



DENEY RAPORU TEST REPORT

AB-1333-T

170321UT04

17032021

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Susuz Mah. İstanbul Yolu 26. Km Rampa Gıda Blokları C Blok No:1 Kat:2 Yenimahalle /

ANKARA

Tel. 0312 351 76 86

Müşterinin Adı / Adresi:

(Customer Name / Address)

BSİ Aydınlatma Elek. Elekt. San. Tic. A.Ş.

Konutkent Mahallesi 3029 Cadde No:3/91 Çankaya / ANKARA

Talep Numarası:

(Order No)

210310-02

Ürünün Adı ve tanımı:

(Name and Identity of Test Item)

Zemine Gömme Cephe Boyama Arm. (İzettel-iAxis Mono Recessed 27W 18 Led)
Surface Recessed Facade Painting Lum. (İzettel-iAxis Mono Recessed 27W 18 Led)

Ürünün Kabul Tarihi:

(The Date of Receipt of Test Item)

10.03.2021

Deney Tarihi:

(Date of Test)

17.03.2021

Açıklamalar:

(Comments)

Numuneye IESNA LM 79-19 standardı uyarınca testler uygulanmıştır.

Test were applied to sample according to IESNA LM 79-19 standards.

Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınırılığı konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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; firmamıza ulaşan numunelere deney ve/veya deneyler uygulanarak elde edilmiştir.

This report was prepared after applying test/tests to the samples that are sent to our company.

Müşteriye ait diğer numuneleri kapsamaz.

Note that this report does not involve other samples of the customer.

* İşaretili deneyler veya akreditasyon numarasının yer almadığı sayfalar, akreditasyon kapsamı dahilinde değildir.

*signed tests or the papers which have not the accreditation number are not in the scope of accreditation.

Onay Tarihi

Date of Approval

30.03.2021



Mühür / Seal

Deney Sorumlusu

Person in Charge of Test

Uğur TEMİZYÜREK

Laboratuvar Müdürü

Head of Testing Laboratory

Ayhan İNALTUN

Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.

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İÇİNDEKİLER (CONTEST)

1. DÖKÜMANTASYON (DOCUMENTATION)

1.1 Rapor Kapağı (Report Cover)	1
1.2 İçindekiler (Contents)	2
1.3 Ürün Bilgileri (Information of Test Item)	3
1.4 Çevre Şartları (Environmental Conditions)	3
1.5 Deney Standartları (Test Standard)	4
1.6 Belirsizlik Açıklamaları (Uncertainty Explanations)	4
1.7 Elektriksel Ölçüm Sonuçları (Electrical Measurement Results)	5
1.8 Ölçüm Sonuçları Özeti (Measurement Results Summary)	5

2. DENEY SONUÇLARI (TEST RESULTS)

2.1 Entegre Küre Sonuçları (Integrating Sphere Measurement Results)	6-7
2.2 Gonyofotometre Sonuçları (Goniophotometer Measurement Results)	8-17

3. EKLER (ATTACHMENTS)

3.1 Deney Bileşenleri (Test Components)	18
3.2 Kritik Komponent Listesi (Critical Component List)	19
3.3 Ürün Fotoğrafları (Photos of Test Items)	20-22





1.3 Ürün Bilgileri (Information of Test Item)

Ürünün Adı: (Name of Test Item)	Gömme Led Aydınlatma Armatürü Inground Led Lighting Luminaire.
Marka / Model: (Mark / Model)	BSI / Izettel-iAxis Mono Recessed
Ürünün Tanımı / Tipi: (Product description / Type)	Zemine Gömme Cephe Boyama Armatürü. Surface Recessed Facade Painting Luminaire.
Sürücü Tipi / Modeli: (Model of Driver)	Vossloh Schwabe / Type ECXe 800.226
Seri No: (Serial Number)	-
Ürünün Boyutları / cm: (Product dimensions / cm)	Uzunluk / Çap: 52 (length / diameter) Genişlik: 9.3 (Width) Yükseklik: 9 (height)
Ürünün Ağırlığı / kg: (Product weight / kg)	2.5
IP Sınıfı: (IP Class)	-

1.4 Çevre Şartları (Environmental Conditions)

Sıcaklık - °C: (Temperature - °C)	25.7
Nem: (Humidity)	%29
Hava Akımı - m/s: (Air flow - m/s)	0





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170321UT04
17032021

1.5 Deney Standartları (Test Standard)

Deneyler aşağıdaki standartlara göre yapılmıştır.

(The tests were performed according to following standards)

IESNA LM 79-19	Katı Hal Aydınlatma Ürünlerinin Elektriksel ve Fotometrik Ölçümleri. Electrical and Photometric Measurements of Solid-State Lighting Products.
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1.6 Belirsizlik Açıklamaları (Uncertainty Explanations)

Ölçüm belirsizliği genişletilmiş belirsizlik olup bileşik belirsizlik kapsam faktörü $k = 2.0$ çarpılarak elde edildi. Güvenirlik düzeyi %95'tir.

The measurement is sum uncertainty and extended uncertainty, and the composite uncertainty coverage factor $k = 2.0$ is derived. Reliability level is 95%.)



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1.7 Elektriksel Ölçüm Sonuçları (Electrical Measurement Results)

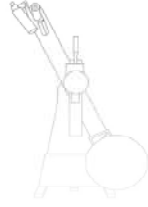
Gerilim -Volt (Voltage - Volt)	Akım - Amper (Current - Amper)	Güç - Watt (Power - Watt)	Güç Faktör (Power Factor)
230.1	0.1277	27.11	0.9225

1.8 Ölçüm Sonuçları Özeti (Measurement Results Summary)

Işık Akısı - Lümen: (Luminous Flux - Lumen)	2699.56
Işık Şiddeti - Kandela: (Luminous Intensity - Candela)	5333
Ortalama Işıma Açısı: (Average Beam Angle)	29.7
Verimlilik - lm/w: (Efficiency - lm/w)	99.59
Renksel Geri Verim / CRI: (CRI: Color Render Index)	86.7
Renk Sıcaklığı / Kelvin: (CCT: Colarated Color temprature / Kelvin)	3043
Test sırasında SSL ürünün yanma pozisyonu: (Burn position of SSL during testing)	Görsellere Bakınız.
Stabilizasyon süresi /dakika: (Stabilization time / Minute)	45
Stabilizasyon dahil olmak üzere ürünün toplam çalışma süresi / dakika (Total operating time of the product including stabilization / Minute)	60
Uygulanan düzeltme faktörleri: (Applied correction factors)	-



