

# **TEST REPORT**

Reference No	j:	WTD24D06138191N001
Applicant	Ť.,	Blueview Elec-optic Tech Co., Ltd.
Address	sire	No.1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Shuangliu District, Chengdu City, Sichuan Province, P.R.China
Manufacturer	J. C. (2)	Blueview Elec-optic Tech Co., Ltd.
Address		No.1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Shuangliu District, Chengdu City, Sichuan Province, P.R.China
Product	Ļ:	LED strip
Model(s)	:31	AN2-8/AN2-2/AN2-4/WHE1608
Ratings	: 3	230V~,50Hz,5W
Regulation	STER STER	COMMISSION REGULATION (EU) 2019/2020 COMMISSION REGULATION (EU) 2021/341 COMMISSION DELEGATED REGULATION (EU) 2019/2015 COMMISSION DELEGATED REGULATION (EU) 2021/340
Test standard	et	See following pages
Test Category	: 3	Entrusted Test
Date of Receipt sample	1:)	2024-06-18
Date of Test	F: /	2024-06-18 to 2024-06-28
Date of Issue	; . "	2024-07-08
Test Result	-	See following pages
reproduced, except in full, with	thout	ort refer only to the sample(s) tested, this test report cannot be prior written permission of the company. The report would be invalid tute and the signatures of compiler and approver.
Address: No. 77, Houjie So	ectio	Prepared By: Waltek Testing Group Co., Ltd. on, Guantai Road, Houjie Town, Dongguan City, Guangdong, China Tel: +86-769-2267 6998 Fax: +86-769-2267 6828
Compiled by:		Approved by:
Eréc dus		Devalgin

Eric Duan / Project Engineer

Deval Qin / Designated Reviewer



Reference No.: WTD24D06138191N001 Page 2 of 25

Test item description:	LED Module			
Type of test objects	ype of test objects AN2-8/AN2-2/AN2-4/WHE1608			
Trademark	N/A			
Subcontract / test (clause):	** ** ** ** ** **	TEX LIFE RELIEF WHITE WHITE WHITE OF		
Address	The wife of	V. 14. 14. 1.		
Order description	according to (EU) 2019/2	quirements and energy labelling of light sources 020, (EU) 2021/341, (EU) 2019/2015 and (EU) or requirements of separate control gears 020 and (EU) 2021/341.		
Product information				
Light sources				
Supplier's name or trade mark	TELL WILLIAM MAIN			
Supplier's address:				
Model identifier:	AN2-8/AN2-2/AN2-4/WH	HE1608		
Type of light source:				
- Lighting technology used:		LFL T5 HO ☐ CFLni ☐ other FL ☐ HPS LED ☐ OLED ☐ mixed ☐ other		
- Non-directional or directional:	⊠NDLS □ DLS			
- Light source cap-type (or other electric interface):	□ <u>-</u> ⊠ N/A			
- Mains or non-mains:	⊠MLS □NMLS			
- Connected light source (CLS):				
- Colour-tuneable light source:	□ yes ⊠ no			
- Envelope:	⊠no □ second □ non-	-clear		
- High luminance light source:	□ yes ⊠ no			
- Anti-glare shield:	□ yes ⊠ no			
- Dimmable:	☐ yes ☐ only with speci	ific dimmers 🗵 no		
and the state of	General product pa	arameters		
Energy consumption in on-mode	[kWh/1000h]	5 At At At At At MAN		
Energy efficiency class		$\square$ A $\square$ B $\square$ C $\square$ D $\boxtimes$ E $\square$ F $\square$ G		
Useful luminous flux (Φ <sub>use</sub> ) [lm]		550 in ⊠ sphere □ wide cone □ narrow cone		
Correlated colour temperature [K]		4000K		
On-mode power (Pon) [W]		5.0		
Standby power (P <sub>sb</sub> ) [W]		0.00		
Networked standby power (Pnet) for CLS [W]		□ <u></u> ⊠ N/A		
Colour rendering index		80;		
Outer dimensions [mm]		Diameter: -; Height:(Supplier considered)		
Spectral power distribution		See Appendix 2		
Claim of equivalent power [W]		□ yes ⊠ N/A		
Chromaticity coordinates (x and	y)	x=0.3757 y=0.3764		

Reference No.: WTD24D06138191N001 Page 3 of 25

Peak luminous intensity [cd] (dire	ctional)	□ <u></u> ⊠ N/A
Beam angle [°] (directional)		□ <u></u> ⊠ N/A
R9 colour rendering index value (	LED and OLED)	⊠ 19_□ N/A
Survival factor (LED and OLED)		⊠ <u>0.90</u> □ N/A
Lumen maintenance factor (LED	and OLED)	⊠ <u>0.96</u> □ N/A
Displacement factor (cos φ1) (LE	D and OLED mains)	□ <u></u> ⊠ N/A
Colour consistency in McAdam el	llipses (LED and OLED)	⊠ <u>5</u> □ N/A
Claims that an LED light source re light source without integrated ba wattage [W] (LED and OLED mail	llast of a particular	□ yes ⊠ N/A
Flicker metric (Pst LM) (LED and		□ ⊠ N/A
Stroboscopic effect metric (SVM)	(LED and OLED mains)	\( \sum_{} \) N/A
Others (Light sources)		
Rated L <sub>70</sub> B <sub>50</sub> life (hours)		16000
Control gear	The spire with	
- Control gear technology used:	☐ HL light sources ☐ Fl☐ LED or OLED light sou	_ light sources ☐ HID light sources urces
- Multi-wattage:	□yes □no	
- Dimmable:	☐ yes ☐ no	
- Connected:	□ yes □ no	The sale of the
Possible test case verdicts		
- test case does not apply to the t	est object: N/A	(Not applicable)
- test object does meet the require	ement P(a	ss)
- test object does not meet the re-	quirement: F(a	il) and the things in
Copy of marking plate Requirements of information reference.	r to clause of this report.	
`General remark "(see remark #)" refers to a remare "(see appended table)" refers to a	rk appended to the report. a table appended to the re	
Throughout this report a point is	used as the decimal sepa	rator.
General product information:		

- 1. The samples were pre-conditioned for 60 minutes and were performed at voltage 230VAC.
- 2. The tests were performed with the sample in lighting-surface vertically downward position.
- 3. Unless otherwise specified, all tests were performed on LED Module AN2-8/AN2-2/AN2-4/WHE1608 as light sources to cover the eco design requirements.
- 4. Detail information for models covered in this report as below list:

JES	Item	Product Type	Model	Rating	ССТ	LED Type
	1	LED Module	AN2-8/AN2- 2/AN2- 4/WHE1608	230V,50Hz, LED 5.0W	4000K	AIL A





#### **Test Method**

All submitted samples were tested according to implementation measure the Commission regulation (EU) 2019/2020 and (EU) 2021/341 used in conjunction with Commission delegated regulation (EU) 2019/2015 and (EU) 2021/340.

### Regulation:

#### COMMISSION REGULATION (EU) 2019/2020

laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012.

#### COMMISSION REGULATION (EU) 2021/341

amending Regulations (EU) 2019/2020 with regard to ecodesign requirements for light sources and separate control gears.

#### COMMISSION DELEGATED REGULATION (EU) 2019/2015

supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources and repealing Commission Delegated Regulation (EU) No 874/2012. COMMISSION DELEGATED REGULATION (EU) 2021/340

amending Delegated Regulations (EU) 2019/2015 with regard to energy labelling requirements for light

#### Test / Reference Standards:

⊠ (EU) 2019/2020	⊠ (EU) 2019/2015
⊠ (EU) 2021/341	⊠ (EU) 2021/340
⊠ EN 62612:2013/AC:2016-10/A1:2017/A11:2017/AC:201	17/A2:2018
⊠ EN 62717:2017/A2:2019	☐ EN 62442-1:2018
☐ EN 62722-2-1:2016	☐ IEC 62442-2:2018
⊠ IEC/TR 61547-1:2017	⊠ CIE 84:1989
☑ IEC/TR 63158:2018 (CIE TN:006-2016)	⊠ CIE 18.2:1983
☐ IEC/TR 61341:2010	⊠ CIE 63:1984
☐ EN 50563:2011/A1:2013	⊠ CIE 15:2018
☐ IEC 62442-3:2018	⊠ CIE 13.3:1995

#### **Test Condition**

#### Initial test and final flux measurement:

The measurements were made in a draught-free room at a temperature of 25 ± 1°C, a relative humidity of 65 % maximum, an average air velocity of less than 0.2 m/s and steady state operation of the light sources. The test voltage is stable within ± 0.5 %, during stabilization periods, this tolerance being ± 0.2 % at the moment of measurements. The total harmonic content of the supply voltage shall not exceed 3 %. The harmonic content is defined as the r.m.s. summation of the individual harmonic components using the fundamental as 100 %.

#### Endurance test:

The switching cycles are to be conducted in a room with an ambient temperature of 25 ± 10°C and an average air velocity of less than 0.2 m/s. The switching cycles on the sample shall be conducted in free air in a vertical base-up position. The applied voltage during the switching cycles shall have a tolerance within 2 %. The total harmonic content of the supply voltage shall not exceed 3 %. Standards provide guidance on the supply voltage source.

#### **Photometric and Electrical Measurement**

Integrating Sphere System:

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards. The ambient temperature measured at inside the sphere.

The  $4\pi$  geometry was used during measurement. The product was operated in its intended orientation in application and calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm, and was recorded in this report.

Goniophotometer System:





The system includes AC power source, digital power meter, DC power supply and goniophotometer. The system is calibrated by standard light source before measurement. The standard light source has been calibrated regularly and traceable to the National Primary Standards. The ambient temperature measured at a point not more than 1 m from the sample and at the same height as the sample.

The type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application, and was recorded in this report.

#### **Flicker Measurement**

#### Equipment:

- 1) The photodetector used for photometric measurements shall be a silicon detector corrected to closely fit the Commission Internationale de l'Eclairage (CIE) spectral luminous efficiency curve (V). Ensure that the measurement equipment receives the appropriate voltage range from the photodetector, using an amplifier if necessary.
- 2) The equipment measurement period shall be ≥ 100 ms.
- 3) The equipment sampling rate used shall be ≥ 2 kHz.

#### Test Procedure:

- a) Install the sample in the test environment without a dimmer in the circuit.
- b) Set power supply to rated voltage and frequency of the device. If a range is specified, test sample at the midpoint of the range.
- c) Apply rated voltage/frequency to the device.
- d) If sample has been stabilized for measurements previously and the stabilization time recorded, the sample may be considered stabilized after operating for this period of time.
- e) Record readings from measurement equipment to determine sample's light output periodic frequency. Calculate the flicker index and percent flicker, as applicable.
- f) Remove power from sample.

The reported values of P<sub>st</sub>, SVM show the highest value measured. the waveform digitizer used to capture the waveform data used for the calculation of the reported metrics must have:

Parameter		Units	Value
Dunomia nongo of usuaform amplituda	P <sub>st</sub>		≥ 1000:1 (60 dB)
Dynamic range of waveform amplitude	SVM	ancie with	≥ 100:1 (40 dB)
Compling Time	Pst	Seconds	≥ 180
Sampling Time	SVM	Seconds	≥ 1
Compline Date	P <sub>st</sub>	kHz	≥ 10
Sampling Rate	SVM	kHz	≥ 20
Townsel bandwidth ( 2 dD autoff fraguenau)	P <sub>st</sub>	kHz	≥ 0.5
Temporal bandwidth (-3 dB cutoff frequency)	SVM	kHz	≥ 5



Reference No.: WTD24D06138191N001 Page 6 of 25

8		COMMISSION REGULATION (EU) 2019/2020 and (EU	) 2021/341	
Cla	ause	Requirement + Test	Result – Remark	Verdict

Annex I	Definitions applicable for the Annex	es	11, 1	, ,	P	
Annex II	Ecodesign requirements					
TER WATER	For the purposes of compliance and vertice compliance with the requirements of the measurements and calculations shall be the harmonised standards the reference not been published for this purpose in the European Union, or other reliable, account the other than the control of the state-of-the-art.	See page 4.	P NITE			
1.	Energy efficiency requirements	Tile Miles	The 21	. 4	Р	
(a)	From 1 September 2021, the declared a light source $P_{on}$ shall not exceed the power $P_{onmax}$ , defined as a function of t luminous flux $\Phi_{use}$ and the declared co CRI as follows:	maximum al the declared	lowed useful	See appendix 1	Р	
N. C. C.	$P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$	1	st set	P <sub>onmax</sub> = 6.6W	Р	
antifet antif	- The values for threshold efficacy (η) a are specified in below table, depending type.	THE MATTER MATTER	Р			
	Table: Threshold efficacy (η) and	- L 1	Р			
	Light source description  Light source (η)		End loss factor (L)	Mure mer a	Р	
	Organic light-emitting diode (OLED)	65.0	1.5	me me m	N/A	
	Light-emitting diode (LED)	120.0	1.5	η = 120.0; L = 1.5	Р	
The s	Connected LED light sources (LED CLS)		2.0	of the late	N/A	
ing and	- Basic values for correction factor (C) source type, and additions to C for spe features are specified in below table.	TET TET	Р			
+ 30t	Table: Correction factor C depend characteristics	at let of	P			
	Light source type	Write Suria	Basic C value	ar ar ar	Р	
	Non-directional (NDLS) not operating on mains (NMLS)		1.00	TIT MALE MALE	N/A	
	Non-directional (NDLS) operating on mains (MLS)		1.08	C=1.08	Р	
	Directional (DLS) not operating on mains 1.15 (NMLS)			Whitek Whitek Wh	N/A	
	Directional (DLS) operating on mains (	MLS)	1.23	d 15 5	N/A	
	Special light source feature	В	onus on C	to me in	N/A	
	DLS with anti-glare shield		+0.20	it the the	N/A	



Reference No.: WTD24D06138191N001 Page 7 of 25

3	COMMISSION REGULATION (EU) 2019/2020 and (EU	J) 2021/341	
Clause	Requirement + Test	Result – Remark	Verdict

	Colour-tuneable light source (CTLS)	+0.10	at at all	N/A	
	High luminance light sources (HLLS)	+0.0058 × Luminance- HLLS - 0.0167	MULTER MULTER	N/A	
	The bonus for HLLS shall not be combined value for DLS (basic C-value for NDLS shall HLLS).		White white wh	N/A	
21/12 1	- Efficacy factor (F) is:	t set set .	site and white	Р	
J. St.	1.00 for non-directional light sources (NDL	S, using total flux)	F = 1.00	Р	
no in	0.85 for directional light sources (DLS, usi	ng flux in a cone)	with the	N/A	
A L	- CRI factor (R) is:	24 24	* *	Р	
in the	0.65 for CRI ≤ 25;	LIFE STEE JALIE	White they all	N/A	
y wet	(CRI+80)/160 for CRI > 25, rounded to two	o decimals.	R = 1.00	r P√	
Whitek Whi	Light sources that allow the end-user to account and/or the beam angle of the emitted light values for useful luminous flux, colour rene and/or correlated colour temperature (CCT the directional/non-directional status of the be evaluated using the reference control status.	, thus changing the dering index (CRI) Γ), and/or changing a light source, shall	Tet united united	N/A	
et see	The standby power P <sub>sb</sub> of a light source sh W.	nall not exceed 0.5	0.5 See appendix 1		
t Let	The networked standby power P <sub>net</sub> of a co source shall not exceed 0.5 W.	nnected light	ar ar ar	N/A	
AL.	The allowable values for P <sub>sb</sub> and P <sub>net</sub> shall together.	not be added	ALL MULT WAS	N/A	
(b)	From 1 September 2021, the values set in minimum energy efficiency requirements control gear operating at full-load shall app	STATE WILL	N/A		
et de	Table: Minimum energy efficiency for sepa full-load	an an a	N/A		
	Declared output power of the control gear (Pcg) or declared power of the light source (Pls) in W	Minimum energy efficiency	ancie anci ani	N/A	
	Control gear for LED or OLED light sources all wattages Pcg	P <sub>cg</sub> <sup>0.81</sup> /(1.09 × P <sub>cg</sub> <sup>0.81</sup> + 2.10)	the state of	N/A	
TEK WILE	Multi-wattage separate control gears shall requirements according to the maximum of which they can operate.	and and	N/A		
MUNITER.	The no-load power P <sub>no</sub> of a separate contrexceed 0.5 W. This applies only to separa which the manufacturer or importer has detechnical documentation that it has been coload mode.	NATED WHITE SHIP	N/A		



Reference No.: WTD24D06138191N001 Page 8 of 25

Clause	Requirement + Test		Result – Remark	Verdic
"Let"	my my my	. A A A	THE METER MAIN	100
allek (	The standby power P <sub>st</sub> exceed 0.5 W.	of a separate control gear shall not	ent set set	N/A
	The networked standb control gear shall not e	y power P <sub>net</sub> of a connected separate exceed 0.5 W.	the set	N/A
الله الأن ما	The allowable values f together.	mer and a	N/A	
2.		021, the functional requirements ble shall apply for light sources:	unite unit uni	Р
all .	Table: Function	al requirements for light sources	THE LIFE MITE	Р
	Colour rendering	CRI ≥ 80	See appendix 1	Р
	it was sure was	CRI > 0 for HID with Φ <sub>use</sub> > 4 kIm	et life while	N/A
	MALTER MALTER MALTER	CRI > 0 for light sources intended for Use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI < 80	Martet Martet on	N/A
Displacement factor	No limit at P <sub>on</sub> ≤ 5 W	n n n	N/A	
	(DF, cos φ1) at power input Pon for	DF ≥ 0.5 at 5 W < P <sub>on</sub> ≤ 10 W	THE STATE STATE	N/A
	LED and OLED MLS	DF ≥ 0,7 at 10 W < P <sub>on</sub> ≤ 25 W	See appendix 1	N/A
		DF ≥ 0,9 at 25 W < P <sub>on</sub>	See appendix 1	N/A
White.	Lumen maintenance factor (for LED and OLED)	The lumen maintenance factor $X_{LMF}\%$ after endurance testing according to Annex V shall be at least $X_{LMF,MIN}\%$ calculated as follows: $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	X <sub>LMF,MIN</sub> %= 96% See appendix 1	TEN VINIT
	Set white white an	If the calculated value for X <sub>LMF,MIN</sub> exceeds 96.0 %, an X <sub>LMF,MIN</sub> value of 96.0 % shall be used	et writer writer	antier ~
where the	Survival factor (for LED and OLED)	Light sources should be operational as specified in row 'Survival factor (for LED and OLED)' of Annex IV, Table 6, following the endurance testing given in Annex V.	See appendix 1	Р
	Colour consistency for LED and OLED light sources	Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.	See appendix 1	Р
4 41	Flicker for LED and OLED MLS	P <sub>st</sub> LM ≤ 1.0 at full-load	See appendix 1	N/A
WAL.	Stroboscopic effect for LED and OLED MLS	SVM ≤ 0.9 at full-load; From 1 September 2024: SVM ≤ 0,4 at full- load	See appendix 1	N/A
	Sight mater analysis and	No limit for light sources intended for use in outdoor applications, industrial applications or other applications	at the test	N/A

