



DENEY RAPORU TEST REPORT

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

ANKARA

Tel. 0312 351 76 86

Müşterinin Adı / Adresi:
(Customer Name / Address)

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

Talep Numarası:
(Order No)

190822-01/R1

Ürünün Adı ve tarifi:
(Name and Identity of Test Item)

Sıva üstü projektör (Nero)
Surface mounted projector (Nero)

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

08.09.2019

Deney Tarihi:
(Date of Test)

10.09.2019

Açıklamalar:
(Comments)

Numuneye IESNA LM 79-08 standardı uyarınca testler uygulanmıştır.
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. İnalton

Laboratuvar Müdürü

Head of Testing Laboratory

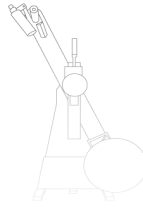
A. İnalton

Mühür / Seal

Ayhan İNALTUN

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 (DOCUMANTATION)

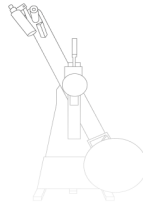
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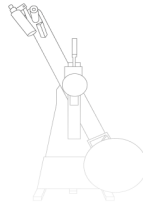


1.3 Ürün Bilgileri (Information of Test Item)

Ürünün Adı: (Name of Test Item)	Nero projektör Nero projector
Marka / Model: (Mark / Model)	Bayled / Nero
Ürünün Tanımı / Tipi: (Product description / Type)	Sıva üstü projektör. Surface mounted Projector.
Sürücü Tipi / Modeli: (Model of Driver)	Meanwell APC-16-350 16W 350mA
Seri No: (Serial Number)	-
Ürünün Boyutları / cm: (Product dimensions / cm)	Uzunluk / Çap: 14.6 (length / diameter) Genişlik: 36 (Width) Yükseklik: 7 (height)
Ürünün Ağırlığı / kg: (Product weight / kg)	1.66
IP Sınıfı: (IP Class)	-

1.4 Çevre Şartları (Environmental Conditions)

Sıcaklık - °C: (Temperature - °C)	25.7
Nem: (Humidity)	33
Hava Akımı - m/s: (Air flow - m/s)	0.1



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100919AI01
10092019

1.5 Deney Standartları (Test Standard)

Deneyler aşağıdaki standartlara göre yapılmıştır.

(The tests were performed according to following standards)

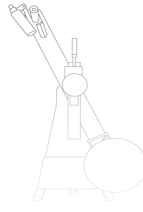
IESNA LM 79-08	Katı Hal Aydınlatma Ürünlerinin Elektriksel ve Fotometrik Ölçümleri. Electrical and Photometric Measurements of Solid-State Lighting Products.
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1.6 Belirsizlik Açıklamaları (Uncertainty Explanations)

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%.)

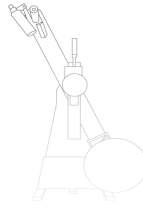


1.7 Elektriksel Ölçüm Sonuçları (Electrical Measurement Results)

Gerilim - Volt (Voltage - Volt)	Akım - Amper (Current - Amper)	Güç - Watt (Power - Watt)	Güç Faktör (Power Factor)
220	0.0919	8.248	0.4072

1.8 Ölçüm Sonuçları Özeti (Measurement Results Summary)

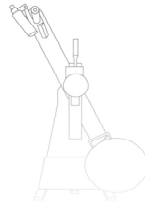
Işık Akısı - Lümen: (Luminous Flux - Lumen)	730.9
Işık Şiddeti - Kandela: (Luminous Intensity - Candela)	2846
Ortalama Işıma Açısı: (Average Beam Angle)	25.6
Verimlilik - lm/w: (Efficiency - lm/w)	88.62
Renkssel Geri Verim / CRI: (CRI: Color Render Index)	78
Renk Sıcaklığı / Kelvin: (CCT: Colarated Color temprature / Kelvin)	4236
Test sırasında SSL ürünün yanma pozisyonu: (Burn position of SSL during testing)	Görsellere Bakınız.
Stabilizasyon süresi / dakika: (Stabilization time / Minute)	70
Stabilizasyon dahil olmak üzere ürünün toplam çalışma süresi (Total operating time of the product including stabilization)	100
Uygulanan düzeltme faktörleri: (Applied correction factors)	-



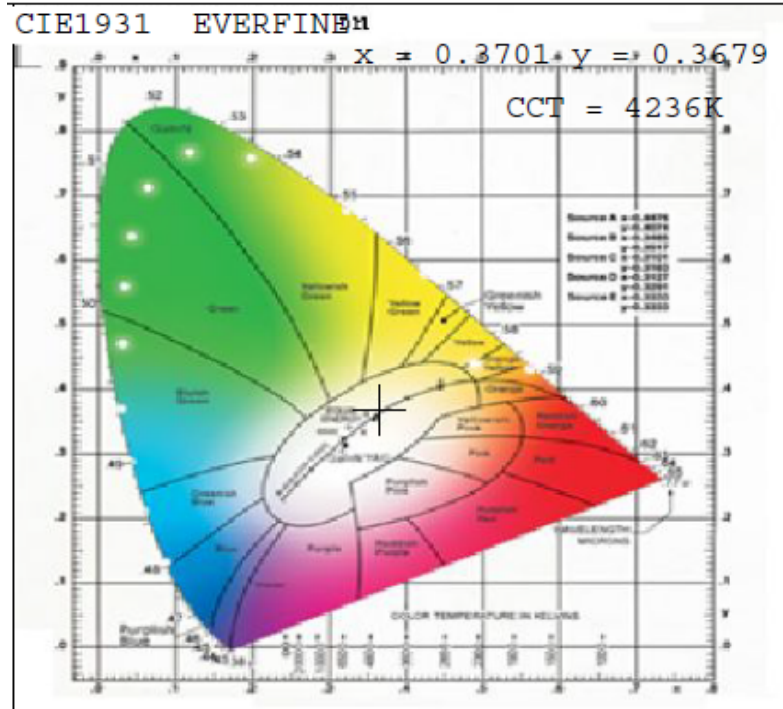
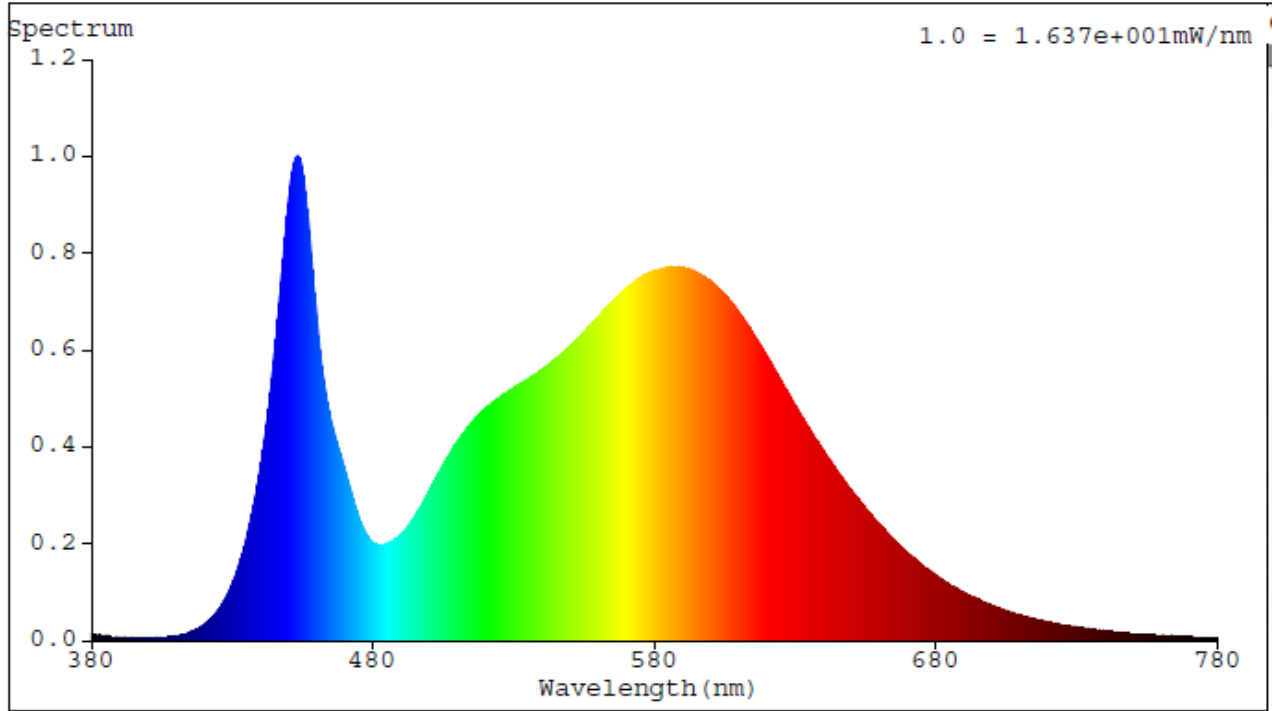
2. Deney Sonuçları (Test Results)

