

TEST REPORT
COMMISSION DELEGATED REGULATION (EU) No 874/2012
**Supplementing Directive 2010/30/EU of the European Parliament and of the Council
with regard to energy labelling of electrical lamps and luminaires**

Report Reference No......: GZES170701224031
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Date of issue.....: 2017-08-21
Total number of pages.....: 8
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 China



Applicant's name.....: Gemas Genel Muh. Mek. San. Ve Tic. A. S.
Address.....: ITOB Org. San. Bol. 10001 sk. No.28 Tekeli – Menderes / Izmir

Manufacturer's name: Gemas Genel Muh. Mek. San. Ve Tic. A. S.
Address.....: ITOB Org. San. Bol. 10001 sk. No.28 Tekeli – Menderes / Izmir

Test specification:

Standard: COMMISSION REGULATION (EU) No 874/2012
 COMMISSION DELEGATED REGULATION (EU) No 518/2014
Test procedure: IM Test report
Non-standard test method.....: None

Test Report Form No......: 874/2012/EU_B
Test Report Form(s) Originator: SGS-CSTC
Master TRF.....: 2013-01-10

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Test item description.....: Pool Lights Bulb
Trade Mark: —
Factory.....: Same as applicant
Model/Type reference.....: Par 56 SMD LED BULB
Ratings.....: 12 VDC

Standard :

Non-directional lamps	<input checked="" type="checkbox"/> EN 60064	<input type="checkbox"/> EN 60969 at present 34A/ 1701/CDV
	<input checked="" type="checkbox"/> CIE 84	<input checked="" type="checkbox"/> EN 62612
	<input type="checkbox"/> EN 60357	<input type="checkbox"/> IEC 62717 at present 34A/ 1659/CDV
Directional lamps	<input type="checkbox"/> EN 60064	<input type="checkbox"/> EN 60969 at present 34A/ 1701/CDV
	<input type="checkbox"/> CIE 84	<input type="checkbox"/> EN 61167
	<input type="checkbox"/> L2(AP)005	<input type="checkbox"/> EN 62612
	<input type="checkbox"/> EN 60357	<input type="checkbox"/> IEC 62717 at present 34A/ 1659/CDV

Summary of testing:

The sample(s) tested complies with the requirements of COMMISSION DELEGATED REGULATION (EU) No 874/2012 and (EU) No 518/2014.

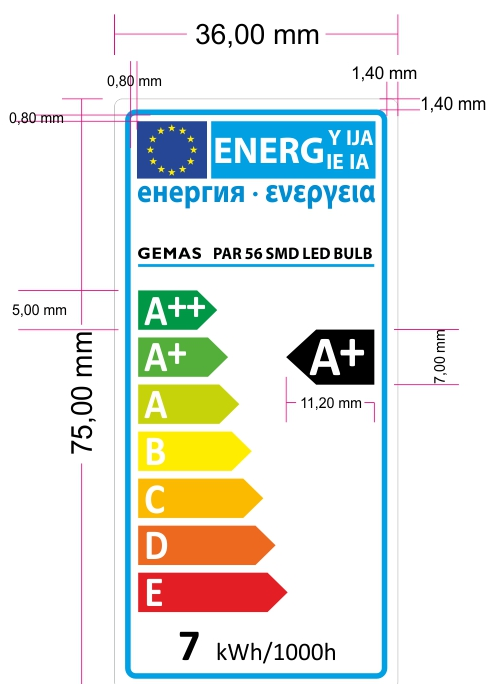
These tests were conducted by test lab that fulfils the requirements of standard ISO/IEC 17025.

Copy of marking plate

Product label:

—

Energy label:



Test item particulars :	
Lamp cap..... :	—
Lamp type..... :	LED
Luminaire type..... :	—
Mass of the equipment..... :	0,46 kg
Commission received from..... :	Gemas Genel Muh. Mek. San. Ve Tic. A. S.
Date..... :	2017-08-21
Possible test case verdicts:	
- test case does not apply to the test object..... :	N/A
- test object does meet the requirement..... :	P (Pass)
- test object does not meet the requirement..... :	F (Fail)
Testing :	
Date of receipt of test item..... :	2017-07-21
Date (s) of performance of tests..... :	2017-07-21 to 2017-08-20
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p> <p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p>	
General product information:	
LED pool lights bulb	