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2. Deney Sonuçları (Test Results)

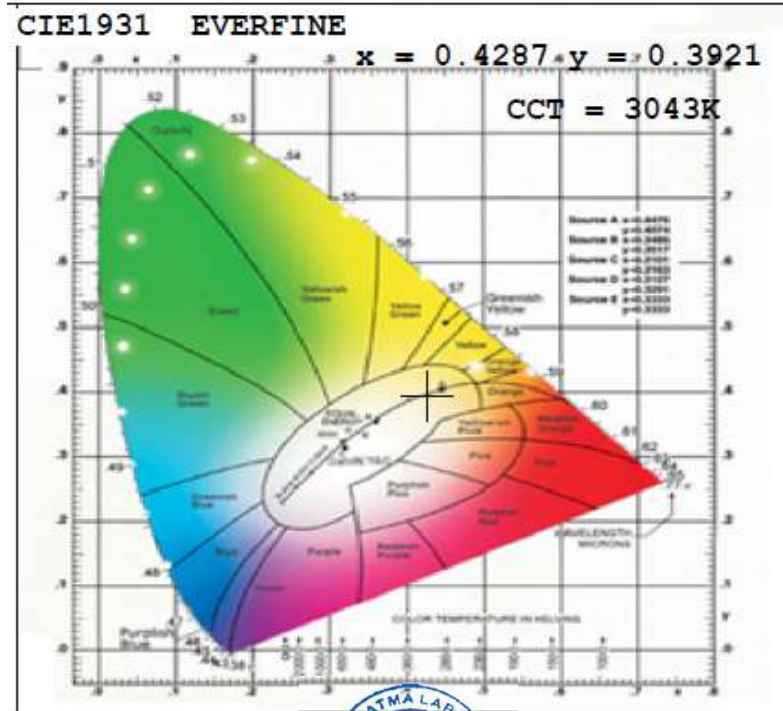
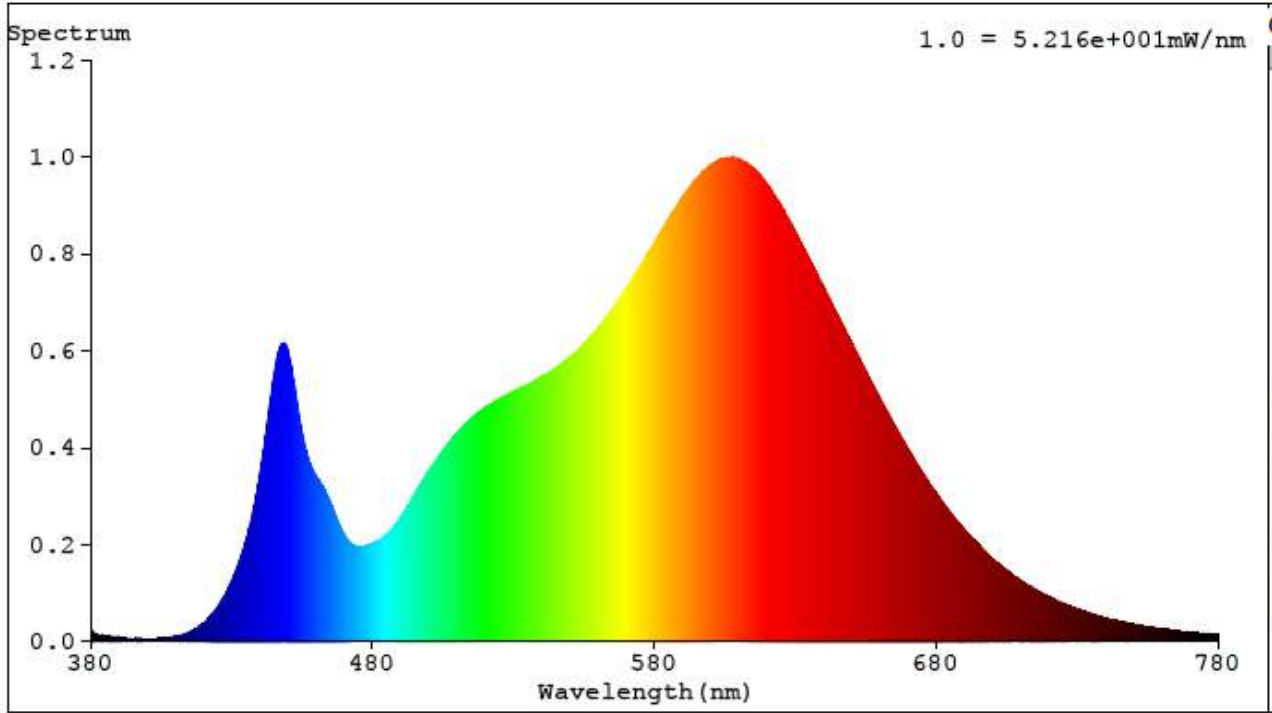
2.1 Entegre Küre Sonuçları (Integrating Sphere Measurement Results)

Renklilik Koordinatı: (Chromaticity Coordinate)		x: 0.4287		y: 0.3921	
		u': 0.2504		v': 0.5154	
		duv: -0.00369			
Renk Sıcaklığı - Kelvin: (CCT: Colarated Color temprature - Kelvin)		Renksel Geri Verim: (CRI: Color Render Index)			
3043		86.7			
Ld:Baskın Dalga boyu -nm: (Ld:dominant wavelength - nm)	584.1	R1	R2	R3	R4
		87	94	96	86
Spektral Bant Genişliği -nm: (Spectral Bandwidth -nm)	135.4	R5	R6	R7	R8
		87	93	84	66
Lp:Tepe Dalga boyu -nm: (Lp:Peak wavelength - nm)	608	R9	R10	R11	R12
		23	87	88	82
Safılık - % (Purity -%)	46.4	R13	R14	R15	
		89	99	80	
% RGB oranları (% RGB Ratio)		%R: 23.5		%G: 73.7	%B: 2.8