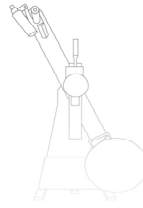
2.1 Entegre Küre Sonuçları (Integrating Sphere Measurement Results)

Renklilik Koordinatı: (Chromaticity Coordinate)				x: 0.3701		y: 0.3679	
				u': 0.2218		v': 0.4961	
				duv: -0.00101			
Renk Sıcaklığı - Kelvin: (CCT: Colarated Color temprature - Kelvin)				Renksel Geri Verim: (CRI: Color Render Index)			
4236				78			
R1	R2	R3	R4	R5	R6	R7	R8
75	86	93	75	76	80	82	56
R9	R10	R11	R12	R13	R14	R15	R15ort
0	67	72	53	78	97	69	70..6
% RGB oranları (% RGB Ratio)				S/P:			
%R: 16.9		%G: 79.5		%B: 3.6		1.7094	
Ld:Baskın Dalga boyu -nm: (Ld:dominant wavelength - nm)				Lp:Tepe Dalga boyu -nm: (Lp:Peak wavelength - nm)			
578.8				453			
Spektral Bant Genişliği -nm: (Spectral Bandwidth -nm)				% Renk Safılık oranı : (% Color Purity)			
20.2				21.5			
Fe - Watt:				Scotopic:			
2.0970				1207.5			
Eff (PPF) (400-700nm) µmol/s /W				(Fluorescent eff.):			
1.16				82.42			
Yayılan fotonların akışı - µmol/s (Flux of emitted photons)				Beyaz ve mavi Işık Oranı (Fluo. and blue light ratio)			
9.7463				3.886			
Foton Sayısı (400 - 500nm) µmol/s: Photons1 (400 - 500nm) µmol/s				Foton Sayısı (600 - 700nm) µmol/s: Photons2 (600 - 700nm) µmol/s			
1.899				3.035			
Foton Sayısı (400-700nm) µmol/s: PPF (400-700nm): µmol/s				Işığın enerji miktarı: PRF(400-700nm) mW			
9.5273				2059.7			



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



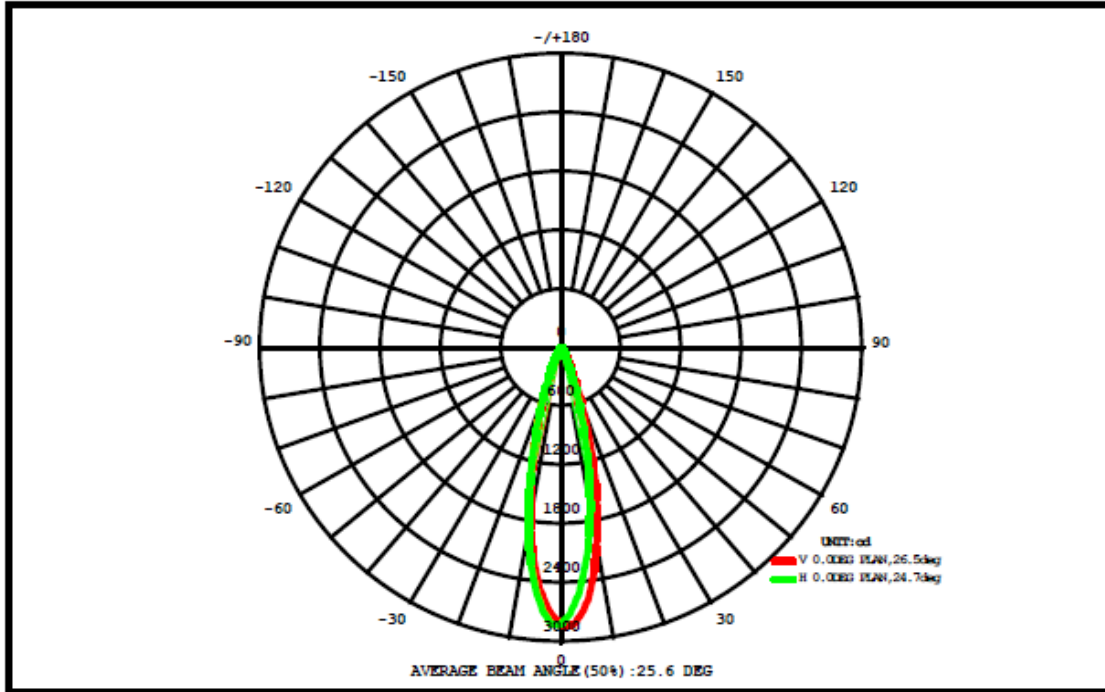


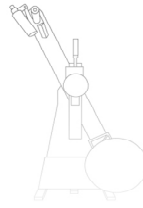
2.2 Gonyofotometre Sonuçları (Goniophotometer Measurement Results)

