







Compliance Lado ado

Anbotek

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 labeling of electrical lamps and luminaires

Report Reference No...... SZANL190107007-01

Tested by

(printed name + signature): Dick Xiao

Supervised by

(printed name + signature) Helen Li

Date of issue.....2019-01-10

Testing Laboratory Shenzhen Anbotek Pengcheng Compliance Lab

Floor 1, Building C, Gold Power Industrial Park, Julongshan Grand Industrial Zone, Pingshan District, Shenzhen, Guangdong, China.

Testing location...... Same as above

Applicant's Name: Shenzhen Qinhan Lighting Co., Limited

A building, Chuangze Industrial City, Dalang Town, Dongguan,

Guangdong, China.

Test Specification:

Standard COMMISSION REGULATION (EU) No 874/2012

Test procedure......Test Report

Non-standard test

method.....

Test Report Form No...... 874/2012/EU_V1.3

Test Report Form(s) Originator: Shenzhen Anbotek Pengcheng Compliance Laboratory Limited

Master TRF...... N/A

Test Item Description UFO LED HIGH BAY LIGHT

Trade Mark

N/A

Manufacturer......Shenzhen Qinhan Lighting Co., Limited

Address......A building, Chuangze Industrial City, Dalang Town, Dongguan, Guangdong, China.

Model/Type reference......QH-HBUFO-150W

Ratings...... 230 VAC, 50/60 Hz, 150 W

Report No.: SZANL190107007-01

Summary of Testing:	
Tests performed (name of test and test clause):	Testing location:
The sample(s) tested complies with the requirements of COMMISSION DELEGATED REGULATION (EU) No 874/2012. The test was conducted at 230 VAC, 50 Hz.	Shenzhen Anbotek Pengcheng Compliance Laboratory Limited Floor 1, Building C, Gold Power Industrial Park, Julongshan Grand Industrial Zone, Pingshan District, Shenzhen, Guangdong, China.
Normative References:	
Non-directional lamps CIE 84:1989 EN60357:2017 EN 60969:2004 EN 62722-2-1:2016 IEC 62717:2015	Directional lamps ☐ CIE 84:1989 ☐ EN 60357:2017 ☐ EN 60969:2004 ☐ EN61167:2011 ☐ EN 62612:2015 ☐ IEC 62717:2015 ☑ EN 62722-2-1:2016
Summary of Compliance with National Differences	:
N/A Anbotek	tek Anbotek
Copy of Marking Plate:	
Copy of Marking Plate: Annotek	Anbotek



Report No.: SZANL190107007-01

Test Item Particulars:	
Lamp cap: Lamp type: Directionality type:	N/A LED
Possible Test Case Verdicts:	
Test case does not apply to the test object: Test object does meet the requirement Test object does not meet the requirement	P (Pass)
Testing:	
Date of receipt of test item Date (s) of performance of tests	
General Remarks:	
The test results presented in this report relate only to This report shall not be reproduced, except in full with laboratory. "(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to Throughout this report a comma (point) is used as the List of test equipment must be kept on file and available.	out the written approval of the Issuing testing opended to the report. the report. e decimal separator.
General Product Information:	
N/A* Anbotek	Anbotek





Measurement conditions:				Anderstek
The ambient temperature in which merelative humidity of 60%.	asurements are	being taken shall	be maintained at	25°C±1°C, and
relative fluridity of 00%.				inpose Aur
Type C goniophotometer was used for distribution, which were calculated from intervals. The product was operated in	om the software its intended ori	taken at 1° vert	tical intervals and	22.5° horizontal
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				abote. And
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K Anbore And	ofer Aup	181	nbolo	YII.



