



DENEY RAPORU TEST REPORT

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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: Baytaş Aydınlatma İmalat Proje Taah.San.Ltd.Şti.
(Customer Name / Address) Sincan Sanayi Sitesi Ahi evran mah. 225 Cd. No:84 Sincan / ANKARA

Talep Numarası: 190822-01/R1
(Order No)

Ürünün Adı ve tarifi: Sıva üstü projektör (Mira)
(Name and Identity of Test Item) Surface mounted projector (Mira)

Ürünün Kabul Tarihi: 08.09.2019
(The Date of Receipt of Test Item)

Deney Tarihi: 09.09.2019
(Date of Test)

Açıklamalar: Numuneye IESNA LM 79-08 standardı uyarınca testler uygulanmıştır.
(Comments) Test were applied to sample according to IESNA LM 79-08 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. 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.

* İşaretli 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

24.09.2019



Deney Sorumlusu

Person in Charge of Test

A. İnaltun

Laboratuvar Müdürü

Head of Testing Laboratory

A. İnaltun

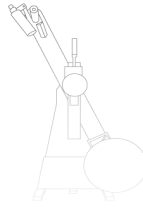
Mühür / Seal

Ayhan İNALTUN

Ayhan İNALTUN

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

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İÇİNDEKİLER (CONTEST)

1. DÖKÜMANTASYON (DOCUMANTATION)

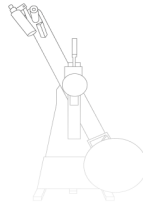
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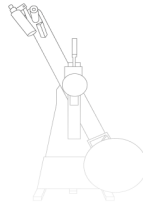


1.3 Ürün Bilgileri (Information of Test Item)

Ürünün Adı: (Name of Test Item)	Mira projektör Mira projector
Marka / Model: (Mark / Model)	Bayled / Mira
Ürünün Tanımı / Tipi: (Product description / Type)	Sıva üstü projektör. Surface mounted Projector.
Sürücü Tipi / Modeli: (Model of Driver)	Texrun mini 4W 350mA IP65
Seri No: (Serial Number)	-
Ürünün Boyutları / cm: (Product dimensions / cm)	Uzunluk / Çap: 19 (length / diameter) Genişlik: 92 (Width) Yükseklik: 71 (height)
Ürünün Ağırlığı / kg: (Product weight / kg)	0.75
IP Sınıfı: (IP Class)	-

1.4 Çevre Şartları (Environmental Conditions)

Sıcaklık - °C: (Temperature - °C)	26
Nem: (Humidity)	36.4
Hava Akımı - m/s: (Air flow - m/s)	0.1



AB-1333-T
090919A101
09092019

1.5 Deney Standartları (Test Standard)

Deneyler aşağıdaki standartlara göre yapılmıştır.

(The tests were performed according to following standards)

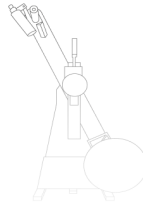
IESNA LM 79-08	Katı Hal Aydınlatma Ürünlerinin Elektriksel ve Fotometrik Ölçümleri. Electrical and Photometric Measurements of Solid-State Lighting Products.
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1.6 Belirsizlik Açıklamaları (Uncertainty Explanations)

Ölçümler %1 belirsizlikle yapılmıştır. Ölçüm Toplam belirsizliği ve genişletilmiş belirsizlik olup bileşik belirsizlik kapsam faktörü $k = 2.0$ çarpılarak elde edildi. Güvenirlilik düzeyi %95'tir.

(Measurements were made with 1% uncertainty. The measurement is sum uncertainty and extended uncertainty, and the composite uncertainty coverage factor $k = 2.0$ is derived.

Reliability level is 95%.)

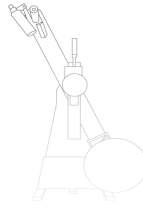


1.7 Elektriksel Ölçüm Sonuçları (Electrical Measurement Results)

Gerilim -Volt (Voltage - Volt)	Akım - Amper (Current - Amper)	Güç - Watt (Power - Watt)	Güç Faktör (Power Factor)
220	0.0472	3.908	0.3756

1.8 Ölçüm Sonuçları Özeti (Measurement Results Summary)

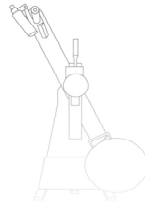
Işık Akısı - Lümen: (Luminous Flux - Lumen)	197.4
Işık Şiddeti - Kandela: (Luminous Intensity - Candela)	321
Ortalama Işıma Açısı: (Average Beam Angle)	36.4
Verimlilik - lm/w: (Efficiency - lm/w)	50.52
Renkssel Geri Verim / CRI: (CRI: Color Render Index)	84
Renk Sıcaklığı / Kelvin: (CCT: Colarated Color temprature / Kelvin)	3117
Test sırasında SSL ürünün yanma pozisyonu: (Burn position of SSL during testing)	Görsellere Bakınız.
Stabilizasyon süresi /dakika: (Stabilization time / Minute)	32
Stabilizasyon dahil olmak üzere ürünün toplam çalışma süresi (Total operating time of the product including stabilization)	45
Uygulanan düzeltme faktörleri: (Applied correction factors)	-