2.1.1 Entegre Küre Renkserlik Grafiği ve Spektrum (Integrating Sphere Chromaticity Diagram and Spectrum)



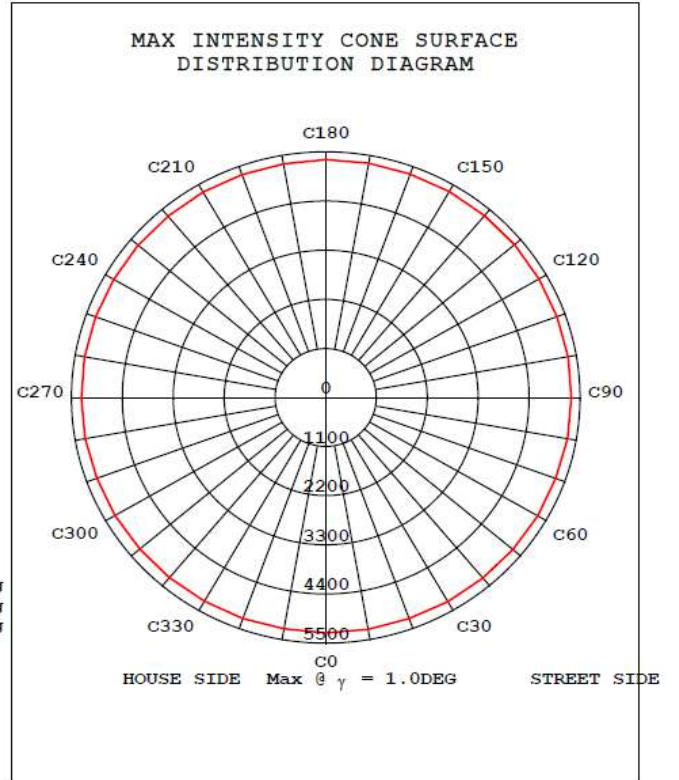
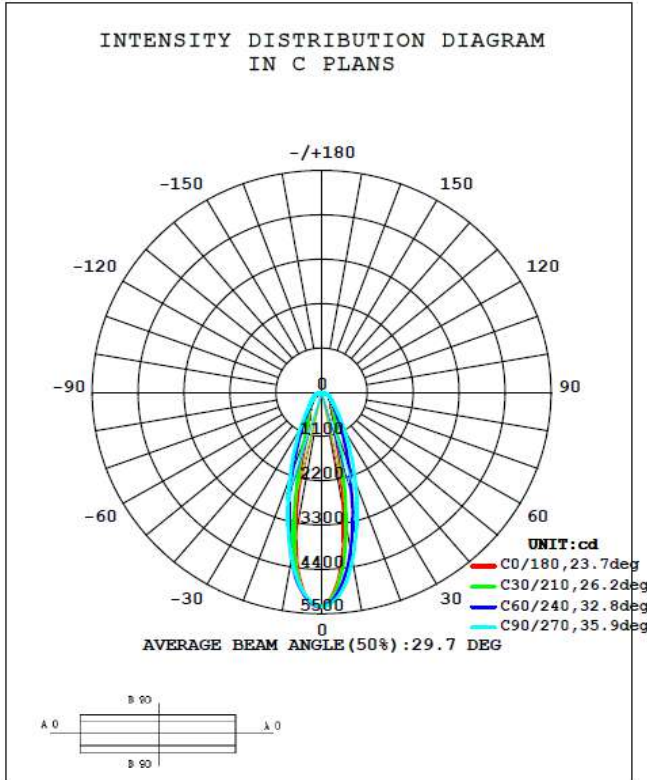


2.2 Gonyofotometre Sonuçları (Goniophotometer Measurement Results)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.59 lm/W
MODEL		I _{max} (cd)	5333	η _{street_up} (%)	0.0	
NOMINAL POWER(W)	27	LOR(%)	100.0	η _{street_down} (%)	50.3	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2700	η _{house_up} (%)	0.0	
NOMINAL FLUX(lm)	2699.56	MAXIMUM @ (C,γ)	170,1.0	η _{house_down} (%)	49.7	
LAMPS INSIDE	1	η _{up} (%)	0.0	76 FLASHAREA(m2)	0.00100	
TEST VOLTAGE(V)	230	η _{down} (%)	100.0	SLI	16.125	

2.2.1 Işık Yeğirliği Polar Eğrisi

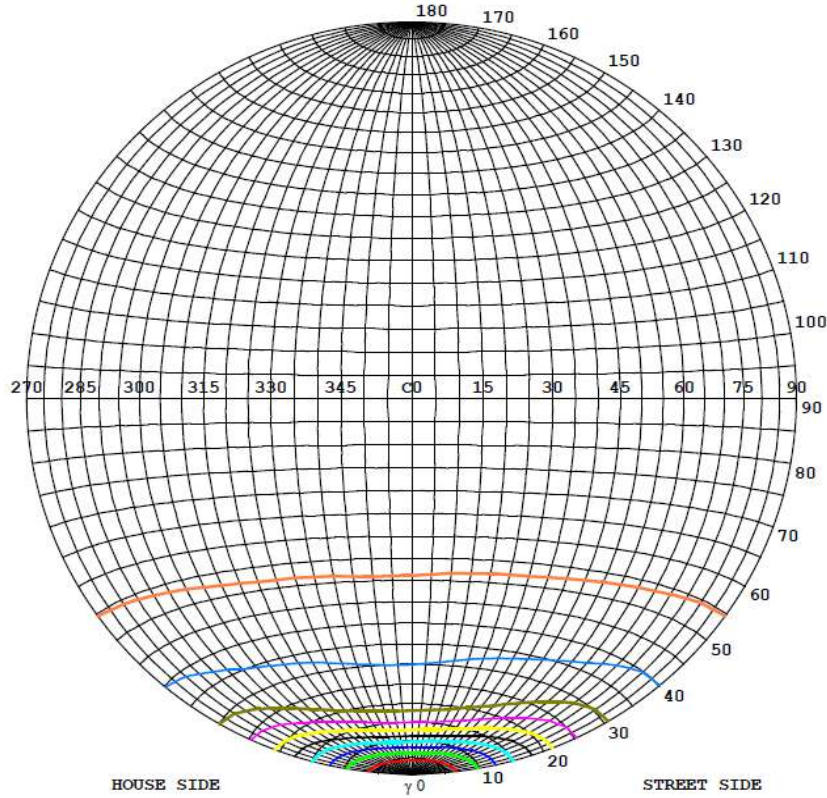
(Luminous Intensity Distribution Diagram)



