



DENEY RAPORU TEST REPORT

AB-1333-T

170321UT05

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 Armatür (İzettel-iAxis Mono Recessed 9W 12 Led)

Surface Recessed Facade Painting Lum. (İzettel-iAxis Mono Recessed 9W 12 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 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; 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.

* İşaretsiz 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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1.3 Ürün Bilgileri (Information of Test Item)

Ürünün Adı: (Name of Test Item)	Zemine Gömme Cephe Boyama Armatürü Surface Recessed Facade Painting 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)	Osram / Element 18/220-240/350 D CS L
Seri No: (Serial Number)	-
Ürünün Boyutları / cm: (Product dimensions / cm)	Uzunluk / Çap: 57 (length / diameter) Genişlik: 9.3 (Width) Yükseklik: 9 (height)
Ürünün Ağırlığı / kg: (Product weight / kg)	2.65
IP Sınıfı: (IP Class)	-

1.4 Çevre Şartları (Environmental Conditions)

Sıcaklık - °C: (Temperature - °C)	24.6
Nem: (Humidity)	%30
Hava Akımı - m/s: (Air flow - m/s)	0





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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	0.0459	9.358	0.8857

1.8 Ölçüm Sonuçları Özeti (Measurement Results Summary)

Işık Akısı - Lümen: (Luminous Flux - Lumen)	1094.95
Işık Şiddeti - Kandela: (Luminous Intensity - Candela)	1596
Ortalama Işıma Açısı: (Average Beam Angle)	45.1
Verimlilik - lm/w: (Efficiency - lm/w)	117
Renksel Geri Verim / CRI: (CRI: Color Render Index)	86.8
Renk Sıcaklığı / Kelvin: (CCT: Colarated Color temprature / Kelvin)	2876
Test sırasında SSL ürünün yanma pozisyonu: (Burn position of SSL during testing)	Görsellere Bakınız.
Stabilizasyon süresi /dakika: (Stabilization time / Minute)	30
Stabilizasyon dahil olmak üzere ürünün toplam çalışma süresi / dakika (Total operating time of the product including stabilization / Minute)	45
Uygulanan düzeltme faktörleri: (Applied correction factors)	-



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2. Deney Sonuçları (Test Results)

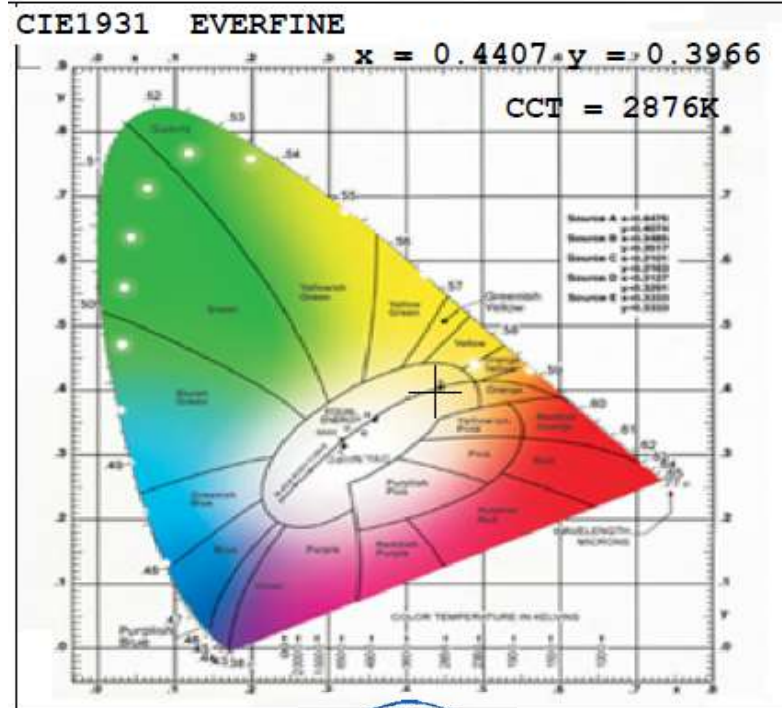
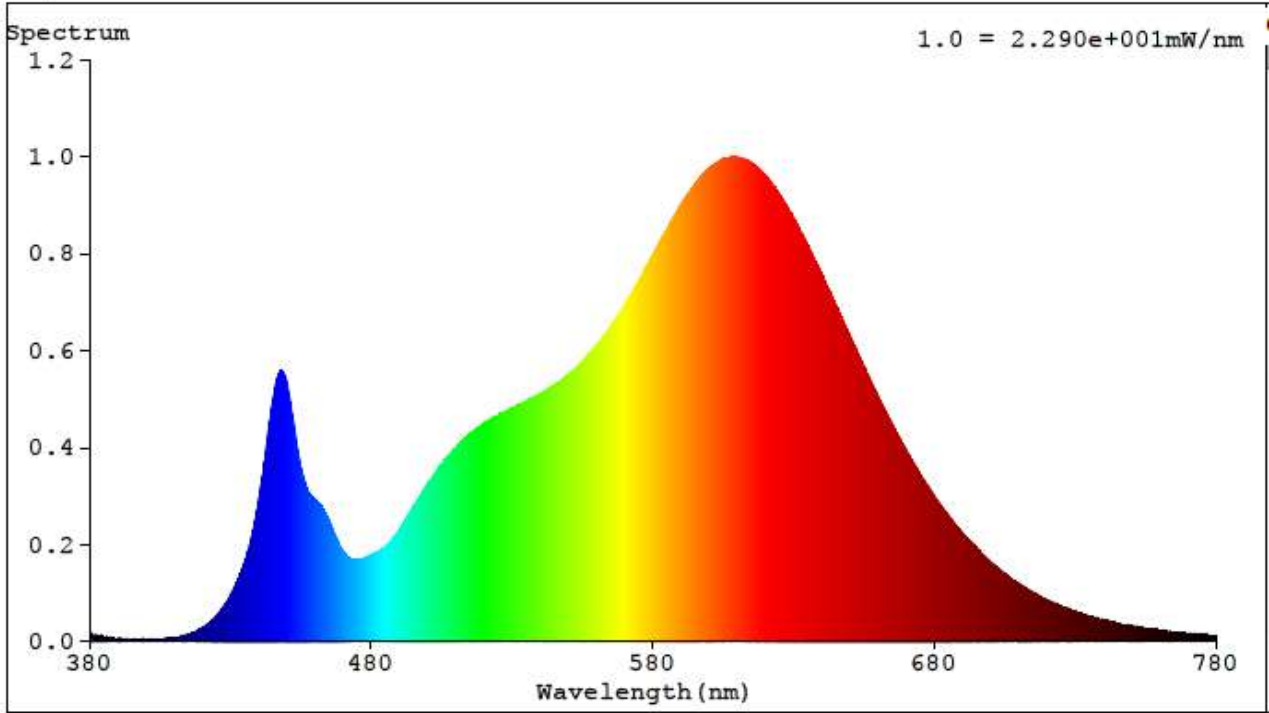
2.1 Entegre Küre Sonuçları (Integrating Sphere Measurement Results)

