



EST Technology Co., Ltd.

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Report Ref. No.

ESTS-G23051006

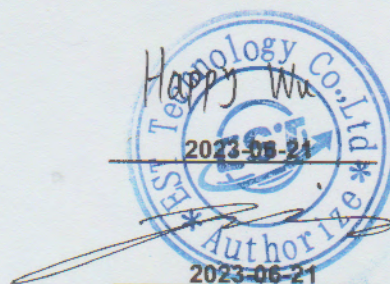
TEST REPORT

EST Technology Test program for Erp(Directive 2009/125/EC) requirements for electronic display

Report Reference No: ESTS-G23051006

Tested by (+ signature).....: Happy Wu/Engineer

Approved by (+ signature)...: Jimmy Liang/ Reviewer



Applicant.....: Shenzhen KTC Commercial Display Technology Co.,Ltd

Address.....: The B district of the first floor,third floor and fourth floor, 1# Building,NO.4023, Wuhe Street, Bantian, longgang District, Shenzhen City, Guangdong Province, China

Manufacturer.....: Sharp NEC Display Solutions, Ltd.

Address.....: 4-28, Mita 1-chome, Minato-ku, Tokyo,108-0073 Japan

Factory.....: See page 2

Address.....: See page 2

Description.....: LCD MONITOR

Model No.....: M981

Trade mark.....: NEC

Rating.....: Input: 100-240V~, 50/60Hz, 7.0-2.7A;

Test Result.....: PASS

Sample receipt date.....: May 10, 2023

Date(s) of Test.....: May 13, 2023

Date of Issue.....: June 21, 2023

Test procedure.....: ☒ COMMISSION REGULATION (EU) 2019/2021 of 1 October 2019
☒ COMMISSION DELEGATED REGULATION (EU) 2019/2013
of 11 March 2019
☒ COMMISSION REGULATION (EU) 2021/341 of 23 February 2021
☒ COMMISSION DELEGATED REGULATION (EU) 2021/340 of 17 December 2020
☒ EN 62087-1: 2016 ☒ EN 62087-2: 2016 ☒ EN 62087-3: 2016
☒ EN 50564:2011

Testing laboratory.....: EST Technology Co., Ltd.

Address.....: Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

Laboratory Accreditation...: CNAS

Factory:	1) Huizhou KTC Technology Co., Ltd. 2) Dynabook Technology (Hangzhou) Inc. 3) Shenzhen KTC Commercial Display Technology Co.,Ltd
Address:	1) NO.38 Guangtai Road, Huinan HI-TECH Industrial Park, Huizhou City, Guangdong Province, P.R. China 2) 2/F,Building2,NO.3, East Gate,Comprehensive bonded Zone,Hangzhou Economic and Technical Development Zone,Zhejiang,China 3) The B district of the first floor,third floor and fourth floor, 1# Building,NO.4023, Wuhe Street, Bantian, longgang District, Shenzhen City, Guangdong Province, China

Standard and environmental conditions

Test Laboratory Address.....: EST Technology Co., Ltd.
Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

Standards applied.....: (EU) 2019/2021, (EU) 2021/341

Voltage/ frequency of power supply.....: 230Vac/50Hz

Fluctuation of electricity supply voltage during test.....: $\pm 0.5V$

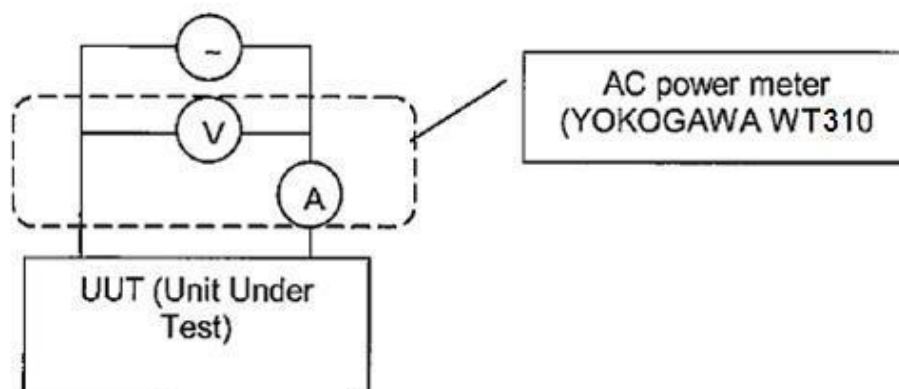
Ambient temp(°C): 23.8

%VTHD of electricity supply...: 1.267%

Power Measuring device.....: Yokogawa WT310 Power Meter

Input signal.....: (EU) 2021/341ANNEX V test signal

Set-up and circuits used for electrical testing.....:



Measurement Conditions

Model.....: M981

Test Model.....: M981

Model difference.....: N/A

Operating condition.....: Off-mode

Method used.....: Sampling Method

Comments.....: The product was measured in off- mode. The product was connected to the main power source and not providing any function.

Operating condition.....: Stand-by mode

Method used.....: Sampling Method

Comments.....: The product was measured in “standby” mode. The product was connected to the main power source and without information or status display.

Operating condition.....: Network standby mode

Method used.....: Sampling Method

Comments.....: The product was measured in “standby” mode. The product was connected to the main power source and without information or status display.

Operating condition.....: On-mode

Method used.....: Accumulated energy approach using the (EU) 2021/341ANNEX V test signal.

Comments.....: The product was measured in Standard condition of the electronic display as delivered by the manufacturer. The readings were integrated over ten minutes test period for further accuracy.

Adjustment of controls: Mute

General Product Information

Product type.....:

- ☐ Television
☐ Monitor
☒ Digital signage display
☐ Broadcast displays
☐ Professional display
☐ Security display
☐ Digital interactive whiteboards
☐ Digital photo frame
☐ Status display
☐ Control panel

Manufacturer/Model of Screen.....:

Shenzhen KTC Commercial Display Technology Co., LTD
/ K980WD97

Viewable screen(Horizontal)(dm).....:

21.5885

Viewable screen(Vertical)(dm).....:

12.1435

Viewable screen area(square dm²).....:

262.16

Viewable diagonal screen size(inch)...:

98.0

Display resolution

3840*2160

Audio/Video Ports.....:

- ☒ HDMI ☐ CI ☐ VGA ☐ AV IN ☐ RF ☐ AUDIO IN
☒ Other: EXTERNAL SPEAKER TERMINAL, AUDIO OUT, LAN, REMOTE, DisplayPort IN , DisplayPort OUT, USB, Option Board Slot, RS-232C IN

Is there ABC function?

- ☒ With ☐ Without

Is there force menu?

- ☐ With ☒ Without

Is EPS provided?

- ☐ Yes ☒ No

If yes, does Erp meets (EU)

2019/1782.....:

- ☐ Yes ☒ No

Manufacturer of EPS.....:

N/A

Type of EPS.....:

Model from report: N/A

Is network electronic display?

- ☒ Yes ☐ No

Is electronic display with HiNA functionality?.....:

- ☐ Yes ☒ No

Network port.....:

- ☒ Wired
☐ Wireless

Possible test case verdicts:

- test case does not apply to the test object.....: N/A (Not Apply.)
- test object does meet the requirement.....: P(ass)
- test object does not meet the requirement.....: F(ail)

Copy of marking plate(Representative):

The artwork below may be only a draft.



This is a representative label

Possible test case verdicts:

- | | |
|---|------------------|
| - test case does not apply to the test object.....: | N/A (Not Apply.) |
| - test object does meet the requirement.....: | P(ass) |
| - test object does not meet the requirement.....: | F(ail) |

Possible suffixes to the verdicts:

- | | |
|--|-------------------|
| - suffix for detailed information for the | - C(omment) |
| - suffix for important information for factory | - M(anufacturing) |

General remarks:

- 1, This test report shall not be reproduced except in full without the written approval of the testing laboratory.
- 2, The test results presented in this report relate only to the object tested.
- 3, "(See remark #)" refers to a remark appended to the report.
- 4, "(See appended table)" refers to a table appended to the report.
- 5, This report shall not be reproduced except in full without the written approval of the testing laboratory.
- 6, Customers will ship with energy efficiency labels that meet the 2019/2013 standards.