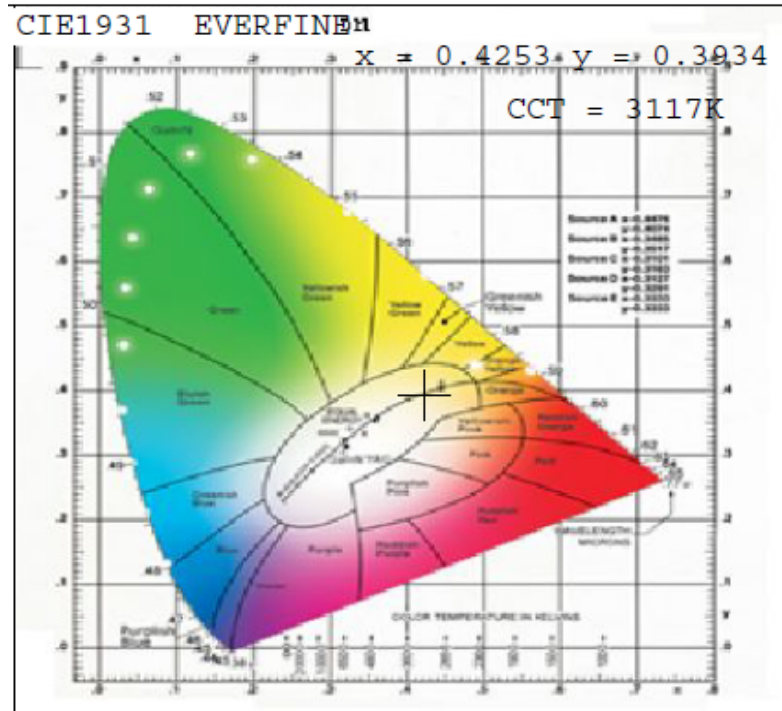
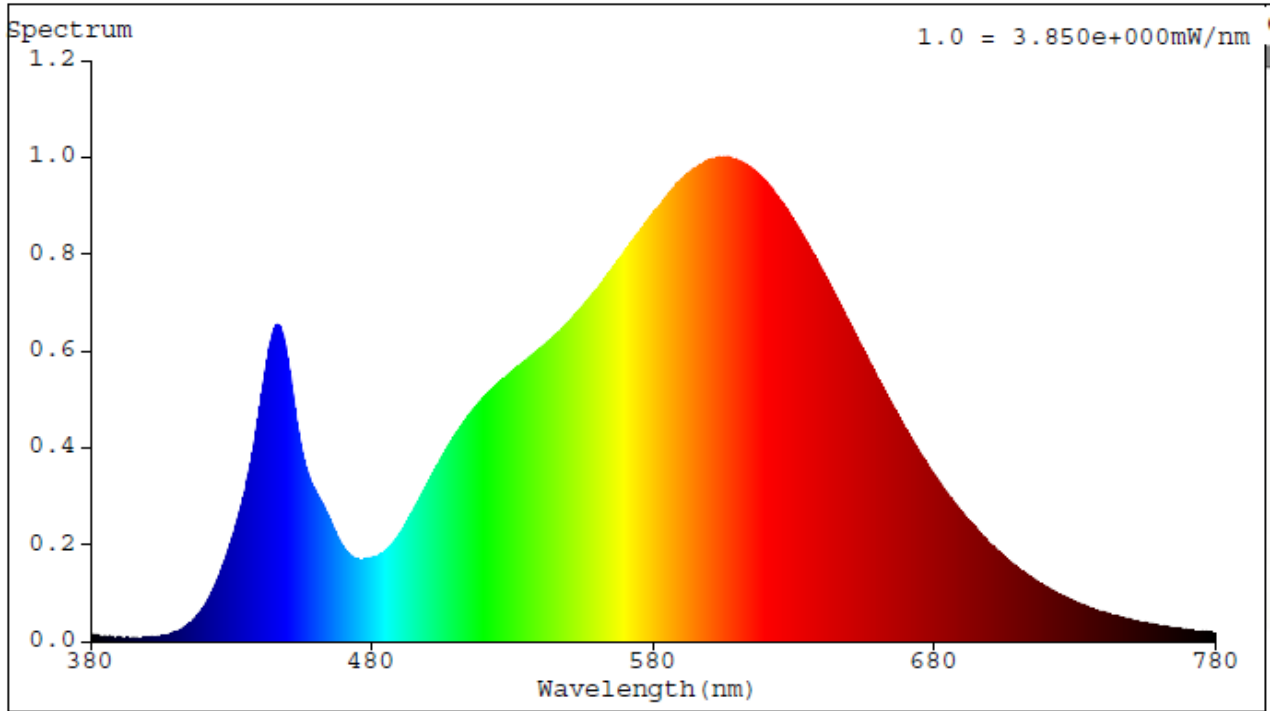
2. Deney Sonuçları (Test Results)

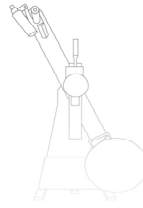
2.1 Entegre Küre Sonuçları (Integrating Sphere Measurement Results)

Renklilik Koordinatı: (Chromaticity Coordinate)				x: 0.4253		y: 0.3934	
				u': 0.2476		v': 0.5154	
				duv: 0.00265			
Renk Sıcaklığı - Kelvin: (CCT: Colarated Color temprature - Kelvin)				Renksel Geri Verim: (CRI: Color Render Index)			
3117				84			
R1	R2	R3	R4	R5	R6	R7	R8
83	90	95	83	83	87	85	66
R9	R10	R11	R12	R13	R14	R15	R15ort
20	76	83	73	84	97	77	78.8
% RGB oranları (% RGB Ratio)				S/P:			
%R: 22.5		%G: 75.1		%B: 2.4		1.3742	
Ld:Baskın Dalga boyu -nm: (Ld:dominant wavelength - nm)				Lp:Tepe Dalga boyu -nm: (Lp:Peak wavelength - nm)			
583.4				607			
Spektral Bant Genişliği -nm: (Spectral Bandwidth -nm)				% Renk Safılık oranı : (% Color Purity)			
144.7				45.7			
Fe - Watt:				Scotopic:			
0.62663				271.21			
Eff (PPF) (400-700nm) µmol/s /W				(Fluorescent eff.):			
0.74				53.78			
Yayılan fotonların akışı - µmol/s (Flux of emitted photons)				Beyaz ve mavi Işık Oranı (Fluo. and blue light ratio)			
3.0361				7.587			
Foton Sayısı (400 - 500nm) µmol/s: Photons1 (400 - 500nm) µmol/s				Foton Sayısı (600 - 700nm) µmol/s: Photons2 (600 - 700nm) µmol/s			
0.3549				1.318			
Foton Sayısı (400-700nm) µmol/s: PPF (400-700nm): µmol/s				Işığın enerji miktarı: PRF(400-700nm) mW			
2.8911				602.33			



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



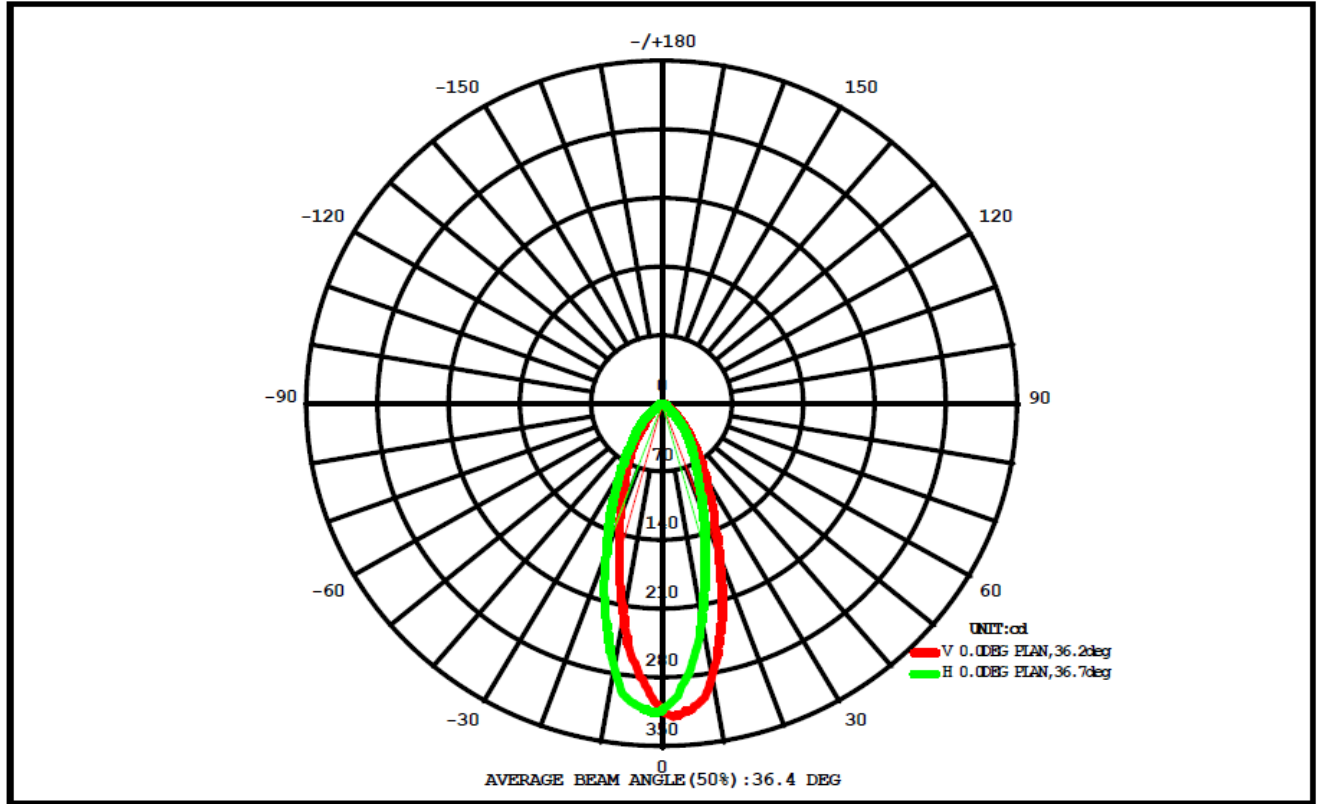


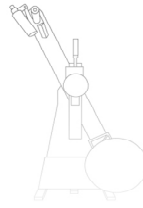
2.2 Gonyofotometre Sonuçları (Goniophotometer Measurement Results)

Işık Şiddeti (I max): Luminous intensity(Cd)	321	C: (C Range)	0-360 derece
Aydınlatma Çıkış Oranı: (LOR:Lighting Output Ratio)	100	Düzlemler arası açı adımı C: (C Interval)	10 derece
Ort. Işıma Açı: (Average Beam Angle)	36.4	Gama: (Gamma range)	0-180 derece
Ölçme uzaklığı: (Test Distance)	2.384	Düzlem içi açı adımı X: (X Interval)	1 derece

2.2.1 Işık Yeğirliği Polar Eğrisi

(Luminous Intensity Distribution Diagram)





2.2.2 Alan Akı Diagramı (Area Flux Diagram)

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT: lm		Φ t	Φ a							
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00							
90	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.11	0.00							
80	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.06	0.07	0.07	0.07	0.06	0.05	0.04	0.02	0.01	0.00	0.57	0.00							
70	0.00	0.00	0.01	0.03	0.05	0.09	0.13	0.17	0.21	0.23	0.21	0.17	0.12	0.08	0.04	0.02	0.01	0.00	1.58	0.00						
60	0.00	0.00	0.02	0.05	0.11	0.20	0.33	0.49	0.65	0.66	0.58	0.44	0.28	0.15	0.06	0.02	0.01	0.00	4.06	0.14						
50	0.00	0.01	0.03	0.08	0.18	0.41	0.74	1.16	1.44	1.45	1.20	0.87	0.55	0.26	0.10	0.03	0.01	0.00	8.53	5.64						
40	0.00	0.01	0.03	0.11	0.29	0.69	1.27	1.97	2.52	2.72	2.31	1.49	0.85	0.40	0.14	0.04	0.01	0.00	14.9	13.0						
30	0.00	0.01	0.04	0.13	0.39	0.94	1.86	3.24	4.71	5.12	4.03	2.40	1.19	0.52	0.18	0.05	0.01	0.00	24.8	23.3						
20	0.00	0.01	0.04	0.14	0.45	1.13	2.43	4.57	7.45	8.35	6.02	3.17	1.52	0.62	0.20	0.05	0.01	0.00	36.2	34.9						
10	0.00	0.01	0.04	0.14	0.44	1.19	2.52	4.82	8.05	9.08	6.37	3.26	1.59	0.65	0.20	0.05	0.01	0.00	38.4	37.2						
0	0.00	0.01	0.03	0.12	0.39	1.06	2.10	3.75	5.89	6.54	4.77	2.67	1.40	0.59	0.18	0.04	0.01	0.00	29.6	28.3						
-10	0.00	0.01	0.03	0.09	0.29	0.80	1.54	2.46	3.43	3.68	2.92	1.85	1.07	0.43	0.13	0.04	0.01	0.00	18.8	17.4						
-20	0.00	0.01	0.02	0.07	0.18	0.46	0.95	1.47	1.82	1.83	1.51	1.12	0.65	0.26	0.09	0.03	0.01	0.00	10.5	8.54						
-30	0.00	0.00	0.02	0.04	0.10	0.22	0.42	0.68	0.89	0.94	0.83	0.59	0.32	0.15	0.06	0.02	0.01	0.00	5.31	1.30						
-40	0.00	0.00	0.01	0.03	0.06	0.10	0.18	0.28	0.36	0.39	0.34	0.25	0.14	0.07	0.04	0.02	0.01	0.00	2.27	0.00						
-50	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.10	0.13	0.14	0.13	0.09	0.06	0.04	0.02	0.01	0.00	0.00	0.91	0.00						
-60	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.38	0.00						
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00						
-80	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	0.01	0.08	0.34	1.08	3.01	7.40	14.6	25.3	37.7	41.3	31.4	18.5	9.84	4.29	1.50	0.44	0.12	0.01	197	---						
Φ a	0.00	0.00	0.00	0.00	0.00	4.61	12.6	23.4	35.8	39.3	29.3	16.4	7.44	0.99	0.00	0.00	0.00	0.00	---	170						

one-half-peak spread: U:19.8,D:17.2 , L:17.8,R:18.7

NEMA Beam Type: Type 5

Açıklamalar (Descriptions)

Luminous Intensity: Işık Şiddeti.

Unit: Birim.

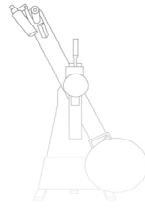
Y: Gama.

Zone: Bölge.

Total: Toplam.

Lamp: Lamba.

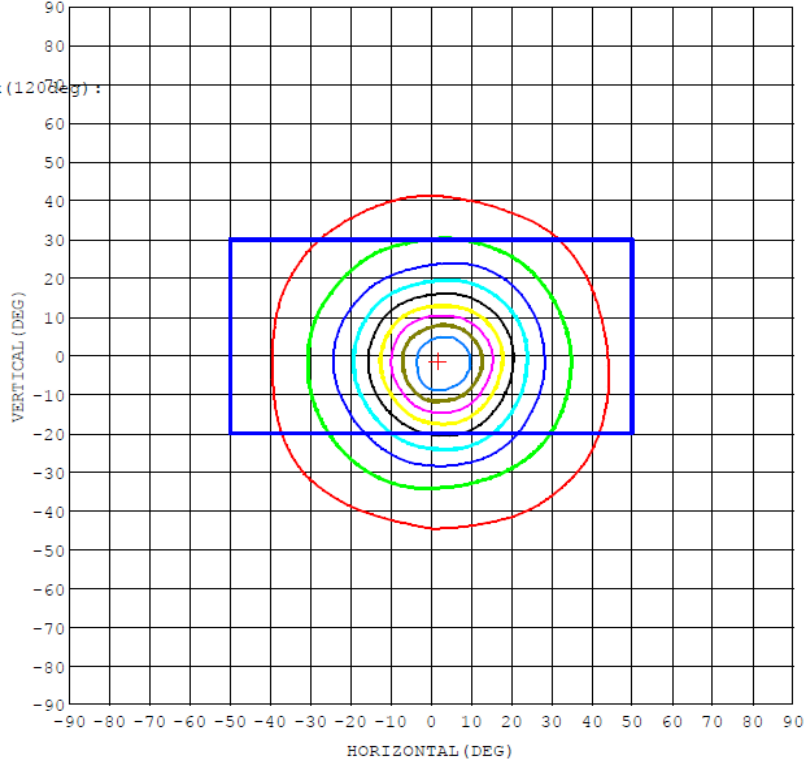
Degree: Derece.



2.2.3 Isocandela Diyagramı (Isocandela Diagram)

Conical surface Flux(90deg):
175 lm
%lum = 88.6%
%lamp = 88.6%

Conical surface Flux(120deg):
192.18 lm
%lum = 97.3%
%lamp = 97.3%

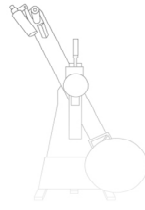


Açıklamalar (Descriptions)

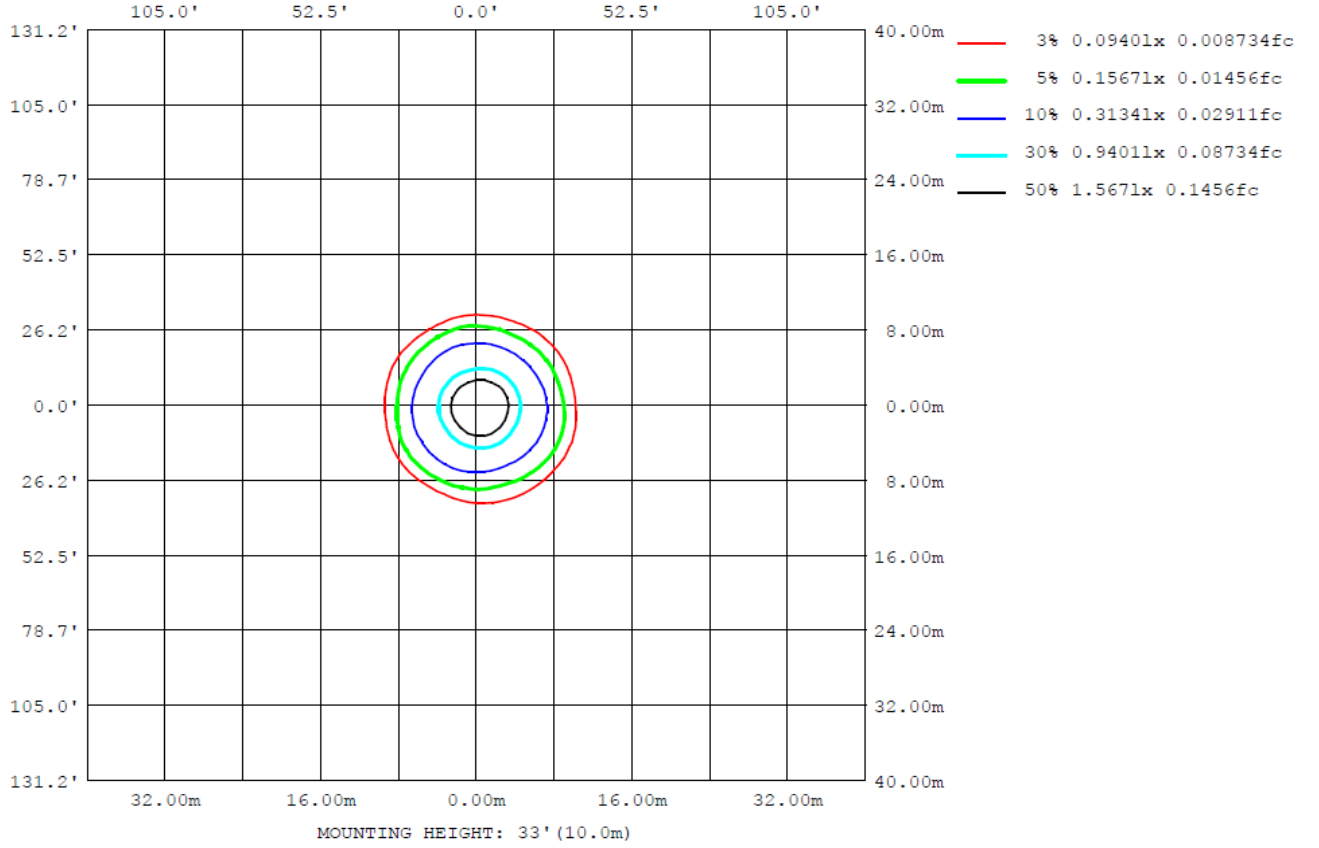
Conical surface Flux: Konik yüzey Akısı.

Vertical: Dikey.

Horizontal: Yatay.

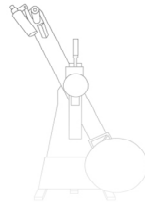


2.2.4 Isolux Diyagramı (Isolux Diagram)

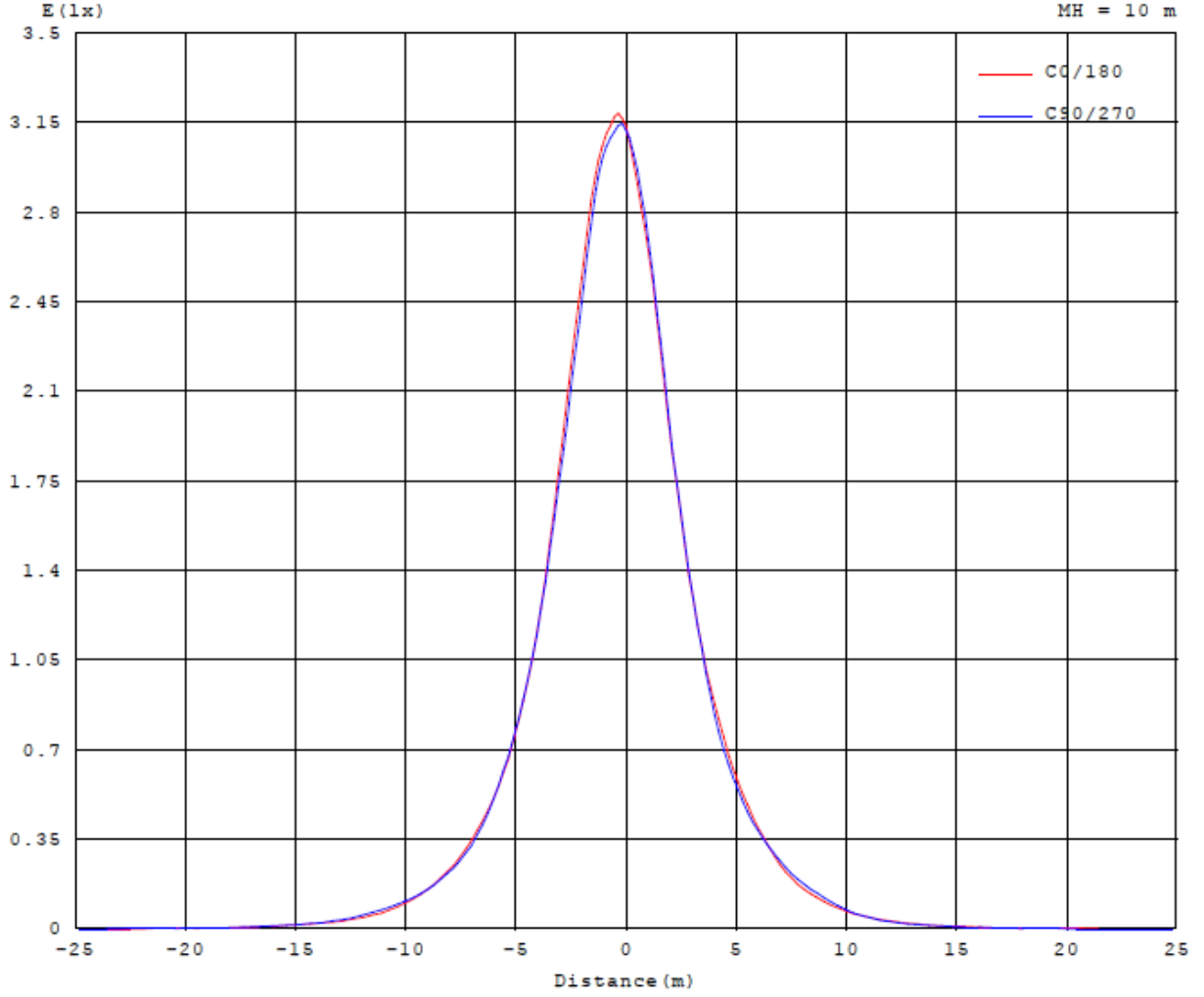


Açıklamalar (Descriptions)

Mounting Height: Montaj Yüksekliği.



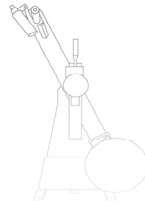
2.2.5 Işık Yeğirliğı Kartezyan Eğrisi (Planar Illuminance Curve)



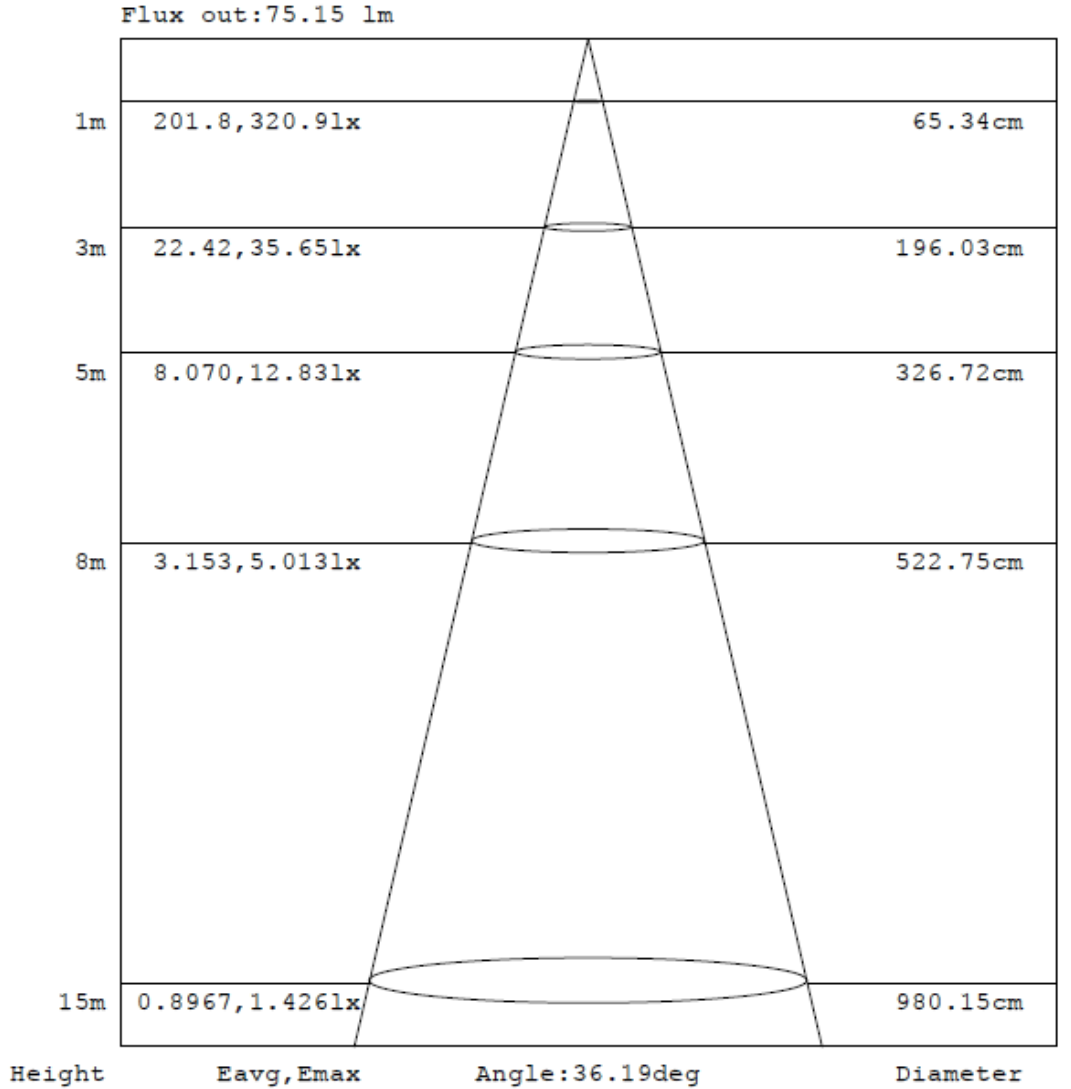
Açıklamalar (Descriptions)

MH: Mounting Height: Montaj Yüksekliğı.