Işık Şiddeti (I max): Luminous intensity(Cd)	2846	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 Açısı: (Average Beam Angle)	25.6	Gama: (Gamma range)	0-180 derece
Ölçme uzaklığı: (Test Distance)	26	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(°)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90			
90	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.09	0.00			
80	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.24	0.00		
70	0.00	0.00	0.00	0.01	0.03	0.07	0.11	0.15	0.17	0.14	0.12	0.12	0.09	0.05	0.02	0.01	0.00	0.00	1.09	0.00		
60	0.00	0.00	0.01	0.04	0.10	0.18	0.27	0.34	0.37	0.35	0.31	0.29	0.20	0.12	0.05	0.02	0.00	0.00	2.65	0.00		
50	0.00	0.00	0.02	0.08	0.18	0.32	0.49	0.63	0.72	0.71	0.59	0.50	0.35	0.21	0.10	0.03	0.01	0.00	4.92	0.00		
40	0.00	0.00	0.03	0.12	0.27	0.51	0.87	1.29	1.62	1.62	1.19	0.86	0.56	0.31	0.15	0.05	0.01	0.00	9.45	0.00		
30	0.00	0.01	0.05	0.16	0.37	0.80	1.69	3.55	5.79	5.59	3.40	1.62	0.88	0.43	0.20	0.06	0.01	0.00	24.6	3.22		
20	0.00	0.01	0.06	0.20	0.48	1.21	3.59	12.2	26.4	26.5	13.8	3.58	1.31	0.55	0.24	0.08	0.02	0.00	90.2	75.8		
10	0.00	0.01	0.07	0.22	0.56	1.61	6.34	27.5	62.4	66.7	33.2	7.21	1.68	0.65	0.27	0.09	0.02	0.00	208	197		
0	0.00	0.01	0.07	0.23	0.58	1.69	6.70	28.7	65.9	70.6	34.5	8.12	1.93	0.66	0.28	0.10	0.02	0.00	220	208		
10	0.00	0.01	0.07	0.22	0.53	1.39	4.56	14.9	30.3	32.7	16.8	5.02	1.53	0.58	0.25	0.09	0.02	0.00	109	94.8		
20	0.00	0.01	0.06	0.18	0.43	0.97	2.30	5.00	7.94	8.32	5.18	2.34	1.00	0.46	0.20	0.07	0.02	0.00	34.5	10.7		
30	0.00	0.01	0.04	0.14	0.30	0.61	1.08	1.70	2.19	2.19	1.68	1.06	0.62	0.33	0.16	0.06	0.01	0.00	12.2	0.00		
40	0.00	0.01	0.03	0.09	0.20	0.36	0.56	0.73	0.84	0.84	0.72	0.56	0.38	0.22	0.11	0.04	0.01	0.00	5.70	0.00		
50	0.00	0.01	0.02	0.05	0.11	0.20	0.30	0.37	0.41	0.40	0.37	0.31	0.22	0.13	0.06	0.02	0.01	0.00	2.99	0.00		
60	0.00	0.00	0.02	0.03	0.05	0.08	0.12	0.16	0.18	0.18	0.16	0.13	0.10	0.06	0.03	0.02	0.00	0.00	1.32	0.00		
70	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.00	0.00	0.52	0.00		
80	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.20	0.00		
90	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	0.00	0.00		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90			
Φ t	0.01	0.11	0.56	1.81	4.24	10.1	29.1	97.3	205	217	112	31.8	10.9	4.78	2.15	0.75	0.17	0.02	728	---		
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	6.76	81.2	191	203	97.0	10.3	0.00	0.00	0.00	0.00	0.00	0.00	---	589		

one-half-peak spread: U:12.1,D:12.8 , L:13.5,R:13.2

NEMA Beam Type: Type 4

Açıklamalar (Descriptions)

Luminous Intensity: Işık Şiddeti.

Unit: Birim.

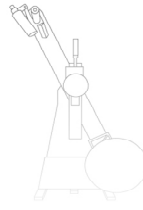
Y: Gama.

Zone: Bölge.

Total: Toplam.

Lamp: Lamba.

Degree: Derece.



2.2.3 Isocandela Diyagramı (Isocandela Diagram)

Conical surface Flux(90deg):

699.4 lm

%lum = 95.6%

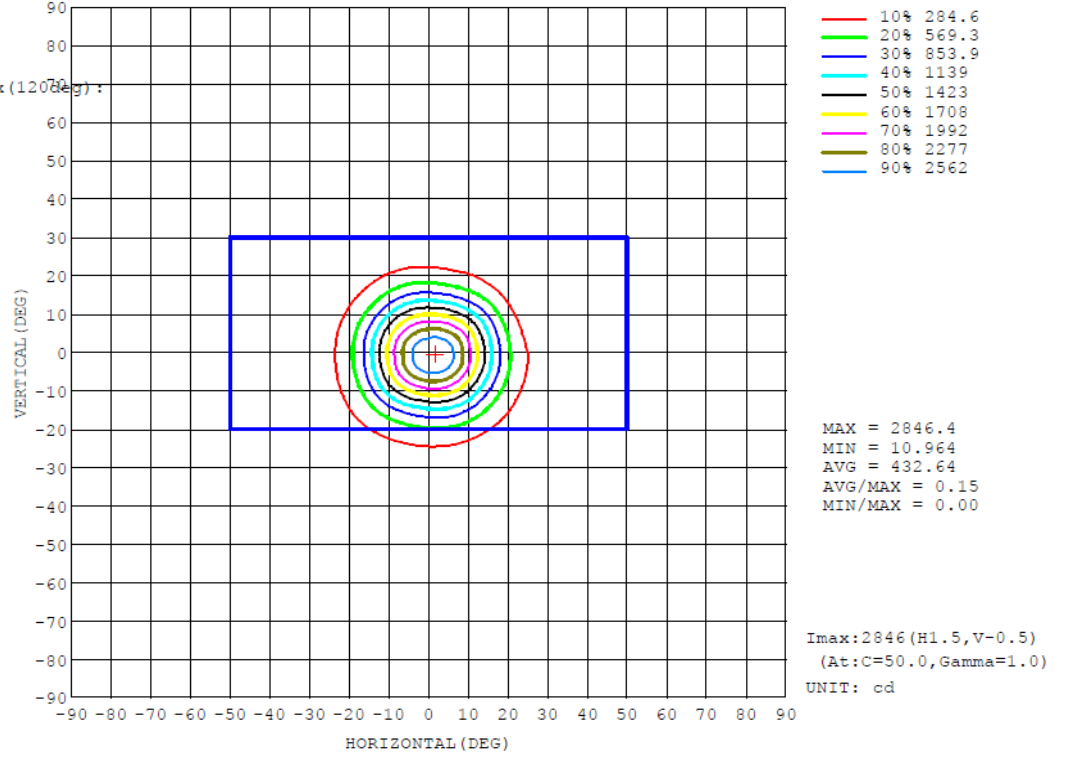
%lamp = 95.6%

Conical surface Flux(120deg):

720.69 lm

%lum = 98.5%

%lamp = 98.5%

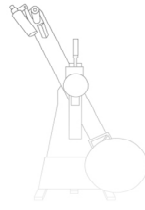


Açıklamalar (Descriptions)