	EU 874/2012		
Clause	Requirement + Test	Result – Remark	Verdict
ANNEX I	Label potek Anbor Antonia Antonia	oten Anbo Lek abotek	N/A
cek Anbo	Label for electrical lamps presented at a point of sale		N/A
stek	(1) The label if it is not printed on the packaging	Anto tek abotek Ar	N/A
Anbotek	(2) The required information shall be included on the label	Anbotek Anbotek	N/A
Anbotek	(3) If the label is printed on the packaging, the label shall then be chosen form directive	rek Anbotek Anbotek	N/A
K Vun	(4) The design of the label	upoter. Aug stek supot	N/A
2. An	Label for luminaires presented at a point of sale	Anboten Anbo tek	N/A
Anbotek Anbotek	(1) The label shall be the relevant language version, and shall be as shown in directive required illustration	Anbotek Anbotek	N/A
Anboto	(2) The required information shall be included in the label	tek Anbotek Anbotek	N/A
3K ~1	(3) The energy label for luminaire	bot Anbot Anbot	N/A
otek A.	(4) The design of the label shall be as in the figure on directive	Anbotek Anbotek An	N/A
ANNEX II	Product fiche for electrical lamps	abotek Anbote	N/A
Anbotek	The fiche shall contain the information specified for the label.	ek Anbotek Anbotek	N/A
	Where product brochures are not supplied, the label provide with the product can also be considered to be the fiche.		N/A
ANNEX III	Technical documentation	Anbotek Anbote Am	N/A
nbotek	The technical documentation referred to in Article 3(1)(b) and (2)(a) shall include:	N/A
Anbotek	(a) The name and address of the supplier;	ek Anbotek Anbotek	N/A
K Anbo	(b) A general description of the model, sufficient for it to be unequivocally and easily identified;	ootek Anbotek Anbote	N/A
otek p	(c) Where appropriate, the reference of the harmonized standards applied;	Anbotek Anbotek Anb	N/A
hpoter.	(d) Where appropriate, the other technical standards and specification used;	Anbotek Anbotek	N/A
Anbotel	(e) The identification and signature of the person empowered to bind the supplier;	otek Anbotek Anbotek	N/A
	(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;		N/A



Clause	Paguirement L Test	Result – Remark	Verdict
Clause	Requirement + Test (g) For electrical lamps, the results of calculations	Result – Remark	verdict
	performed in accordance with Annex VII. The information contained in this technical documentation may be merged with the	nbotek Anbotek Anbo	N/A
	technical documentation provided in accordance with measures under Directive 2009/125/EC.	Anbotek Anbotek Ar	Anbotek Anbotek
NNEX IV	Information to be provided in cases where final owne product displayed	rs cannot be expected to see the	N/A
Anbote	The information referred to in Article 4(1)(a) shall be provided in the following order:	nbotek Anbotek Anbote	N/A
otek bus	(a) The energy efficiency class as defined in Annex VI;	Anbotek Anbotek An	N/A
Anbotek Anbotek	(b) Where required by Annex I, the weighted energy consumption in kWh per 1000 hours, rounded up to the nearest integer and calculated in accordance with part 2 of Annex VII.	tek Anbotek Anbotek Anbotek Anbotek	N/A
stek Anb	When other information contained in the product fiche is also provided, it shall be in the form and order specified in Annex II.	Anbotek Anbotek Anb	N/A
Anbotek Anbotek	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.	ek Anbotek Anbotek	N/A
NNEX VI	Energy efficiency class	hbote. And stek shote	PA
VUP.	The energy efficiency class of a lamp shall be detern	nined as follows:	otek
retek A	Lamps operating on external halogen lamp control gear	P _{cor} =P _{rated} x1.06	N/A
Anbotek Anbotek	Lamps operating on external LED lamp control gear	P _{cor} =P _{rated} x1.10 =147.37X1.10 =162.11 W	Anbor Anbor
cok Anbo	Fluorescent lamps of 16mm diameter (T5 lamps) and 4-pin single capped fluorescent lamps operating on external fluorescent lamp control gear	P _{cor} =P _{rated} x1.10	N/A
botek Anbotek	Other lamps operating on external fluorescent lamp control gear	$P_{\text{cor}} = P_{\text{r ated}} \times \frac{0.24\sqrt{\varnothing_{use}} + 0.0103\varnothing_{use}}{0.15\sqrt{\varnothing_{use}} + 0.0097\varnothing_{use}}$	N/A
Anbo	Lamps operating on external high-intensity discharge lamp control gear	P _{cor} =P _{rated} x1.10	N/A
ek An	Lamps operating on external low pressure sodium lamp control gear	P _{cor} =P _{rated} x1.15	N/A
ole*	For models with Φ _{use} < 1300 lumen	Anbotek Anbot A	N/A
Anbotek	P _{ref} =0.88√Φ _{use} +0.049Φ _{use}	k Anbotek Anbote	N/A
anbotek	For models withΦ _{use} ≥ 1300 lumen	16018.09	P
- o*	P _{ref} =0.07341Ф _{use}	1175.89	P