Renklilik Koordinatı: (Chromaticity Coordinate)		x: 0.4407		y: 0.3966	
		u': 0.2563		v': 0.5190	
		duv: -0.00346			
Renk Sıcaklığı - Kelvin: (CCT: Colarated Color temprature - Kelvin)		Renksel Geri Verim: (CRI: Color Render Index)			
2876		86.8			
Ld:Baskın Dalga boyu -nm: (Ld:dominant wavelength - nm)	584.6	R1	R2	R3	R4
		87	95	96	87
Spektral Bant Genişliği -nm: (Spectral Bandwidth -nm)	124.3	R5	R6	R7	R8
		88	94	84	65
Lp:Tepe Dalga boyu -nm: (Lp:Peak wavelength - nm)	610	R9	R10	R11	R12
		23	88	88	84
Safılık - % (Purity -%)	51.3	R13	R14	R15	
		89	99	80	
% RGB oranları (% RGB Ratio)		%R: 24.7		%G: 72.7	%B: 2.6





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



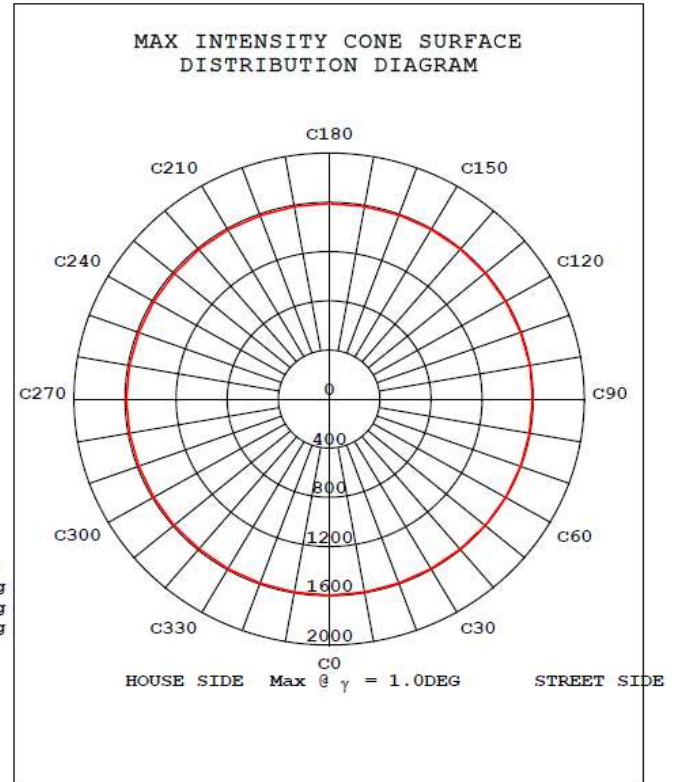
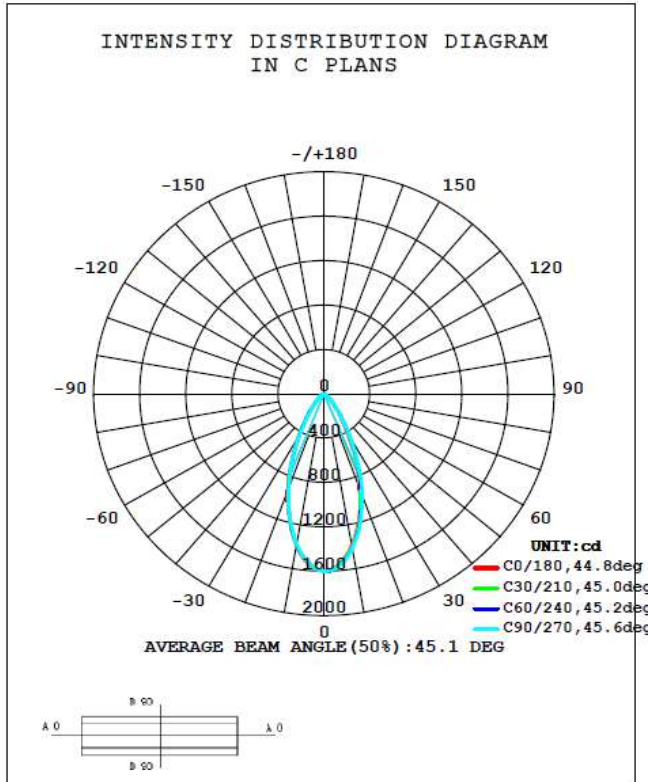


2.2 Gonyofotometre Sonuçları (Goniophotometer Measurement Results)

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.01 lm/W			
MODEL		Imax (cd)	1596	η street_up (%)	0.0
NOMINAL POWER (W)	10	LOR (%)	100.0	η street_down (%)	50.9
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1095	η house_up (%)	0.0
NOMINAL FLUX (lm)	1094.95	MAXIMUM @ (C, γ)	130, 1.0	η house_down (%)	49.0
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	230	η down (%)	100.0	SLI	13.109

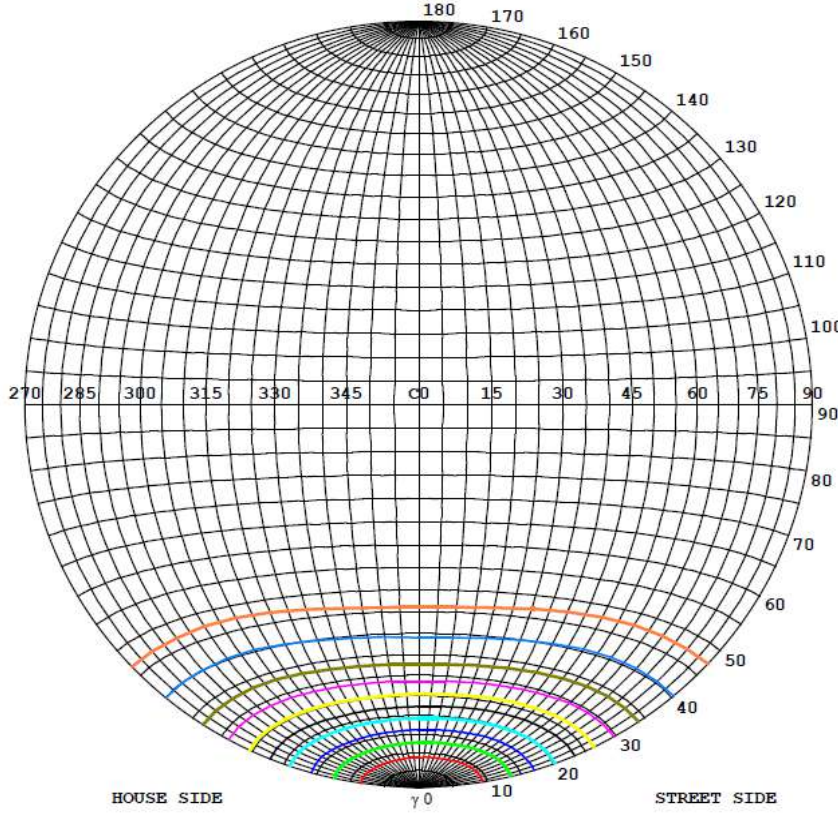
2.2.1 Işık Yeğirliği Polar Eğrisi

(Luminous Intensity Distribution Diagram)





2.2.2 Isocandela Diagramı (Street Light Isocandela Diagram)



Classification:

IES:Type V - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:3.291cd/klm
Max.At90:0.0297cd/klm
Max.80-90:3.291cd/klm
NRB 5101:Limited[0.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1596
90%	1436
80%	1277
70%	1117
60%	957
50%	798
40%	638
30%	479
20%	319
10%	160
5%	80

Açıklamalar (Descriptions)

Luminous Intensity: Işık Şiddeti.

Unit: Birim.

γ: Gama.

Zone: Bölge.

Total: Toplam.

Lamp: Lamba.

