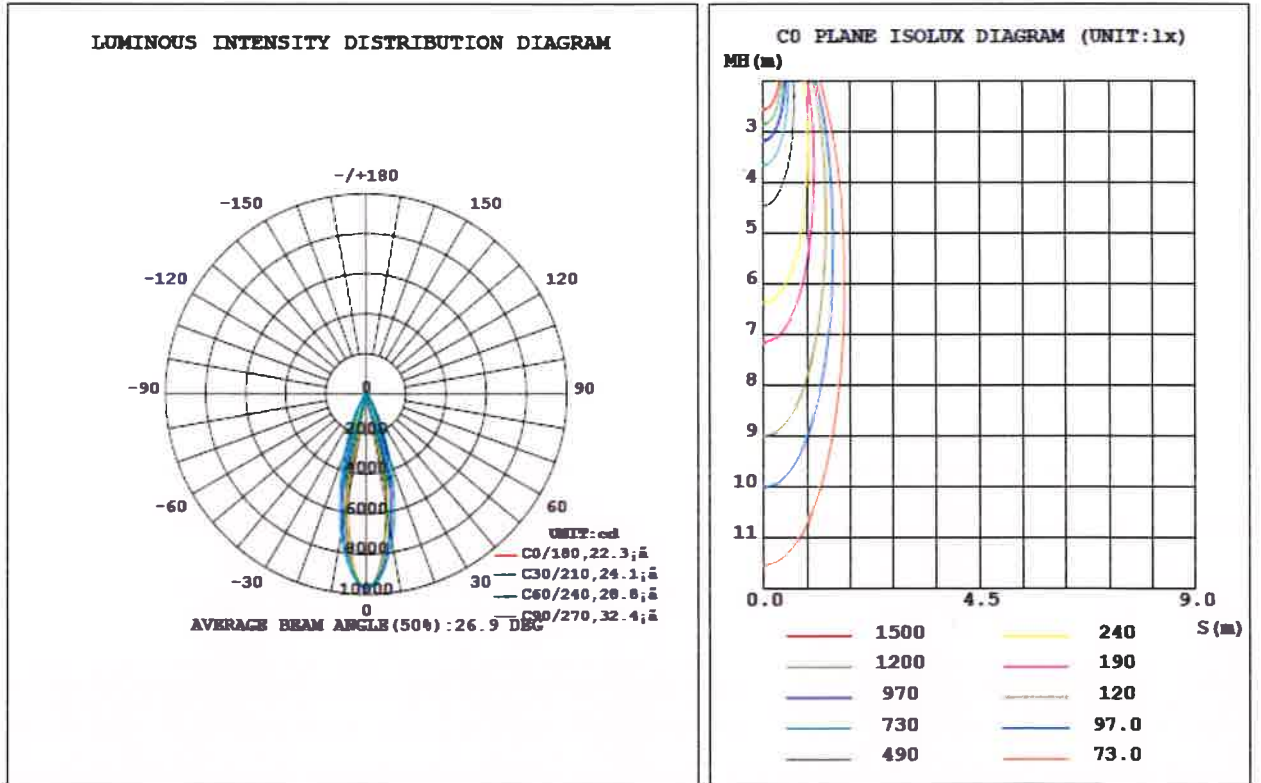
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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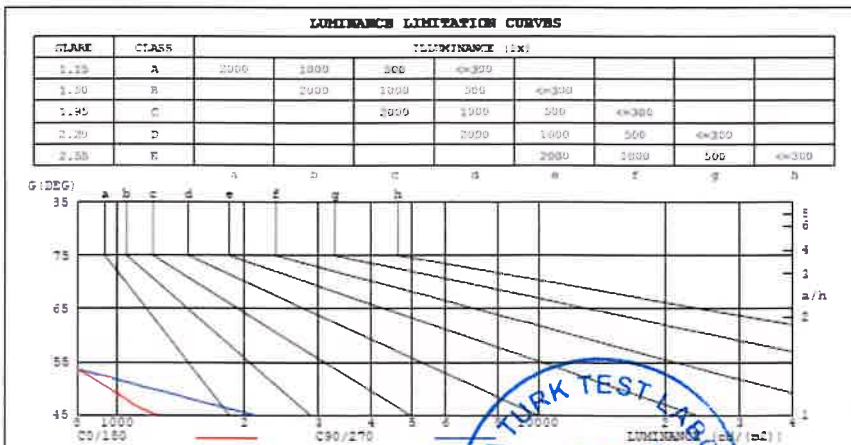
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	zone	total	lum.lamp
5	8343	9621	8896	8471	8268	8623	9051	8724	0- 5	219.2	219.2	7.42.7.62
10	5478	6222	7208	6001	5522	6216	7487	6449	5- 10	529.8	748.0	26.1.26.2
15	2086	3590	5142	3615	3100	3941	5488	4094	10- 15	602.7	1252	47.2.47.2
20	1694	2273	3223	1951	1627	2220	3528	2364	15- 20	912.8	1965	65.1.65.1
25	914.2	1245	1846	1026	845.8	1174	2048	1281	20- 25	268.9	2222	79.78
30	458.8	667.3	1000	528.3	448.0	611.7	1094	678.1	25- 30	238.6	2472	86.3.86.2
35	242.9	358.4	520.7	278.2	235.7	321.7	576.2	382.2	30- 35	146.9	2619	91.5.91.5
40	137.4	198.6	284.4	152.9	122.2	179.1	305.7	202.2	35- 40	39.61	2709	94.6.94.6
45	86.90	112.3	148.9	90.78	86.69	105.8	165.4	115.9	40- 45	55.64	2764	96.5.96.5
50	40.82	66.27	76.24	56.89	62.92	65.92	88.47	70.52	45- 50	25.57	2800	97.3.97.3
55	42.68	41.54	40.07	28.21	44.30	44.22	47.02	44.64	50- 55	22.42	2822	98.4.98.4
60	21.75	26.19	22.27	25.58	21.62	25.69	26.89	28.20	55- 60	16.07	2829	99.2.99.2
65	22.31	15.40	22.48	15.64	22.87	18.82	19.90	18.23	60- 65	10.92	2850	99.3.99.3
70	14.09	8.674	6.982	8.807	14.31	10.66	8.863	10.20	65- 70	6.914	2887	99.3.99.3
75	6.922	4.314	3.492	4.382	7.764	5.429	4.570	5.182	70- 75	2.921	2961	99.9.99.9
80	2.601	1.376	1.205	1.502	2.072	2.053	1.726	1.844	75- 80	1.801	2862	100.100
85	0.4078	0.1111	0.1081	0.1889	0.6222	0.3127	0.2226	0.2101	80- 85	0.5069	2864	100.100
90	0	0	0	0	0	0	0	0	85- 90	0.0241	2864	100.100
95	0	0	0	0	0	0	0	0	90- 95	0	2864	100.100
100	0	0	0	0	0	0	0	0	95-100	0	2864	100.100
105	0	0	0	0	0	0	0	0	100-105	0	2864	100.100
110	0	0	0	0	0	0	0	0	105-110	0	2864	100.100
115	0	0	0	0	0	0	0	0	110-115	0	2864	100.100
120	0	0	0	0	0	0	0	0	115-120	0	2864	100.100
125	0	0	0	0	0	0	0	0	120-125	0	2864	100.100
130	0	0	0	0	0	0	0	0	125-130	0	2864	100.100
135	0	0	0	0	0	0	0	0	130-135	0	2864	100.100
140	0	0	0	0	0	0	0	0	135-140	0	2864	100.100
145	0	0	0	0	0	0	0	0	140-145	0	2864	100.100
150	0	0.0015	0.0680	0	0	0	0	0	145-150	0.0005	2864	100.100
155	0	0.1224	0.2867	0.0982	0	0	0.0171	0	150-155	0.0084	2864	100.100
160	0.1778	0.3261	0.5214	0.2781	0.0222	0.0500	0.0876	0.0198	155-160	0.0248	2864	100.100
165	0.2856	0.5114	0.6487	0.4440	0.1394	0.1262	0.1513	0.0977	160-165	0.0405	2864	100.100
170	0.8481	0.6223	0.6873	0.5748	0.2328	0.2220	0.1819	0.1562	165-170	0.0424	2864	100.100
175	0.5789	0.6265	0.5942	0.5882	0.2007	0.2207	0.2346	0.2072	170-175	0.0295	2864	100.100
180	0.3226	0.5914	0.5345	0.4899	0.5444	0.5868	0.5176	0.4787	175-180	0.0112	2864	100.100
DEG	LUMINOUS INTENSITY:cd											UNIT:lm