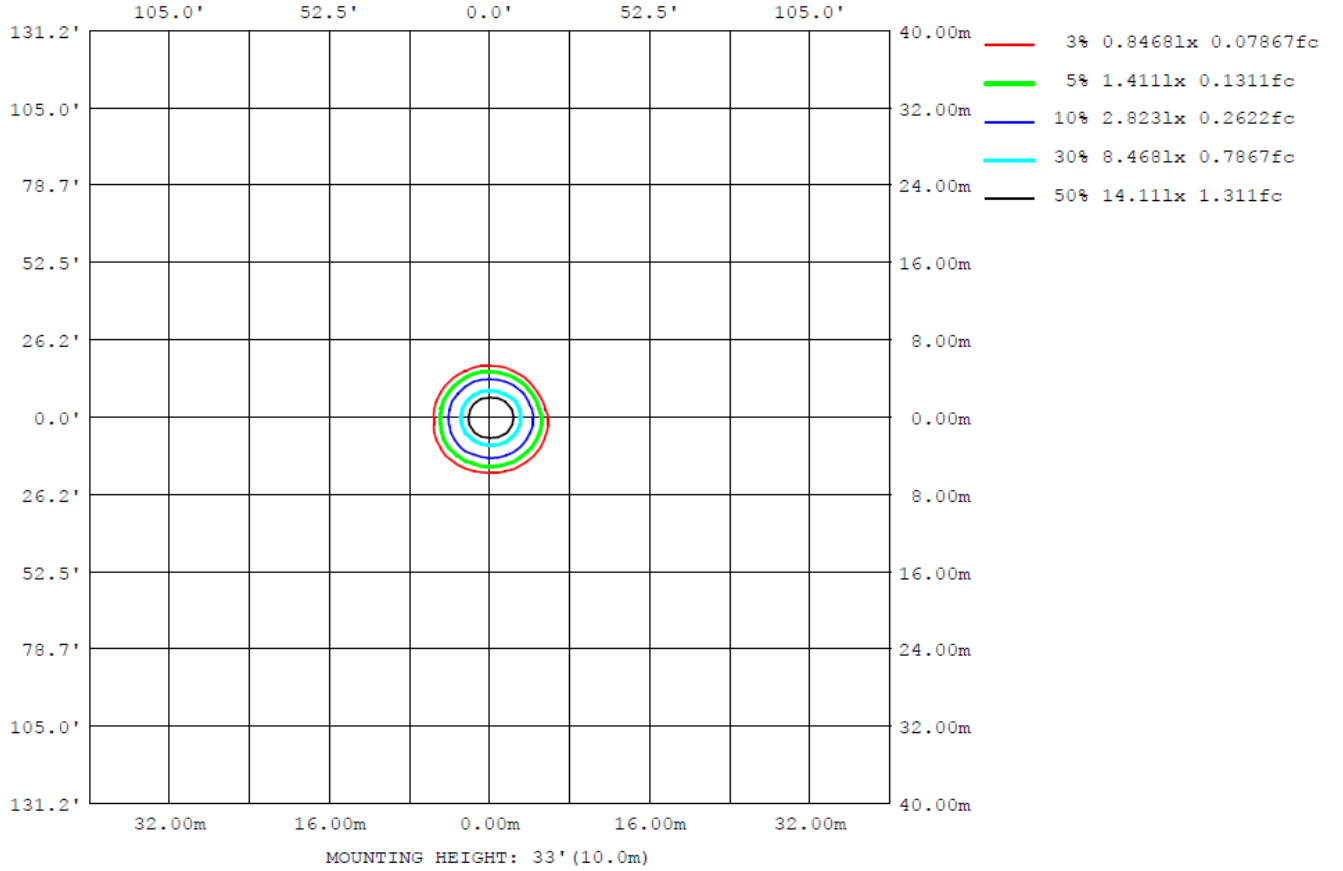
Conical surface Flux: Konik yüzey Akısı.

Vertical: Dikey.

Horizontal: Yatay.

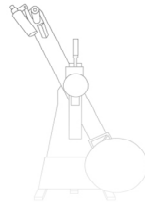


2.2.4 Isolux Diyagramı (Isolux Diagram)

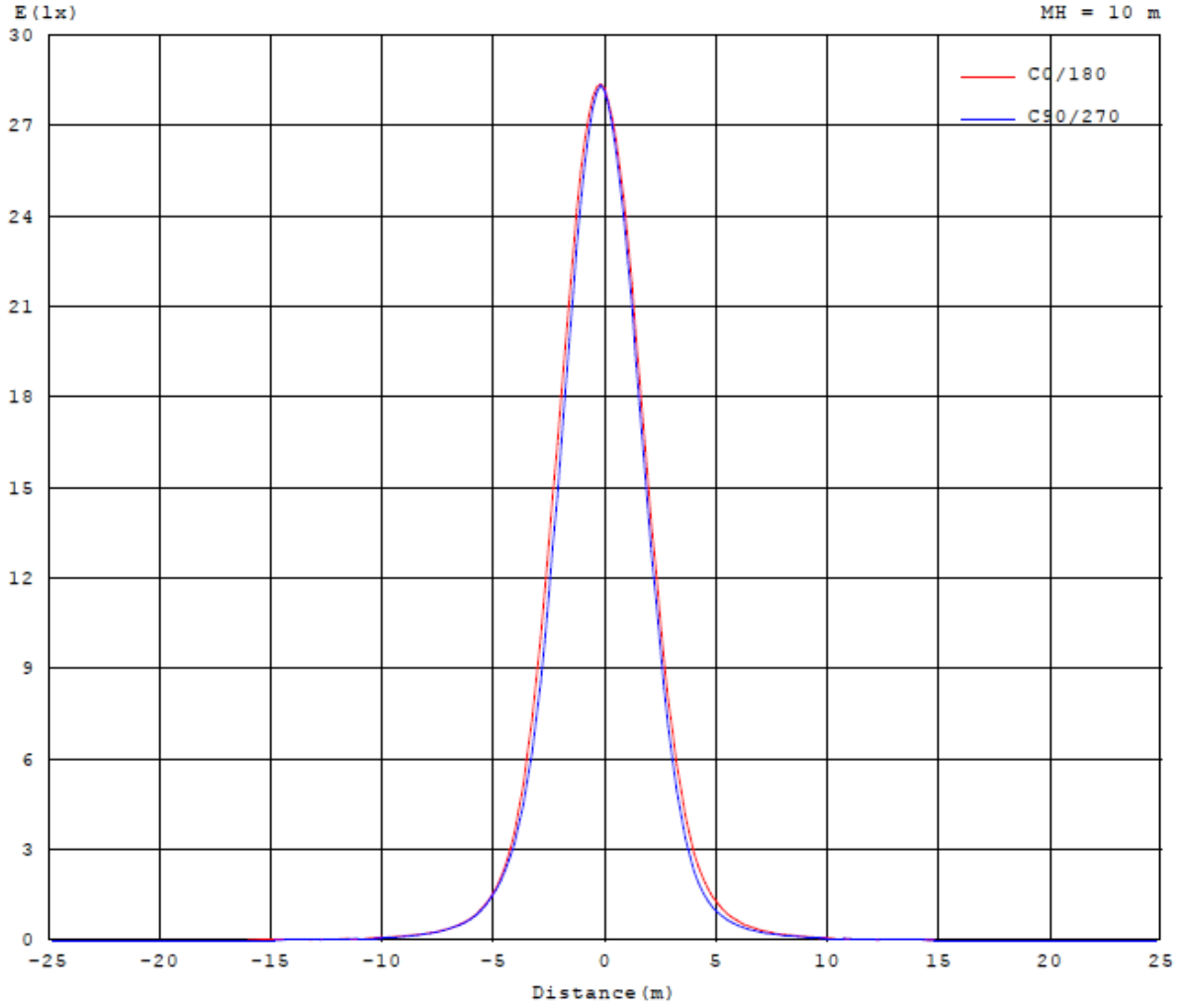


Açıklamalar (Descriptions)

Mounting Height: Montaj Yüksekliği.