COMMISSION REGULATION (EU) 2019/2020 and (EU) 2021/341



Reference No.: WTD24D06138191N001 Page 9 of 25

\$	COMMISSION REGULATION (EU) 2019/2020 and (EU	J) 2021/341	
Clause	Requirement + Test	Result – Remark	Verdict

	where light < 80	nting standards allow a CRI	A A A	# 30#
OF SH	Information requirements	MULTER ANDLES MULTER AND	Supplier considered	N/A
131	From 1 September 2021 the follow requirements shall apply:	ving information	mer mer	N/A
(a)	Information to be displayed on the	light source itself	LIE MITE	N/A
MULTER ME	For all light sources, except CTLS HID, the value and physical unit o (lm) and correlated colour temper in a legible font on the surface if, a related information, there is suffici without unduly obstructing the light	f the useful luminous flux ature (K) shall be displayed after the inclusion of safety- ent space available for it	CIFER WATER WATER	N/A
ek milek	For directional light sources, the bindicated.	eam angle (°) shall also be	- Mairiet Mairiet	N/A
JUNITER J	If there is room for only two values and the correlated colour tempera there is room for only one value, t shall be displayed.	ture shall be displayed. If	anitest anitest au	N/A
(b)	Information to be visibly displayed	on the packaging	ite with our	N/A
(1)	Light source placed on the marker product	t, not in a containing	Supplier considered	N/A
	If a light source is placed on the mean product, in a packaging containing displayed at a point-of-sale prior to information shall be clearly and prepackaging:	g information to be visibly to its purchase, the following	until united a	N/A
LITER SUNL	(a) the useful luminous flux (Φuse large as the display of the on-mod indicating if it refers to the flux in a cone (120°) or in a narrow cone (9	le power (Pon), clearly a sphere (360°), in a wide	LEY WHITE WHITE	N/A
er appeile	(b) the correlated colour temperat 100 K, also expressed graphically correlated colour temperatures the	or in words, or the range of	White white	N/A
71 - 1	(c) the beam angle in degrees (for or the range of beam angles that		MUTTER MUTE ON	N/A
wes on	(d) electrical interface details, e.g. type of power supply (e.g. 230 V		LIER WILLE WILL	N/A
TEN SINCE	(e) the L <sub>70</sub> B <sub>50</sub> lifetime for LED and expressed in hours;	OLED light sources,	SAVILLE SAVILE	N/A
y 560	(f) the on-mode power (Pon), expre	essed in W;	at set	N/A
NATES TO	(g) the standby power (P <sub>sb</sub> ), expre the second decimal. If the value is from the packaging;		WALL MILET OF	N/A
	(h) the networked standby power W and rounded to the second dec		at At S	N/A



Reference No.: WTD24D06138191N001 Page 10 of 25

Clause	Requirement + Test	Result – Remark	Verdict
Jiddoc	Trequirement - Test	result remark	Volulot
200	may be omitted from the packaging;	The same same	- 13
INCTER JUNI	(i) the colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set;	TEX WILLEY WATER	N/A
rest ancir	(j) if CRI< 80, and the light source is intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a CRI< 80, a clear indication to this effect.	MULTER MULTER IN	N/A
MUTEL W	<ul> <li>(k) if the light source is designed for optimum use in non-standard conditions (such as ambient temperature Ta ≠ 25 °C or specific thermal management is necessary): information on those conditions;</li> </ul>	STET WILLET WITE	N/A
et water	(I) a warning if the light source cannot be dimmed or can be dimmed only with specific dimmers or with specific wired or wireless dimming methods. In the latter cases a list of compatible dimmers and/or methods shall be provided on the manufacturer's website;		N/A
MILITER.	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place;	SPLIER WHITER WHIT	N/A
ncie wri	(n) if the light source is within the scope of Directive 2012/19/EU, without prejudice to marking obligations pursuant to Article 14(4) of Directive 2012/19/EU, or contains mercury: a warning that it shall not be disposed of as unsorted municipal waste.	TER WHITE WALTER	N/A
MUTTER	Items (a) to (d) shall be displayed on the packaging in the direction meant to face prospective buyer; for other items this is also recommended, if space permits.	WALLEY WHITE WAS	N/A
When a	For light sources that can be set to emit light with different characteristics, the information shall be reported for the reference control settings. In addition, a range of obtainable values may be indicated.	Rife White Whitek	N/A
est spring	The information does not need to use the exact wording on the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.	AND TEX ON	N/A
(2)	Separate control gears	At 15 5	N/A
AUUTER AU	If a separate control gear is placed on the market as a stand- alone product and not as a part of a containing product, in a packaging containing information to be visibly displayed to potential buyers, prior to their purchase, the following information shall be clearly and prominently displayed on the packaging:	THE WILLEY WILLES	N/A
et writes	(a) the maximum output power of the control gear (for HL, LED and OLED) or the power of the light source for which the control gear is intended (for FL and HID);	MULTER MILITER MIN	N/A
State	(b) the type of light source(s) for which it is intended;	A A S	N/A
10, 1	(c) the efficiency in full-load, expressed in percentage;	he me and	N/A
d.	(d) the no-load power (Pno), expressed in W and rounded to	1 1 11	N/A



