

TEST REPORT

Reference No.	341-LU434-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	Surface mounted luminaire
Model No	Element
Ratings	200-240V~, 50-60Hz, 10W
Standards	IES LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products
Date of Receipt sample	14-03-2017
Data of Test	
Date of Test	15-03-2017 to 16-03-2017
Date of Issue	15-03-2017 to 16-03-2017 17-03-2017
74, 50	

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.

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Complied by:

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Test engineer

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Approved by:

Ing. Michael Paschier Reviewer

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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 orde)r
	71
- 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) 	
Remark: I.Measurement was conducted at voltage 240VAC 50Hz and at a stable ambient temp	perature 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
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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 Pro	oducts	Р
	Measurements	See table 1	Р
13.0	Uncertainty statement		N



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Table 1	Test data				
Model:	Element				
Rated Voltage:	200-240VAC	Rated Power (W):	52		
Rated luminous flux (Im):	Ν	Ambient temperature 25 ±1 (°C):	Refer to below table		
Test item		Measured Value			
		Integrating Sphere	Goniophotometer		
Key Photometric Res	sults	·			
Luminous Efficacy (Lu	imens/Watt)		51,4		
Total Luminous Flux (L	umens)		2630,4		
Peak Intensity (cd)			8116		
Total Radiant Flux (Wa	atts)				
Correlated Color Temp	perature (CCT)	3034K			
Color Rendering Index	(CRI)	73,0			
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 (Lig	ht and Power) (Minutes)	30	30		
Total Run Time (Minu	tes)	35	90		
Electrical Input Resu	lts				
Input Power (Watts)			59,8		
Input Voltage (Volts AC)			239,9		
Input Current (Amps)			0,256		
Input Frequency (Hertz	z)		50		
Power Factor			0,976		
Additional Information	n				
Test Geometry Configu	uration	4π	Туре С		
Ambient Temperature (°C):		25,1 24,9			
ISTMT (In-Situ Tempe	rature Measurement) (°C):	Ň			

- 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%.

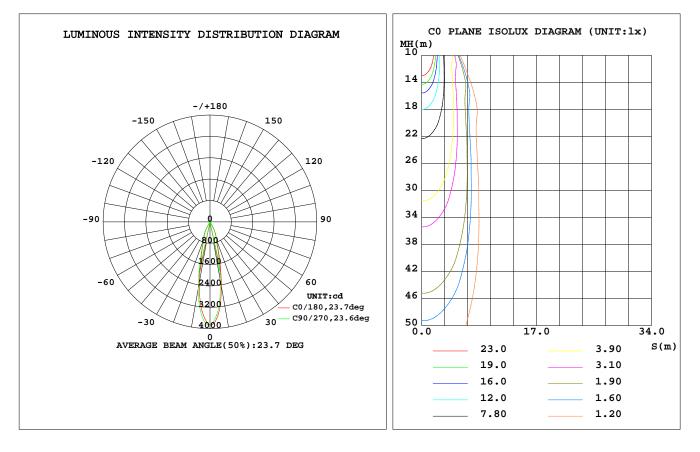


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LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: WL2-52W-3000K-24D	TYPE:Wall Light	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:	
MFR.: Valux- iluminacion	SUR.:50MM	PROTECTION ANGLE:	

DATA OF LAMP			PHOTOMETRIC DATA Eff: 50.63 lm/W			
MODEL 3000K		Imax(cd)	3869	S/MH(C0/180)	0.39	
NOMINAL I	POWER(W)	15.8	LOR(%)	60.2	S/MH(C90/270)	0.42
RATED VOI	TAGE(V)	DC24	TOTAL FLUX(lm)	929.31	η UP,DN(C0-180)	0.3,29.1
NOMINAL E	LUX(lm)	1544	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.4,30.5
LAMPS INS	SIDE	1	η up(%)	0.7	CIBSE SHR NOM	0.00
TEST VOLI	TAGE(V)	24.2	η down(%)	59.5	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:CY Test Date:2019-07-24 γ Range: 0 - 180DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.286 Humidity:65.0% Test Distance:8.320m [K=1.0000] Remarks: