



18/01/2016

Sayı/Issue: 18 01 16 SÖ 009/00

İlgi/Subject:

Interest on request, samples were sent to our laboratory for lighting fixtures, physical examination and tests. The following results were obtained.

Rapor Tarihi-Report Date / Rapor Numarası-Report Number/ Ticari Marka-TradeMark/Model-Type

18.01.2016 / 16-016 / ACG / Altiled7 Industrial Lighting

Numbers in above-mentioned report, the date of the inspection and test reports of the samples will be sent to our letter attached.

Best Regards,

Prof.Dr.Zafer UTLU

Laboratory Manager

EK/EKLER:

(ANNEX/ANNEXES)

Not: Muayene ve Deney amacı ile gönderilen numuneler, firma veya yetkilisi tarafından 30 gün içerisinde alınmadığı takdirde tasfiye edilecektir.

The samples are sent in order to inspection and test, will be liquidated if it will taken back within 30days by representative of company.

Bu raporda "TÜRKAK tarafından akredite" şeklinde işaretlenmiş muayene sonuçları AB-0815-T numaralı TÜRKAK Akreditasyon Sertifikasında detaylı olarak belirtilen kapsamla ilişkilidir.

İAÜ Florya Halit Aydın Kampüsü İnönü Cad. No:38 Beşyol mah. Küçükçekmece /
İSTANBUL Tel:(0212) 444 1 428 Dahili : 14630



MUAYENE VE DENEY RAPORU

TEST REPORT



IAU
16-016
18.01.2016

Deneyi Talep Eden : ACG MAKİNA ELEKTRİK ELEKTRONİK LTD. ŞTİ.
(Adı,Adresi,Şehir v.b.) Yeşilpark sitesi 58/3B Türkkonut Yenimahalle/ANKARA
Customer (Name,Address,City etc.)

Deney Talep Tarihi /No : 15.01.2016
Order Date /No

Numunenin Kabul Tarihi : 15.01.2016
Test Item Receipt Date

Deneylerin Yapıldığı Tarih : 15.01-18.01.2016
Date of Test

Uygulanan Standart /Metod : TS EN13032-1 (with IES-LM-79)
Applied Standart/Method

Raporun Sayfa Sayısı : 13
Number of Pages of the report

Açıklamalar :

Deney ve/veya ölçüm sonuçları,genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu raporun 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.

Mühür	Tarih	Deney Sorumlusu	Kontrol Eden	Onaylayan
Seal	Date	Person in charge of tests	Reviewer	Approved By
		Sercan ÖZKAN	Temel SÖNMEZOCAK	Prof.Dr.Zafer UTLU
		Lab. Tech.	Quality Manager	Lab. Manager

Bu rapor , hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Bu rapor , sadece deneyi yapılan numune için geçerlidir ve "Ürün Belgesi" yerine geçmez.

This test report shall not be reproduced other than in full except with the written permission of the laboratory .Test reports without signature and seal are not valid. This report represents only tested samples,and shall not be used as product Certificate.

İSTANBUL AYDIN ÜNİVERSİTESİ AYDINLATMA TEST-ÖLÇÜM ve ANALİZ LABORATUARLARI

(ISTANBUL AYDIN UNIVERSITY LIGHTING TEST MEASUREMENT AND ANALYSIS LABORATORIES)