Clause	ANNEX II A:ENERGY EFFICIENCY REQUIREMENTS		Result -Remark	Verdict	
ENERGY EFFICIENCY INDEX LIMITS FOR ON-MODE					
A.1	The energy efficiency index (EEI) limits			--	
	EEI limits for on-mode				
		EEI _{max} for electronic displays with resolution up to 2 138 400 pixels (HD)	EEI _{max} for electronic displays with resolution above 2 138 400 pixels (HD) and up to 8 294 400 pixels (UHD-4k)		EEI _{max} for electronic displays with resolution above 8 294 400 pixels (UHD-4k) and for MicroLED displays
	1 March 2021	0,90	1,10		n.a.
	1 March 2023	0,75	0,90	0,90	
	The energy efficiency index (EEI)		EEI:0.652 Declared value EEI:0.923	N/A	
$EEI = \frac{(P_{measured} + 1)}{(3 \times [90 \times \tanh(0,02 + 0,004 \times (A - 11)) + 4] + 3) + corr}$					
P _{measured} is the measured power in Watts in on mode in the normal configuration, in standard dynamic range (SDR)		P _{measured} : 144.58W Declared value P _{measured} : 205.00W	P		
P _{measured} is the measured power in Watts in on mode in the normal configuration, in standard dynamic range (HDR)		P _{measured} : 139.47W Declared value P _{measured} : 180.00W	P		
corr is a correction factor of 10 for OLED electronic displays that do not apply the ABC allowance in point B (1). This shall apply until 28 February 2023. corr shall be zero in all other cases.		Corr:0	P		

Clause	ANNEX II B:ALLOWANCES AND ADJUSTMENTS FOR THE PURPOSE OF THE EEI CALCULATION AND FUNCTIONAL REQUIREMENTS	Result -Remark	Verdict
B.1	Electronic displays with automatic brightness control (ABC) shall qualify for a 10 % reduction in $P_{measured}$ if they meet all of the following requirements: a. ABC is enabled in the normal configuration of the electronic display and persists in any other standard dynamic range configuration available to the end user; b. the value of $P_{measured}$, in the normal configuration, is measured, with ABC disabled or if ABC cannot be disabled, in an ambient light condition of 100 lux measured at the ABC sensor; c. if applicable, the value of $P_{measured}$ with ABC disabled shall be equal to or greater than the on mode power measured		N/A

	with ABC enabled in an ambient light condition of 100 lux measured at the ABC sensor; d. with ABC enabled, the measured value of the on mode power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; e. the ABC control of the display screen luminance meets all of the following characteristics when the ambient light condition measured at the ABC sensor changes: -- the measured screen luminance at 60 lux is between 65 % and 95 % of the screen luminance measured at 100 lux; -- the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux; -- the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux.		
B.2	Forced menu and set up menus: Electronic displays may be placed on the market with a forced menu on initial activation proposing alternative settings. Where a forced menu is provided, the normal configuration shall be set as default choice, otherwise the normal configuration shall be the out-of-the-box setting.		N/A
	If the user selects a configuration other than the normal configuration and this configuration results in a higher power demand than the normal configuration, a warning message about the likely increase in energy use shall appear and confirmation of the action shall be explicitly requested.		N/A
	If the user selects a setting other than those that are part of the normal configuration and this setting results in a higher energy consumption than the normal configuration, a warning message about the likely increase in energy consumption shall appear and confirmation of the action explicitly requested.		N/A
	A change by the user in a single parameter in any setting shall not trigger any change in any other energy-relevant parameter, unless unavoidable. In such a case a warning message shall appear about the change of other parameters and the confirmation of the change shall be explicitly requested.		N/A
B.3	Peak white luminance ratio: In the normal configuration, the peak white luminance of the electronic display in a 100 lux ambient light viewing environment shall not be less than 220 cd/m² or, if the	488.9 cd/m ²	P

	electronic display is primarily intended for close viewing by a single user, not less than 150 cd/m ² .		
	If the electronic display's peak white luminance in the normal configuration is set to lower values, it shall not be less than 65 % of the peak white luminance of the display, in a 100 lux ambient light viewing environment in the brightest on mode configuration.	Default luminance more than 220 cd/m ²	N/A

Clause	ANNEX II C:OFF MODE, STANDBY AND NETWORKED STANDBY MODE REQUIREMENTS	Result -Remark	Verdict																																
C.1	Power demand limits other than on-mode Table 2 power demand limits other than on-mode, in Watts <table border="1"> <thead> <tr> <th></th><th>Off mode</th><th>Standby mode</th><th>Networked standby mode</th></tr> </thead> <tbody> <tr> <td>Maximum limits</td><td>0,30</td><td>0,50</td><td>2,00</td></tr> <tr> <td>Allowances for additional functions when present and enabled</td><td></td><td></td><td></td></tr> <tr> <td>Status display</td><td>0,0</td><td>0,20</td><td>0,20</td></tr> <tr> <td>Deactivation using room presence detection</td><td>0,0</td><td>0,50</td><td>0,50</td></tr> <tr> <td>Touch functionality, if usable for activation</td><td>0,0</td><td>1,00</td><td>1,00</td></tr> <tr> <td>HiNA function</td><td>0,0</td><td>0,0</td><td>4,00</td></tr> <tr> <td>Total maximum power demand with all additional functions when present and enabled</td><td>0,30</td><td>2,20</td><td>7,70</td></tr> </tbody> </table>		Off mode	Standby mode	Networked standby mode	Maximum limits	0,30	0,50	2,00	Allowances for additional functions when present and enabled				Status display	0,0	0,20	0,20	Deactivation using room presence detection	0,0	0,50	0,50	Touch functionality, if usable for activation	0,0	1,00	1,00	HiNA function	0,0	0,0	4,00	Total maximum power demand with all additional functions when present and enabled	0,30	2,20	7,70		--
	Off mode	Standby mode	Networked standby mode																																
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HiNA function	0,0	0,0	4,00																																
Total maximum power demand with all additional functions when present and enabled	0,30	2,20	7,70																																
	Power consumption of a electronic display in 'off mode Limited:0.3W	0.001W	P																																
	Power consumption of a electronic display in 'standby mode(s) Limited:see table 2	0.42W	P																																
	Power consumption of a electronic display in 'Networked standby mode(s) Limited:see table 2	0.90W	P																																
C.2	Availability of off, standby and networked standby modes Electronic displays shall provide off mode or standby mode or a networked standby mode or other modes which do not exceed the applicable power demand requirements for standby mode.	Standby mode Network standby mode	P																																
	The configuration menu, instruction manuals and other documentation, if any, shall refer to off mode, standby mode or networked standby mode using those terms.		P																																
	Automatic switch to off mode and/or standby mode and/or another mode which does not exceed the applicable power demand requirements for standby mode shall be set as default, including for networked displays where the network interface is enabled when in on mode.		P																																

	Networked standby mode shall be disabled in 'normal configuration' of a networked television. The end user shall be prompted to confirm the activation of networked standby, if it is needed for a chosen remotely activated function, and must be able to disable it.		P
	Networked electronic displays shall comply with the requirements for standby mode when networked standby mode is disabled.		P
C.3	Automatic standby in televisions: a) Televisions shall provide a power management function, enabled as delivered by the manufacturer that, within 4 hours following the last user interaction, shall switch the television from on mode into standby mode or networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode. Before such automatic switch, televisions shall show, for at least 20 seconds, an alert message warning the user of the impending switch, with possibility of delaying or temporarily cancelling it.	Digital signage display	N/A
	(b) If the television provides a function allowing the user to shorten, extend or disable the 4-hour period for automatic mode transitions detailed in (a), a warning message shall appear about a potential increase in energy use and a confirmation of the new setting must be requested when an extension beyond the 4-hour period or disabling is selected.		N/A
	(c) If the television is equipped with a room presence sensor, the automatic transition from on mode into any mode as detailed in (a) applies if no presence is detected for no more than 1 hour.		N/A
	(d) Televisions with various selectable input sources shall prioritise the power management protocols of the signal source selected and displayed over those default power management mechanisms described in the paragraphs (a) to (c) above.		N/A
C.4	Automatic standby in displays other than televisions Electronic displays other than televisions, with various selectable input sources shall switch, as configured in the normal configuration, into standby mode, networked standby mode or another mode which does not exceed the applicable power demand requirements respectively for standby or networked standby mode when no input is detected by any input source for over 10 seconds and, for digital interactive whiteboards and for broadcast displays, for over 60 minutes.		P