Distance: Mesafe.



2.2.6 Aydınlık Şeması (Illuminance Diagram)



Açıklamalar (Descriptions)

Flux Out: Akı (Lümen) Çıkışı.

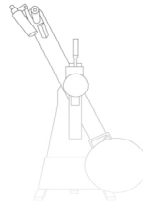
Height: Yükseklik.

Angle: Açı.

Diameter: Çap.

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

Not: Eğriler, aydınlatılmış alanı ve armatür farklı mesafede olduğunda ortalama aydınlatmayı gösterir.



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

Table--1

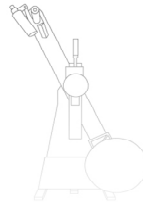
UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.02	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.09	0.07	0.06	0.05	0.03	0.03	0.02	0.02	0.02	0.02	0.02
-170	0.02	0.14	0.14	0.14	0.13	0.13	0.12	0.10	0.09	0.07	0.06	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02
-160	0.02	0.14	0.14	0.14	0.13	0.13	0.12	0.10	0.09	0.07	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02
-150	0.02	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02
-140	0.02	0.13	0.14	0.14	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.04	0.04	0.03
-130	0.02	0.13	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.11	0.10	0.09	0.09	0.09	0.07	0.04	0.07	0.07	0.05
-120	0.02	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.09	0.04	0.02	0.02
-110	0.02	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.12	0.10	0.12	0.15
-100	0.02	0.10	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.12	0.10	0.13	0.15
-90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
-80	0.02	0.02	0.02	0.04	0.11	0.15	0.20	0.22	0.26	0.29	0.34	0.38	0.43	0.48	0.53	0.58	0.61	0.65	0.68
-70	0.02	0.02	0.08	0.18	0.27	0.39	0.50	0.66	0.83	0.98	1.16	1.36	1.57	1.71	1.84	2.04	2.28	2.50	2.69
-60	0.02	0.02	0.17	0.32	0.50	0.71	0.98	1.29	1.62	1.97	2.24	2.62	3.20	3.82	4.60	5.36	6.01	6.69	7.29
-50	0.02	0.05	0.23	0.47	0.75	1.10	1.53	2.00	2.50	3.29	4.54	5.87	7.74	9.88	12.1	14.3	16.8	19.1	20.9
-40	0.02	0.11	0.33	0.62	1.02	1.52	2.11	2.84	4.32	6.17	8.54	12.2	17.1	22.8	29.0	34.4	38.8	42.0	43.4
-30	0.02	0.14	0.42	0.77	1.30	1.92	2.73	4.29	6.73	10.1	16.0	24.9	35.9	45.5	55.5	65.7	76.1	83.1	86.6
-20	0.02	0.15	0.47	0.90	1.53	2.22	3.63	5.79	9.60	15.3	24.4	38.0	51.0	65.9	81.0	104	128	150	164
-10	0.02	0.16	0.51	1.00	1.69	2.55	4.38	7.23	11.9	18.5	30.1	45.3	63.4	84.2	112	149	193	242	276
0	0.02	0.16	0.52	1.05	1.73	2.72	4.86	7.66	12.7	20.3	31.0	46.2	67.4	91.9	122	167	223	276	313
10	0.02	0.16	0.51	1.03	1.73	2.71	4.71	7.32	12.0	19.5	28.9	40.9	58.5	78.0	103	135	172	207	227
20	0.02	0.15	0.47	0.95	1.63	2.49	4.22	6.50	9.64	15.4	23.5	32.4	42.4	56.0	69.1	85.7	99.8	113	121
30	0.02	0.13	0.41	0.83	1.42	2.11	3.36	5.35	7.59	10.1	15.4	21.9	28.8	36.0	44.8	53.1	58.5	61.5	64.3
40	0.02	0.10	0.31	0.67	1.16	1.69	2.44	3.56	5.04	6.57	8.40	11.3	14.6	17.7	21.6	27.1	31.5	34.5	34.9
50	0.02	0.04	0.21	0.47	0.84	1.29	1.66	2.17	2.79	3.61	4.36	5.18	6.12	7.38	8.55	9.52	10.5	11.2	11.7
60	0.02	0.02	0.15	0.27	0.47	0.78	1.08	1.33	1.50	1.68	1.83	2.06	2.35	2.60	2.98	3.30	3.63	3.95	4.20
70	0.02	0.02	0.06	0.11	0.19	0.26	0.38	0.51	0.60	0.62	0.64	0.68	0.75	0.82	0.87	0.94	1.02	1.08	1.12
80	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
100	0.02	0.10	0.13	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.13	0.12	0.12	0.13	0.13
110	0.02	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.12
120	0.02	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.12	0.11	0.07	0.03	0.02	0.02
130	0.02	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.12	0.10	0.09	0.05	0.03	0.04	0.05	0.04
140	0.02	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.14	0.13	0.12	0.10	0.09	0.07	0.03	0.04	0.04	0.03	0.03
150	0.02	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.12	0.10	0.08	0.07	0.06	0.03	0.04	0.03	0.02	0.02
160	0.02	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.10	0.08	0.07	0.06	0.04	0.02	0.02	0.02	0.02	0.02
170	0.02	0.14	0.14	0.14	0.14	0.13	0.13	0.12	0.10	0.08	0.07	0.06	0.04	0.03	0.02	0.02	0.02	0.02	0.02
180	0.02	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.09	0.07	0.06	0.05	0.03	0.03	0.02	0.02	0.02	0.02	0.02

Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey



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

Table--2

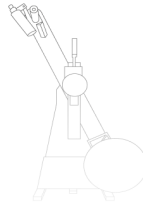
UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06	0.08	0.09	0.10	0.11	0.13	0.15	0.15	0.15	0.17	0.04	
-170	0.02	0.02	0.02	0.02	0.03	0.04	0.06	0.08	0.09	0.11	0.13	0.13	0.14	0.14	0.15	0.15	0.17	0.04	
-160	0.02	0.02	0.03	0.02	0.04	0.05	0.08	0.09	0.11	0.14	0.15	0.15	0.14	0.13	0.14	0.15	0.17	0.04	
-150	0.03	0.03	0.03	0.03	0.05	0.07	0.09	0.11	0.14	0.15	0.16	0.15	0.14	0.12	0.14	0.16	0.18	0.04	
-140	0.05	0.06	0.05	0.04	0.08	0.09	0.12	0.14	0.15	0.16	0.16	0.16	0.15	0.14	0.14	0.16	0.17	0.04	
-130	0.09	0.09	0.04	0.07	0.12	0.13	0.13	0.15	0.16	0.16	0.17	0.17	0.16	0.14	0.15	0.16	0.15	0.04	
-120	0.03	0.08	0.13	0.14	0.14	0.15	0.15	0.16	0.17	0.17	0.17	0.17	0.14	0.13	0.15	0.18	0.14	0.04	
-110	0.15	0.16	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.16	0.14	0.13	0.16	0.16	0.13	0.04	
-100	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.14	0.12	0.14	0.15	0.14	0.14	0.12	0.04	
-90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	
-80	0.70	0.70	0.69	0.68	0.65	0.61	0.57	0.50	0.46	0.39	0.35	0.28	0.22	0.13	0.02	0.02	0.02	0.04	
-70	2.70	2.66	2.45	2.21	1.98	1.79	1.66	1.54	1.39	1.24	1.07	0.93	0.78	0.58	0.40	0.09	0.02	0.04	
-60	7.33	7.16	6.68	5.94	5.15	4.39	3.70	2.90	2.32	1.95	1.62	1.40	1.21	0.97	0.64	0.37	0.02	0.04	
-50	21.2	20.6	18.7	16.0	14.1	11.4	8.63	6.40	4.67	3.37	2.50	1.92	1.53	1.26	0.94	0.51	0.05	0.04	
-40	42.7	40.1	37.6	34.6	30.9	24.2	17.7	12.8	8.73	6.21	4.20	2.67	1.96	1.46	1.13	0.64	0.13	0.04	
-30	85.2	80.1	71.3	60.4	51.9	44.1	35.0	23.9	14.8	9.42	6.26	3.93	2.41	1.68	1.27	0.78	0.22	0.04	
-20	166	154	131	104	81.1	63.3	49.8	37.1	23.2	13.6	8.40	4.99	2.91	1.91	1.34	0.86	0.29	0.04	
-10	271	243	194	146	108	80.2	60.2	44.1	29.1	17.0	10.5	6.04	3.49	2.03	1.40	0.90	0.34	0.04	
0	314	285	228	166	120	86.3	63.4	44.6	29.1	17.5	11.5	6.48	3.76	2.09	1.42	0.91	0.35	0.04	
10	227	208	174	135	102	75.5	54.2	37.9	26.2	16.7	11.0	6.09	3.60	2.04	1.39	0.88	0.34	0.04	
20	123	118	105	88.6	69.7	52.2	40.3	29.8	21.3	14.2	8.94	5.35	3.10	1.87	1.34	0.82	0.28	0.04	
30	65.1	61.7	56.0	47.7	40.4	34.3	27.7	21.4	15.0	10.2	6.39	4.19	2.48	1.65	1.22	0.71	0.20	0.04	
40	33.9	31.8	29.2	26.3	23.7	20.2	16.0	11.7	8.87	6.37	4.45	2.95	1.92	1.41	1.03	0.58	0.10	0.04	
50	12.1	12.3	12.1	11.4	10.2	8.66	7.35	6.08	4.84	3.86	2.70	1.93	1.46	1.17	0.82	0.46	0.04	0.04	
60	4.18	4.12	3.98	3.81	3.65	3.46	3.14	2.80	2.48	2.00	1.65	1.34	1.11	0.84	0.54	0.34	0.02	0.04	
70	1.12	1.10	1.11	1.09	1.09	1.07	1.06	1.02	0.97	0.90	0.84	0.69	0.54	0.45	0.27	0.05	0.02	0.04	
80	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.04	0.02	0.02	0.02	0.02	0.04	
90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.04	
100	0.09	0.05	0.09	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.13	0.14	0.14	0.13	0.13	0.12	0.04	
110	0.09	0.06	0.10	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.13	0.04	
120	0.02	0.03	0.07	0.10	0.10	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.16	0.13	0.04	
130	0.05	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.14	0.04	
140	0.03	0.03	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.12	0.13	0.14	0.14	0.15	0.15	0.15	0.17	0.04	
150	0.02	0.03	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.15	0.15	0.17	0.04	
160	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.13	0.14	0.15	0.15	0.15	0.17	0.04	
170	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06	0.08	0.10	0.11	0.12	0.14	0.15	0.15	0.15	0.17	0.04	
180	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06	0.08	0.09	0.10	0.11	0.13	0.15	0.15	0.15	0.17	0.04	

Açıklamalar (Descriptions)

Horizontal: Yatay

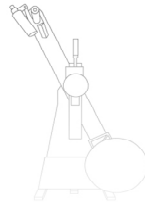
Vertical: Dikey



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-002	Integrating Sphere 2 m.	G121960CF1341163D	12.04.2019
LAB-004	Power Meter	G103508CD1331128	26.06.2019
LAB-006	AC Power Supply	G119885CF1341123	26.06.2019
LAB-022	Standard light source (sphere)	G100283CA1341240	17.04.2019
LAB-025	Auxiliary lamp (sphere)	001	17.04.2019
LAB-059	Sphere termokupl	13200840	24.04.2018
LAB-021	Standard light source(gonio)	M119805CN1331115	17.04.2019
LAB-027	Full field speed goniophotometer	0110133CA1341113	12.04.2019
LAB-032	Gonio termokupl	001	03.04.2018
LAB-030	AC Power Supply	G120984CF1341115	26.06.2019
LAB-031	Power Meter	G103508TO1331122	26.06.2019
LAB-024	Scales	1704254	03.04.2018
LAB-008	analog meter	ŞM-1555	23.08.2017



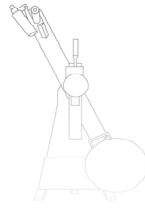
3.2 Kritik Komponent Listesi (Critical Components List)

MIRA

Komponent Listesi / list of Component				
Sıra No	Komponent Adı	Marka / Model	Seri No:	Teknik Özellikleri
1	LED	NICHIA / 219C		3V 4000K
2	DRIVER	TEXRUN / MINI 4W		4W 350mA
3	LENS	TURLENS / 3 IN 1 3B25D		25 DERECE
4				
5				
6				
7				
8				
9				
10				