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2.2.2 Isocandela Diagramı (Street Light Isocandela Diagram)



Classification:

IES:Type I - Very Short

CIE:Narrow - Short

IES:Cut-off

CIE:Full cut-off

Max.At80:12.13cd/klm

Max.At90:0.0388cd/klm

Max.80-90:12.13cd/klm

NRB 5101:Limited[2.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5333
90%	4800
80%	4266
70%	3733
60%	3200
50%	2666
40%	2133
30%	1600
20%	1067
10%	533
5%	267

Açıklamalar (Descriptions)

Luminous Intensity: Işık Şiddeti.

Unit: Birim.

γ: Gama.

Zone: Bölge.

Total: Toplam.

Lamp: Lamba.

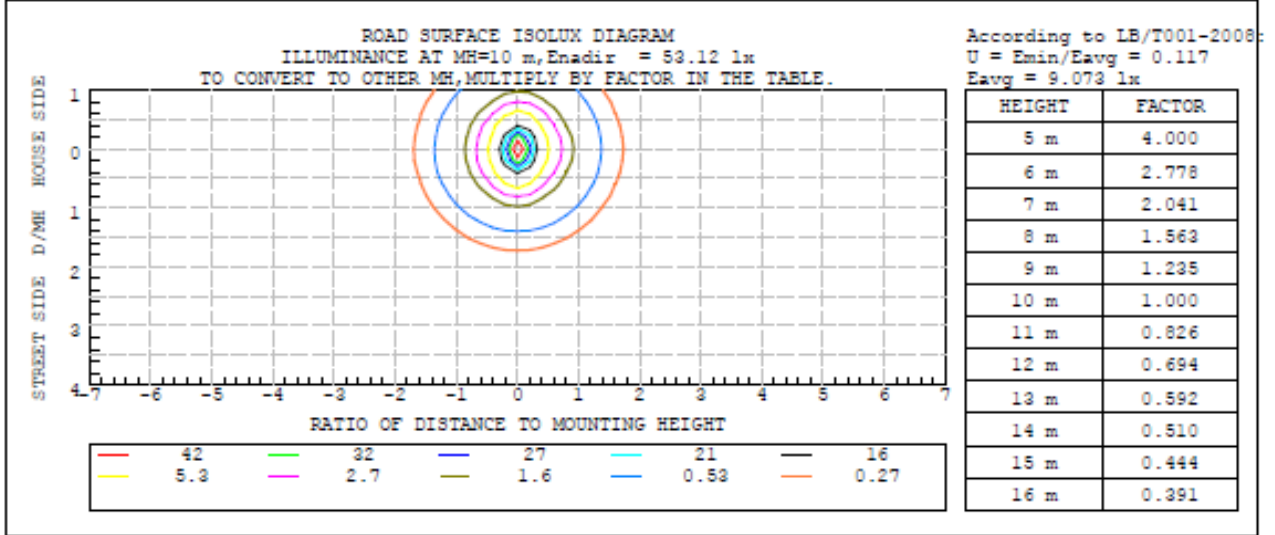
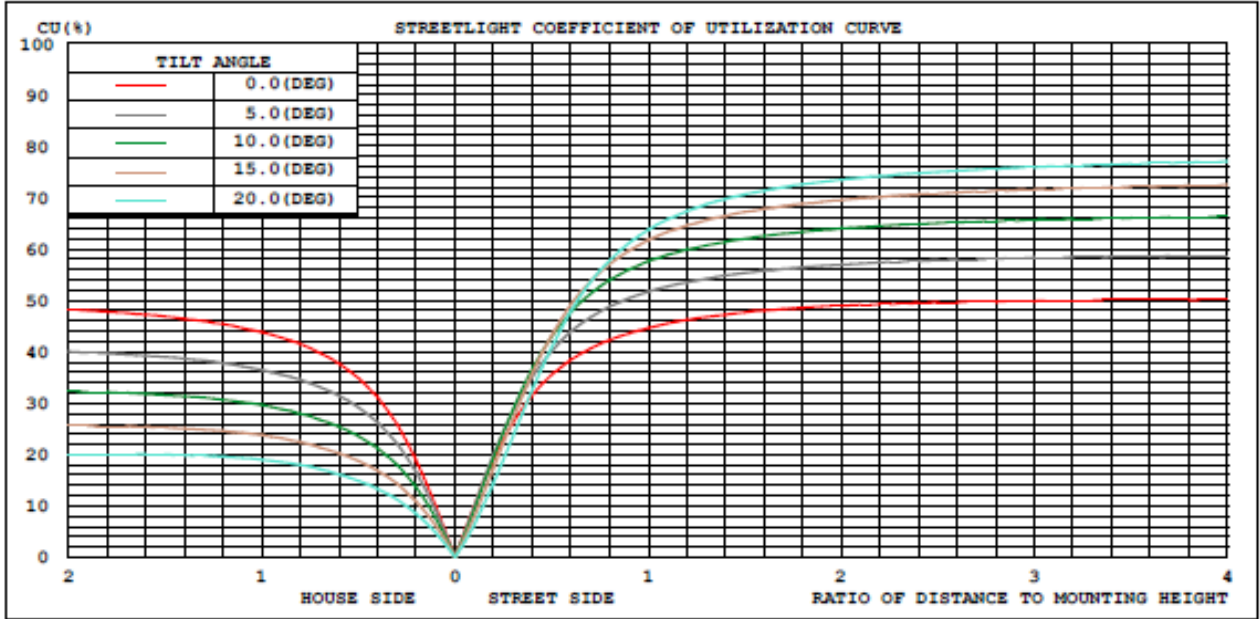
Degree: Derece.