EU 874/2012			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX I		Label		—
1.	Label for electrical lamps presented at a point of sale			P
	(1) The label if it is not printed on the packaging			N/A
	(2) The required information shall be included on the label			P
	(3) If the label is printed on the packaging, the label shall then be chosen from directive			P
	(4) The design of the label			P
2.	Label for luminaires presented at a point of sale			N/A
	(1) The label shall be the relevant language version, and shall be as shown in directive required illustration			N/A
	(2) The required information shall be included in the label			N/A
	(3) The energy label for luminaire			N/A
	(4) The design of the label shall be as in the figures in directive			N/A

ANNEX II		Product fiche for electrical lamps		—
	The fiche shall contain the information specified for the label.			N/A
	Where product brochures are not supplied, the label provided with the product can also be considered to be the fiche.			N/A

ANNEX III		Technical documentation		—
	The technical documentation referred to in Article 3(1)(b) and (2)(a) shall include:			—
	(a) The name and address of the supplier;			P
	(b) A general description of the model, sufficient for it to be unequivocally and easily identified;			P
	(c) Where appropriate, the references of the harmonised standards applied;			P
	(d) Where appropriate, the other technical standards and specifications used;			N/A
	(e) The identification and signature of the person empowered to bind the supplier;			P
	(f) The technical parameters for determining energy consumption and energy efficiency in the case of electrical lamps, and compatibility with lamps in the case of luminaires, specifying at least one realistic combination of product settings and conditions in which to test the product;			P

EU 874/2012			
Clause	Requirement + Test	Result - Remark	Verdict
	(g) For electrical lamps, the results of calculations performed in accordance with Annex VII. The information contained in this technical documentation may be merged with the technical documentation provided in accordance with measures under Directive 2009/125/EC.		P

ANNEX IV	Information to be provided in cases where final owners cannot be expected to see the product displayed		—
1.	The information referred to in Article 4(1)(a) shall be provided in the following order:		N/A
	(a) The energy efficiency class as defined in Annex VI;		N/A
	(b) Where required by Annex I, the weighted energy consumption in kWh per 1 000 hours, rounded up to the nearest integer and calculated in accordance with part 2 of Annex VII.		N/A
2.	When other information contained in the product fiche is also provided, it shall be in the form and order specified in Annex II.		N/A
3.	The size and font in which all the information referred to in this Annex is printed or shown shall be legible. EN 26.9.2012 Official Journal of the European Union L 258/17.		N/A

ANNEX VI	Energy efficiency classes		—
	The energy efficiency class of a lamp shall be determined as follows:		—
	Lamps operating without external control gear	$P_{cor} = P_{rated}$	—
	Lamps operating on external halogen lamp control gear	$P_{cor} = P_{rated} \times 1,06$	—
	Lamps operating on external LED lamp control gear	$P_{cor} = P_{rated} \times 1,10$ $= 6,18 \text{ W}$	—
	Fluorescent lamps of 16 mm diameter (T5 lamps) and 4-pin single capped fluorescent lamps operating on external fluorescent lamp control gear	$P_{cor} = P_{rated} \times 1,10$	—
	Other lamps operating on external fluorescent lamp control gear	$P_{cor} =$ $P_{rated} \times \frac{0,24\sqrt{\Phi_{use}} + 0,0103\Phi_{use}}{0,15\sqrt{\Phi_{use}} + 0,0097\Phi_{use}}$ $=$	—
	Lamps operating on external high-intensity discharge lamp control gear	$P_{cor} = P_{rated} \times 1,10$	—
	Lamps operating on external low pressure sodium lamp control gear	$P_{cor} = P_{rated} \times 1,15$	—
	For models with $\Phi_{use} < 1\,300$ lumen:	586,2 lumen	—
	$P_{ref} = 0,88 \sqrt{\Phi_{use}} + 0,049 \Phi_{use}$:	50,0 W	—
	For models with $\Phi_{use} \geq 1\,300$ lumen:	—	—

EU 874/2012					
Clause	Requirement + Test			Result - Remark	Verdict
	$P_{ref} = 0,07341\Phi_{use}$:			—	—
	$EEl = P_{cor} / P_{ref}$:			6,18 W / 50,0 W = 0,12	—
	Energy efficiency class	<input checked="" type="checkbox"/> EEI for non-directional lamps	<input type="checkbox"/> EEI for directional lamps		—
	A++	$EEl \leq 0,11$	$EEl \leq 0,13$		—
	A+	$0,11 < EEl \leq 0,17$	$0,13 < EEl \leq 0,18$	0,12	—
	A	$0,17 < EEl \leq 0,24$	$0,18 < EEl \leq 0,40$		—
	B	$0,24 < EEl \leq 0,60$	$0,40 < EEl \leq 0,95$		—
	C	$0,60 < EEl \leq 0,80$	$0,95 < EEl \leq 1,20$		—
	D	$0,80 < EEl \leq 0,95$	$1,20 < EEl \leq 1,75$		—
	E	$EEl > 0,95$	$EEl > 1,75$		—