	Before triggering such a switch, a warning message shall be displayed and the switch completed within 10 minutes.		P
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Clause	ANNEX II D:MATERIAL EFFICIENCY REQUIREMENTS	Result -Remark	Verdict
D.1	Design for dismantling, recycling and recovery:		P
D.2	Plastic components heavier than 50 g: (a) Shall be marked by specifying the type of polymer with the appropriate standard symbols or abbreviated terms set between the punctuation marks '>' and '<' as specified in available standards. The marking shall be legible.		P
D.3	Electronic displays with a screen panel in which concentration values of Cadmium (Cd) by weight in homogeneous materials exceed 0,01 % as defined in Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, shall be labelled with the 'Cadmium inside' logo. The logo shall be clearly visible durable, legible and indelible. The logo shall be in the form of the following graphic: 		P
D.4	Halogenated flame retardants		P
D.5	Design for repair and reuse		P

Clause	ANNEX II E:INFORMATION AVAILABILITY REQUIREMENTS	Result -Remark	Verdict
E.1	Availability of software and firmware updates		P

(EU) 2019/2013 Test and verification results:

Method for calculating the Energy Efficiency Index Annex II:

Clause	Description	Result - Remark								
1	A:The viewing surface area in dm ²	262.16								
2	P _{measured} :The measured power in on mode in Watts in the normal configuration and set as indicated in Table 2									
3	Correction factor set as indicated in Table 3. Table 3 corr. value <table><tr><th>Electronic Display type</th><th>corr. value</th></tr><tr><td>Television</td><td>0,0</td></tr><tr><td>Monitor</td><td>0,0</td></tr><tr><td>Digital signage</td><td>0,00062*ln(1000/A) where ln is the peak white luminance in cd/m² of the brightest on mode configuration of the electronic display and A is the screen area in dm²</td></tr></table>	Electronic Display type	corr. value	Television	0,0	Monitor	0,0	Digital signage	0,00062*ln(1000/A) where ln is the peak white luminance in cd/m ² of the brightest on mode configuration of the electronic display and A is the screen area in dm ²	24.81973584
Electronic Display type	corr. value									
Television	0,0									
Monitor	0,0									
Digital signage	0,00062*ln(1000/A) where ln is the peak white luminance in cd/m ² of the brightest on mode configuration of the electronic display and A is the screen area in dm ²									
4	Energy Efficiency Index (SDR EEI_{label}): $EEI_{label} = \frac{(P_{measured} + 1)}{(3 \times [90 \times \tanh(0,025 + 0,0035 \times (A - 11)) + 4] + 3) + corr_I}$	EEI:0.623 Declared value EEI:0.882								
5	Electronic displays with automatic brightness control (ABC) shall qualify for a 10 % reduction in P_{measured} if they meet all of the following requirements: a . ABC is enabled in the normal configuration of the electronic display and persists in any other standard dynamic range configuration available to the end user; b . the value of P_{measured}, in the normal configuration, is measured, with ABC disabled or if ABC cannot be disabled, in an ambient light condition of 100 lux measured at the ABC sensor; c . if applicable, the value of P_{measured} with ABC disabled shall be equal to or greater than the on mode power measured with ABC enabled in an ambient light condition of 100 lux measured at the ABC sensor; d . with ABC enabled, the measured value of the on mode power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux; e . the ABC control of the display screen luminance meets all of the following characteristics when the ambient light condition measured at the ABC sensor changes:	--								

	-- the measured screen luminance at 60 lux is between 65 % and 95 % of the screen luminance measured at 100 lux; -- the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux; -- the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux.	
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Energy efficiency class, Annex I:

The energy efficiency class of the apparatus shall be determined on the basis of its EEI as set out in Table 1 as following:

Table 1
Energy efficiency classes of electronic displays

Energy Efficiency Class	Energy efficiency index (EEI_{label})
A	$EEI_{label} < 0,30$
B	$0,30 \leq EEI_{label} < 0,40$
C	$0,40 \leq EEI_{label} < 0,50$
D	$0,50 \leq EEI_{label} < 0,60$
E	$0,60 \leq EEI_{label} < 0,75$
F	$0,75 \leq EEI_{label} < 0,90$
G	$0,90 \leq EEI_{label}$

Pmeasured SDR	Pmeasured HDR	Screen diagonal	EEI _{label} (SDR)	EEI _{label} (HDR)	EEI Energy Efficiency Class(SDR)	Energy Efficiency Class(HDR)
Laboratory test value						
144.58	139.47	98	0.623	0.601	E	E
Manufacturer declared value						
205.00	180.00	98	0.882	0.775	F	F