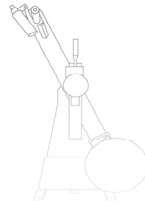
2.2.5 Işık Yeğiniği Kartezyan Eğrisi (Planar Illuminance Curve)



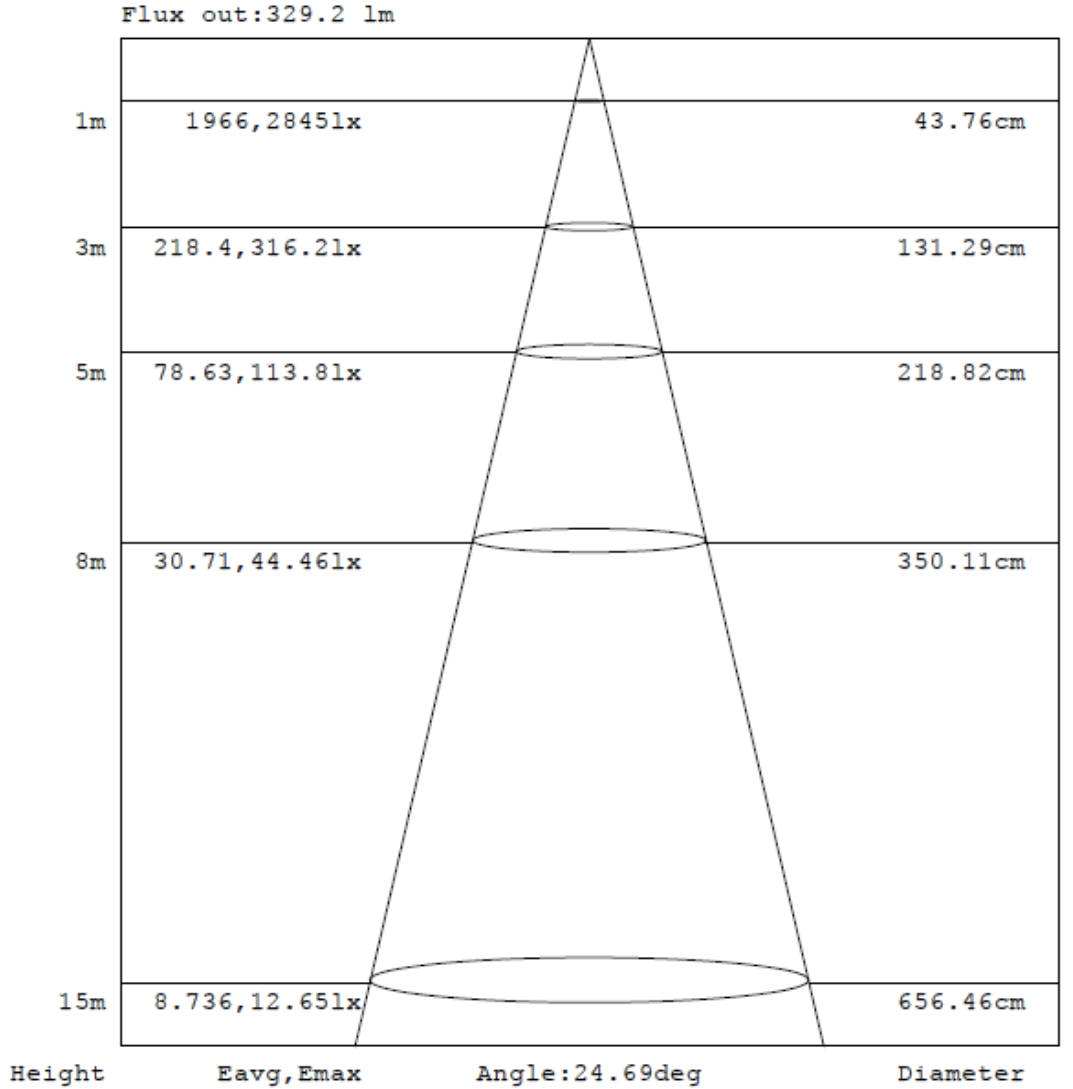
Açıklamalar (Descriptions)

MH: Mounting Height: Montaj Yüksekliği.

Distance: Mesafe.



2.2.6 Aydınlık Şeması (Illuminance Diagram)



Açıklamalar (Descriptions)

Flux Out: Akı (Lümen) Çıkışı.

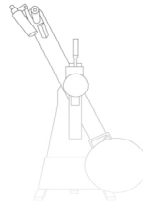
Height: Yükseklik.

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	0.31	0.31	0.31	0.31	0.31	0.31	0.39	0.39	0.39	0.46	0.62	0.85	1.31	2.16	3.08	3.08	3.08	3.08	1.79
-170	0.31	0.30	0.29	0.29	0.28	0.27	0.30	0.28	0.26	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.45	0.52	0.47
-160	0.31	0.30	0.28	0.27	0.25	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-150	0.31	0.29	0.27	0.25	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-140	0.31	0.28	0.26	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-130	0.31	0.28	0.25	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-120	0.31	0.28	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-110	0.31	0.27	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-100	0.31	0.27	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-90	0.31	0.27	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
-80	0.31	0.27	0.23	0.23	0.23	0.26	0.24	0.55	0.79	0.91	1.00	1.10	1.18	1.20	1.19	1.21	1.23	1.24	1.24
-70	0.31	0.27	0.24	0.25	0.69	0.98	1.21	1.33	1.46	1.64	1.90	2.05	2.29	2.59	2.76	2.87	2.98	3.07	3.11
-60	0.31	0.28	0.23	0.77	1.13	1.35	1.67	2.06	2.57	3.26	4.37	5.24	6.13	6.94	7.90	8.58	8.97	9.24	9.33
-50	0.31	0.28	0.39	1.09	1.38	1.83	2.54	3.72	5.61	7.28	8.96	10.7	12.9	15.0	16.3	17.5	18.1	18.6	18.7
-40	0.31	0.28	0.58	1.33	1.78	2.64	4.30	6.54	8.81	11.1	14.5	18.6	22.8	27.2	31.6	35.4	38.6	41.1	42.0
-30	0.31	0.27	0.69	1.22	2.14	3.79	6.11	8.96	12.1	16.6	22.7	30.4	41.2	54.3	72.6	92.4	112	124	131
-20	0.31	0.25	0.67	1.19	2.40	4.66	7.83	11.5	16.0	21.8	30.6	45.2	70.4	113	183	282	392	492	544
-10	0.31	0.24	0.57	1.11	2.48	4.86	8.63	13.2	18.1	25.5	37.0	59.1	104	197	377	746	1266	1698	1908
0	0.31	0.23	0.46	0.92	2.31	4.70	8.63	13.0	17.9	25.6	39.2	64.8	116	231	499	1031	1787	2478	2823
10	0.31	0.24	0.45	0.85	2.13	4.47	8.05	12.2	16.7	23.1	34.8	54.2	90.5	165	334	649	1122	1534	1691
20	0.31	0.25	0.42	0.74	1.78	3.81	6.81	10.3	14.2	19.3	26.8	38.3	55.4	83.1	129	204	308	394	410
30	0.31	0.27	0.33	0.63	1.31	2.88	5.16	7.98	11.0	14.5	19.3	25.0	32.6	41.7	53.1	66.0	78.5	87.5	90.1
40	0.31	0.28	0.23	0.47	0.81	1.73	3.40	5.44	7.87	10.2	12.7	15.9	19.6	23.1	26.7	29.2	31.4	33.1	33.8
50	0.31	0.28	0.23	0.35	0.51	0.84	1.66	2.97	4.59	6.18	8.05	10.1	11.9	13.3	14.6	15.6	16.3	16.9	17.1
60	0.31	0.28	0.23	0.23	0.33	0.47	0.72	1.17	1.75	2.66	3.75	4.62	5.68	6.66	7.43	7.90	8.19	8.40	8.52
70	0.31	0.27	0.24	0.23	0.23	0.26	0.37	0.45	0.53	0.69	0.95	1.25	1.65	1.87	2.19	2.47	2.64	2.68	2.63
80	0.31	0.27	0.23	0.23	0.23	0.26	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.27	0.36	0.39	0.38	0.35
90	0.31	0.27	0.23	0.23	0.23	0.27	0.31	0.31	0.31	0.31	0.31	0.27	0.23	0.23	0.23	0.23	0.23	0.23	0.23
100	0.31	0.27	0.23	0.23	0.23	0.28	0.31	0.31	0.31	0.31	0.31	0.27	0.23	0.23	0.23	0.23	0.23	0.23	0.23
110	0.31	0.27	0.24	0.27	0.35	0.31	0.31	0.31	0.31	0.31	0.31	0.28	0.24	0.23	0.23	0.23	0.23	0.23	0.23
120	0.31	0.28	0.24	0.29	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.25	0.23	0.23	0.23	0.23
130	0.31	0.28	0.25	0.34	0.31	0.31	0.31	0.31	0.31	0.31	0.34	0.34	0.31	0.31	0.34	0.31	0.31	0.31	0.31
140	0.31	0.28	0.29	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.34	0.41	0.37	0.33	0.36	0.39	0.39	0.39	0.40
150	0.31	0.29	0.33	0.31	0.31	0.31	0.31	0.31	0.33	0.39	0.42	0.50	0.48	0.65	0.78	0.93	0.74	0.74	0.62
160	0.31	0.30	0.33	0.31	0.31	0.31	0.31	0.31	0.39	0.39	0.55	0.63	0.78	1.04	1.57	2.11	2.28	2.08	1.79
170	0.31	0.30	0.31	0.31	0.31	0.31	0.34	0.33	0.39	0.41	0.55	0.83	1.13	1.73	2.18	2.87	3.05	2.78	2.95
180	0.31	0.31	0.31	0.31	0.31	0.31	0.39	0.39	0.39	0.46	0.62	0.85	1.31	2.16	3.08	3.08	3.08	3.08	1.87

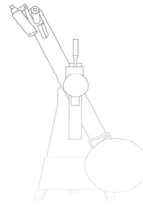
Açıklamalar (Descriptions)

Horizontal: Yatay

Vertical: Dikey

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

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

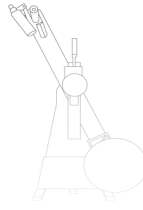
Table--2 UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	1.00	0.69	0.31	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-170	0.46	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-160	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-150	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-140	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-130	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-120	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-110	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-100	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-90	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
-80	1.24	1.24	1.26	1.27	1.20	1.13	1.10	1.05	0.93	0.81	0.65	0.32	0.25	0.23	0.23	0.23	0.23	0.23	
-70	3.16	3.14	3.06	2.95	2.77	2.54	2.27	1.99	1.81	1.59	1.42	1.30	1.11	0.73	0.28	0.23	0.23	0.23	
-60	9.28	9.01	8.57	8.08	7.32	6.51	5.80	5.02	4.16	3.09	2.36	1.92	1.52	1.26	0.87	0.24	0.23	0.23	
-50	18.5	17.9	17.2	16.4	15.3	13.7	11.7	9.66	7.97	6.40	4.78	3.09	2.17	1.65	1.31	0.44	0.23	0.23	
-40	40.9	38.3	34.5	31.0	26.7	23.0	19.1	15.5	12.3	9.71	7.61	5.51	3.26	2.19	1.47	0.91	0.23	0.23	
-30	126	113	93.5	72.5	54.0	40.7	30.5	23.2	17.7	13.3	10.1	7.48	4.82	2.79	1.77	1.15	0.25	0.23	
-20	535	435	297	190	119	74.5	48.0	33.0	23.5	17.3	12.6	9.08	6.02	3.47	1.95	1.25	0.28	0.23	
-10	1825	1420	876	446	222	118	66.7	41.2	27.7	20.2	14.9	10.5	6.83	4.02	2.16	1.30	0.30	0.23	
0	2681	2066	1283	623	280	134	73.9	44.5	30.9	21.8	16.0	11.3	7.11	4.25	2.24	1.31	0.31	0.23	
10	1591	1272	807	377	176	86.7	56.9	38.6	27.4	19.5	14.4	10.3	6.42	3.79	1.93	1.14	0.30	0.23	
20	373	304	210	122	76.3	61.3	42.8	30.2	22.0	16.4	12.3	8.69	5.14	3.04	1.50	0.94	0.28	0.23	
30	87.2	76.9	57.9	47.2	41.2	35.0	27.4	21.6	16.7	12.8	9.71	6.77	4.02	2.08	1.06	0.73	0.25	0.23	
40	33.3	29.1	26.2	24.1	23.3	20.8	17.4	14.3	11.6	9.33	6.90	4.62	2.77	1.37	0.70	0.49	0.23	0.23	
50	16.3	15.2	13.8	14.2	14.1	12.5	10.7	9.12	7.38	5.65	4.17	2.61	1.49	0.81	0.44	0.28	0.23	0.23	
60	7.71	6.87	6.84	7.02	7.23	6.56	5.53	4.59	3.63	2.53	1.71	1.20	0.74	0.47	0.26	0.24	0.23	0.23	
70	1.90	1.28	1.70	2.00	2.13	2.02	1.67	1.30	0.98	0.80	0.64	0.40	0.33	0.23	0.23	0.23	0.23	0.23	
80	0.27	0.24	0.34	0.42	0.43	0.41	0.33	0.28	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
90	0.23	0.23	0.23	0.23	0.27	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.27	0.23	0.23	0.23	
100	0.23	0.23	0.23	0.23	0.27	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.27	0.23	0.23	
110	0.23	0.23	0.23	0.24	0.28	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.26	0.23	0.23	
120	0.23	0.24	0.29	0.36	0.31	0.34	0.38	0.40	0.39	0.31	0.31	0.31	0.31	0.31	0.31	0.23	0.23	0.23	
130	0.26	0.25	0.30	0.35	0.41	0.39	0.39	0.39	0.39	0.39	0.35	0.31	0.31	0.31	0.31	0.26	0.23	0.23	
140	0.49	0.39	0.35	0.53	0.43	0.39	0.39	0.39	0.39	0.39	0.39	0.35	0.31	0.31	0.31	0.28	0.23	0.23	
150	0.62	0.73	0.79	0.71	0.70	0.59	0.55	0.39	0.39	0.39	0.39	0.39	0.36	0.31	0.29	0.27	0.23	0.23	
160	1.16	1.61	1.72	1.19	0.96	0.81	0.71	0.49	0.39	0.39	0.39	0.39	0.37	0.29	0.27	0.26	0.23	0.23	
170	1.77	2.67	2.39	1.91	1.54	1.05	0.79	0.54	0.38	0.36	0.34	0.32	0.30	0.26	0.25	0.24	0.23	0.23	
180	1.00	0.69	0.31	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	

