

## Test Report

**Luminaire Manufacturer**

C Luce Srl

**Lighting Device**

235643.208 PIXEL SM 32 LED 700mA 70W 4000K

**Test Report Code**

1006A/CL2303/19-17S-Col-G1



	
Approved by Laboratory Director (PT-DLAB)	Approved by Laboratory Technician

**Report Date 06/11/19**

Attachments		
▶ Photometric Test Report		<input type="checkbox"/>
▶ Electrical Parameters Measurement		<input checked="" type="checkbox"/>
▶ Results of TSI Photometric Test		<input type="checkbox"/>
▶ Colorimetric Test Report		<input checked="" type="checkbox"/>
▶ Colorimetric and Luminance Test Report		<input type="checkbox"/>
▶ Photobiological Risk Test Report		<input type="checkbox"/>
▶ Emergency Test Report		<input type="checkbox"/>
▶ Parasite Light Test (Background Noise Assessment)		<input type="checkbox"/>
▶ Declaration of Conformity to Regional Laws regarding Light Pollution		<input type="checkbox"/>
▶ Conformity Assessment to IMQ Performance - April 2014		<input type="checkbox"/>
▶ Measuring system check		<input type="checkbox"/>
▶ List of photometric data processing attached		<input type="checkbox"/>

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## 1. Colorimetric Test Report

Colorimetric Test Code	1006A/CL2303/19-17S-Col-G1		
Laboratory Director	Mr. Stefano Borsani		
Laboratory Technician	Mr. Abdellatif Zaher		
Manufacturer Data			
Manufacturer	C Luce Srl		
OxyTech Manufacturer Code	CL2303		
Address	Via Marmolada, 5/11 - 20060 Truccazzano (MI)		
Contact Person	Mr. Mirko Del Giudice		
Lighting Device Data			
Type	LED Projector		
Model	PIXEL		
Description	235643.208 PIXEL SM 32 LED 700mA 70W 4000K		
Dimensions [mm]	395-270-95		
Light Area Dimensions [mm]	265-205-0		
Led Type and Make	SAMSUNG LH181B		
Ballast Type and Make	PHILIPS Xitanium 75W 0.70A 1-10V 230V C165 sXt 9290 014 053		
Heat Sink Type and Make	---		
Laboratory Ballast/Lamp References	---		
Test Data			
Test Date	05-11-19		
Measurement Type	Asymmetric C-γ		
Reference Norm	EN 13032-4:2015		
Internal Reference Documents	Procedure	PT1006c	Instruction IS1006c
Lamp Stabilization Time	30 min		
Uncertainties			
Source Instability	=< 1%		
Angular Precision in C and γ	± 0.05°		

### Laboratory Measuring Instruments

Goniophotometer (G1)	T2 Luminaire rotation Goniophotometer in accordance with:	
	<ul style="list-style-type: none"> <li>▶ Norm EN 13032-1:2004 types 1.1, 1.2 and 1.3</li> <li>▶ Recommendation CIE 70:1987 Chap.5 types 2 and 3</li> </ul>	
	Serial Number: OX-048	
	Measuring distance: 5.10 m	
Voltage Stabilizer	Electrotest model TPS/M 6000-	Serial Number: OX037
Multimeter	Kinetiq Ppa5530	Serial Number: OX-031
Anemometer	Delta Ohm-HD2001.2	Serial Number: OX-039
Thermometer	Delta Ohm-HD2001.2	Serial Number: OX-040
Colorimeter	Jeti Spectroradiometer Specbos 1201 Focus	Serial Number: OX-030

### Electrical Parameters Test

Source Voltage	230 V $\pm$ 0.2%
Harmonic Distortion	< 0,5%
Source Frequency	50 Hz $\pm$ 0.1%

### Environmental Conditions

Laboratory Temperature [°C]	25°C $\pm$ 1°C
Relative Humidity	60%
Air Movement	< 0,2 m/s