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
35	47	12
50	150	69
75	267	125
70	412	204
65	529	295
60	625	445
55	762	659
50	946	1138
45	1229	2105



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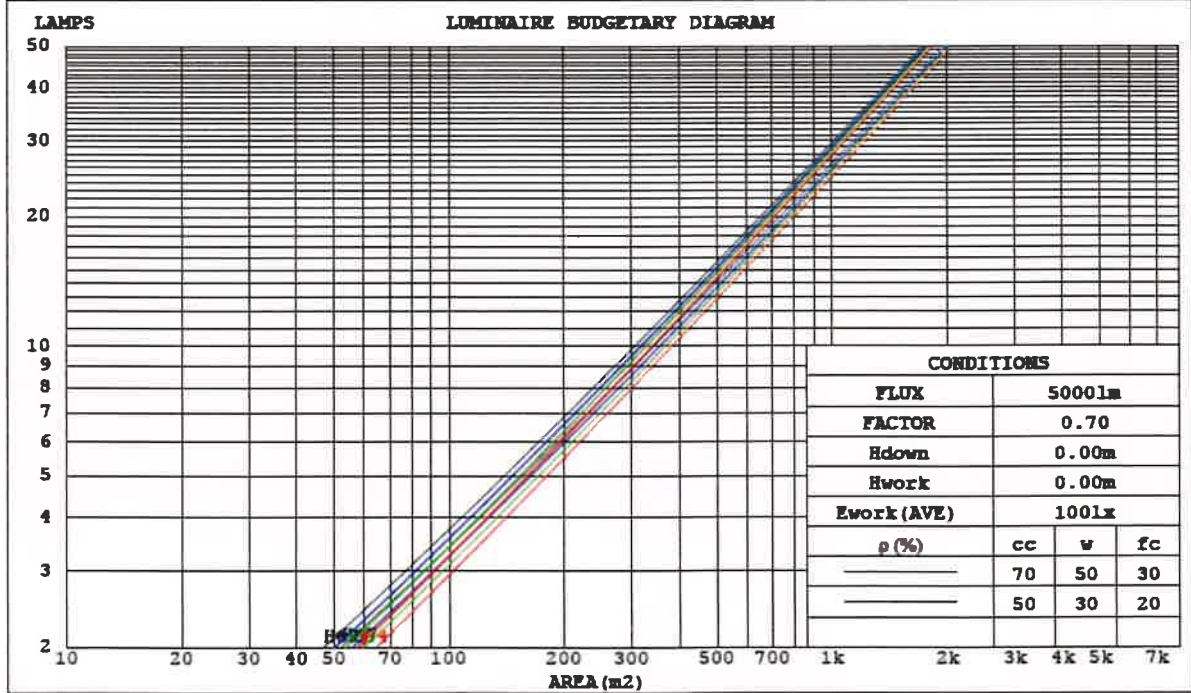
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_v	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
MCR	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	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.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	.85	.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	.73
8.0	.80	.75	.72	.79	.75	.72	.78	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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

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	.154	.088	.028	.148	.084	.027	.135	.078	.025	.124	.071	.023	.113	.066	.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	.118	.062	.019	.111	.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	.098	.049	.014	.094	.048	.014	.091	.047	.014	
9.0	.100	.049	.014	.098	.048	.013	.095	.047	.013	.091	.046	.013	.088	.044	.013	
10.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.012	.085	.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	.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	.085	.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	5.9	6.6	6.1	6.8	7.0	8.6	9.4	8.8	9.5	9.7
3H	6.1	6.8	6.4	7.0	7.2	8.5	9.2	8.8	9.4	9.6
4H	6.1	6.8	6.4	7.0	7.3	8.4	9.1	8.7	9.3	9.6
6H	6.1	6.7	6.4	7.0	7.2	8.4	9.0	8.7	9.2	9.5
8H	6.1	6.7	6.4	6.9	7.2	8.3	8.9	8.6	9.2	9.4
12H	6.0	6.6	6.3	6.9	7.2	8.3	8.9	8.6	9.1	9.4
4H 2H	5.8	6.5	6.1	6.7	6.9	8.5	9.1	8.7	9.4	9.6
3H	6.1	6.7	6.4	7.0	7.2	8.4	9.0	8.7	9.2	9.5
4H	6.2	6.7	6.5	7.0	7.3	8.3	8.8	8.6	9.1	9.4
6H	6.1	6.6	6.5	6.9	7.3	8.2	8.7	8.6	9.0	9.4
8H	6.1	6.5	6.5	6.9	7.3	8.2	8.6	8.5	8.9	9.3
12H	6.0	6.5	6.5	6.8	7.2	8.1	8.5	8.5	8.9	9.3
8H 4H	6.1	6.5	6.4	6.8	7.2	8.2	8.6	8.6	9.0	9.3
6H	6.0	6.4	6.4	6.8	7.2	8.1	8.4	8.5	8.8	9.2
8H	6.0	6.3	6.4	6.7	7.2	8.0	8.3	8.5	8.8	9.2
12H	5.9	6.2	6.4	6.6	7.1	8.0	8.2	8.4	8.7	9.1
12H 4H	6.0	6.4	6.4	6.8	7.2	8.1	8.5	8.5	8.9	9.3
6H	6.0	6.3	6.4	6.7	7.1	8.0	8.3	8.5	8.8	9.2
8H	5.9	6.2	6.4	6.6	7.1	8.0	8.2	8.4	8.7	9.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.2					+ 3.1 / - 6.1				
1.5H	+ 2.0 / - 1.6					+ 4.6 / - 4.7				
2.0H	+ 2.1 / - 2.0					+ 4.9 / - 4.6				

CIE Pub.117 Corrected 2864 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.7)



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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) $k(RI) \times MCR = S$									
$k = 0.60$	88	82	78	88	82	78	87	81	78	75
0.80	95	90	86	95	89	86	94	89	86	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	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	106	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	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				SERIEN = 1.25			



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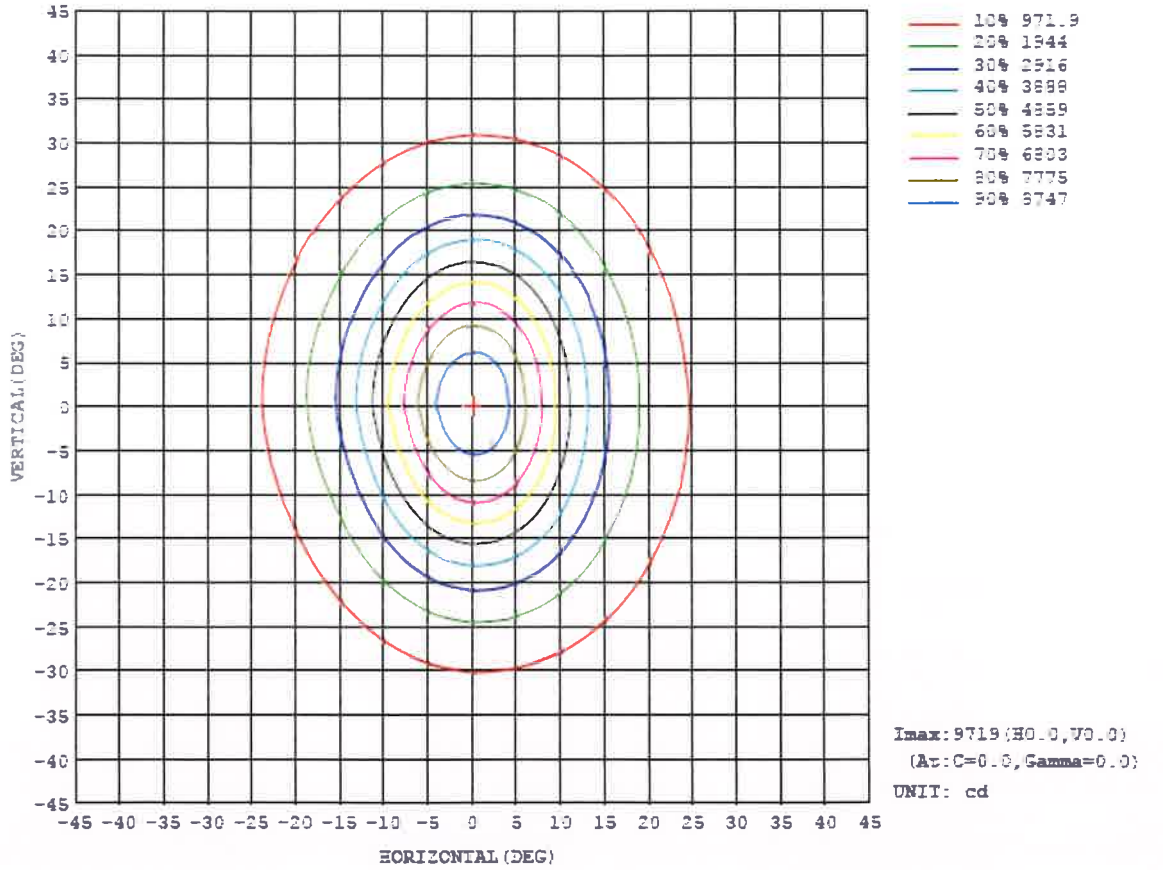
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOCANDELA DIAGRAM