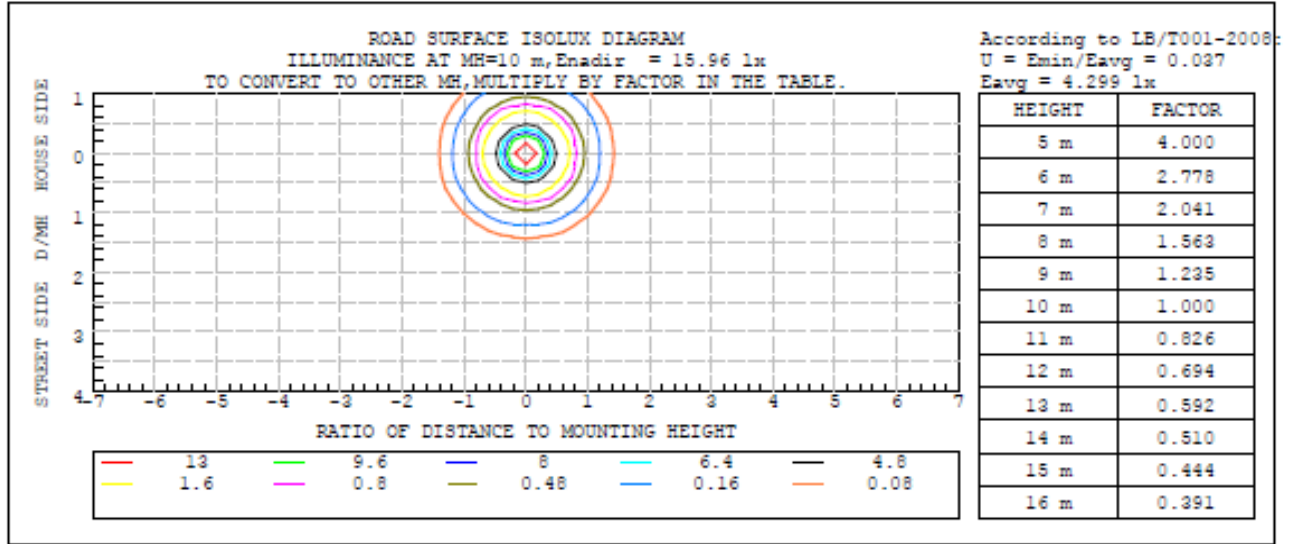
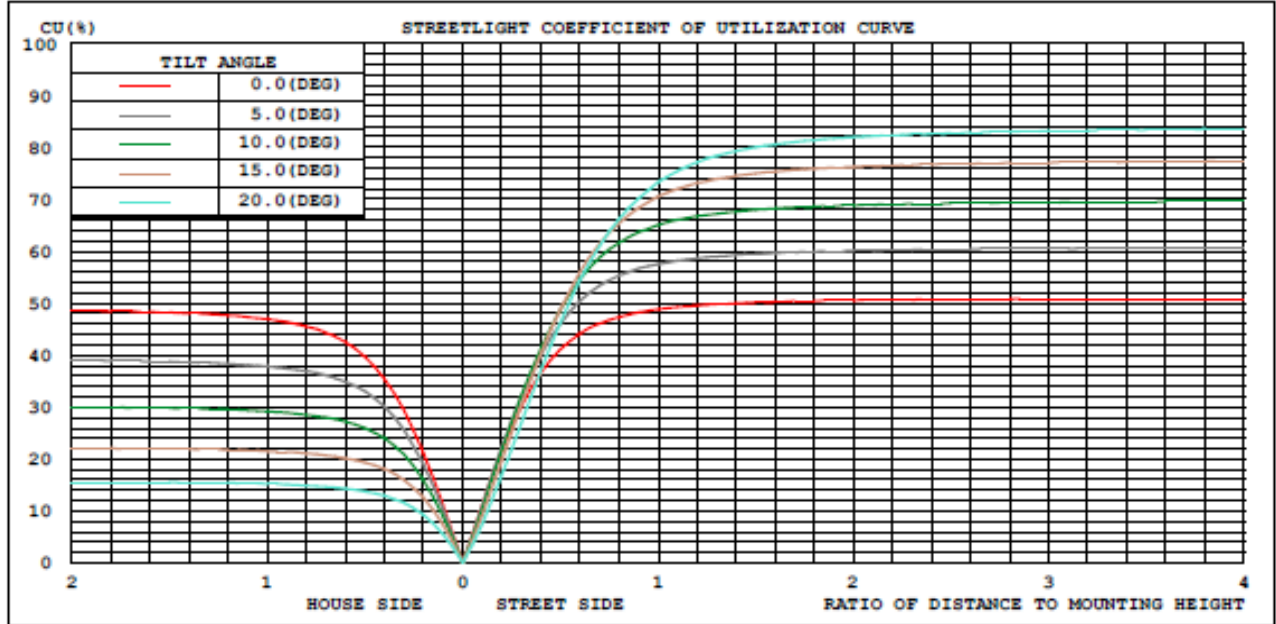
Degree: Derece.



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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)

y	C0	C45	C90	C135	C180	C225	C270	C315	y	Φ zone	Φ total	klm, lamp
10	1386	1408	1417	1415	1388	1380	1375	1373	0- 10	142.4	142.4	13,13
20	914.9	949.1	971.5	971.3	922.5	909.1	909.2	900.9	10- 20	325.7	468.1	42.7,42.7
30	414.8	449.3	468.5	473.4	446.4	442.0	431.9	428.8	20- 30	307.7	775.8	70.9,70.9
40	143.6	164.9	166.3	176.8	158.2	170.8	157.6	162.9	30- 40	174.3	950.1	86.8,86.8
50	57.04	64.16	63.30	67.98	61.41	65.67	59.85	62.66	40- 50	78.60	1029	93.9,93.9
60	27.02	28.52	28.56	29.95	28.73	28.77	27.19	27.95	50- 60	38.25	1067	97.4,97.4
70	12.04	12.17	12.31	12.86	12.68	12.03	10.99	11.66	60- 70	19.14	1086	99.2,99.2
80	2.930	3.091	3.041	3.523	3.566	3.049	2.642	2.734	70- 80	7.543	1094	99.9,99.9
90	0.0282	0.0284	0.0308	0.0306	0.0274	0.0276	0.0277	0.0281	80- 90	1.106	1095	100,100
100	0.0277	0.0282	0.0280	0.0278	0.0280	0.0276	0.0272	0.0281	90-100	0.0304	1095	100,100
110	0.0280	0.0281	0.0280	0.0281	0.0282	0.0281	0.0282	0.0288	100-110	0.0295	1095	100,100
120	0.0290	0.0292	0.0285	0.0290	0.0282	0.0293	0.0288	0.0302	110-120	0.0282	1095	100,100
130	0.0361	0.0321	0.0309	0.0322	0.0322	0.0314	0.0320	0.0325	120-130	0.0275	1095	100,100
140	0.0423	0.0414	0.0380	0.0407	0.0410	0.0428	0.0408	0.0437	130-140	0.0277	1095	100,100
150	0.0646	0.0620	0.0524	0.0588	0.0672	0.0721	0.0589	0.0688	140-150	0.0313	1095	100,100
160	0.0889	0.0827	0.0817	0.0764	0.1294	0.1187	0.0956	0.1059	150-160	0.0362	1095	100,100
170	0.0908	0.0946	0.1004	0.0868	0.1318	0.1344	0.1214	0.1182	160-170	0.0293	1095	100,100
180	0.1365	0.1298	0.1262	0.1162	0.1291	0.1260	0.1190	0.1106	170-180	0.0108	1095	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Açıklamalar (Descriptions)

Mounting Height: Montaj Yüksekliği.



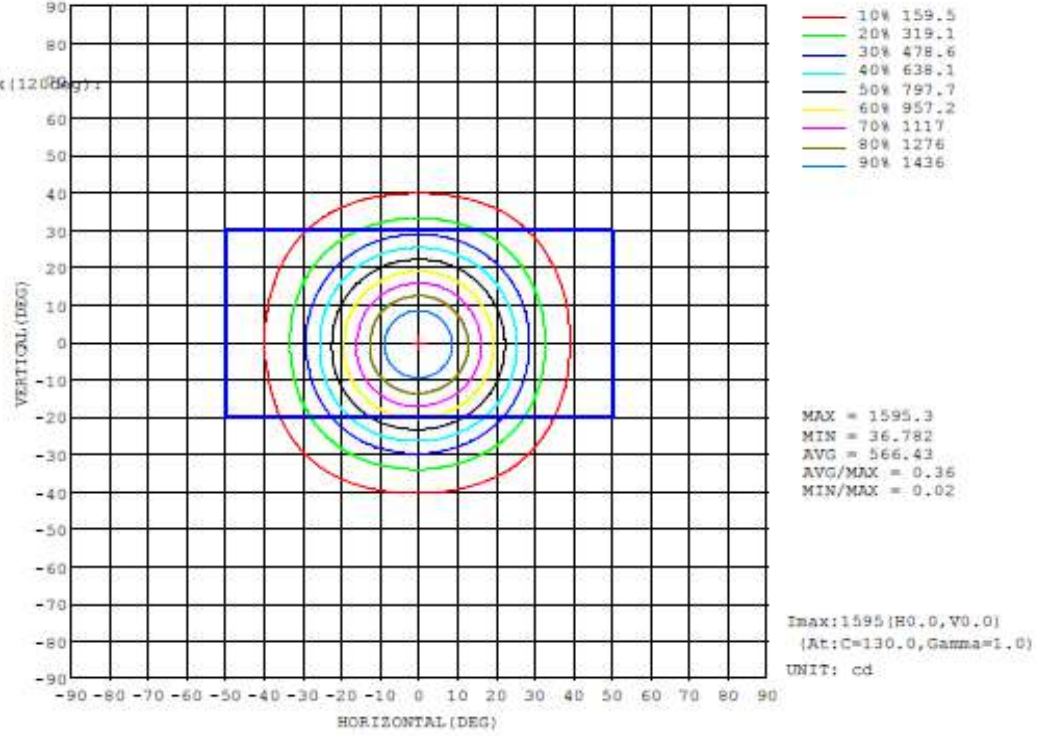
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2.2.5 Isocandela Diagramı (Isocandela Diagram)

Conical surface Flux(90deg):
996.97 lm
%lum = 91.1%
%lamp = 91.1%

Conical surface Flux(120deg):
1066.9 lm
%lum = 97.4%
%lamp = 97.4%



Açıklamalar (Descriptions)