### Colorimetric Characteristics

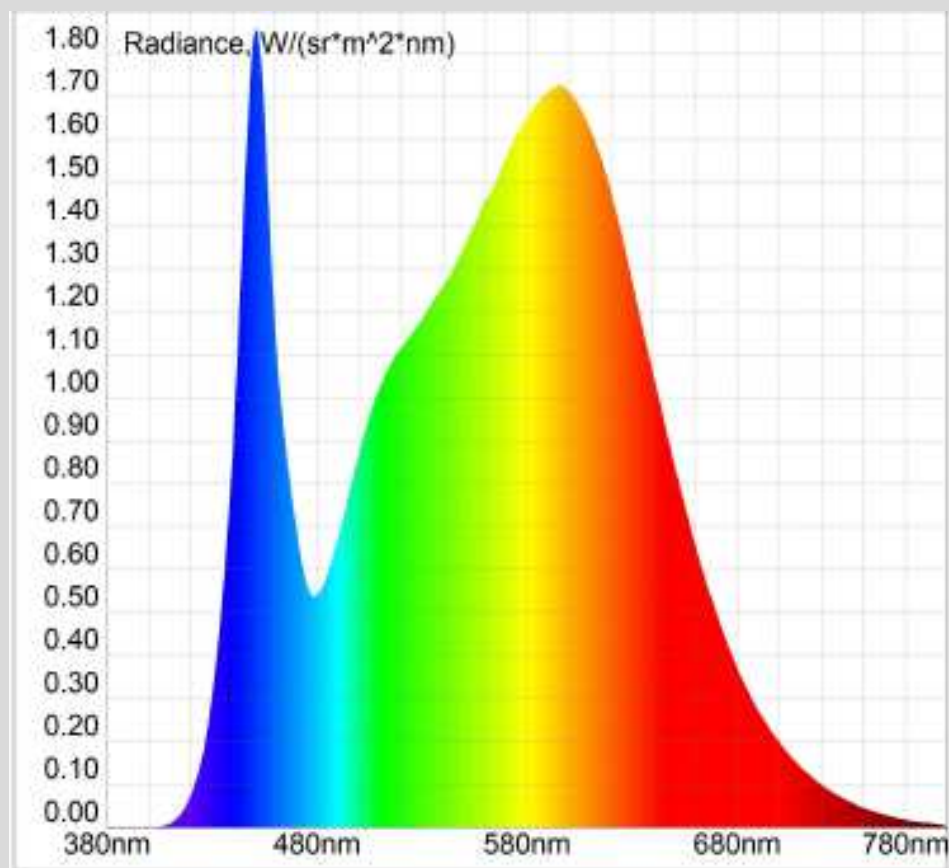
Measurement Description	1. The colorimetric measurement is performed in fixed positions.
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## 1.1 Results of Colorimetric Measurements at Goniophotometer at a Distance of 5.10 m

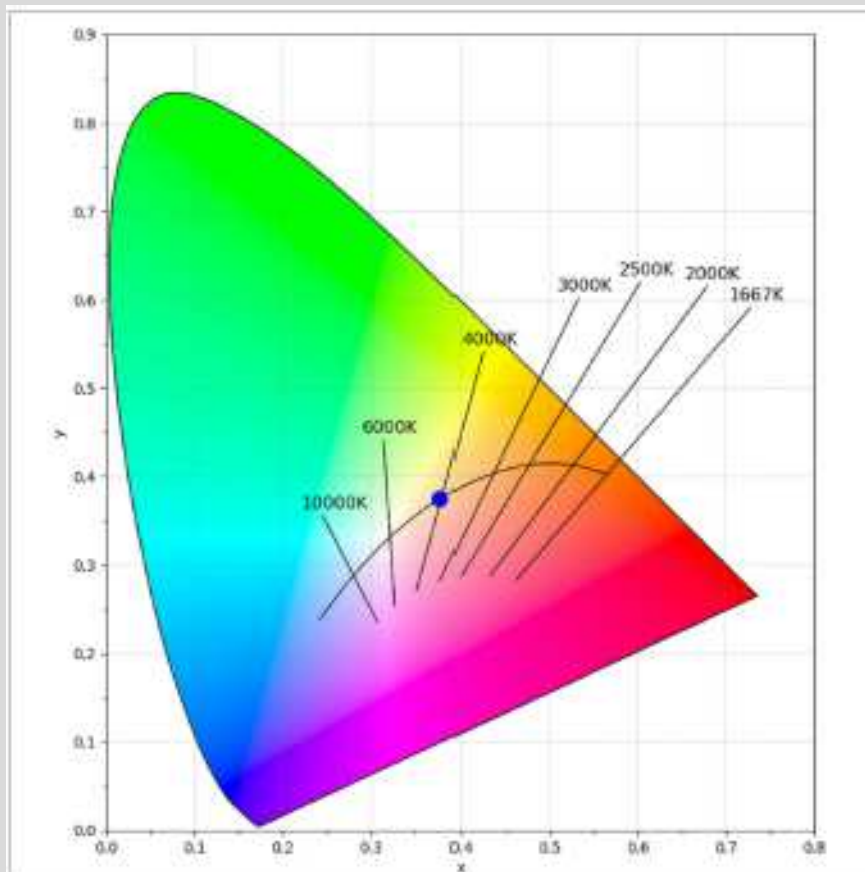
### 1.1.1 Average values

CIE Chromatic Coordinates				
▶ 1931 (x, y)	x	0.3784	y	0.3746
▶ 1976 (u', v')	u'	0.2246	v'	0.5003
▶ Correlated Color Temperature	CCT	4041K		
▶ Delta (u' v')		0.011		
▶ Ra <sub>8</sub>		83.4		
▶ Ra <sub>15</sub>		77.0		

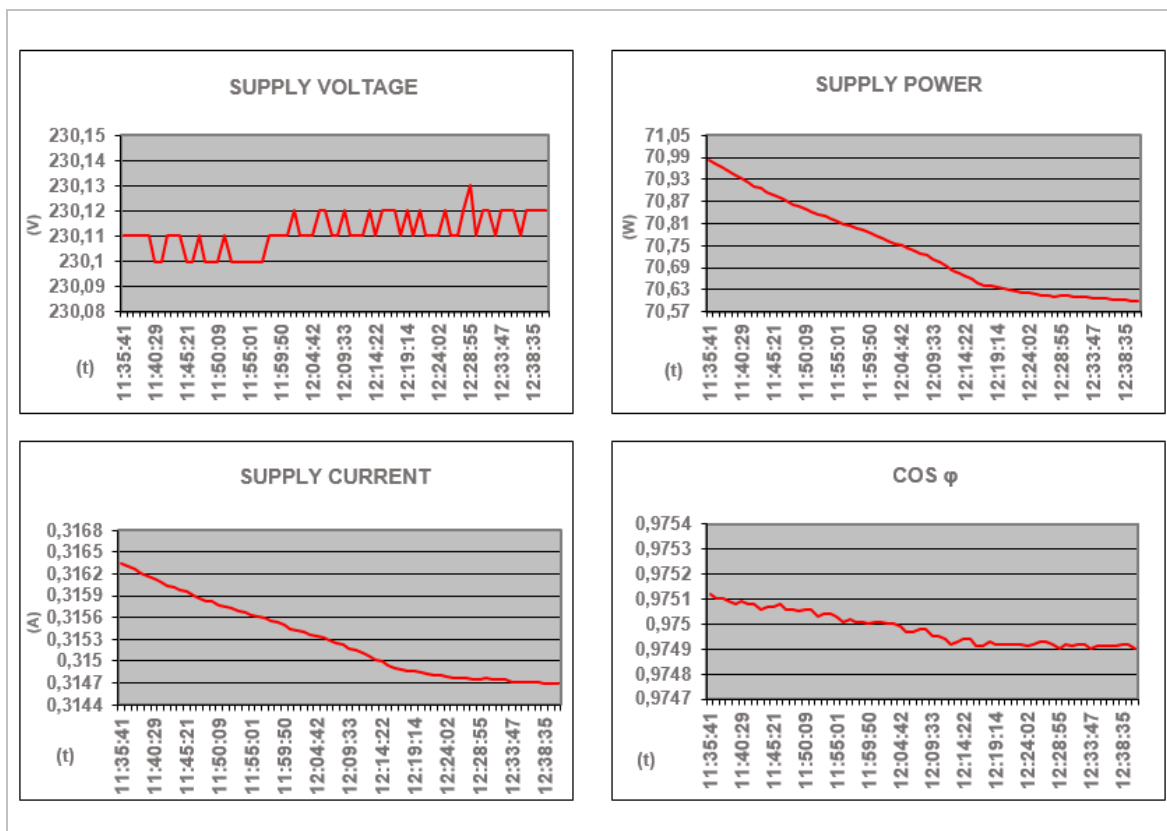
### 1.1.2 Resulting average spectrum of spectral radiance measurements at goniophotometer



### 1.1.3 CIE 1931 Color Plan of spectral radiance measurements at goniophotometer



## 1.2 Electrical Parameters during Test



## 1.3 Test Notes

- The data in this report correspond to those obtained as per the above-described test
- This Report only concerns the sample under trial
- The information contained in this report cannot be extended to other sample luminaires that differ in any way from those used in this test
- The Test Report Code is shown on the luminaire shield and reflector and cannot be deleted

	
Approved by Laboratory Director (PT-DLAB)	Approved by Laboratory Technician