MUAYENE – DENEY SONUÇLARI / TEST RESULTS**FOTOMETRİK ÖLÇÜM SONUÇLARI
PHOTOMETRIC MEASUREMNT RESULTS**

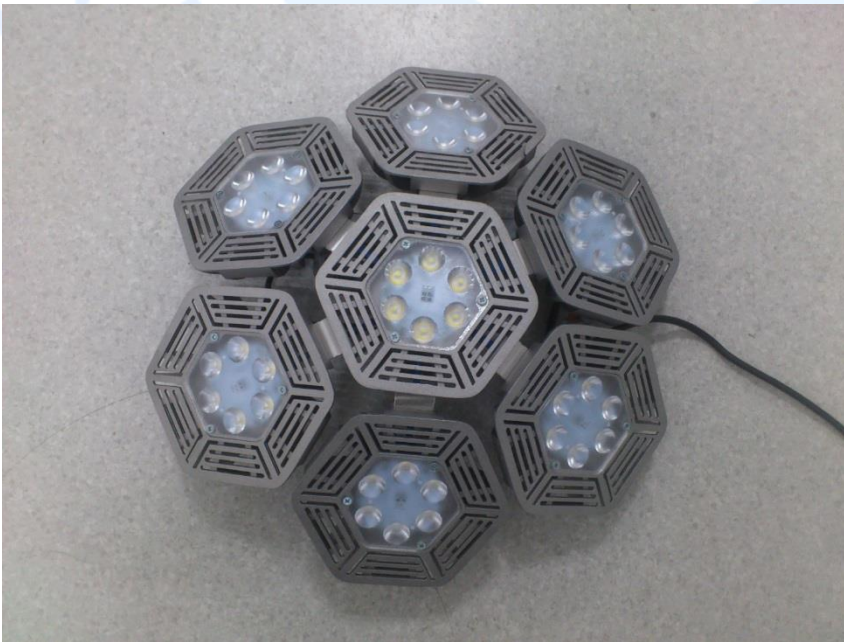
Kullanılan Cihaz/EquipmentUsed.....:		NFMS Goniophotometer LabSphere Sphere System			
Uygulanan Standart-Metot/Applied Standard-Method.....:		TS EN13032-1:2004 +A1:2012LightandLighting – Measurementand Presentation of Photometric Data of Lampsand Luminaires-Part1: Measurementand File. (IES-LM-79)			
SPHERE SİSTEM CALİBRATION DATE	USED CALIBRATION LAMP	CALIBRATION LAMP CERTIFICATE NUMBER	CAL. LAMP CERTIFICATE VALUES	CAL. LAMP MEASURED VALUES	CALIBRATION RESPONSIBLE
02.10.2015	H108	AB-0678-T / ARLIGHT LAB.	1639,8lm 2977K	1618lm 2965K	ENGİN HUYSAL
Deney Ortam Şartları/ExperimentalAmbientConditions.....:		25°C ±5°C, 35%RH±5%RH			
Armatüre Uygulanan Gerilim / AppliedVoltage.....:		220V			
Armatür Markası-Üretici /LuminaireBrand-Producer.....:		--			
Armatür Kodu-Modeli / LuminaireCode-Model.....:		Altiled7 – Industrial Lighting			
Armatür Lamba Tipi-açıklama/Lamp type-description of Luminaire.....:		CREE LED			
Armatür Boyutları / Dimensions of LuminaireArea.....:		Uzunluk –Çap / Lenght- dia	480mm		
		Genişlik/width	480mm		
		Yükseklik / Height	130mm		
Işıyan Alan Boyutu / Dimensions of LuminousArea.....:		Uzunluk –Çap / Lenght- dia	480mm		
		Genişlik/width	480mm		
		C0 Yükseklik / Height	--		
		C90Yükseklik / Height	--		
		C180 Yükseklik / Height	--		
		C270 Yükseklik / Height	--		

MUAYENE – DENEY SONUÇLARI / TEST RESULTS

FOTOMETRİK ÖLÇÜM SONUÇLARI / PHOTOMETRIC MEASUREMENT RESULTS

Armatürde Ölçülen Toplam Güç/Measured Total Power of Luminaire.....:	104 W , 0,97pf THD(I)%:16, THD(V)%: 2,6
Armatürün Ölçülen Işık Akısı /MeasuredLuminousFlux of Luminaire.....:	13980 lm(Initial Value) 13050 lm (Effective Value)
Lamba Işık Akısı / Lamp LuminousFlux.....:	--
Armatür verimliliği (lm/Watt) / Luminous efficiancy.....:	125,48 lm/Watt
Armatür Geri Verim (LOR)% / Luminousefficacy %.....:	--

Numunenin fotoğrafları / Photos of the Test Sample

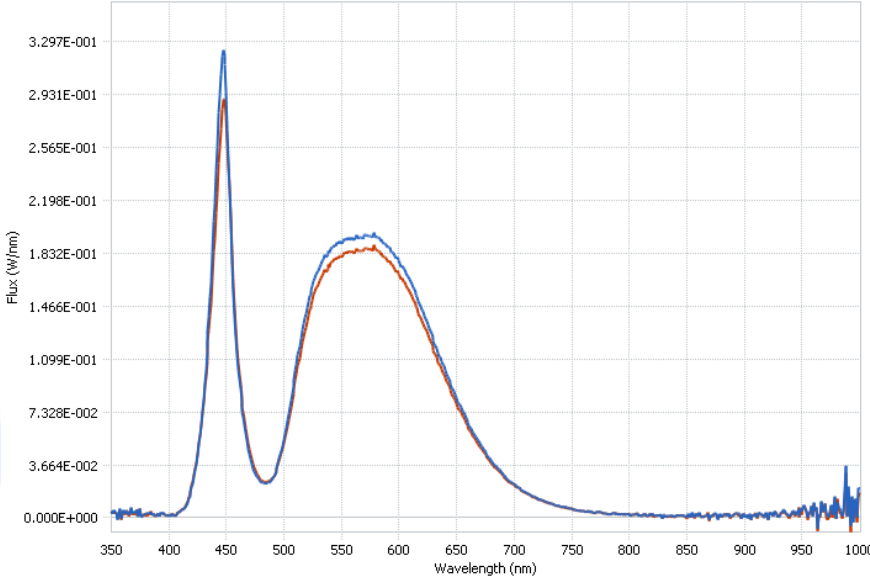


MUAYENE – DENEY SONUÇLARI / TEST RESULTS**Fotometrik Ölçümler / Photometric measurements**