ANNEX VII	Energy consumption		—
	The weighted energy consumption (E_c) is calculated in kWh/1 000 h as follows and is rounded to two decimal places: $E_c = \frac{P_{cor} \times 1\,000\,h}{1\,000}$ Where P_{cor} is the power corrected for any control gear losses in accordance with table 2 in directive	$P_{cor} = 6,18\,W$ $E_c = 7\,kWh/1000\,h$	—

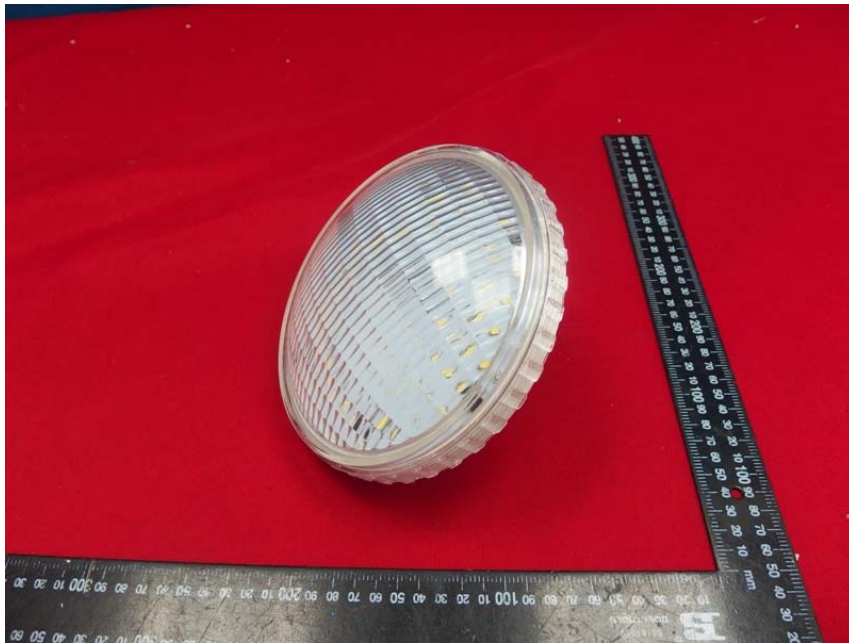
Photo documentation

Type of equipment, model: Par 56 SMD LED BULB

Details of: _____

View:

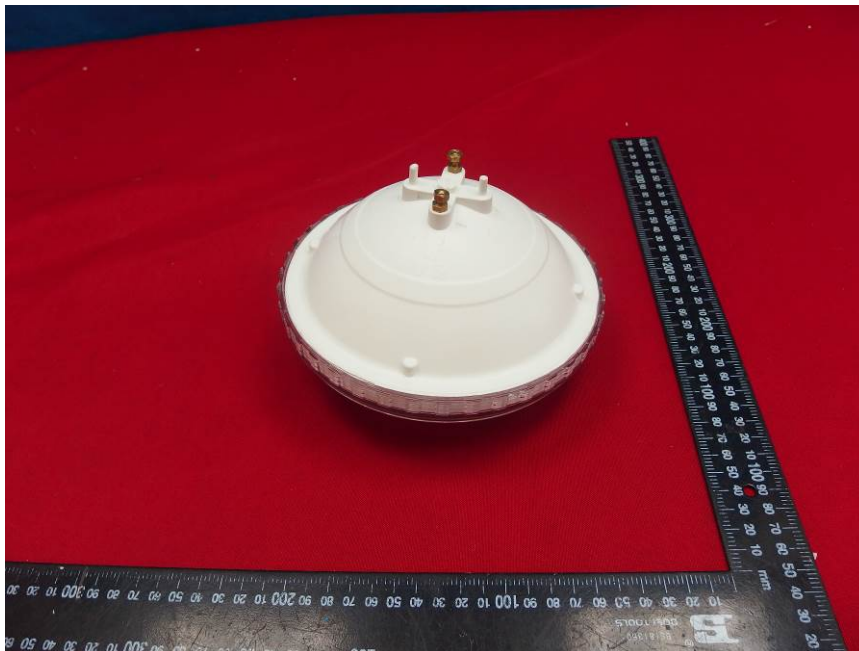
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Details of: _____

View:

- general
- front
- rear
- right
- left
- top
- bottom



--- End of Report ---