Reference No.: WTD24D06138191N001 Page 11 of 25

Clause	COMMISSION REGULATION (EU) 2019/2020 and (EU) Requirement + Test	Result – Remark	Verdic
Olause	Trequirement - Test	result – remark	Verdic
united an	the second decimal, or the indication that the gear is not intended to operate in no-load mode. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;	Tex white white	MUNITER.
	(e) the standby power (P <sub>sb</sub> ), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;	White white w	N/A
united w	(f) where applicable, the networked standby power (P <sub>net</sub> ), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites;	and	N/A
	(g) a warning if the control gear is not suitable for dimming of light sources or can be used only with specific types of dimmable light sources or using specific wired or wireless dimming methods. In the latter cases, detailed information on the conditions in which the control gear can be used for dimming shall be provided on the manufacturer's or importer's website;	antiek antiek ant	N/A
nriter an	(h) a QR-code redirecting to a free-access website of the manufacturer, importer or authorised representative, or the internet address for such a website, where full information on the control gear can be found.	Tet white white	N/A
MILIER	The information does not need to use the exact wording on the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.	united anticat and	N/A
(c)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative	STEET MITTER SANITE	N/A
(1)	Separate control gears	*	N/A
nii ani Ek ite	For any separate control gear that is placed on the EU market, the following information shall be displayed on at least one free-access website:	The White White	N/A
t Left	(a) the information specified in point 3(b)(2), except 3(b)(2)(h);	Mun Mun M	N/A
and.	(b) the outer dimensions in mm;	white while whe	N/A
an itek	(c) the mass in grams of the control gear, without packaging, and without lighting control parts and non-lighting parts, if any and if they can be physically separated from the control gear;	itek milek milek	N/A
lifer <b>W</b> NLT EK MITEK	(d) instructions on how to remove lighting control parts and non-lighting parts, if any, or how to switch them off or minimise their power consumption during control-gear testing for market surveillance purposes;		N/A
MUNITER A	(e) if the control gear can be used with dimmable light sources, a list of minimum characteristics that the light sources should have to be fully compatible with the control gear during dimming, and possibly a list of compatible dimmable light sources;		N/A



Reference No.: WTD24D06138191N001 Page 12 of 25

Clause	Requirement + Test	Result – Remark	Verdict
The Contract of	the sure of the feet	JE STE WIT	- No.
allet al	(f) recommendations on how to dispose of it at the end of its life in line with Directive 2012/19/EU.		N/A
on on the	The information does not need to use the exact wording in the list above. Alternatively, it may be displayed in the form of graphs, drawings or symbols.	F WITE WITE	N/A
(d)	Technical documentation	4	N/A
(1)	Separate control gears	Inlie Mach was	N/A
white w	The information specified in point 3(c)(2) of this Annex shall also be contained in the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC.	LITER WALLER WHILE	N/A
(e)	Information for products specified in point 3 of Annex III	and me	N/A
Annex IV	Verification procedure for market surveillance purposes		N/A
r "4	Shall verify 10 units of the light source model or 3 units of the separate control gear model.	mer me m	N/A
White white	For light sources with linear geometry which are scalable but of very long length, such as LED strips or strings, verification testing of market surveillance authorities shall consider a length of 50 cm, or, if the light source is not scalable there, the nearest value to 50 cm. The light source manufacturer or importer shall indicate which separate control gear is suitable for this length.	Inche white while	N/A
Annex V	Functionality after endurance testing	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
MUTTER OF	Models of LED- and OLED- light sources shall undergo endurance testing to verify their lumen maintenance and survival factor. This endurance testing consists of the test method outlined below. The authorities of a Member State shall test 10 units of the model for this test.	MINITED MINITED MINITED	N/A
mer and	The endurance test for LED and OLED light sources shall be conducted as follows:	PER WILLIES MILITE	N/A
Tex Jule	(a) Ambient conditions and test setup	· The The	N/A
* #	(b) Endurance test method	TM-21 methods was used	N/A



Reference No.: WTD24D06138191N001 Page 13 of 25

	COMMISSION REGULATION (EU) 2019/2015 and (EU	J) 2021/340	
Clause	Requirement + Test	Result – Remark	Verdict

Annex I	Definitions applicable for	the Annexes			Р
Annex II	Energy efficiency classes	and calculation metho	d	All The State	P
is white	The energy efficiency class determined as set out in be mains efficacy η <sub>TM</sub> , which is declared useful luminous flu power consumption P <sub>on</sub> and factor F <sub>TM</sub> of below table, as	low table, on the basis on the basis on the calculated by dividing the calculated by the declared of multiplying by the application.	ne n-mode	See appendix 1	Р
	$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} (Im/V)$	1) Live Mr. Mr.	11/	4	Р
are al	Table: Energy efficie	ncy classes of light sour	ces	LITER MILE MILE	Р
	Energy efficiency class	Total mains efficacy η <sub>T</sub>	м (lm/W)	4	Р
	Α	210 ≤ ηтм	A .	the life with	N/A
	B + B	185 ≤ η <sub>TM</sub> < 210	J. 24	70 20	N/A
	The Mark of	160 ≤ η <sub>TM</sub> < 185	5 ct 26	TEN JEEN IS	N/A
	D	135 ≤ η <sub>™</sub> < 160	3/1/2	24. 24. 24	N/A
	MITE WILL MY	110 ≤ η <sub>TM</sub> < 135	5 1	Class E	Р
	FA	85 ≤ η <sub>™</sub> < 110	"ALT.	ing my	N/A
500	G CONTRACTOR	η <sub>TM</sub> < 85		at the set	N/A
	Table: Factors F	T <sub>TM</sub> by light source type	الع محادال	in the the	Р
	Light source	ce type	Factor F <sub>™</sub>	DITER WHITER	P
	Non-directional (NDLS) ope	erating on mains (MLS)	1.000	F <sub>TM</sub> =1.000	Р
	Non-directional (NDLS) not (NMLS)	operating on mains	0.926	until until whi	N/A
	Directional (DLS) operating	on mains (MLS)	1.176	At At S	N/A
	Directional (DLS) not opera	ting on mains (NMLS)	1.089	her the the	N/A
Annex III	Label for light sources	an an a		at at all	N/A
1.	LABEL	the state state.	Willey The	and when	N/A
itet anite et iset	If the light source is intended of sale, a label produced in information as set out in this individual packaging.	the format and containing	g	Supplier considered	N/A
me.	Suppliers shall choose a lal point 1.2 of this Annex. The		1.1 and	White Man Man	N/A
antil an	—for the standard-sized lab	oel at least 36 mm wide a	and 72	LIE WILLE WHILE	N/A
NUTER WILL	—for the small-sized label ( 20 mm wide and 54 mm hig		at least	EX MITER MILIER	N/A
iet miet	The packaging shall not be mm high.	smaller than 20 mm wid	e and 54	CTENT STEP IN	N/A
MULTER	Where the label is printed in nevertheless remain propor above. The small-sized laboration with a width of 36 mm or me	tionate to the specification shall not be used on page 1	ons	NUTER WILLER WALL	N/A
100	The label and the arrow ind	icating the energy efficie	ncy class	A A A	N/A