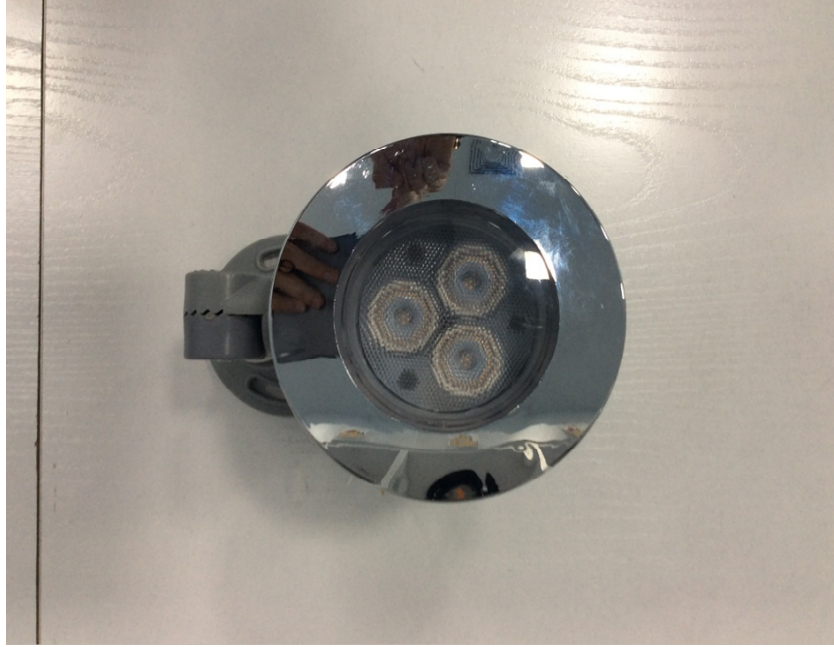
Firma Yetkili Ad Soyad / Kaşe / İmza / Tarih

Serkan Taylan 13/09/2019
BAYTAS KAYIŞINLI
HAYAT PROJE TEAM SAN. VE TİC. LTD. ŞTİ.
Sicil No: 271100, Mersis: 08030012711000001
Tic. Sicil No: 271100, Mersis: 08030012711000001
Tel: 0312 455 75 75, 0312 455 75 75
Sicil No: 271100, Mersis: 08030012711000001



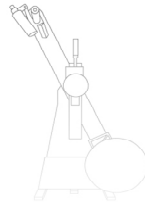
3.3 Ürün Fotoğrafları (Photos of Test Items)

3.3.1 Ön Görünüm (Front view)



3.3.2 Yan Görünüm (Side view)

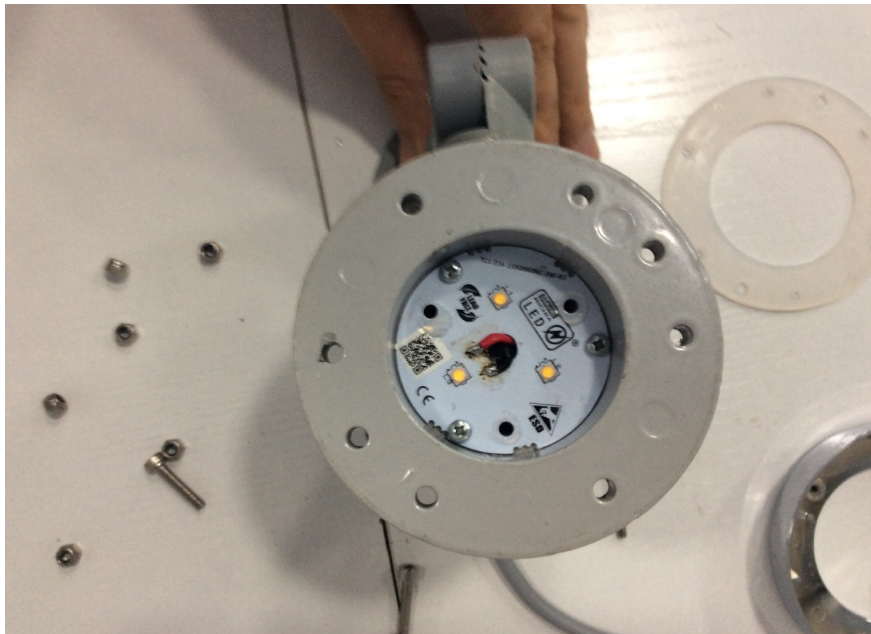


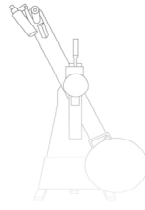


3.3.3 Üst Görünüm (top view)



3.3.4 Arka Görünüm (back view)





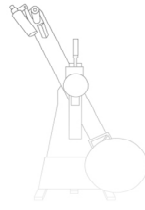
3.3.5 Komponentler (Components)



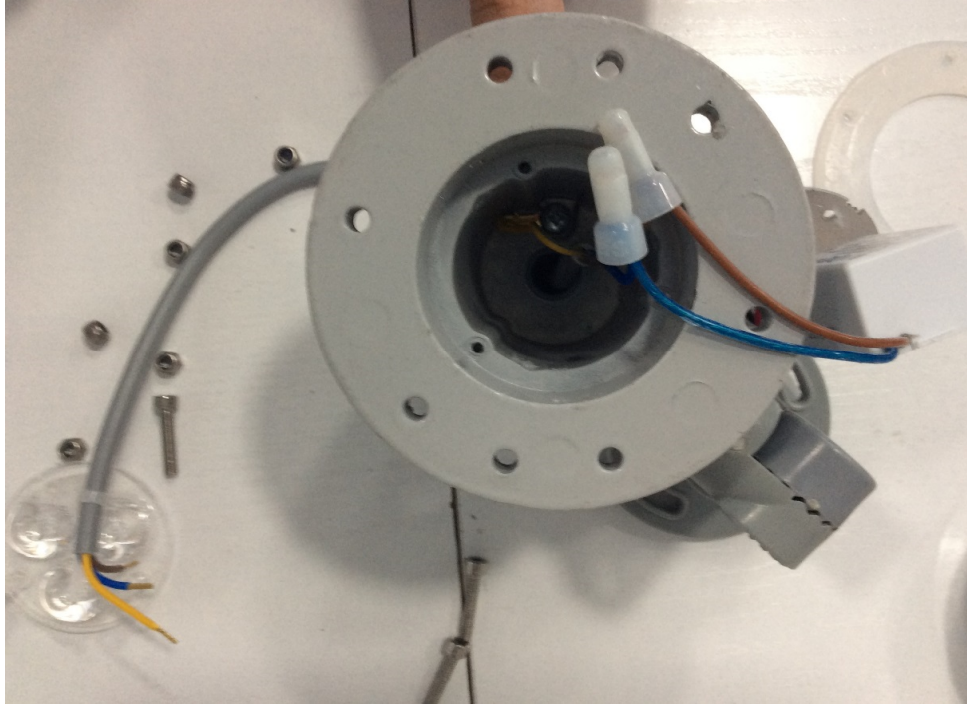
3.3.6 Görünüm (view)



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



3.3.8 Görünüm (view)