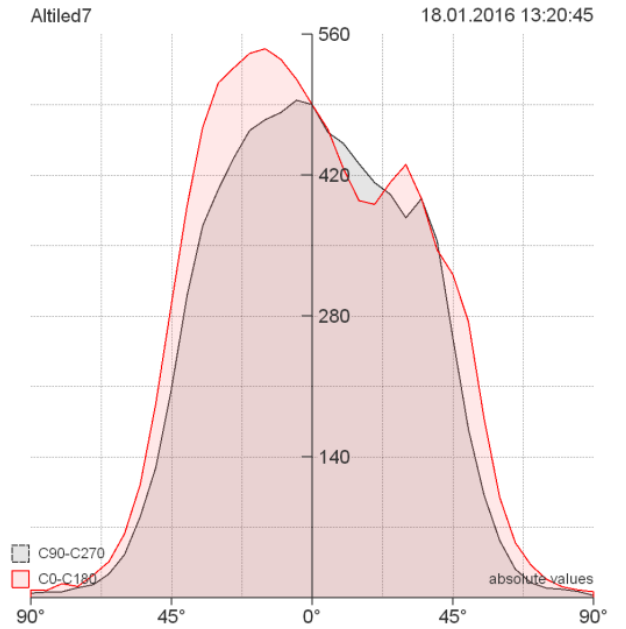
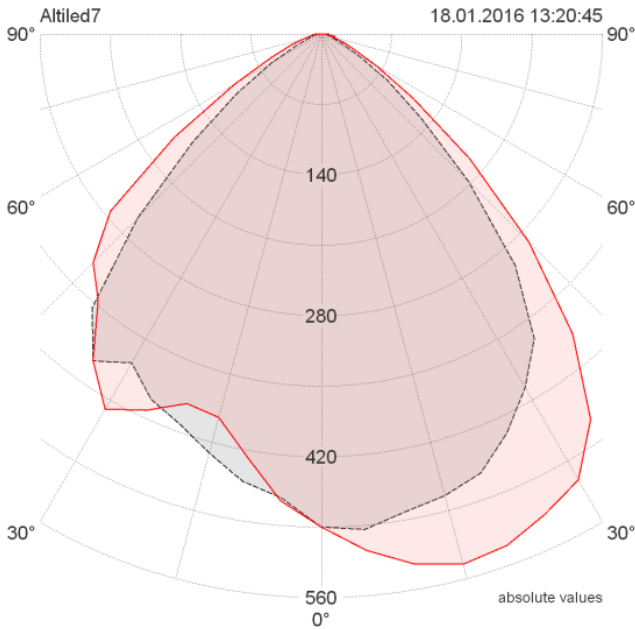
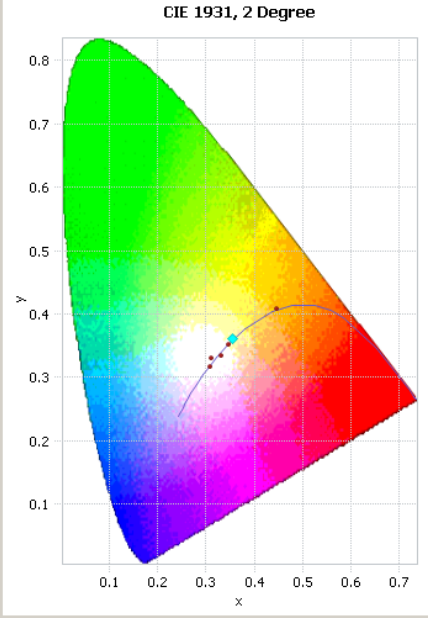
Date/Time	Scan2-(Effective) 15.01.2016 16:49	Scan1-(Initial) 15.01.2016 16:17
Radiant Flux (Watts)	34,16	35,96
Luminous Flux (lumens)	13050	13980
Scotopic Luminous Flux (lm')	18630,00	19530,00
Chromaticity x coord	0,3549	0,3551
Chromaticity y coord	0,3617	0,362
Chromaticity u coord	0,2141	0,2141
Chromaticity v coord	0,3273	0,3274
Delta uv	0,0009	0,0009
Chromaticity u' coord	0,2141	0,2141
Chromaticity v' coord	0,491	0,4911
Peak Wavelength (nm)	448	447,2
Center Wavelength (nm)	446,8	446,2
Centroid Wavelength (nm)	559,6	560,5
Dominant Wavelength (nm)	574,8	574,7
Full Width Half Max Bandwidth (nm)	20,3	18,8
Excitation Purity (%)	15,1	15,2
Correlated Color Temperature (deg. K)	4683	4677
Correlation	0,0054	0,0054
Correlation Coefficient	0,001217217	0,001283515
Color Rendering Index Average (RA)	71,78355354	71,58652752
Color Rendering Index (R1)	70,4	70,4
Color Rendering Index (R2)	75,9	75,5
Color Rendering Index (R3)	78,6	78
Color Rendering Index (R4)	72,8	72,9
Color Rendering Index (R5)	69,8	69,8
Color Rendering Index (R6)	65,8	65,4
Color Rendering Index (R7)	81,2	80,7
Color Rendering Index (R8)	59,8	59,9
Color Rendering Index (R9)	-19	-19
Color Rendering Index (R10)	41,3	40,6
Color Rendering Index (R11)	68,7	69,3
Color Rendering Index (R12)	37,6	37,3
Color Rendering Index (R13)	70,6	70,5
Color Rendering Index (R14)	87,6	87,3

MUAYENE – DENEY SONUÇLARI / TEST RESULTS

▼ SPECTRAL FLUX GRAPH:

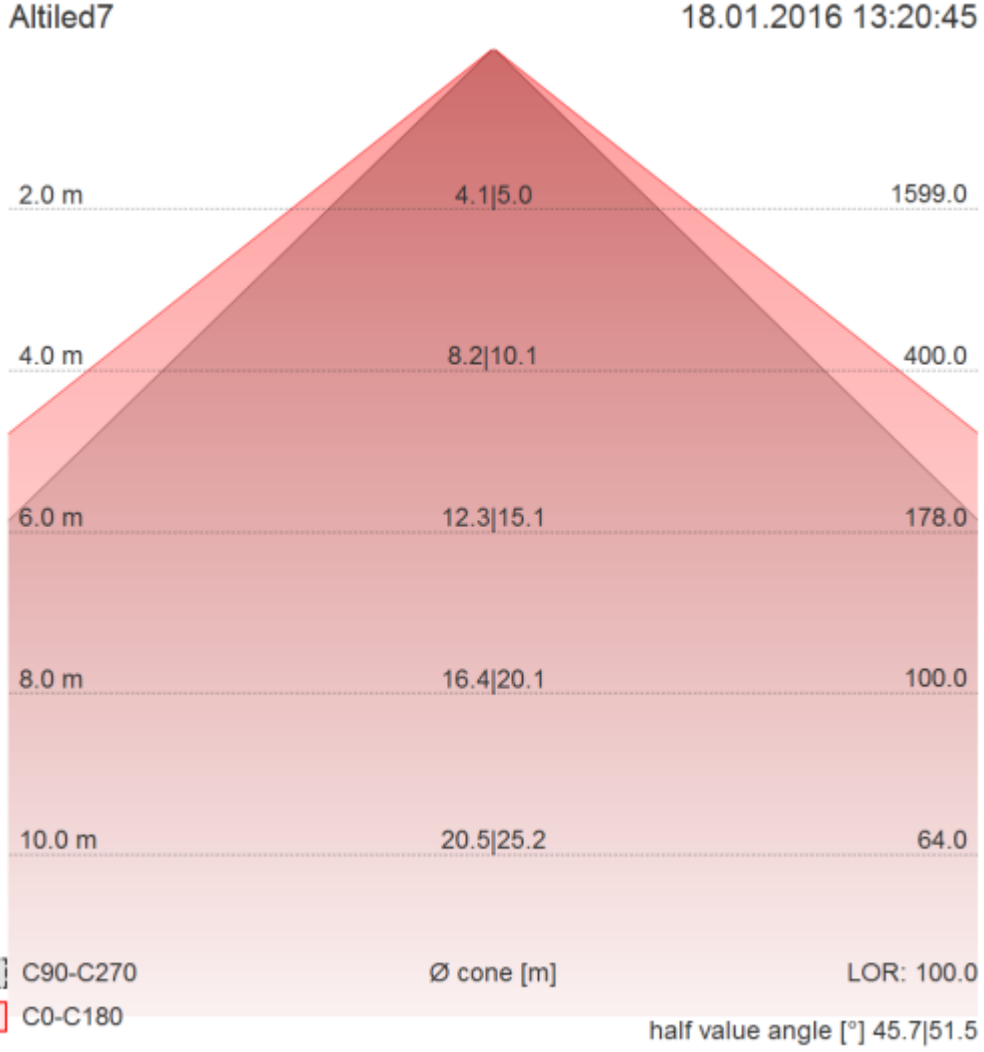


▼ CHROMATICITY DIAGRAM:



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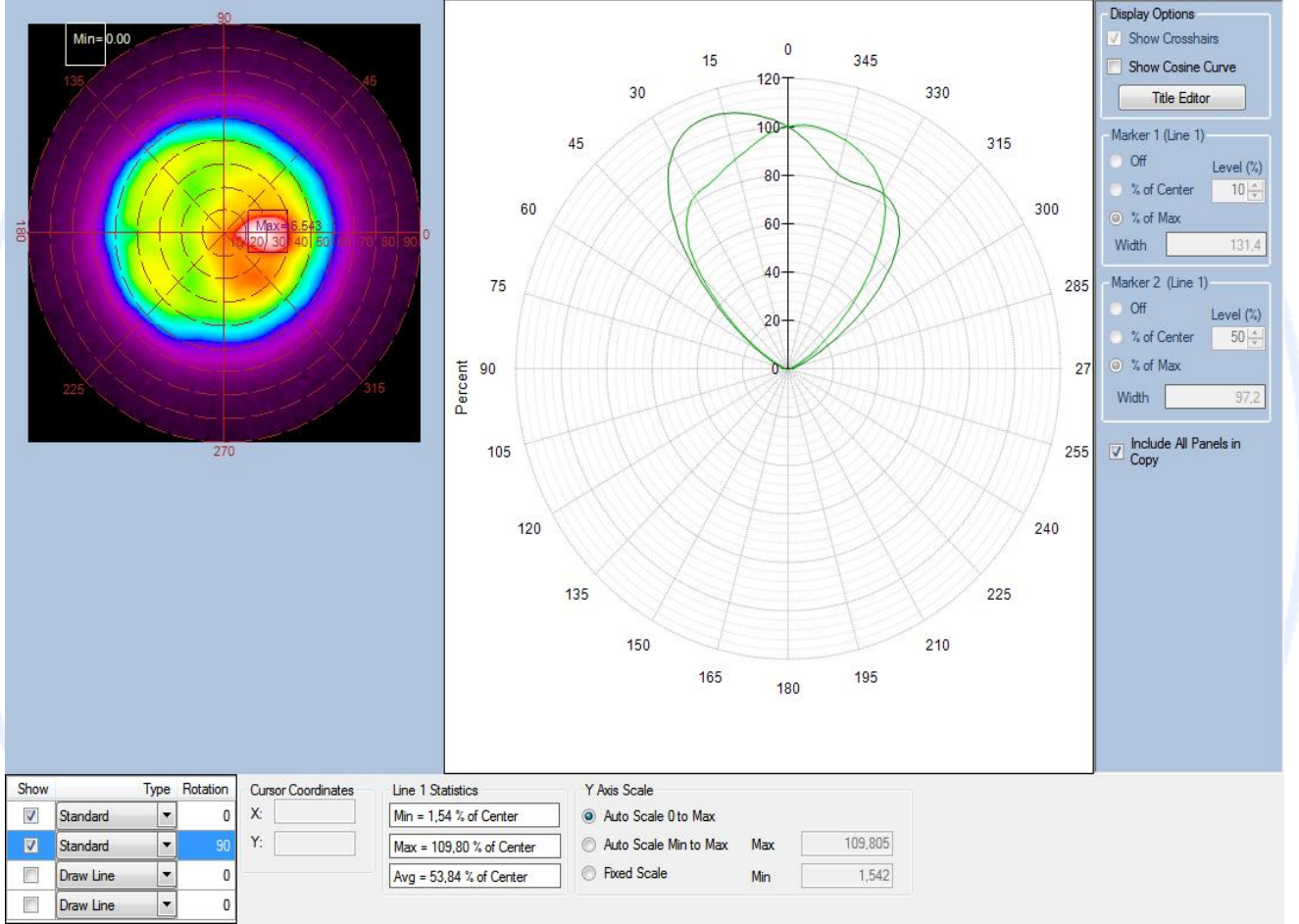
FOTOMETRİK ÖLÇÜM SONUÇLARI / PHOTOMETRIC MEASUREMENT RESULTS



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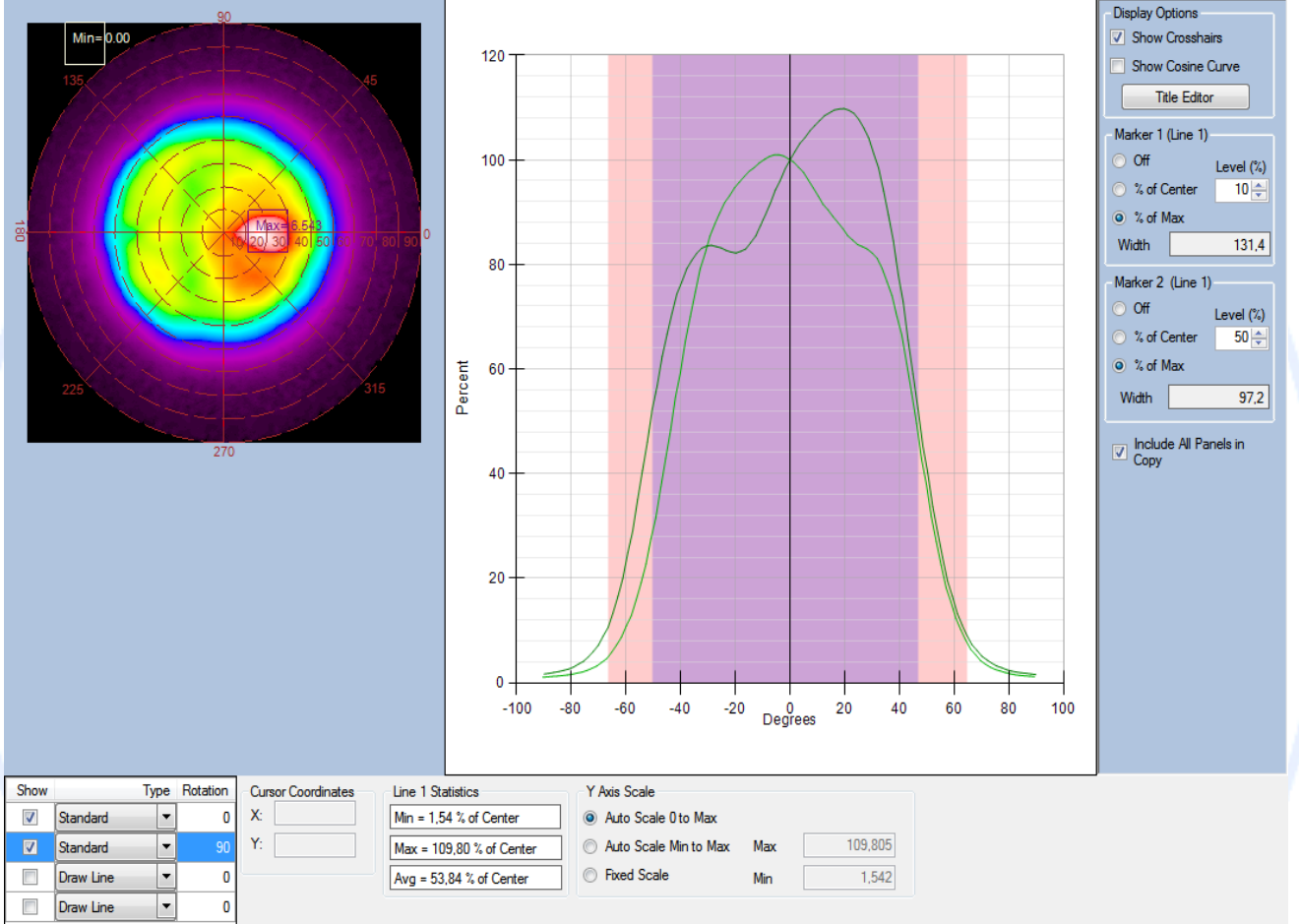
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