Reference No.: WTD24D06138191N001 Page 14 of 25

COMMISSION REGULATION (EU) 2019/2015 and (EU) 2021/340				
Clause	Requirement + Test	Result – Remark	Verdict	
Jan Carlot	and some all the tent of the tent	STEEL STATE SHALL	de	
antifek jan	may be printed in monochrome as specified in points 1.1 and 1.2, only if all other information, including graphics, on the packaging is printed in monochrome.	Tet with while	SURLTEN S	
TEN WILLER	If the label is not printed on the part of the packaging meant to face the prospective customer, an arrow containing the letter of the energy efficiency class shall be displayed as hereafter, with the colour of the arrow matching the letter and the colour of the energy class. The size shall be such that the label is clearly visible and legible. The letter in the energy efficiency class arrow shall be Calibri Bold and positioned in the centre of the rectangular part of the arrow, with a border of 0,5 pt in 100 % black placed around the arrow and the letter of the efficiency class.	Supplier considered	N/A	
1.1	Standard-sized label:	er mile mile.	N/A	
1.2	Small-sized label:		14/7	
1.3	The following information shall be included in the label for light sources:	MUTTER MUTTER M	N/A	
L. John	I. supplier's name or trade mark;	at at s	N/A	
Th.	II. supplier's model identifier;	no me in	N/A	
Alt .	III. scale of energy efficiency classes from A to G;	A ST ST	N/A	
one wi	IV. the energy consumption, expressed in kWh of electricity consumption per 1000 hours, of the light source in onmode;	Tet stet	N/A	
20	V. QR-code;	24, 24, 2	N/A	
1 J. C.	VI. the energy efficiency class in accordance with Annex II;	The left of	N/A	
20,	VII. the number of this Regulation that is '2019/2015'.	me me in	N/A	
2.	LABEL DESIGNS	A A 1	N/A	
2.1	Standard-sized label	Vice and the	N/A	
2.2	Small-sized label	A A A	N/A	
2.3	Whereby	e and white	N/A	
Annex V	Product information	Supplier considered	N/A	
1.	Product information sheet	n. n.	N/A	
1.1	Pursuant to point 1(b) of Article 3, the supplier shall enter into the product database the information as set out in page 2-3, including when the light source is a part in a containing product.	See page 2-3	N/A	
NLIER WAL	For light sources that can be tuned to emit light at full-load with different characteristics, the values of parameters that vary with these characteristics shall be reported at the reference control settings.	of white shirt	N/A	
IET WALTE	If the light source is no longer placed on the EU market, the supplier shall put in the product database the date (month, year) when the placing on the EU market stopped.	Whitek White Wh	N/A	
2.	Information to be displayed in the documentation for a containing product	Supplier considered	N/A	
J. 2	If a light source is placed on the market as a part in a	at at set	N/A	



Reference No.: WTD24D06138191N001 Page 15 of 25

Clause	Requirement + Test	Result – Remark	Verdic
Olause	Trequirement i rest	result – Remark	Verdic
unitest sin	containing product, the technical documentation for the containing product shall clearly identify the contained light source(s), including the energy efficiency class.		MULLER.
ited white	If a light source is placed on the market as a part in a containing product, the following text shall be displayed, clearly legible, in the user manual or booklet of instructions:	MULTER MINITER W	N/A
et whitet	'This product contains a light source of energy efficiency class <x>' where <x> shall be replaced by the energy efficiency class of the contained light source.</x></x>	united whited whi	N/A
out of	If the product contains more than one light source, the sentence can be in the plural, or repeated per light source, as suitable.	et set week	N/A
3.	Information to be displayed on the supplier's free access website:	Supplier considered	N/A
The state of	(a) The reference control settings, and instructions on how they can be implemented, where applicable;	Murr Aur An	N/A
unit.	(b) Instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimize their power consumption;	AUTE MUTE MUSE	N/A
one on cies cir	(c) If the light source is dimmable: a list of dimmers it is compatible with, and the light source — dimmer compatibility standard(s) it is compliant with, if any;	The world with	N/A
it it	(d) If the light source contains mercury: instructions on how to clean up the debris in case of accidental breakage;	mr m 1	N/A
Aur.	(e) Recommendations on how to dispose of the light source at the end of its life in line with Directive 2012/19/EU of the European Parliament and of the Council	white and	N/A
4.	Information for products specified in point 3 of Annex IV	Supplier considered	N/A
Annex VI	Technical documentation	Supplier considered	N/A
1. Water	The technical documentation referred to in point 1(d) of Article 3 shall include:	White white w	N/A
+ 10+	(a) the name and address of the supplier;	* # 1	N/A
me.	(b) supplier's model identifier;	with whis with	N/A
WITE OF	(c) the model identifier of all equivalent models already placed on the market;	ited altest saired	N/A
ar s	(d) identification and signature of the person empowered to bind the supplier;		N/A
EX MUTER	(e) the declared values for the following technical parameters; these values are considered as the declared values for the purpose of the verification procedure in Annex IX:	See Appendix 1	N/A
- 1	(1) useful luminous flux (Φ <sub>use</sub> ) in lm;	de de la	N/A
11/2 1	(2) colour rendering index (CRI);	been one one	N/A
at .	(3) on-mode power (Pon) in W;	4 4	N/A



