

TEST REPORT

Reference No..... 114-LU911-R01 ver.2

Applicant..... VALUXILLUMINACION

POL.OLIVERAL NORTE FASEIII NAVE 19, 46190 RIBA-ROJA DE TURIA Address.

VALENCIA ESPANA.

Manufacturer..... VALUXILLUMINACION

POL.OLIVERAL NORTE FASEIII NAVE 19, 46190 RIBA-ROJA DE Address.

TURIA VALENCIA ESPANA.

Product Name..... Pendant luminaire

Model No. : Pastev

Ratings 200-240V~, 50-60Hz, 10W

IES LM-79-08

Standards.....: Electrical and Photometric Measurements of Solid-State Lighting

Products

Date of Receipt sample 09-03-2020

Date of Test..... 10-03-2020 to 11-03-2020

Date of Issue..... 13-03-2020

Test Report Form No. 110-LU118011A-01B

Test Result..... See the attached sheets

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By: **VALUXILLUMINACION**

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Complied by:

Ing. Feliciano Bertina

14/1

Test engineer

Approved by:

Ing. Michael Paschier Reviewer

C/.Morvedre.30-B

16117-BETERA (Valencia) SPAIN

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Measurement Point:					
N					
Characteristic data					
(not shown on the marking plate)					
N					
Purpose of the product					
(Description of intended use) LED flood lighting for generally lighting purpose.					
Other information refers to photos in end page.					
Possible test case verdicts:					
- test case does not apply to the test object:N(.A.) / not included in the order					
- test object does meet the requirementP(ass)					
- test object does not meet the requirement: F(ail)					
Possible suffixes to the verdicts:					
- suffix for detailed information for the client: - C(omment)					
- suffix for important information for factory inspection: - M(anufacturing)					
General remarks:					
"(See Attachment #)" refers to additional information appended to the report. "(See remark #)" refers to a remark appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.					
Remark: 1. Measurement was conducted at voltage 240VAC 50Hz and at a stable ambient temperature 25°C±1°C.					



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Test summary:

Testing is performed in accordance with the procedures outlined in IES LM-79-08. The sample is evaluated for photometric and electrical characteristics using an integrating sphere and a goniophotometer, located in an accredited, temperature and humidity-controlled, draft free photometric laboratory.

☐ Test No. 1 : Integrating Sphere Test

The sample was tested according to the IES LM-79-08.

Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C \pm 1° C.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load. The AC power supply, while operating the product, shall have a sinusoidal voltage waveshape at the prescribed frequency 50Hz or 60Hz such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item. It was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

□ Test No.2: Goniophotometer Test

The sample was tested according to the IES LM-79-08.

Photometric paramters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at 25° C \pm 1° C, measured at a point not more than 1 m from the sample and at the same height as the sample.

The sample was operated at Rated Volts(see Table 1). The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load. The AC power supply, while operating the product, shall have a sinusoidal voltage waveshape at the prescribed frequency 50Hz or 60Hz such that the RMS summation of the harmonic components does not exceed 3 percent of the fundamental during operation of the test item. It was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 15° horizontal intervals and chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm by center test position.



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IES LM-79-08					
Clause	Requirement – Test	Measuring result – Remark	Verdict		
2.0	Ambient Conditions		Р		
2.1	General		Р		
2.2	Air Temperature		Р		
2.3	Thermal Condition for Mounting SSL Products		Р		
2.4	Air Movement		Р		
3.0	Power Supply Characteristics	-	Р		
3.1	Waveshape of AC power supply		N		
3.2	Voltage regulation		N		
4.0	Seasoning of SSL Product		N		
	No seasoning of SSL product		N		
5.0	Stabilisation of SSL Product		Р		
	SSL product has sufficiently stabilized before measurement	Stabilized 30 minute	Р		
6.0	Operation Orientation		Р		
	SSL product shall be stabilized and measured in intended operating orientation	As normal working	Р		
7.0	Electrical Settings		Р		
	SSL product shall be operated at rated voltage		Р		
	SSL product with dimming capability are tested at maximum input power condition		N		
	SSL product with different modes are measured in all relevant modes		N		
8.0	Electrical Instrumentations		Р		
8.1	Circuits		Р		
8.2	Uncertainties		Р		
9.0	Test Methods for Luminous Flux measurement		Р		
9.1	Integrating sphere with a spectroradiometer (Sphere-spectroradiometer system)		Р		
9.2	Integrating sphere with a photometer head (Sphere-photometer system)		N		
9.3	Goniophotometer		Р		
10.0	Luminous Intensity Distribution		Р		
	Reporting acc. to IES LM-63		Р		
11.0	Luminous Efficacy		Р		
	Calculation	See table 1	Р		
12.0	Test Methods for Color Characteristics of SSL Products				
	Measurements	See table 1	Р		
13.0	Uncertainty statement		N		