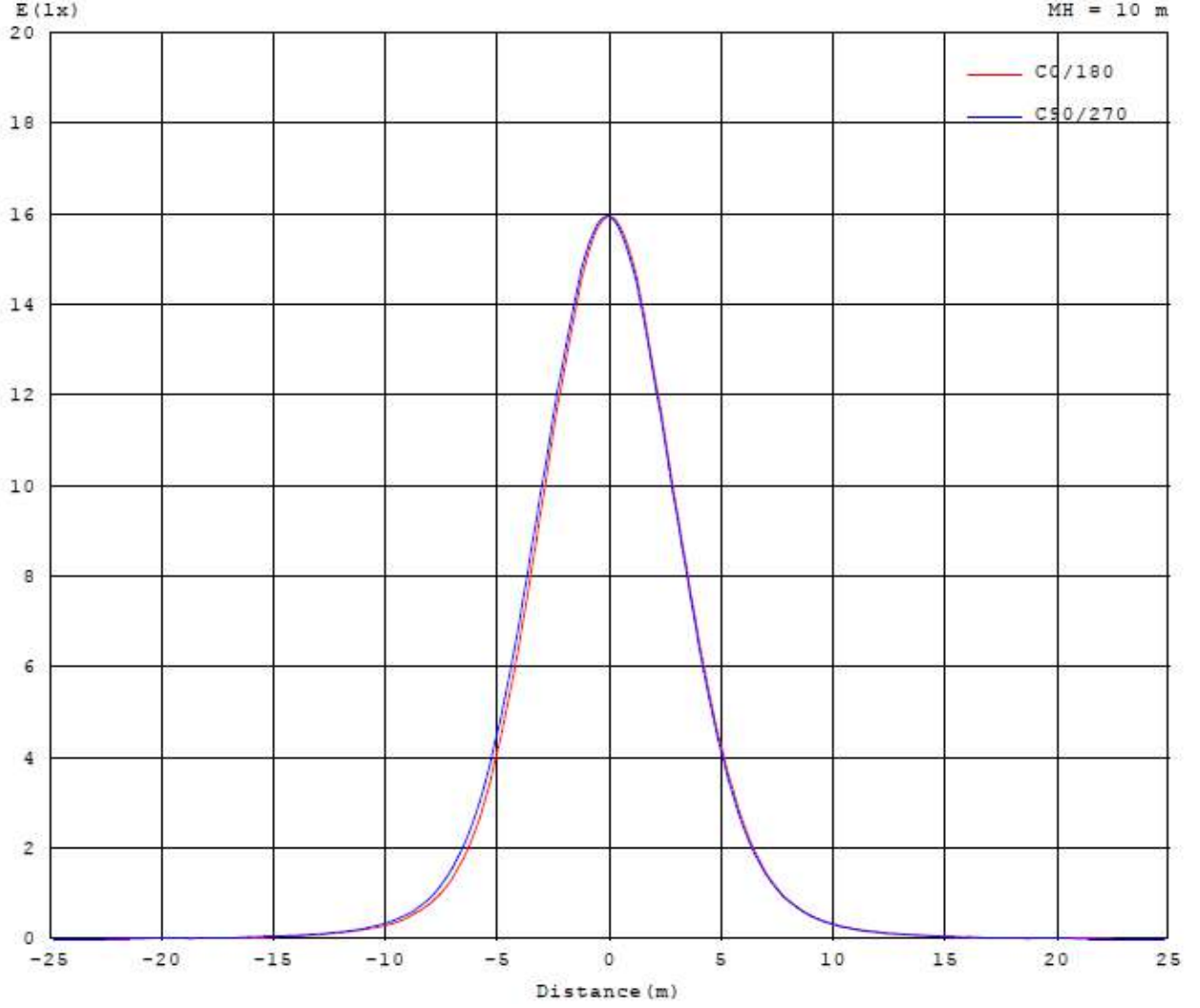
MH: Mounting Height: Montaj Yüksekliği.

Distance: Mesafe.





2.2.6 Düzlemsel Aydınlik Eğrisi (Planar Illuminance Curve)



Açıklamalar (Descriptions)

Flux Out: Akı (Lümen) Çıkışı.

Height: Yükseklik.

Angle: Açılı.