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2.2.3 Kullanım katsayı eğrisi ve isolux diagramı (Coefficient of utilization curve and isolux diagram)



Açıklamalar (Descriptions)

Conical surface Flux: **Konik yüzey Akısı.**

Vertical: **Dikey.**

Horizontal: **Yatay.**



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2.2.4 Alan Akı Diagramı (Area Flux Diagram)

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	İlun, lamp
10	3052	3695	4243	4021	3599	4080	4196	3579	0- 10	433.5	433.5	16.1, 16.1
20	936.6	1439	2359	1560	1015	1653	2254	1266	10- 20	691.6	1125	41.7, 41.7
30	529.3	676.6	1129	694.0	620.5	710.7	1063	627.8	20- 30	494.7	1620	60, 60
40	365.9	410.8	538.4	426.1	423.7	430.8	524.9	397.9	30- 40	357.8	1978	73.3, 73.3
50	273.6	287.7	317.9	291.2	287.7	297.2	315.7	282.1	40- 50	273.4	2251	83.4, 83.4
60	195.1	200.4	209.2	204.5	212.4	213.2	208.7	195.5	50- 60	224.3	2475	91.7, 91.7
70	91.22	97.93	105.1	102.9	102.4	107.4	107.1	96.46	60- 70	149.1	2624	97.2, 97.2
80	22.37	26.42	30.74	31.10	29.05	29.74	29.22	24.81	70- 80	64.93	2689	99.6, 99.6
90	0.0312	0.0426	0.0729	0.0537	0.0311	0.0313	0.0309	0.0337	80- 90	9.823	2699	100, 100
100	0.0319	0.0358	0.0330	0.0345	0.0335	0.0334	0.0319	0.0357	90-100	0.0372	2699	100, 100
110	0.0362	0.0436	0.0367	0.0370	0.0362	0.0367	0.0352	0.0398	100-110	0.0373	2699	100, 100
120	0.0423	0.0475	0.0442	0.0438	0.0396	0.0400	0.0386	0.0439	110-120	0.0399	2699	100, 100
130	0.0492	0.0515	0.0490	0.0491	0.0458	0.0462	0.0482	0.0509	120-130	0.0406	2699	100, 100
140	0.0551	0.0605	0.0583	0.0567	0.0535	0.0603	0.0693	0.0625	130-140	0.0413	2699	100, 100
150	0.0726	0.0933	0.0904	0.0780	0.0775	0.1051	0.1133	0.0964	140-150	0.0448	2699	100, 100
160	0.1437	0.1533	0.1487	0.1288	0.2232	0.2348	0.2082	0.2170	150-160	0.0574	2699	100, 100
170	0.1934	0.1892	0.2057	0.1801	0.3355	0.3331	0.2892	0.2690	160-170	0.0607	2700	100, 100
180	0.2887	0.2812	0.2912	0.2425	0.2778	0.2742	0.2741	0.2368	170-180	0.0253	2700	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Açıklamalar (Descriptions)

Mounting Height: Montaj Yüksekliği.



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2.2.5 Isocandela Diagramı (Isocandela Diagram)

Conical surface Flux(90deg):

2121.8 lm

%lum = 78.6%

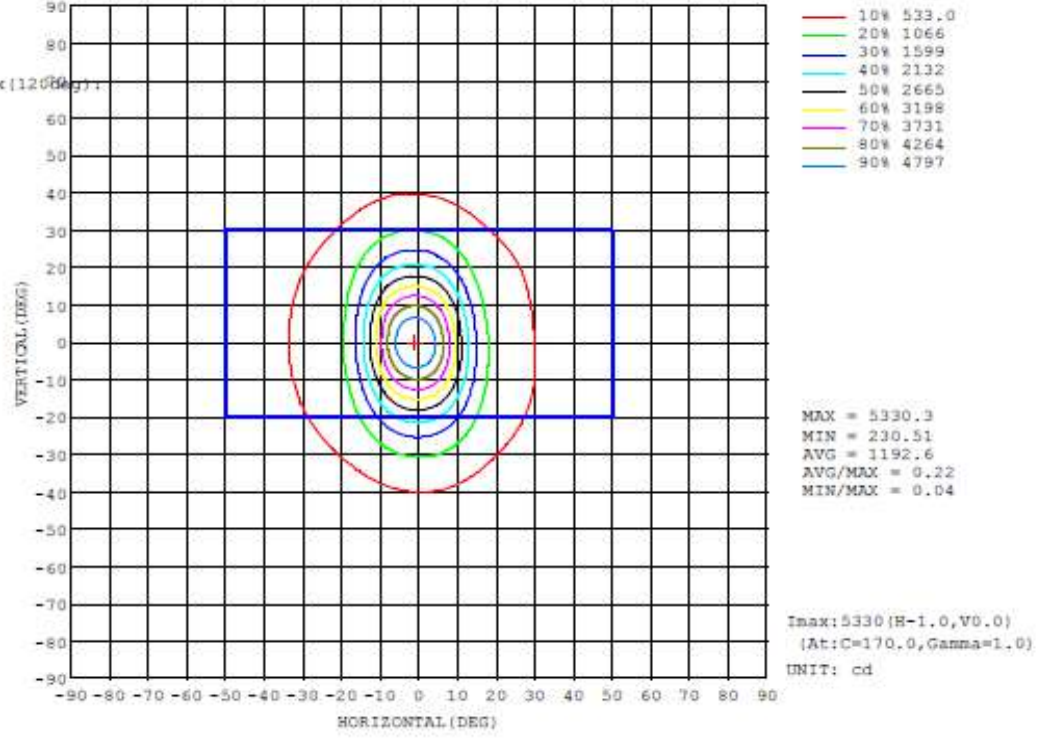
%lamp = 78.6%

Conical surface Flux(120deg):

2475.3 lm

%lum = 91.7%

%lamp = 91.7%



Açıklamalar (Descriptions)

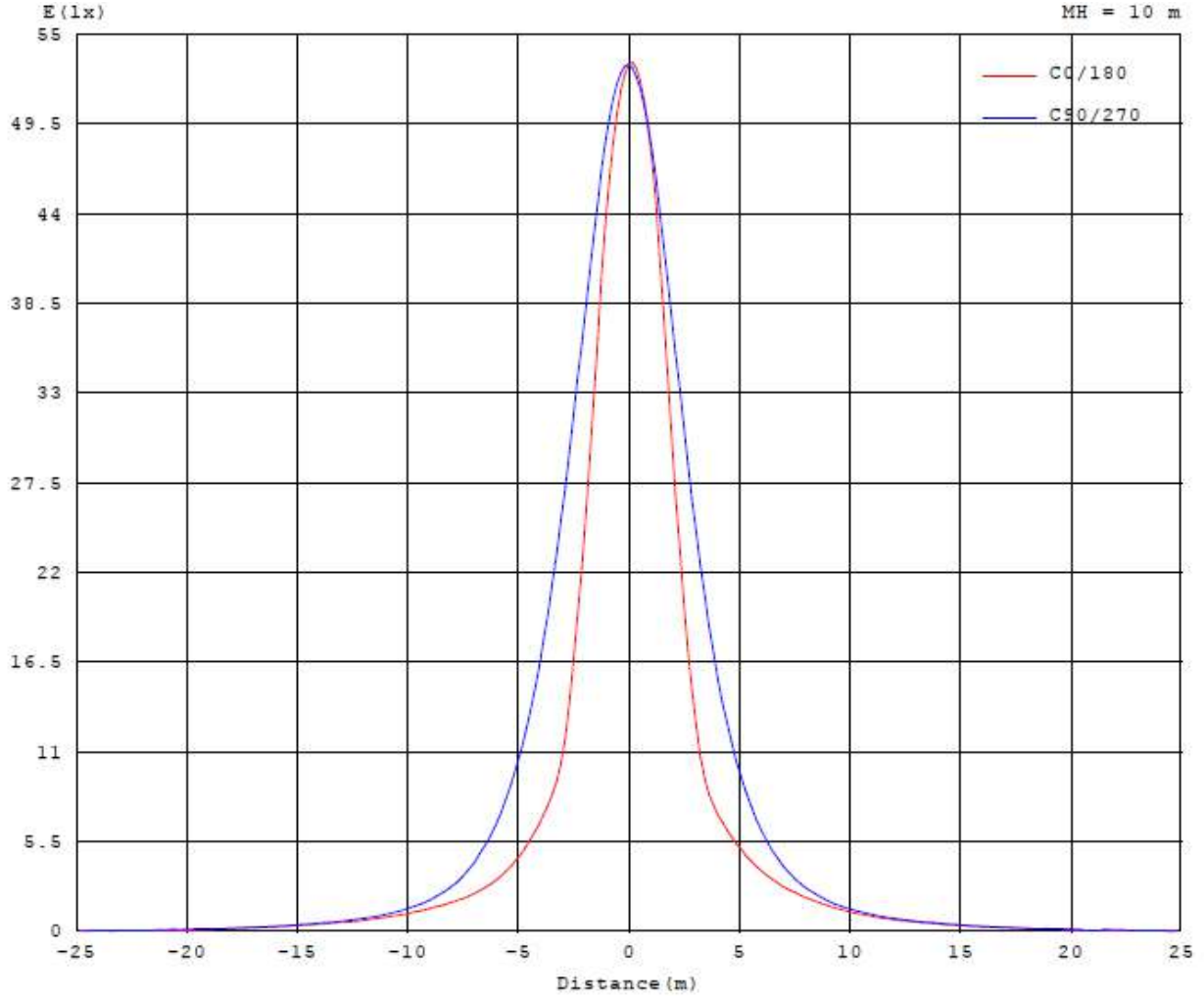
MH: Mounting Height: Montaj Yüksekliği.

Distance: Mesafe.





2.2.6 Düzlemsel Aydınlık Eğrisi (Planar Illuminance Curve)



Açıklamalar (Descriptions)

Flux Out: Akı (Lümen) Çıkışı.

Height: Yükseklik.

Angle: Açı.