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Table 1	Test data			
Model:	Pastev			
Rated Voltage:	200-240VAC	Rated Power (W):	10	
Rated luminous flux (lm):	N	Ambient temperature 25 ±1 (°C):	Refer to below table	
Test item		Measured Value		
		Integrating Sphere	Goniophotometer	
Key Photometric Res	ults			
Luminous Efficacy (Lumens/Watt)			90,9	
Total Luminous Flux (Lumens)			270,1	
Peak Intensity (cd)			8116	
Total Radiant Flux (Watts)				
Correlated Color Temperature (CCT)		3034K		
Color Rendering Index (CRI)		81,1		
Chromaticity (Chroma x / Chroma y)		0,4345/0,4032		
Chromaticity (Chroma u' / Chroma v')		0,2494/0,5207		
Duv Value		-2,99e-05		
Stabilization Time (Light and Power) (Minutes)		30	30	
Total Run Time (Minutes)		35	90	
Electrical Input Resul	ts			
Input Power (Watts)			59,8	
Input Voltage (Volts AC)			239,9	
Input Current (Amps)			0,256	
Input Frequency (Hertz)			50	
Power Factor			0,976	
Additional Information	n			
Test Geometry Configu	ration	4π	Type C	
Ambient Temperature (°C):		25,1	24,9	
ISTMT (In-Situ Temperature Measurement) (°C):		N		

Supplementary Information:

- Absorbtion Correction used: NO
- Stabilisation was considered reached by: the variation (maximum-minimum) of at least 3 readings of the light output and electrical power over a period of 30 minutes is less than 0,5%.



Lighting Measure Report

NAME: Pastev	TYPE: 10W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.: Valux-iluminacion	SUR.:	Shielding Angle:

Color Parameter

Chroma Coordinate:x=0.3843 y=0.3882 u=0.2231 v=0.3381 Duv=0.0042

Chroma Coordinate:u'=0.2231 v'=0.5071

CCT.:CCT=4005K Dominant: d=576.9nm Barycenter: b=569nm Peak Wavelength: p=591.2nm

FWHM: 144.2nm Purity:Pe=31.86% Red Ratio:R=0.177 Green Ratio:G=0.784 Blue Ratio:B=0.039

Color CRI.:Ra=81.16 AvgR(1~14)=74.07 AvgR(1~15)=73.87

R 1=79 R 2=90 R 3=96 R 4=78 R 5=79 R 6=86 R 7=84 R 8=59 R 9=-6 R10=76 R11=76 R12=60 R13=82 R14=98

R15=71

GAI: GAI_EES=65.58,GAI_BB8=83.49,GAI_BB15=83.49

Luminosity Parameter

EEI: 0.1211 Energy Class: A++(EU874-2012) Luminance = 10cd/m2

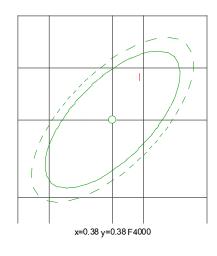
Electric Parameter

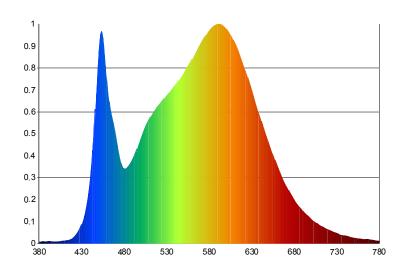
Voltage: U=229.9V Current: I=135mA Power: P=40.16W PF: PF=0.969

Device State

Wavelength Range: 380nm-780nm Wavelength Interval: 1nm







Standard:LM-79-08

Product Model: 10W Manufacturer: Valux-iluminacion

Sample No.: 1 Product Category: D

Test Cond:Tg=24.6Cels Ta=24.2Cels RH=60.0% Measure Device: Volnic X-10 Series CCD Spectrum System

Test Date: 2023-09-16