			EU 874/2012		
Clause	anbotek F	Requirement + Te	st and Ambot	Result – Remark	Verdict
Vup.	EEI=P _{cor} /P _{ref}	Aupore K	in otek an	162.11/1175.89=0.14	Panbo
rek Anho	Energy efficiency class	EEI for non-directional lamps	EEI for directional lamps	Anbotek Anbotek Anbo	botek P Ar
Pose	A++	EEI≤0.11	EEI≤0.13	Anbote, And stek	N/A
Anbore	A+	0.11 <eei≤0.17< td=""><td>0.13<eei≤0.18< td=""><td>Anboten A+ Anbotek</td><td>Potek</td></eei≤0.18<></td></eei≤0.17<>	0.13 <eei≤0.18< td=""><td>Anboten A+ Anbotek</td><td>Potek</td></eei≤0.18<>	Anboten A+ Anbotek	Potek
Anboten	A And	0.17 <eei≤0.24< td=""><td>0.18<eei≤0.40< td=""><td>otek Anbotek Anbo</td><td>N/A</td></eei≤0.40<></td></eei≤0.24<>	0.18 <eei≤0.40< td=""><td>otek Anbotek Anbo</td><td>N/A</td></eei≤0.40<>	otek Anbotek Anbo	N/A
Anbote	B Anb	0.24 <eei≤0.60< td=""><td>0.40<eei≤0.95< td=""><td>otek Anbotek Anbot</td><td>N/A</td></eei≤0.95<></td></eei≤0.60<>	0.40 <eei≤0.95< td=""><td>otek Anbotek Anbot</td><td>N/A</td></eei≤0.95<>	otek Anbotek Anbot	N/A
ek anh	C Ambo	0.60 <eei≤0.80< td=""><td>0.95<eei≤1.20< td=""><td>and otek anbotek Anbo</td><td>N/A</td></eei≤1.20<></td></eei≤0.80<>	0.95 <eei≤1.20< td=""><td>and otek anbotek Anbo</td><td>N/A</td></eei≤1.20<>	and otek anbotek Anbo	N/A
olek .	Dotek Anbo	0.80 <eei≤0.95< td=""><td>1.20<eei≤1.75< td=""><td>Anbotek Ar</td><td>N/A</td></eei≤1.75<></td></eei≤0.95<>	1.20 <eei≤1.75< td=""><td>Anbotek Ar</td><td>N/A</td></eei≤1.75<>	Anbotek Ar	N/A
o- cek	Enbotek An	EEI>0.95	EEI>1.75	Anbo tek abotek	N/A
ANNEX VII	Energy consum	ption	otek Anbote	Aubon We Work	Aupole.
Anbote'	The weighted energy consumption (E _c) is calculated in kWh/1000 h as follows and is rounded to two decimal places:			P _{cor} =147.37X1.10=162.11 W E _c =162.11 kWh/1000	ak Anbot
	$E_c = P_{cor} x 1000 \text{ h} / 1000$			Anbotek Anbo Ak	borek -
	Where P _{cor} is the power corrected for any control gear losses in accordance with table 2 in directive			Anbotek Anbote An	abotek



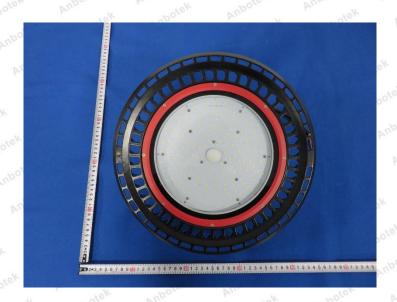


Attachment A –Test Equipment List

Equipment Name	Manufacturer	Model No.	Reference No.	Calibration Due Date
Goniophotometeric System	SENSING	GMS-3000	SE-450	Before Use
Digital Power Meter	YOKOGAWA	WT310	SE-381	2019-06-05
Integrating Sphere (2.0m)	EVERFINE	YF-1000	SE-599	Before Use
Standard Lamp	EVERFINE	D062	SE-606	2019-06-05
Standard Lamp	SENSING	DC24V100W	SE-2091	2019-01-04
Digital Power Meter	YOKOGAWA	WT210	SE-074	2019-06-05
Temperature Recorder	Agilent	34970A	SE-574	2019-06-05
Digital Caliper	UPM	111-312	SE-012	2019-06-05
Digital Multimeter	FLUKE	15B+	SE-593	2019-06-05
AC Power Source	HUAYANG	HY9010	SE-114	2019-06-05
DC Power Source	EVERFINE	WY605	SE-605	2019-06-05



achment B - Product Photo





*****END OF TEST REPORT*****