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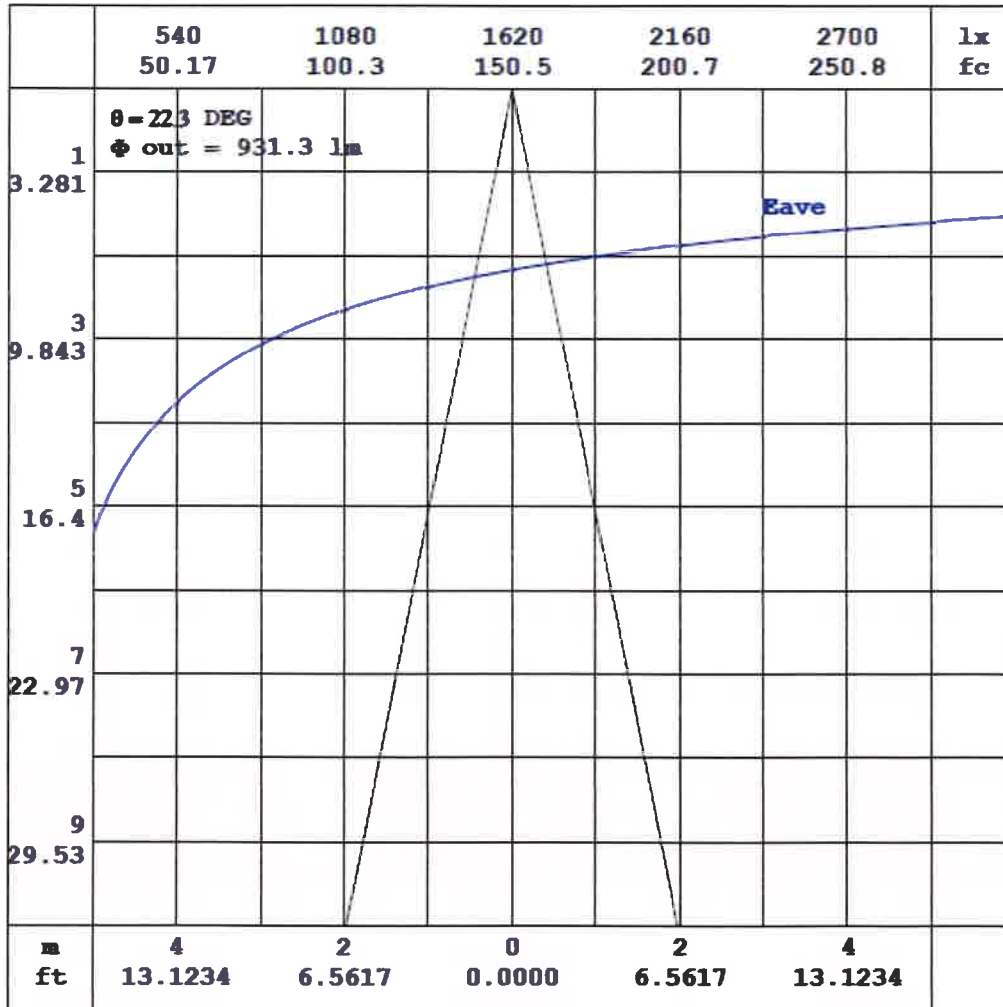
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)**AAI CURVES**

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



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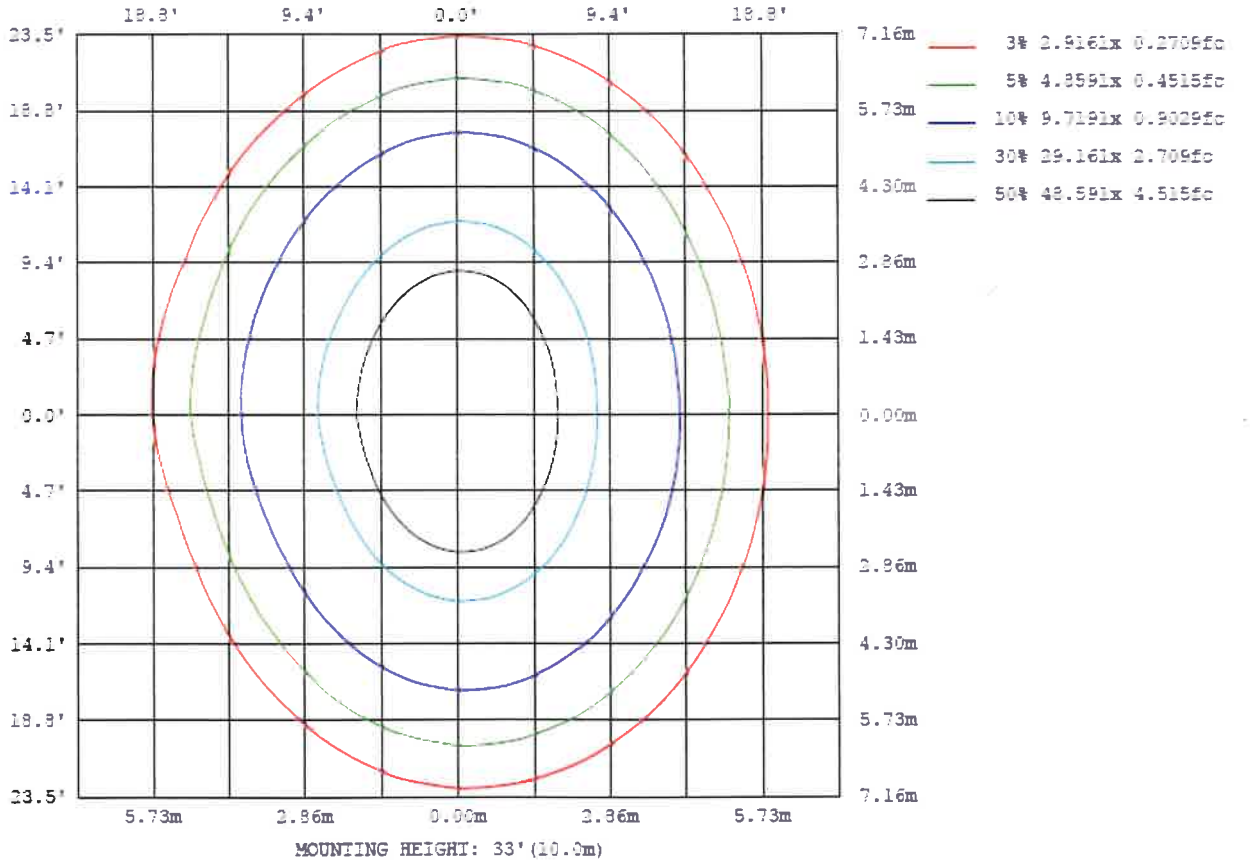
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)

ISOLUX DIAGRAM



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

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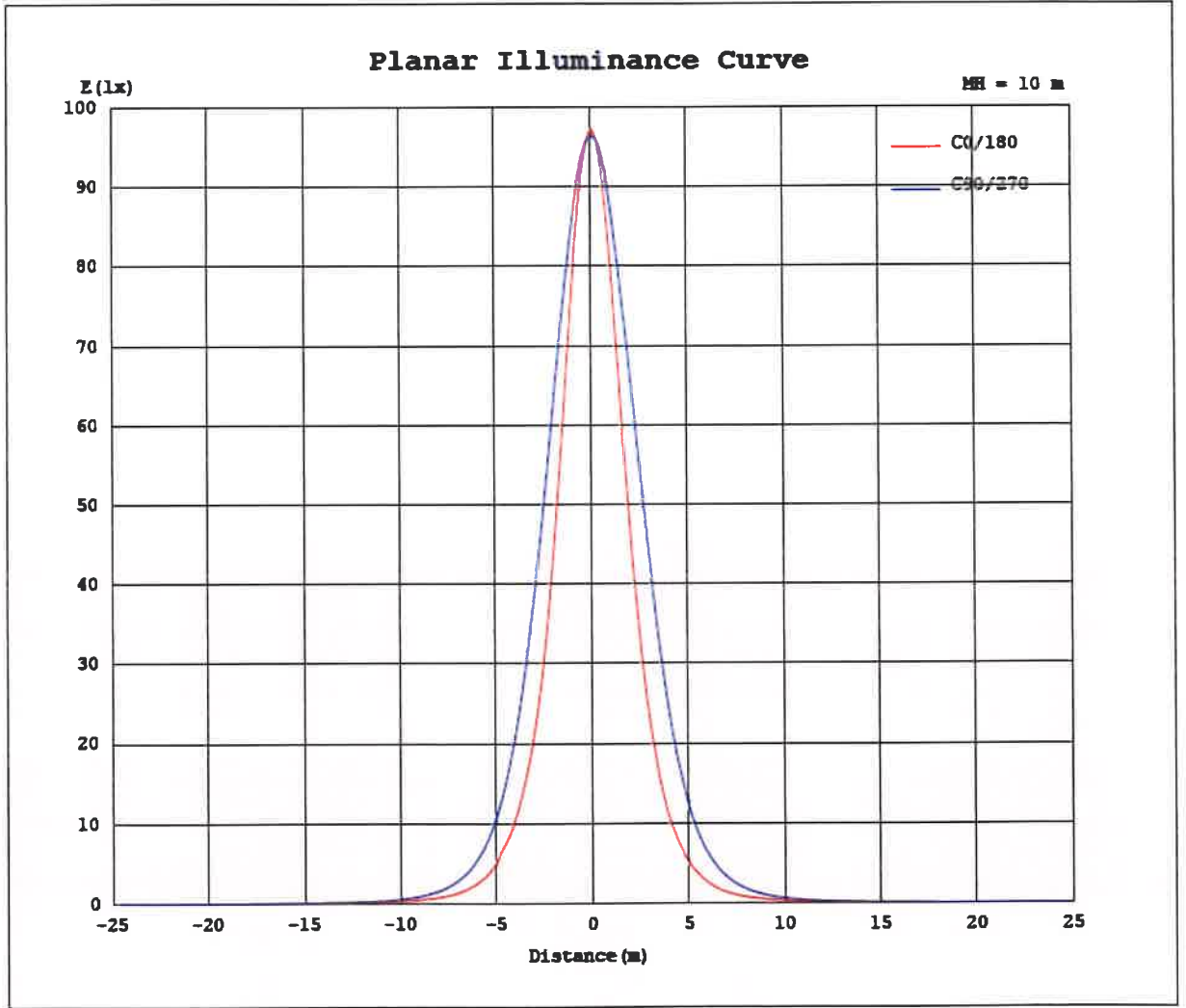
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2.1 NW Fotometrik Deney Sonuçları (Photometric Test Results of the NW)