Açıklamalar (Descriptions)

Horizontal: Yatay

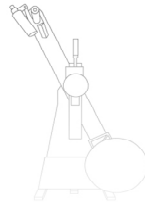
Vertical: Dikey



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

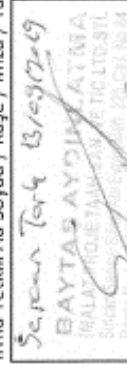


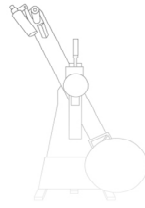
3.2 Kritik Komponent Listesi (Critical Components List)

NERO

Komponent Listesi / list of Component				
Sıra No	Komponent Adı	Marka / Model	Seri No:	Teknik Özellikleri
1	LED	NICHIA / NF2		6V İKİ ÇİPLİ 4000K
2	DRIVER	MEANWELL / APC-16-350		16W 350mA
3	LENS	TURLENS / 9 IN 1 9B30D		30 DERECE
4				
5				
6				
7				
8				
9				
10				

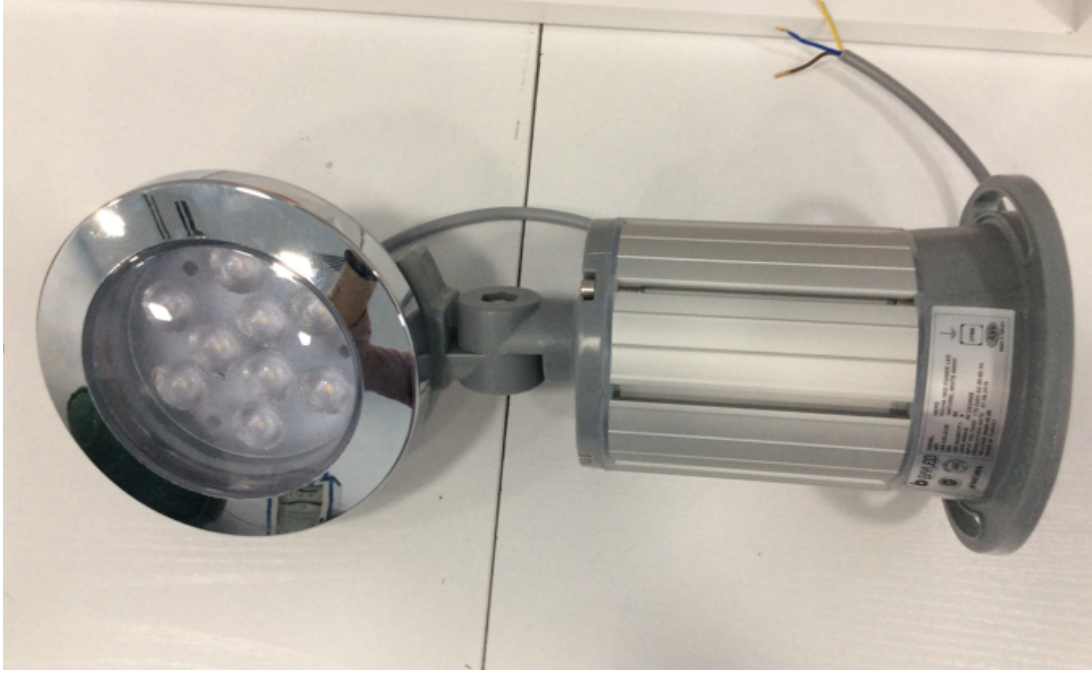
Firma Yetkili Ad Soyad / Kaşe / İmza / Tarih



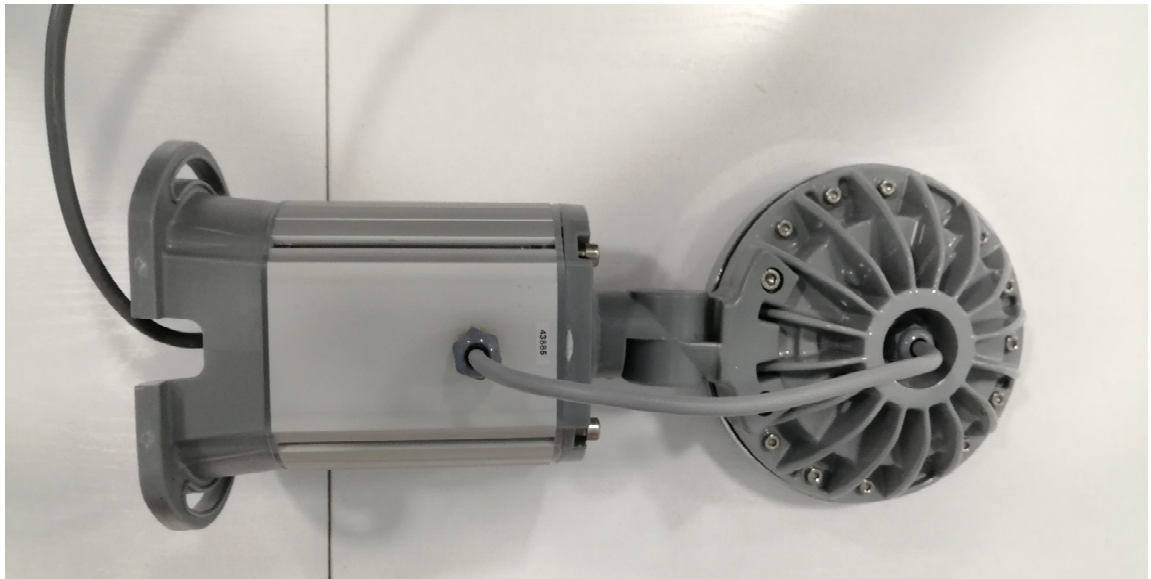


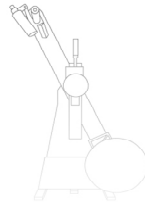
3.3 Ürün Fotoğrafları (Photos of Test Items)