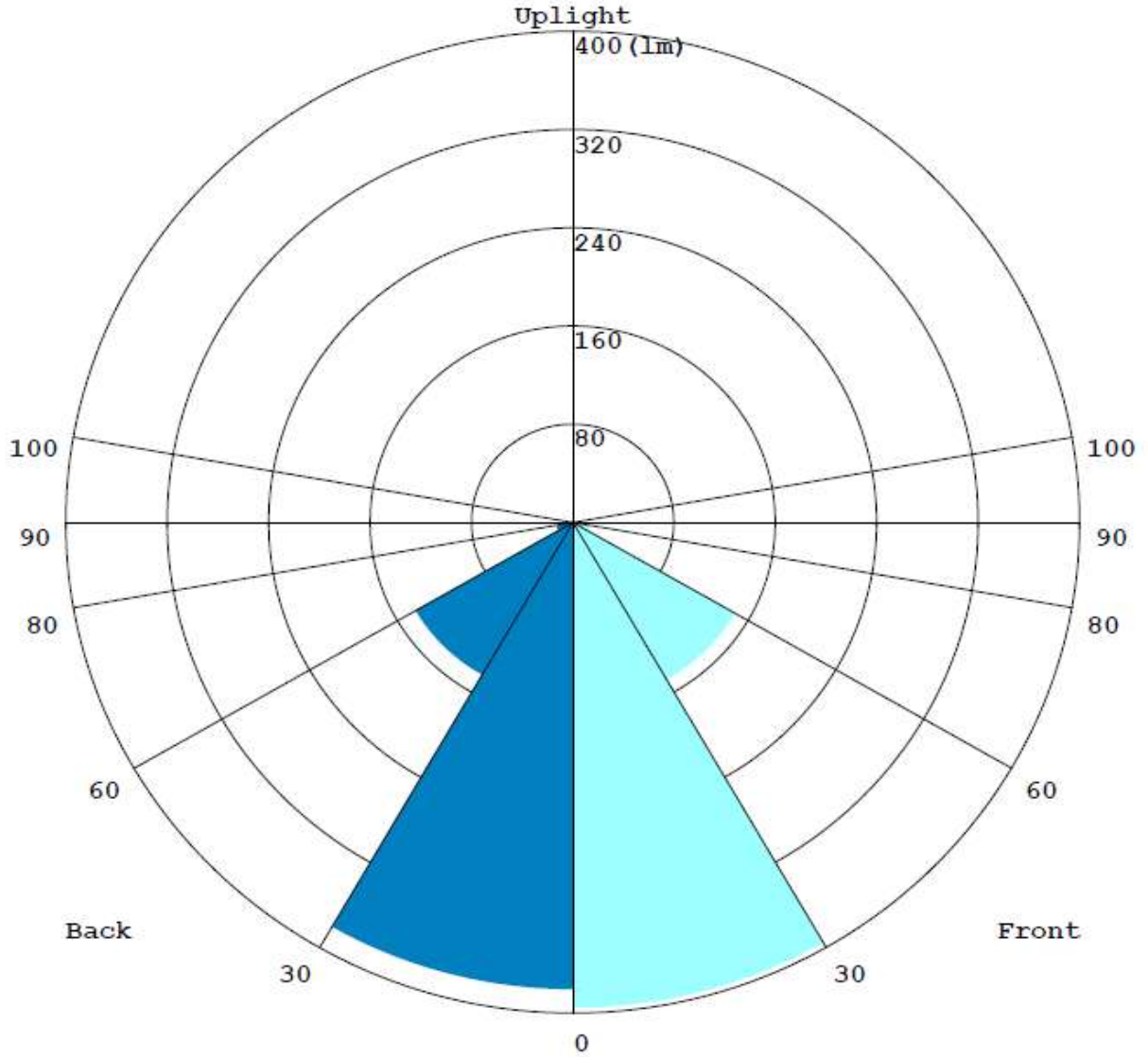
Diameter: Çap.



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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)	395.53	36.1
FM - Front-Medium(30-60)	147.97	13.5
FH - Front-High(60-80)	13.63	1.2
FVH - Front-Very High(80-90)	0.58771	0.1
Total Forward Light	557.83	50.9

BL - Back-Low(0-30)	380.26	34.7
BM - Back-Medium(30-60)	143.16	13.1
BH - Back-High(60-80)	13.049	1.2
BVH - Back-Very High(80-90)	0.51866	0.0
Total Back Light	537.12	49.1

UL - Uplight-Low(90-100)	0.030435	0.0
UH - Uplight-High(100-180)	0.22047	0.0
Total Up Light	0.2509	0.0

BUG(Back,Up,Glare) Rating	B1-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	557.71	0.11953	557.83
Street Side	536.99	0.13137	537.12

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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595
5	1539	1539	1542	1543	1546	1548	1550	1551	1554	1554	1554	1553	1552	1551	1549	1547	1546	1543	1542
10	1386	1390	1395	1401	1405	1411	1413	1415	1416	1417	1419	1418	1418	1417	1413	1408	1402	1395	1388
15	1173	1179	1185	1192	1197	1204	1208	1209	1212	1215	1222	1223	1220	1216	1209	1202	1192	1180	1169
20	915	923	932	941	947	951	955	960	965	971	977	980	980	975	968	958	948	935	922
25	656	662	671	678	686	694	700	703	708	714	718	722	723	720	713	702	695	684	673
30	415	421	430	438	446	452	456	460	464	468	472	477	478	477	470	462	454	446	446
35	246	250	258	267	274	278	281	283	284	286	289	293	297	296	293	284	276	269	268
40	144	146	151	158	163	167	167	167	166	166	169	173	177	178	175	169	163	158	158
45	87.0	88.4	91.6	95.8	99.2	101	101	99.8	98.9	99.1	101	104	107	108	107	103	98.7	95.5	94.8
50	57.0	57.8	59.2	61.8	63.6	64.7	64.4	63.7	63.3	63.3	64.2	65.3	67.4	68.4	67.5	65.8	64.0	62.2	61.4
55	38.9	39.2	40.0	41.1	42.0	42.4	42.2	41.7	41.9	41.8	42.2	43.0	44.1	44.8	44.5	43.7	42.4	41.7	41.6
60	27.0	27.2	27.6	27.9	28.4	28.6	28.5	28.3	28.6	28.6	28.7	29.1	29.6	30.0	29.9	29.6	29.2	28.7	28.7
65	18.5	18.6	18.7	18.8	19.0	19.0	19.0	19.0	19.3	19.2	19.2	19.5	19.8	20.0	20.0	19.9	19.8	19.6	19.6
70	12.0	12.1	12.1	12.1	12.2	12.2	12.2	12.1	12.4	12.3	12.3	12.5	12.7	12.8	12.9	12.9	12.9	12.8	12.7
75	6.98	7.03	7.08	7.09	7.12	7.12	7.07	6.93	7.09	6.95	7.04	7.31	7.52	7.65	7.68	7.70	7.69	7.69	7.56
80	2.93	2.97	3.03	3.10	3.13	3.06	3.01	2.97	3.11	3.04	3.11	3.21	3.31	3.45	3.60	3.60	3.58	3.54	3.57
85	0.48	0.51	0.55	0.59	0.66	0.75	0.82	0.84	0.89	0.89	0.93	0.96	0.96	0.91	0.86	0.87	0.88	0.83	0.85
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	0.03	0.03
95	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	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03
105	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	0.03	0.03
110	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	0.03	0.03
115	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	0.03	0.03
120	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	0.03	0.03
125	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	0.03	0.03
130	0.04	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	0.03
135	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	0.04	0.04	0.04	0.03	0.03	0.04
140	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
145	0.05	0.05	0.00	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
150	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07
155	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.09
160	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.13
165	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.13
170	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.13
175	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.08	0.15
180	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.12	0.13	0.13	0.12	0.12	0.11	0.11	0.12	0.12	0.13	0.14	0.13