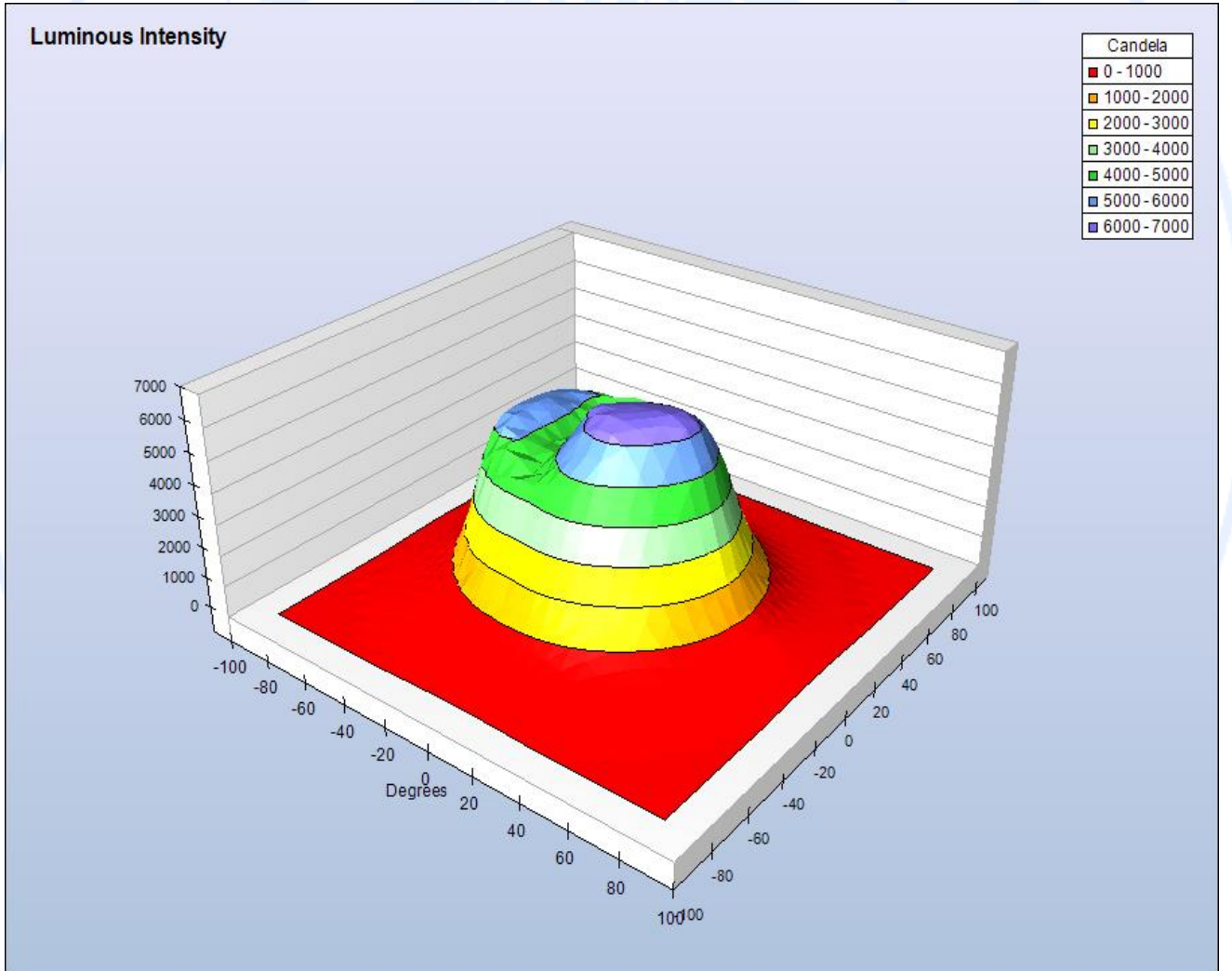
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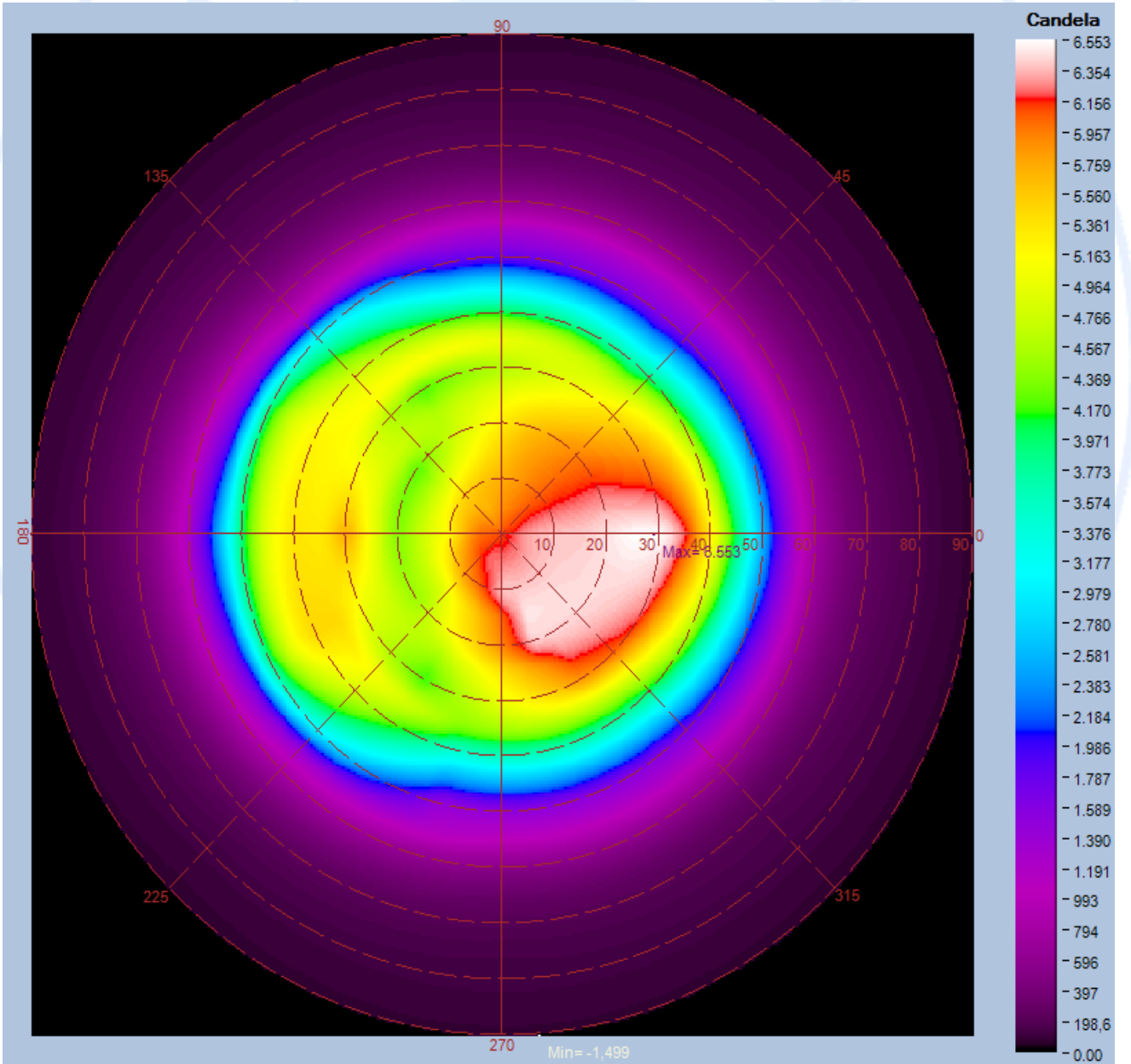