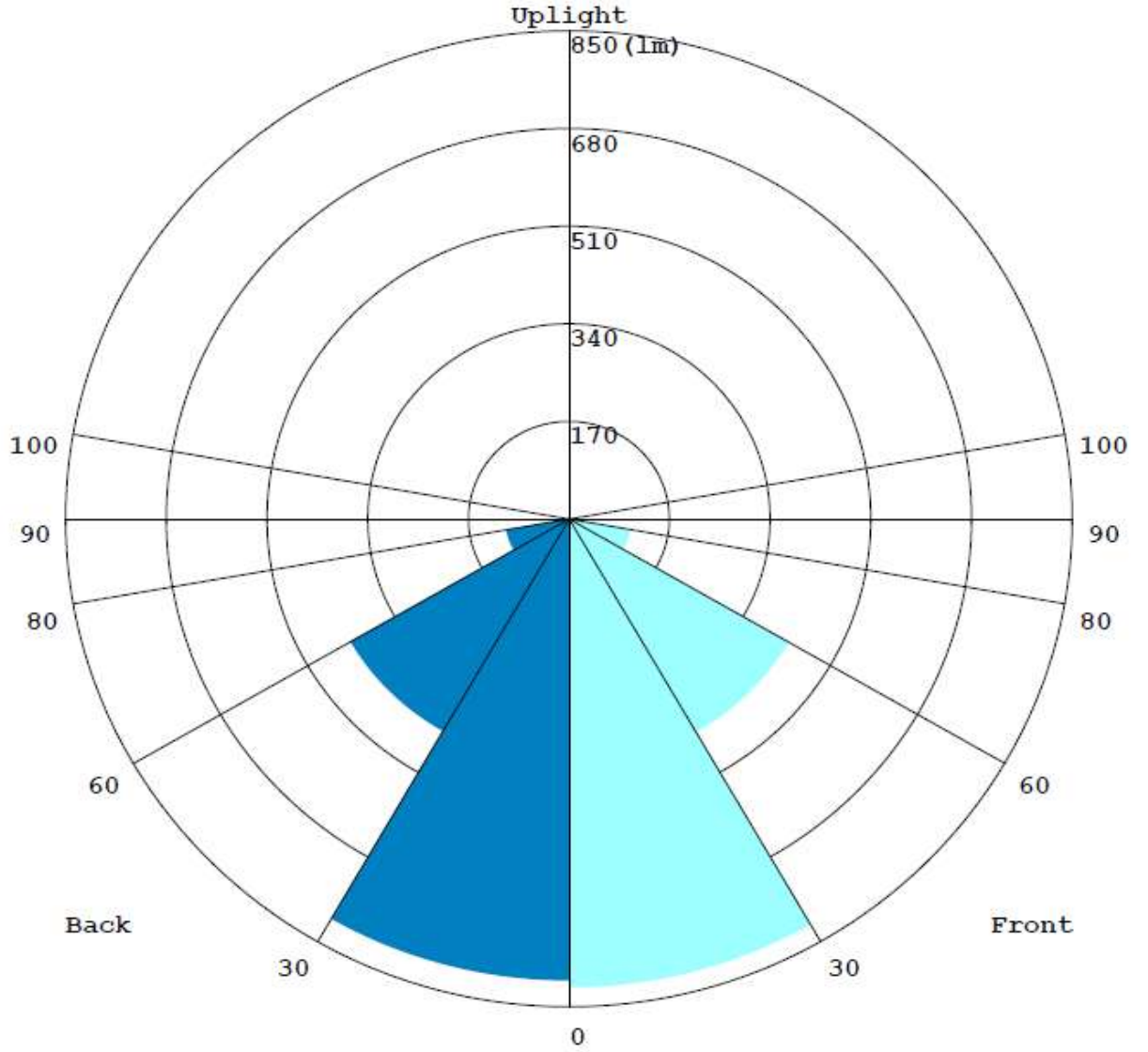
Diameter: Çap.



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2.2.7 Armatür sınıflandırma sistemi grafiği
(Luminaire classification system (LCS) graph)



Açıklamalar (Descriptions)

Horizontal: **Yatay**

Vertical: **Dikey**



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2.2.7 Armatür Akı Dağılım Tablosu (Back, Up, Glare Report)

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low (0-30)	816.1	30.2
FM - Front-Medium (30-60)	429.11	15.9
FH - Front-High (60-80)	106.32	3.9
FVH - Front-Very High (80-90)	5.1315	0.2
Total Forward Light	1356.8	50.3

BL - Back-Low (0-30)	803.71	29.8
BM - Back-Medium (30-60)	426.39	15.8
BH - Back-High (60-80)	107.72	4.0
BVH - Back-Very High (80-90)	4.6916	0.2
Total Back Light	1342.7	49.7

UL - Uplight-Low (90-100)	0.037218	0.0
UH - Uplight-High (100-180)	0.34733	0.0
Total Up Light	0.38455	0.0

BUG (Back, Up, Glare) Rating	B2-U1-G0
------------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1356.7	0.17895	1356.8
Street Side	1342.5	0.2056	1342.7

Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey



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2.2.7 Işık Şiddeti yoğunluğu dağılımına ait veriler (Luminous Distribution Intensity Data)

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314
5	4645	4664	4698	4749	4806	4866	4917	4964	5004	5033	5051	5057	5058	5051	5041	5028	5016	5009	4984
10	3052	3102	3217	3385	3590	3801	3981	4110	4196	4243	4257	4235	4175	4082	3960	3835	3728	3661	3599
15	1558	1618	1752	1957	2235	2548	2850	3075	3200	3258	3256	3188	3030	2790	2511	2264	2081	1975	1915
20	937	950	987	1084	1296	1583	1891	2149	2300	2359	2340	2227	1994	1697	1423	1208	1083	1040	1015
25	698	715	748	784	840	996	1233	1453	1597	1647	1615	1481	1254	1033	878	830	809	796	781
30	529	548	580	611	646	707	833	987	1093	1129	1092	974	828	717	671	648	634	625	620
35	426	440	462	485	510	538	588	683	756	770	745	662	589	552	531	519	509	507	506
40	366	371	378	387	403	419	442	485	527	538	519	480	448	433	420	414	414	421	424
45	317	318	319	322	330	341	351	372	395	400	389	370	358	349	339	337	340	349	351
50	274	278	280	281	285	291	296	304	316	318	312	304	300	294	288	287	288	289	288
55	241	243	244	244	247	250	254	257	261	262	260	257	256	253	251	250	249	250	249
60	195	195	193	195	199	202	204	206	208	209	208	206	205	206	203	204	207	212	212
65	140	138	137	138	143	147	149	150	152	153	154	153	152	150	147	148	152	156	156
70	91.2	91.2	91.4	93.8	96.7	99.2	101	102	103	105	107	107	106	104	102	102	103	103	102
75	52.6	53.9	54.7	55.6	56.9	58.3	59.3	59.3	60.4	62.8	63.9	65.7	66.0	64.2	63.3	63.7	63.5	62.1	61.1
80	22.4	23.8	24.4	24.6	25.7	27.1	28.3	28.4	29.7	30.7	31.1	32.4	32.8	31.6	30.6	30.6	31.1	29.9	29.0
85	3.73	4.03	4.08	4.54	5.12	6.05	7.70	7.91	8.61	9.03	9.21	9.42	9.21	8.20	7.75	7.14	7.06	6.62	4.59
90	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.07	0.07	0.10	0.10	0.09	0.06	0.05	0.04	0.04	0.03	0.03
95	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03
100	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03
105	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03
110	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
115	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
120	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
125	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04
130	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
135	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
140	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05
145	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06
150	0.07	0.07	0.08	0.08	0.09	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.08
155	0.10	0.10	0.11	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.11
160	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.22
165	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.28
170	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.21	0.21	0.21	0.20	0.19	0.19	0.18	0.18	0.18	0.19	0.19	0.34
175	0.18	0.18	0.19	0.19	0.18	0.18	0.20	0.21	0.21	0.20	0.20	0.21	0.20	0.19	0.18	0.18	0.18	0.18	0.42
180	0.29	0.27	0.26	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.28	0.26	0.25	0.24	0.25	0.26	0.27	0.26	0.28

Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey



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2.2.7 Işık Şiddeti yoğunluğu dağılımına ait veriler (Luminous Distribution Intensity Data)

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314	5314		
5	4985	4996	5009	5023	5035	5038	5032	5017	4991	4955	4912	4856	4800	4743	4693	4650	4627		
10	3641	3739	3882	4024	4136	4207	4238	4233	4196	4126	4022	3877	3684	3473	3277	3123	3035		
15	1970	2107	2324	2598	2879	3089	3189	3215	3183	3099	2939	2678	2369	2079	1859	1667	1583		
20	1030	1092	1249	1512	1794	2051	2222	2274	2254	2165	1972	1700	1394	1138	999	950	928		
25	788	802	826	901	1094	1314	1490	1573	1562	1467	1284	1054	858	779	740	711	693		
30	627	641	659	682	739	874	1005	1071	1063	994	858	718	645	611	581	551	531		
35	507	515	525	540	561	615	692	739	735	685	604	536	506	487	465	442	429		
40	418	412	414	424	438	459	498	527	525	495	451	421	404	392	381	371	366		
45	344	337	336	344	355	364	383	398	397	380	357	344	333	325	321	318	316		
50	288	288	289	294	301	306	312	317	316	309	299	292	284	280	279	276	273		
55	250	252	253	256	261	264	265	265	262	258	254	250	245	242	242	240	239		
60	210	207	208	211	215	215	213	211	209	206	202	200	197	194	193	193	194		
65	155	153	154	158	160	160	159	158	157	154	151	150	145	143	140	140	140		
70	103	103	105	107	108	110	109	108	107	105	104	102	97.2	95.7	93.2	92.1	91.1		
75	61.8	62.7	62.9	63.3	63.7	63.8	62.2	61.3	60.5	59.0	58.7	58.6	56.1	55.1	54.7	54.5	52.9		
80	29.8	29.9	29.2	29.4	30.1	30.7	29.8	29.7	29.2	27.9	27.3	26.9	25.4	24.2	22.9	24.1	22.6		
85	4.65	4.75	5.28	6.22	6.81	7.60	7.69	7.55	7.22	6.77	6.43	5.88	4.81	3.64	3.06	2.64	2.53		
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
95	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03		
100	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03		
105	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03		
110	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
115	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
120	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04		
125	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04		
130	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
135	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05		
140	0.05	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06		
145	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06		
150	0.08	0.08	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.08	0.08		
155	0.12	0.13	0.14	0.15	0.15	0.14	0.14	0.13	0.13	0.13	0.12	0.13	0.14	0.14	0.13	0.13	0.12		
160	0.23	0.24	0.24	0.24	0.23	0.23	0.22	0.21	0.21	0.21	0.20	0.21	0.22	0.22	0.22	0.22	0.23		
165	0.29	0.29	0.29	0.29	0.28	0.27	0.27	0.26	0.26	0.25	0.24	0.23	0.23	0.24	0.25	0.26	0.27		
170	0.34	0.35	0.35	0.34	0.32	0.31	0.31	0.30	0.29	0.28	0.27	0.27	0.27	0.27	0.28	0.29	0.30		
175	0.43	0.44	0.44	0.43	0.41	0.39	0.37	0.34	0.32	0.30	0.28	0.28	0.30	0.31	0.32	0.34	0.39		
180	0.28	0.27	0.30	0.27	0.28	0.29	0.29	0.28	0.27	0.27	0.26	0.25	0.24	0.24	0.24	0.25	0.25		

Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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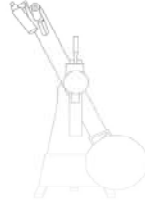
3. EKLER (Attachments)

3.1 Deney Bileşenleri (Test Components)

Envanter No (Inventory Number)	Cihaz Adı (Device Name)	Seri No (Serial Number)	Kal./Doğ. Tarihi (Cal./Ver. Date)
LAB-004	Power Meter	G103508CD1331128	18.06.2020
LAB-006	AC Power Supply	G119885CF1341123	17.06.2020
LAB-022	Standard light source (sphere)	M133806CJ1401124	30.03.2020
LAB-025	Auxiliary lamp (sphere)	M133803CD1391147	31.03.2020
LAB-059	Sphere termokupl	13200840	15.10.2020
LAB-021	Standard light source(gonio)	M147803CN1391114	31.03.2020
LAB-030	AC Power Supply	G120984CF1341115	17.06.2020
LAB-031	Power Meter	G103508TO1331122	18.06.2020



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3.2 Kritik Komponent Listesi (Critical Components List)

(İzettel 520mm) Komponent Listesi / list of Component				
Sıra No	Komponent Adı	Marka / Model	Seri No:	Teknik Özellikleri
1	DRIVER	vossloh schwabe	Type ECXe 800.226	EN 61347-1 / EN 61347-2-13 / EN 61547 / EN 61000-3-2 / EN 62384 / EN 55015
2	LED	NICHIA / 219 CT	219 CT	LM80
3	GLASS	PC	4MM ŞEFFAF	
4	BODY	eloksallı ekstrüzyon alüminyum		
5	CABLE	PAMUKKALE	H05VV-F_280820	TSE
6	LENS	EMGE	10 X 60	
7	CONNECTOR	TH387 KONNEKTÖR	Contact-1003-SI-E	
8				
9				
10				

Firma Yetkilisi Adı Soyadı / Kaşe / İmza / Tarih



Serdar Erçığır
23.03.2021



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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3.3 Ürün Fotoğrafları (Photos of Test Items)

3.3.1 Ön Görünüm (Front view)



3.3.2 Görünüm (view)



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanı, çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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3.3.3 Görünüm (view)



3.3.4 Görünüm (view)



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanamaz, çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.
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3.3.5 Görünüm (view)



3.3.6 Görünüm (view)



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopyalanamaz, çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.
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