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	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595	1595		
5	1540	1538	1534	1532	1530	1529	1529	1530	1529	1530	1530	1530	1533	1534	1535	1538	1539		
10	1383	1381	1380	1380	1380	1378	1376	1375	1375	1375	1376	1373	1374	1373	1375	1377	1381		
15	1161	1160	1161	1162	1160	1157	1157	1156	1155	1157	1158	1156	1154	1154	1156	1160	1164		
20	915	913	911	910	908	907	907	909	909	906	905	904	902	900	902	906	909		
25	667	664	663	661	658	657	656	656	657	656	654	652	650	646	646	647	649		
30	444	444	443	443	441	438	436	434	432	431	432	433	431	427	425	420	419		
35	269	271	275	278	277	274	269	266	263	264	266	268	269	264	259	254	250		
40	159	163	168	171	171	168	164	158	158	158	160	164	165	161	156	151	148		
45	95.2	97.4	101	104	104	101	98.0	95.2	93.5	94.1	96.2	98.9	99.6	97.5	94.0	90.5	87.9		
50	61.5	62.4	64.0	65.7	65.7	64.2	62.3	60.7	59.9	60.0	61.1	62.5	63.1	62.2	60.3	58.4	57.2		
55	41.7	42.0	42.6	43.3	43.3	42.4	41.4	40.8	40.2	40.1	40.7	41.5	41.7	41.6	40.8	39.9	39.4		
60	28.7	28.6	28.8	28.9	28.7	28.2	27.8	27.5	27.2	27.0	27.3	27.8	28.0	27.9	27.7	27.4	27.3		
65	19.4	19.3	19.2	19.2	19.0	18.7	18.4	18.5	18.1	17.9	18.1	18.4	18.5	18.6	18.6	18.6	18.6		
70	12.5	12.4	12.3	12.1	11.9	11.7	11.3	11.4	11.0	11.0	11.2	11.5	11.6	11.7	11.8	11.8	11.9		
75	7.45	7.34	7.23	7.11	6.82	6.45	6.13	6.20	5.91	5.94	6.06	6.27	6.55	6.70	6.77	6.83	6.88		
80	3.50	3.44	3.38	3.15	2.95	2.85	2.72	2.80	2.64	2.65	2.66	2.67	2.67	2.80	2.93	2.95	2.97		
85	0.82	0.80	0.74	0.75	0.76	0.76	0.72	0.71	0.65	0.54	0.52	0.53	0.51	0.53	0.49	0.50	0.50		
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	0.03	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		
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	0.03	0.03	0.03	0.03	0.03		
105	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		
110	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	0.02		
115	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		
120	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		
125	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		
130	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		
135	0.04	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.08	0.04	0.04		
140	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		
145	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		
150	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07		
155	0.10	0.10	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.09	0.09	0.09	0.09		
160	0.13	0.13	0.13	0.12	0.12	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.12		
165	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12		
170	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
175	0.16	0.16	0.16	0.16	0.16	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14		
180	0.13	0.13	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.12	0.12		

Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey



Bu rapor laboratuvarın yazılı izni olmadan kısmen veya tamamen kopya edilip 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 570mm) Komponent Listesi / list of Component				
Sıra No	Komponent Adı	Marka / Model	Seri No:	Teknik Özellikleri
1	DRIVER	OSRAM	ELEMENT 18 /220...240/350 DCS L	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
2	LED	NICHIA / 219 FIT	219 FIT	LM80
3	GLASS	PC	4MM ŞEFFAF	
4	BODY	eloksallı ekstrüzyon alüminyum		
5	CABLE	PANUKKALE	H05VV-F_280820	YSE
6	LENS	LIMBUS	TL501NI-D12-45-Tape	
7	CONNECTOR	TH387 KONNEKTÖR	Contact-1003-SI-E	
8				
9				
10				

Firma Yetkili/Ad Soyad / Kaye / İmza / Tarih



Serdar Erçipeş
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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