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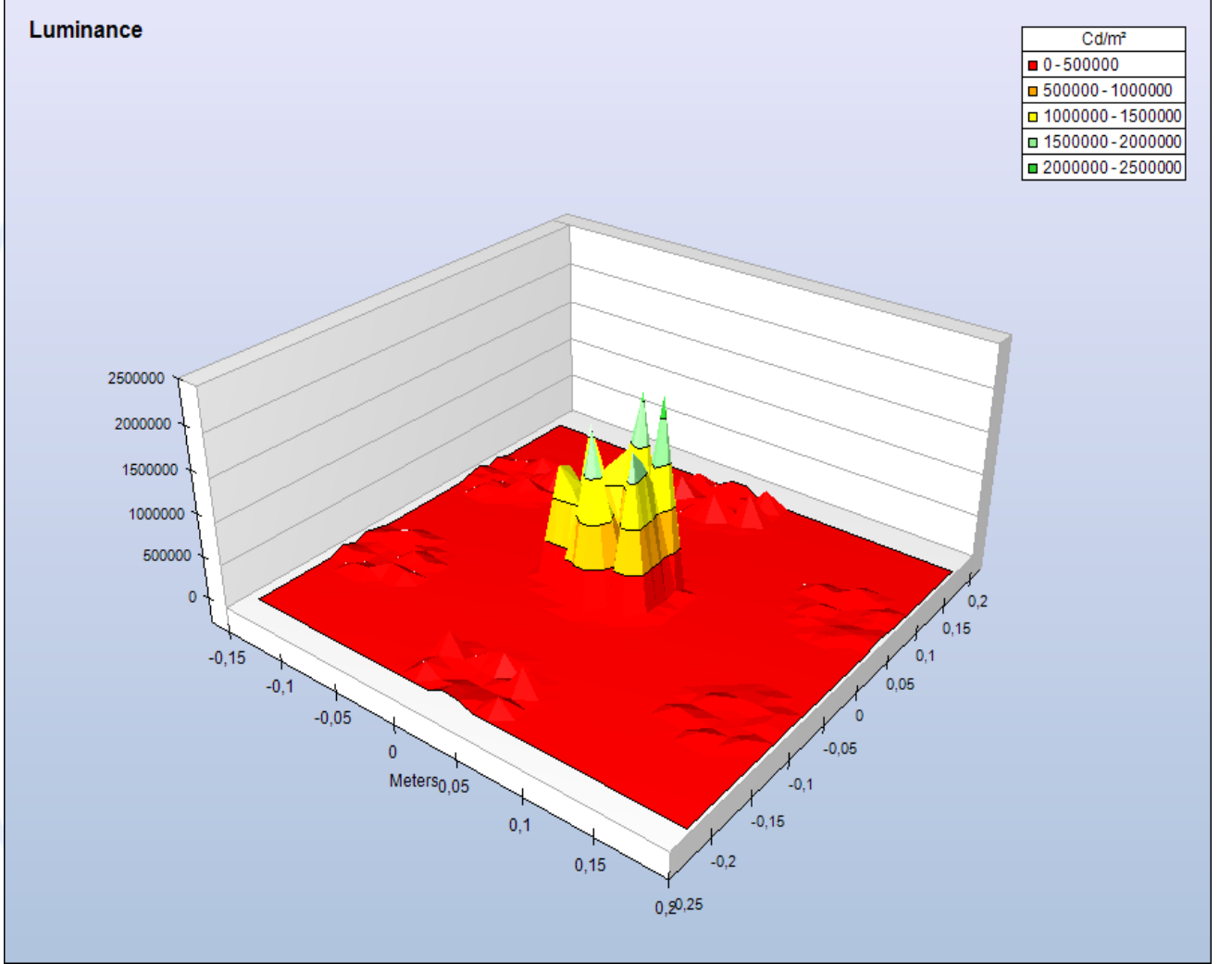
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