Reference No.: WTD24D06138191N001 Page 16 of 25

COMMISSION REGULATION (EU) 2019/2015 and (EU) 2021/340				
Clause	Requirement + Test	Result – Remark	Verdic	
400	the say of the the	STEEL STATE SHALL	are	
det s	(4) beam angle in degrees for directional light sources (DLS);	at at all	N/A	
in in	(4a) peak luminous intensity in cd for directional light sources (DLS);	and the	N/A	
ar and	(5) correlated colour temperature (CCT) in K;	THE WALL OF	N/A	
at at	(6) 'standby power (P <sub>sb</sub> ) in W, including when it is zero;		N/A	
me	(7) networked standby power (P <sub>net</sub> ) in W for connected light sources (CLS);	antier water and	N/A	
WALTER W	(7a) R9 colour rendering index value for LED and OLED light sources;	LIFE WILLER WILLE	N/A	
d a	(7b) survival factor for LED and OLED light sources;	1 4 4	N/A	
in the	(7c) lumen maintenance factor for LED and OLED light sources;	and make	N/A	
Ten Muritan	(7d) indicative lifetime L70B50 for LED and OLED light sources;	WHITE WILLIEF W	N/A	
L CONTER S	(8) displacement factor (cos φ1) for LED and OLED mains light sources;	WITE MITEL MALT	N/A	
THE R	(9) colour consistency in MacAdam ellipse steps for LED and OLED light sources;	at the state	N/A	
in 2.	(10) luminance-HLLS in cd/mm² (only for HLLS)	an in	N/A	
all all	(11) flicker metric (P <sub>st</sub> LM) for LED and OLED light sources;	A Strategick	N/A	
or sol	(12) stroboscopic effect metric (SVM) for LED and OLED light sources;	an an a	N/A	
Whitek W	<ul> <li>(13) excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:</li> <li>Colour Dominant wave-length range</li> <li>Blue 440 nm — 490 nm</li> <li>Green 520 nm — 570 nm</li> <li>Red 610 nm — 670 nm</li> </ul>	AND THE AND THE	N/A	
	(f) the calculations performed with the parameters, including the determination of the energy efficiency class;	Whitek whilek w	N/A	
* NUTE*	(g) references to the harmonised standards applied or other standards used;	the street and	N/A	
	(h) testing conditions if not described sufficiently in point (g);	11 21 2	N/A	
antite an	(i) the reference control settings, and instructions on how they can be implemented, where applicable;	LIEN WALTER WALTER	N/A	
est est	(j) instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimise their power consumption during light source testing;	of white white .	N/A	
2110	(k) specific precautions that shall be taken when the model is assembled, installed, maintained or tested.	were my m	N/A	
Annex VII	Information to be provided in visual advertisements, in technical promotional material and in distance selling, except distance selling on the internet	Supplier considered	N/A	



Reference No.: WTD24D06138191N001 Page 17 of 25

\$	COMMISSION REGULATION (EU) 2019/2015 and (EU	J) 2021/340	
Clause	Requirement + Test	Result – Remark	Verdict

Annex	Information to be provided in the case of distance selling	Supplier
VIII	on the internet	considered

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# **Appendix 1-Summary of Test**

Su	Summary of testing period	
1.	⊠ Report for initial test.	
2.	☐ The previous report is replaced by this report. The 3600 hours endurance tests of equipment under test (EUT) are updated in this report.	

Parameter	Declared value	Determined value (Arithmetic mean)	Verdict
Full-load on-mode power Pon [W]	5.0	4.7	Р
Displacement factor [0-1]	0.97	0.978	Р
Useful luminous flux Фuse [lm]	550	563.3	P
No-load power P <sub>no</sub> [W]	HALLE WALLE	m - m - m	N/A
Standby power P <sub>sb</sub> [W]	0.00	0.00	Р
Networked standby power P <sub>net</sub> [W]	me me m		N/A
CRI Ra [0-100]	80	85.1	Р
CRI R9 [0-100]	17	17-	Р
Flicker [P <sub>st</sub> LM]	0.2	0.2	Р
Stroboscopic effect [SVM]	0.1	0.038	P
Colour consistency [MacAdam ellips steps]	5	1.6	Р
Beam angle [°]	TER TIER MET	MALTE WILL WALL	N/A
Total mains efficacy η <sub>TM</sub> [lm/W]	114.6	121.1	Р
Lumen maintenance factor (for LED and OLED)	0.96	0.96	P*
Survival factor (for LED and OLED)	0.90	THE STATE STATE	P*
Excitation purity [%]	mr mr. 1	- m - m	N/A
Correlated colour temperature [K]	4000	4130	Р
Peak luminous intensity [cd]	24, 24, 24,	A - A A	N/A

<sup>• \*</sup>means that this test method was specified by the applicant.



Reference No.: WTD24D06138191N001 Page 19 of 25

Appendix 2-Test Data Sheet

<u>Test Data Sheet 1: Energy Efficiency</u>

Model: AN2	-8/AN2-2/AN2-4/WHE	E1608			
Sample No.	Full-load on-mode power Pon [W]	Useful luminous flux Φ <sub>use</sub> (sphere 360°) [lm]	Efficacy based on Φ <sub>use</sub> [lm/W]	Total mains efficacy η <sub>™</sub> [lm/W]	Standby power P <sub>sb</sub> [W]
1	4.656	567.97	121.99	121.99	0.00
2	4.656	553.33	118.84	118.84	0.00
3	4.661	573.28	123.00	123.13	0.00
4	4.656	562.53	120.82	120.82	0.00
J 5 JE	4.656	559.15	120.09	120.09	0.00
6	4.651	564.57	121.39	121.26	0.00
7	4.651	567.07	121.92	121.79	0.00
8	4.656	567.54	121.89	121.89	0.00
.u 9 .u/	4.656	555.16	119.24	119.24	0.00
10	4.656	562.4	120.79	120.79	0.00
Arithmetic mean	4.7	563.3	121.0	121.0	0.00

# **Test Data Sheet 2: Functional**

Model: AN2-	8/AN2-2/AN2-4/WHE	1608			
Sample No.	Colour rendering index (CRI)	Colour consistency (SDCM) [step]	Displacement factor (DF, cosφ1)	Flicker (P <sub>st</sub> LM)	Stroboscopic effect (SVM)
mere 1 mere	85.2	1.9	0.978	0.2	0.038
2	85.1	2.2	0.978	0.2	0.038
3	85.1	2.0	0.979	0.2	0.038
4	85.1	2.1	0.978	0.2	0.038
5	85.1	1.9	0.978	0.2	0.038
6	85.1	1.9	0.977	0.2	0.038
7	85.1	2.1	0.977	0.2	0.038
8 10	85.2	2.3	0.978	0.2	0.038
9	85.1	1.8	0.978	0.2	0.038
10	85.1	2.1	0.978	0.2	0.038
Arithmetic mean	85	2 2	0.98	0.2	0.038







# **Test Data Sheet 3: Functional-Continued**

Model: AN2-8	8/AN2-2/AN2-4/WH	E1608			
Sample No.	Total luminous flux Φ <sub>Total</sub> [lm]	Total luminous flux at ON 3600 hours [lm]	Lumen* maintenance factor (X <sub>LMF</sub> %)	Switching cycles (1200 cycles)	Survival factor
Jan 1 Jan	WILL WHEEL MY	and the	A - A	at the	F (5)
2	* * *	The State	Marca Carrier Mary	2115-711	
3	The The	in in	at the st	- JEE- NOTES	intites whi
4	at at at	THE THE W	The Marie also	47, 42,	- J
5	Ang - 440	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the set	ALTER - NITER N	The Marie
6	- 18th - 18th	The Wall	me - m		at the
7.11	24 24 2	- I	- Set - Set 10	The water with	July 1
8 4	UTER STEEL ON	te Maria - and	44. Th. 2.	1 7 B	
9	11. 25.	A A+	STEEL STEEL SOL	WILL WILL	mr - m
10	The William William	West Albert	h 4	y- J+	d - d
Arithmetic mean	of the state	NIET WILET W	TEN WILLE	ani -un-	ir in

<sup>•</sup> Please see test report WTD24D06138191N-002 for details.

# Test Data Sheet 4: Other Parameter

Model: AN2-8	/AN2-2/AN2-4/WHE1608		
Sample No.	Power factor (PF)	R9 colour rendering index	Correlated colour temperature CCT [K]
1.	0.964	which will 17 with with	4125
2	0.964	17 At 18	4139
3	0.965	17	4129
4	0.964	17.0	4134
5 5	0.964	17	4122
6	0.963	17	4125
7 7	0.963	17	4132
8	0.964	17	4141
9	0.964	17	4122
10	0.964	17	4132
Arithmetic mean	0.964	17 17	4130



Reference No.: WTD24D06138191N001 Page 21 of 25

# Test Data Sheet 5: Other Parameter-Continued (Arithmetic mean)

Model: AN2-8/AN2-2/AN2-4/WHE1608	THE WALL MAN WALL AND THE WALL	
Beam angle [°]	L TEL STEE STEEL STEEL SHILLS	The ch
Peak luminous intensity [cd]	with any and - the	et s

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#### Test Data Sheet 6: Energy efficiency classes and Label

#### Model: AN2-8/AN2-2/AN2-4/WHE1608 Total mains efficacy η<sub>TM</sub> (lm/W) $(550/5.0)\times1 = 110.0(Declared)$ Energy efficiency classes Ε 5(Declared) Energy consumption [kWh/1000h] Label sample Standard-sized label ○ ENERG\* SUPPLIER'S NAME SUPPLIER'S NAME (I) (I) MODEL IDENTIFIER (II) MODEL IDENTIFIER (II) Α (VI) (VI) В В С (III) (III) D E F G WXYZ kWh/1000h WXYZ kWh/1000h (IV) -(IV) -(VII) (VII) (V) (V) Small-sized label ■ ENERG<sup>†</sup> ○ ENERG<sup>†</sup> (I) (II) SUPPLIER'S NAME MODEL IDENTIFIER SUPPLIER'S NAME (II) MODEL IDENTIFIER (VI) -(VI) В В

- I. supplier's name or trade mark: --
- II. supplier's model identifier: --

(III)

(IV)

(V)

III. scale of energy efficiency classes from A to G

2019/2015

(VII)

- IV. the energy consumption: 5 kWh/1000h
- V. QR-code (quick response): means a matrix barcode included on the energy label of a product model that links to that model's information in the public part of the product database.

(III)

(IV) -

(V) ·

G

2019/2015

(VII)

- VI. the energy efficiency class: E
- VII. the number of this Regulation that is '2019/2015'.

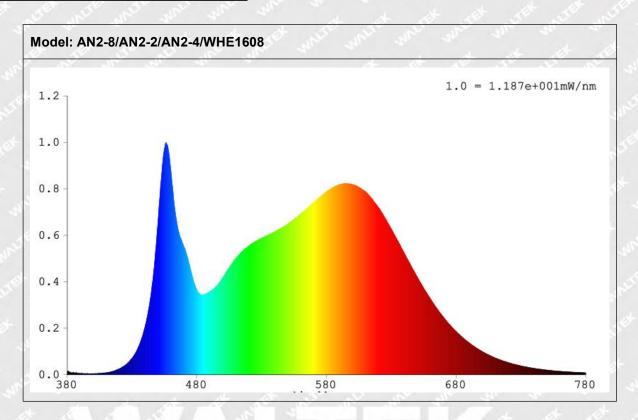
Waltek Testing Group Co., Ltd. http://www.waltek.com.cn



Reference No.: WTD24D06138191N001 Page 23 of 25



# **Test Data Sheet 7: Spectral distribution**





Reference No.: WTD24D06138191N001 Page 24 of 25

### **Attachment 1: Equipment List**

Equipment	Model/Type	Cal. Due. Date
Temperature & Humidity Datalogger	Testo 608-H1	2025-01-11
Color luminance meter	EVERFINE CBM-8	2025-01-23
AC power supply	EVERFINE TPS-500B	2025-01-16
DC power supply	EVERFINE WY305-V1	2025-01-16
Power meter	EVERFINE PF2010A-V1-CAN	2025-01-16
High accuracy array spectroradio meter	EVERFINE HAAS-2000	2025-01-16
Integrating Sphere	EVERFINE R98/R80/0.3m	2025-01-16
Standard light source	EVERFINE D204	2025-01-23
Standard light source	EVERFINE D062	2025-01-16
AC power supply	EVERFINE DPS 1060	2025-01-16
DC power supply	EVERFINE WY12010	2025-01-16
Digital Power Meter	EVERFINE PF2010A-V1	2025-01-16
Goniophotometer	EVERFINE GO R5000-2M2D	2025-01-16
Standard lamp	EVERFINE 28V/10A/500cd	2025-01-23
Standard lamp	EVERFINE D908	2025-01-16
Light sources flicker analyzer	EVERFINE LFA-3000	2025-01-23



Reference No.: WTD24D06138191N001 Page 25 of 25

**Attachment 2: Photo document** 

Model: AN2-8/AN2-2/AN2-4/WHE1608

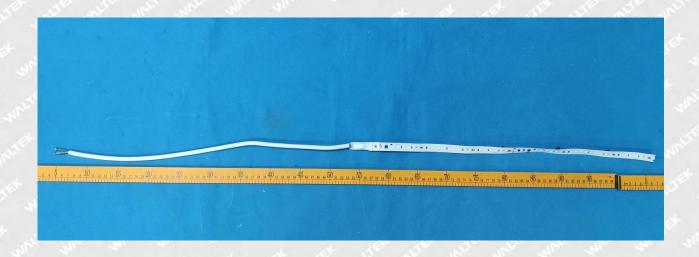


Photo 1



Photo 2
===== End of Report ======