

TEST REPORT

Reference No	118-LU773-R01 ver. 0
Applicant	VALUXILLUMINACION
Address	POL.OLIVERAL NORTE FASEIII NAVE 19, 46190 RIBA-ROJA DE TURIA VALENCIA ESPANA.
Manufacturer	VALUXILLUMINACION
Address	POL.OLIVERAL NORTE FASEIII NAVE 19, 46190 RIBA-ROJA DE TURIA VALENCIA ESPANA.
Product Name	Decorative wall mounted picture lamp luminaire
Model No	Dosna
Ratings	200-240V~, 50-60Hz, 18W
Standards	IES LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products
Date of Receipt sample	23-04-2018
Date of Test	24-04-2018 to 25-04-2018
Date of Issue	26-04-2018
Test Report Form No	763-LU79083A-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

Test engineer

1402

Approved by:

Ing. Michael Paschier Reviewer

MINACION, S.L. C.I.R. 8-98.329.097 C/.Morvedre.30-B 10117-BETERA (Valencia) SPAIN

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Measurement Point:
Ν
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
- 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.



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 ± 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
	•	5

Verdict

2.0	Ambient Conditions		D				
2.0	General						
2.1							
2.2	Thermal Condition for Mounting SSL Broducto						
2.3	Air Movement						
2.4	All Movement						
3.0	Weyeehope of AC power supply						
3.1	Vales as viet in a construction						
3.2			N				
4.0	Seasoning of SSL Product		N				
	No seasoning of SSL product		N				
5.0	Stabilisation of SSL Product		P				
	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	Р					
12.0	Test Methods for Color Characteristics of SSL Pro	Test Methods for Color Characteristics of SSL Products					
-	Measurements	See table 1	P				
13.0	Uncertainty statement		N				
		1					



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Table 1	Test data					
Model:	Dosna					
Rated Voltage:	200-240VAC	Rated Power (W): 8				
Rated luminous flux (lm):	Ν	Ambient temperature 25 ±1 Refer to below (°C):				
Test item		Measured	Value			
		Integrating Sphere	Goniophotometer			
Key Photometric Result	S	·				
Luminous Efficacy (Lume	ns/Watt)		66,2			
Total Luminous Flux (Lum	iens)		522,4			
Peak Intensity (cd)			8116			
Total Radiant Flux (Watts))					
Correlated Color Tempera	ature (CCT)	3034K				
Color Rendering Index (C	RI)	81,3				
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 a	tion Time (Light and Power) (Minutes) 30 30		30			
Total Run Time (Minutes)	I	35	90			
Electrical Input Results						
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						
Test Geometry Configurat	ion	4π	Туре С			
Ambient Temperature (°C):	25,1 24,9				
ISTMT (In-Situ Temperatu	TMT (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%.

TYPE HL22



Light Source Test Report

CIE Color Parameters:

Chromaticity Coordinate:x=0.3788 y=0.3756/u'=0.2245 v'=0.5008(duv=-8.78e-05) CCT:Tc= 4035K Prcp WaveL: $\lambda d=579.0$ nm Purity=26.4% Peak WaveL: λp=595nm Half Width: Δλp=148.2nm Ratio: R=18.1% G=78.4% B=3.5% Average Wave: 568nm PB=3.5822 PG=4.5225 PR=5.5372 PT=173.7698 Rendering Index:Ra=82.2 Ra'=75.7 R2 =88 R3 =94 R6 = 84R8 = 64R1 =81 R4 =82 R5 =81 R7 =85 R9 = 4R10=71 R11=82 R12=66 R13=82 R14=96 R15=74

Photo Parameters:

Flux: \$\overline{\Phi}=616.25(lm) Luminous Efficacy: 70.19(lm/W) Luminous Power: P=1.872(W)

Electrical Parameters:

U=221.9V I=0.08100A P=8.780W PF=0.487

Instrument Status: Scan Range:380.0nm-800.0nm Interval:5.0nm Ip = 21312(G=5, D=52)REF = 6051TMP(PMT) = 28.5degrees centigradet Mode: precision Test

Product Type:Picture Light Instrument: PMS-80 System Temperature:150.0deg Test Operator:ZRL

Manufacturer:Valux-iluminacion Test Department:02 Humidity:65.0% Test Date:2023-12-14 14:08

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Relative Spectrum Data:

nm	P	nm	P	nm	P	nm	P	nm	P	nm	Ρ
380.0 385.0 3995.0 405.0 415.0 425.0 505.0 515.0 520.0 525.0 525.0 555.0 555.0 555.0 555.0 555.0 565.0 565.0 565.0 665.0 6225.0 625.0	0.0011 0.0007 0.0007 0.0014 0.0044 0.0044 0.0420 0.9906 0.1693 0.4702 0.9919 0.7151 0.5226 0.4702 0.2670 0.28464 0.9890 0.98060 0.98060 0.98063 0.2879	680.0 685.0 690.0 695.0 700.0 715.0 720.0 725.0 740.0 745.0 745.0 755.0 760.0 755.0 765.0 785.0 785.0 785.0 785.0 790.0 795.0 800.0	0.2200 0.1907 0.1607 0.1370 0.1190 0.0894 0.0770 0.0644 0.0560 0.0424 0.0369 0.0313 0.0229 0.0220 0.0171 0.0133 0.0133 0.0133 0.0133 0.0108 0.0086 0.0075								

Product Type:Picture Light Instrument:PMS-80 System Temperature:150.0deg Test Operator:ZRL Manufacturer:Valux-iluminacion Test Department:02 Humidity:65.0% Test Date:2023-12-14 14:08