Photo documentation:



Photo 1



Photo 2

Table 4 product information sheet

No	Information	Value and precision	Unit
1	Supplier's name or trade mark	NEC	/
2	Supplier's model identifier	M981	/
3	Energy efficiency class for standard Dynamic Range(SDR)	F	/
4	On mode power demand for standard Dynamic Range(SDR)	205	W
5	Energy efficiency class (HDR)	F	/
6	On mode power demand in High Dynamic Range(HDR)mode	180	W
7	Off mode,power demand,if applicable	≤ 0.3	W
8	Standby mode power demand,if applicable	≤ 0.5	W
9	Networked standby mode power demand,if applicable	≤ 2.0	W
10	Electronic display category	Digital signage display	/
11	Size ratio	16:9	/
12	Screen resolution	3840*2160	/
13	Screen diagonal	249	cm
14	Screen diagonal	98	inches
15	Visible screen area	262.2	dm ²
16	Panel technology used	TFT LCD	/
17	Automatic Brightness Control(ABC)available	No	/
18	Voice recognition sensor available	No	/
19	Room presence sensor available	No	/
20	Image refresh frequency rate	60	Hz
21	Minimum guaranteed availability of software and firmware updates(from the date of end of the placement on the market)	8	Years
22	Minimum guaranteed availability of spare parts(from the date of end of the placement on the market)	7	Years
23	Minimum guaranteed product support	8	Years
	Minimum duration of the general guarantee offered by the supplier	8	Years

For On-mode

24	Peak white luminance of the brightest on mode configuration	653	cd/m ²
25	Peak white luminance of the normal configuration	489	cd/m ²
26	Peak white luminance ratio (calculated as value of “Peak white luminance of the normal configuration” divided by value of “Peak white luminance of the brightest on mode configuration” multiplied by 100)	74.9	%
For Auto Power Down(APD)			
27	Length of time in on mode before the electronic display automatically switches to standby, off mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode.	1:00	mm:ss
28	For televisions: the length of time, following the last user interaction, before the television automatically switches to standby, off- mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby- mode;	N/A	mm:ss
29	For televisions equipped with room presence sensor: the length of time, when no presence is detected, before the television automatically switches to standby, off- mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode;	N/A	mm:ss
30	For electronic displays other than televisions and broadcast displays: the length of time, when no input is detected, before the electronic display automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off mode or standby mode;	1:00	mm:ss
For ABC If available and activated by default			
31	Percentage of power reduction due to ABC action between the 100 lux and 12 lux ambient light conditions.	N/A	%
32	On mode power at 100 lux ambient light at the ABC sensor	N/A	W
33	On mode power at 12 lux ambient light at the ABC sensor	N/A	W
34	Screen luminance at 100 lux ambient light at the ABC sensor	N/A	cd/m ²
35	Screen luminance at 60 lux ambient light at the ABC sensor	N/A	cd/m ²
36	Screen luminance at 35 lux ambient light at the ABC sensor	N/A	cd/m ²
37	Screen luminance at 12 lux ambient light at the ABC sensor	N/A	cd/m ²

For Power Supply			
38	Power supply type	Internal	/
39	Standard references (if relevant)	N/A	/
40	Input voltage	230.0	V
41	Output voltage	--	V
42	Input current (max)	--	A
43	Output current (min)	--	A

Equipments used for measurement

Test Equipments List					
Equipment Name	Manufacturer	Model #	Reg. No.	Cal. Date	Next Cal.
Digital Power Meter	YOKOGAWA	WT310	EST-S015-016	2022/5/21	2023/5/20
Luminance Meter	KONICA MINOLTA	LS-100	EST-S028-002	2022/5/26	2023/5/25
Illuminance meter	TESTO	testo540	EST-S030-001	2022/5/26	2023/5/25
Temperature-Humidity Recorder	KTJ	TA218	EST-S019-001	2022/5/24	2023/5/23
Digital Multimeter	FLUKE	Fluke17B	EST-S001-001	2022/5/21	2023/5/20
Meter ruler	Jieyang rongshen	7.5m	EST-S110-001	2022/5/25	2023/5/24

-----End of Report-----