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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)	43,16 W
Ölçülen Gerilim (V) (Input Voltage)	46,92 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	0,3876
Chrom y	0,3912
Duv	0,0046
Chrom u'	0,2241
Chrom v'	0,5088
Peak	588 nm
Dominant	577 nm
CCT	3920 K
Nominal CCT	-
Ra(CRI)	71
R9	-31
S/P Ratio	1,4
Preburning time	1 hr
Test Configuration	4π



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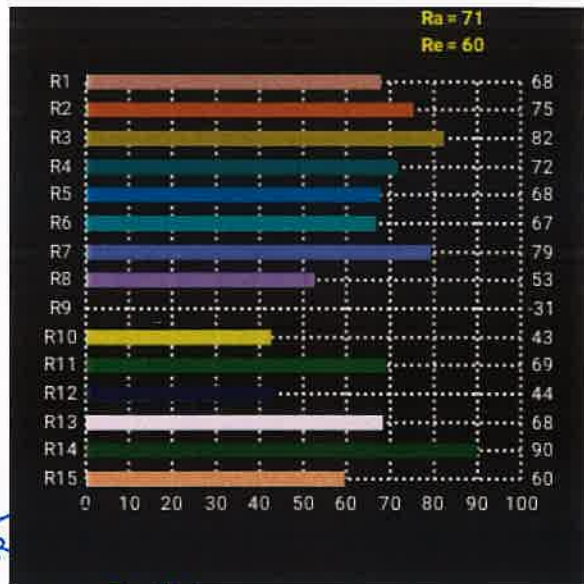
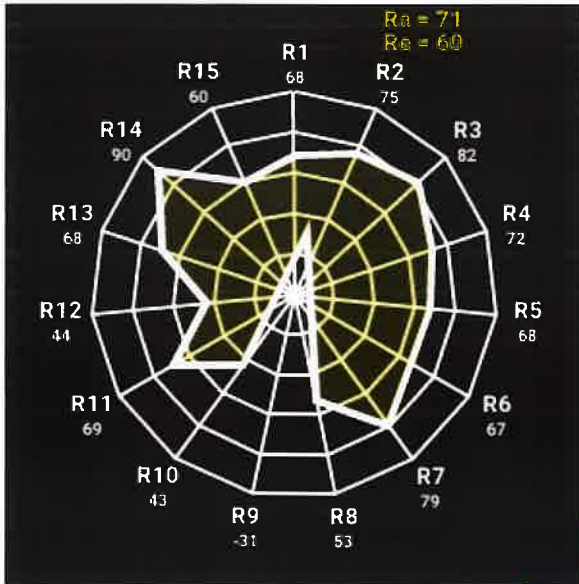
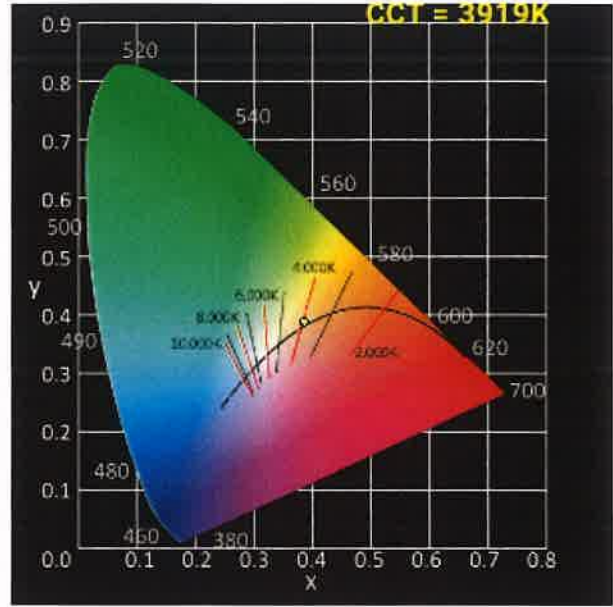
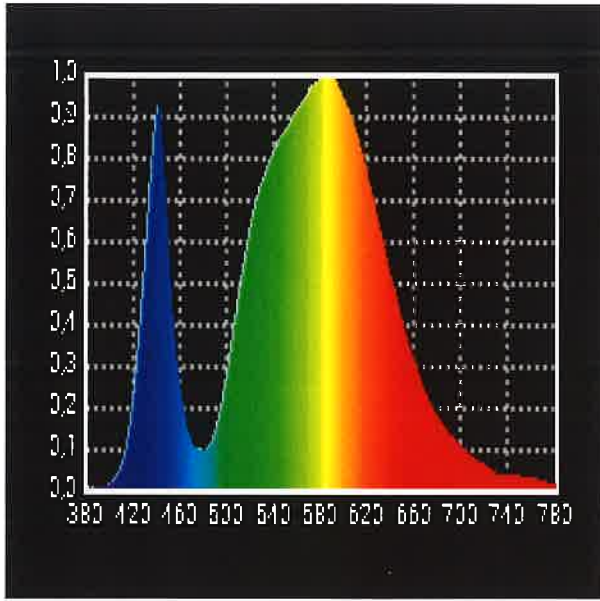
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2.2 NW Spektrokolorimetrik Deney Sonuçları (spectrocolorimetric Test Results of the NW)

Spectral Power Distribution



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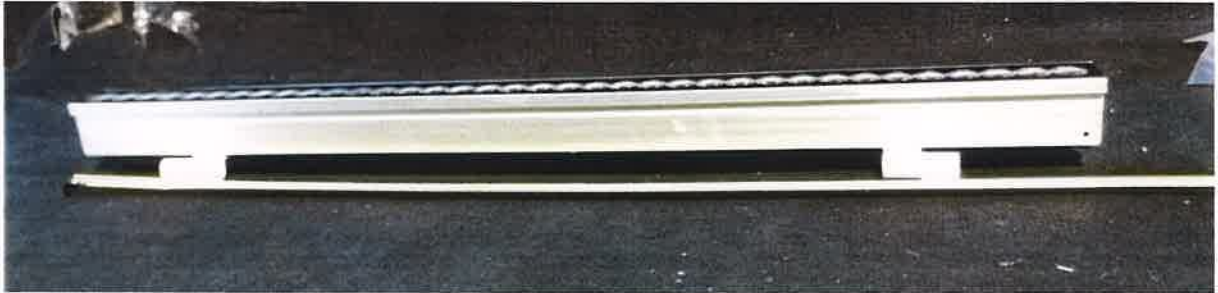
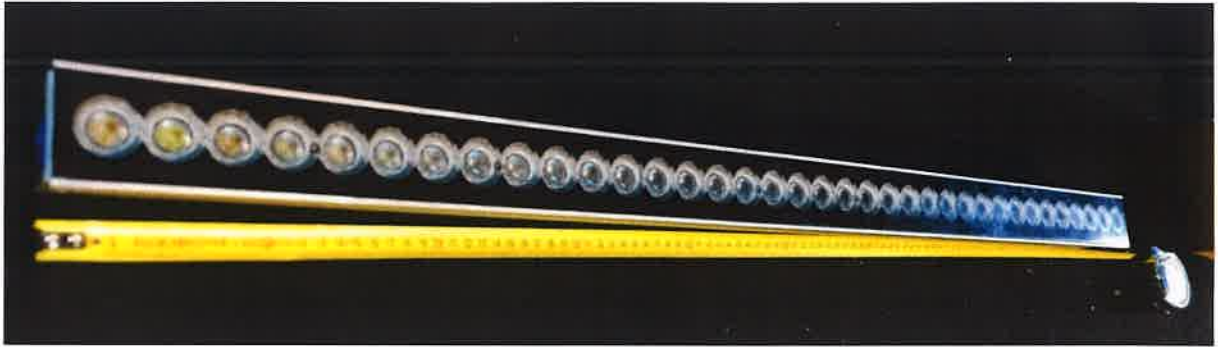
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3.1 DGC'nin Fotoğrafları (Photos of EUT)



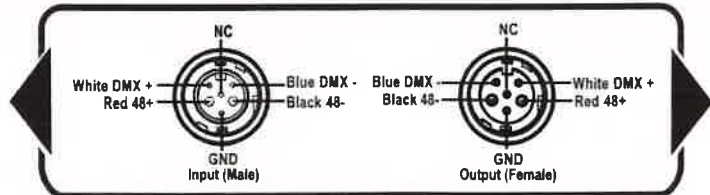
hera
entertainment & architecture lighting

CE FC III

RoHS compliant IP67



P02022066 Leoline@S12 915mm DMX SC Linear Asymmetric Beam 35+15°
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