3.3.1 Ön Görünüm (Front view)

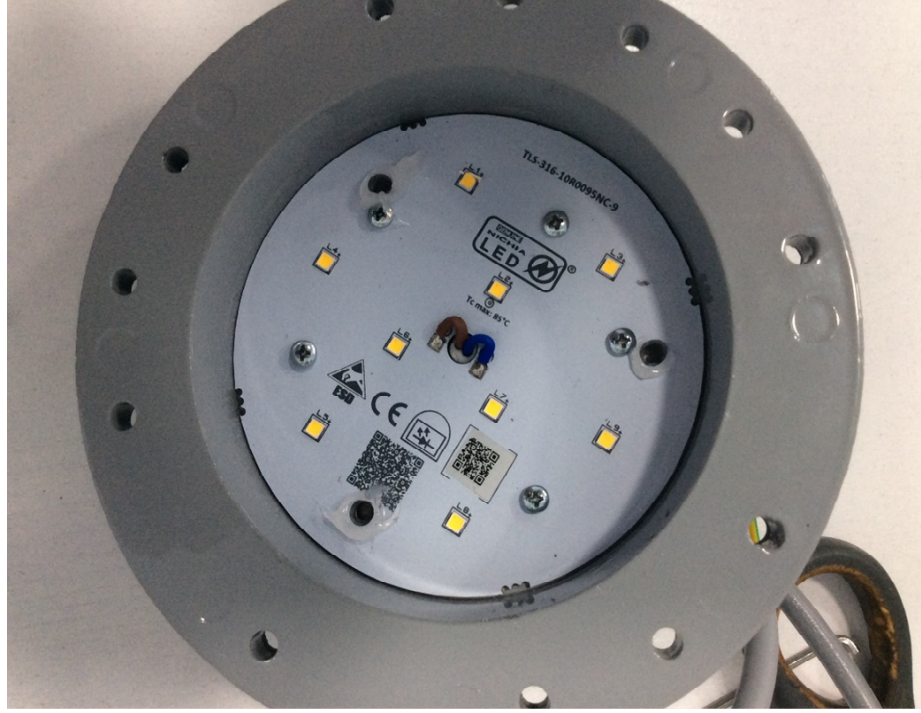


3.3.2 Yan Görünüm (Side view)



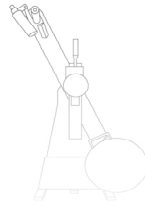


3.3.3 Üst Görünüm (top view)

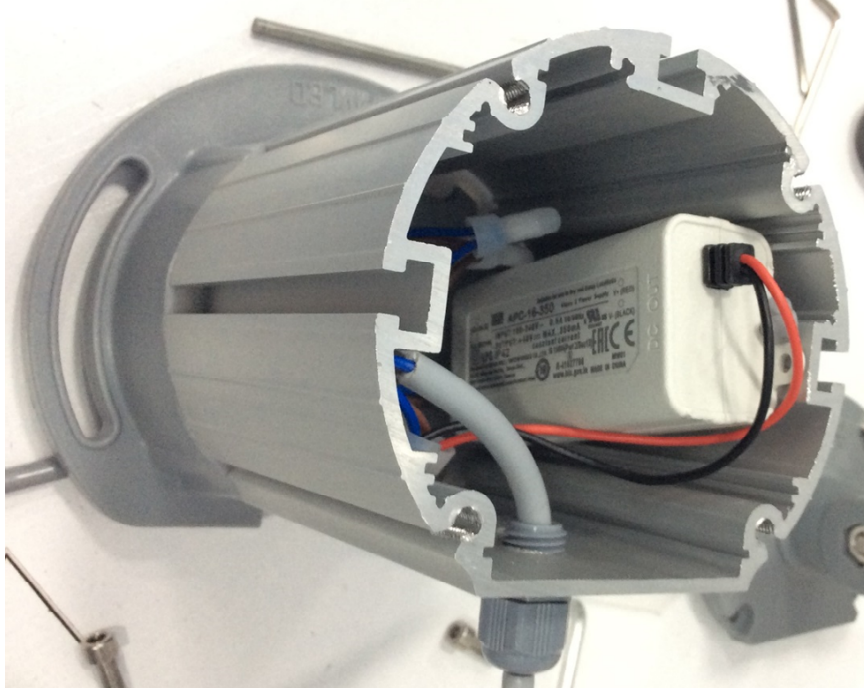


3.3.4 Arka Görünüm (back view)





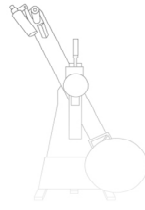
3.3.5 Komponentler (Components)



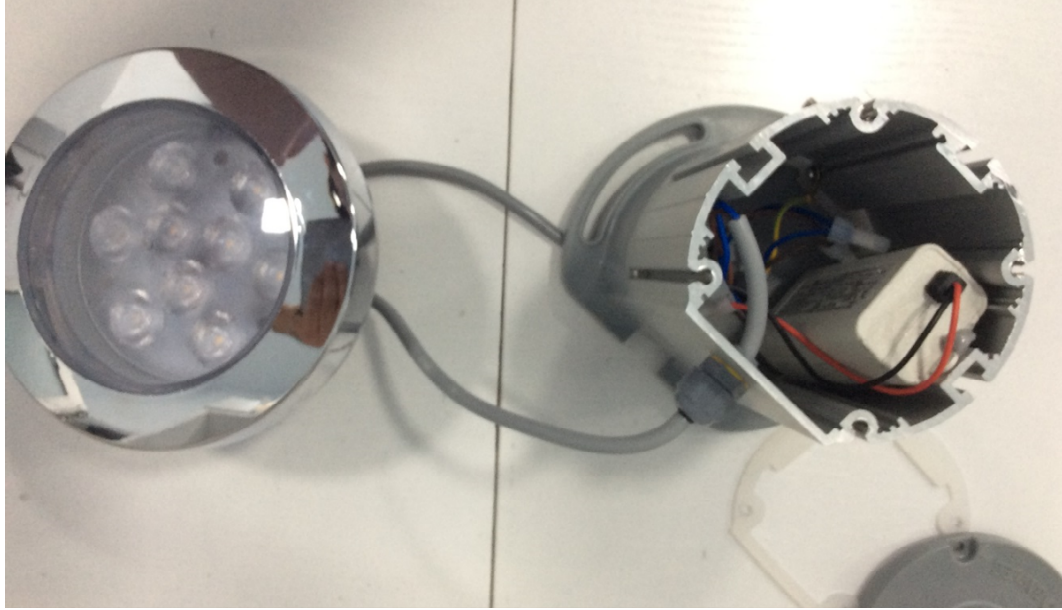
3.3.6 Görünüm (view)



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)

