

Test Report

Report No.: SZES251100926401

Date: 2026-01-22

Applicant: TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China

Manufacturer: TPV Electronics (Fujian) Co., Ltd.
Rongqiao Economic and Technological Development Zone, Fuqing, Fujian, China

Factory: Wuhan Hengfa Technology Co., Ltd.
Zhuankou Development of Economic Technological Development Zone, Wuhan,
430056, Hubei, China

Test Item: LCD Monitor

Type Designation: 16T20E, 16E20E, 16T30, 16E30, 16T20E2, 16T20, 16T10, **16***** (*can be A-Z, a-z, 0-9, blank, +, -, /, \ or no symbol) (Trademark: AOC)

Rating: 5.0Vdc, 3.0A

Testing Standard: ISO 9241-307:2008 for artificial information

Test Results: Pass

Conclusion: The product compliances with ISO 9241-307 for artificial information

Remark: LCD Panel: M156O30-054-239-3501 (san-mate)
The Test result is valid for the Intended context of use as mentioned on page 3 of this test report and for the following content and perception in accordance with ISO 9241-307: Artificial Information
Declared by the client, all models are identical except for the type designation. 16T20E2 is chosen for testing to represent the other models.

Sherry Chen
Project Reviewer
Safety Laboratory

John Mo
Project Engineer



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5.2 Emissive flat-panel LCD for indoor use — Display laboratory method

5.2.1 Intended context of use

Table 38 – Intend context of use - Emissive flat-panel LCD

Element	Attribute	Quantification
User	Vision	User are normal or normal corrected vision of age 7 years or older (Any literate user.)
Environment	Intended Environment	At indoor locations vertical 250 lx + 250 lx * cos(α) in offices
	Design screen illuminance, Es	293
	Screen Tilt Angle, α	80
	Typical Illuminance Source, LREF,EXT	200
	Typical Illuminance Source, LREF,SML	2000
	Illuminant	A
	Ambient Temperature	15°C - 35°C
Task	Content and Perception	Artificial Information
	Screen Size (Diagonal)	390.7mm
	Horizontal Resolution	1920
	Vertical Resolution	1080
	Horizontal Pixel Size	0.17925
	Vertical Pixel Size	0.17925
	Display Aspect Ratio (For Reality Info.)	16:9
	Image Type	Still, quasai-static or moving images
	Height of Active Display Area, H _{view}	187.6mm
	Width of Active Display Area, W _{view}	639.4mm
	Design Viewing Distance D _{design,view}	500mm
	Design Viewing Direction Θ _D	0.0°
	Design Viewing Direction Φ _D	90.0°
	Design Viewing Direction Range Θ _{Range}	34.0°
	Eye and Head Position	From Fixed to moving
Number of Users	Typical single or multiple	
Usage	Display Handling	Stationary
Display Color Temperature Setting		6500K
CCT adjustable		Yes
Fill Factor of pixel		0.30

Table 39 – Design viewing direction range

Design Viewing Dir. Range Case	b) Viewing cone with single visual display
Design Viewing Dir. Range Θ _{range}	43.1°
Design Viewing Dir. Range Φ _{range}	0° - 360°



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5.2.2 Information about the technology

Table 40 – Basic physical attributes of emissive flat-panel LCD

Optical mode of operation	Emissive
Mode of observation	Direct View
Diagonal of the active display area (inches)	15.6
Horizontal Resolution	1920
Vertical Resolution	1080
Format	Landscape

5.2.3 Compliance assessment

Table 41 – Viewing conditions for Artificial Information

Design Viewing Distance $D_{design,view}$	500 mm
Design Viewing Direction Θ_D	0°
Design Viewing Direction Φ_D	90°

Test Setup

Ambient temperature and humidity	23°C +3°C/-3°C , 40% - 60%
Supply voltage and Supply frequency	AC 230 V, 50 Hz
darkroom condition	< 2 lx
Processing unit	Thinkstation, P520c
Operating System	Windows 10 Pro for workstation, 30BX001AUS
Graphics-board	Quadro P2000
Test software	Windows 10 Pro, SS430 V2.01.402X
dark current adjusted	Dark current adjustment done
Display mode	Digital drive 1920x1080 @ 60Hz (24 bit)
video input used	Digital, mini HDMI



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5 Ergonomic requirements and recommendations		Pass/Fail
5.1 Viewing conditions	5.1.1 General	
	5.1.2 Design viewing distance	Pass
	5.1.3 Design viewing direction	Pass
	5.1.4 Gaze and head tilt angles	N/A
	5.1.5 Displays for virtual images	N/A
5.2 Luminance	5.2.1 General	
	5.2.2 Illuminance	Pass
	5.2.3 Display luminance	Pass
	5.2.4 Luminance balance and glare	Pass
	5.2.5 Luminance adjustment	Pass
5.3 Special physical environments	5.3.1 General	
	5.3.2 Vibration	N/A
	5.3.3 Wind and rain	N/A
	5.3.4 Excessive temperatures	Pass
5.4 Visual Artifacts	5.4.1 General	
	5.4.2 Luminance non-uniformity	Pass
	5.4.3 Colour non-uniformity	Pass
	5.4.4 Contrast non-uniformity	Pass



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5.4.5 Geometric distortions	N/A
5.4.6 Screen and faceplate defects	Pass
5.4.7 Temporal instability (flicker)	Pass
5.4.8 Spatial instability (jitter)	N/A
5.4.9 Moiré effects	Pass
5.4.10 Other instabilities	Pass
5.4.11 Unwanted reflections	Pass
5.4.12 Unintended depths effects	N/A

5.5 Legibility and readability	5.5.1 General	
	5.5.2 Luminance contrast	Pass
	5.5.3 Image polarity	Pass
	5.5.4 Character height	Pass
	5.5.5 Text size constancy	N/A
	5.5.6 Character stroke width	Pass
	5.5.7 Character width-to-height ratio	Pass
	5.5.8 Character format	Pass
	5.5.9 Between-character spacing	Pass
	5.5.10 Between-word spacing	Pass
	5.5.11 Between-line spacing	Pass
5.6 Legibility of information coding	5.6.1 General	
	5.6.2 Luminance coding	Pass



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5.7 Legibility of graphics	5.6.3 Blink coding	N/A
	5.6.4 Colour coding	Pass
	5.6.5 Geometrical coding	N/A
	5.7.1 General	
	5.7.2 Monochrome and multicolour object size	N/A
	5.7.3 Contrast for object legibility	Pass
	5.7.4 Colour considerations for graphics	N/A
	5.7.5 Background and surrounding image effects	N/A
	5.7.6 Number of colours	N/A

5.8 Fidelity	5.8.1 General	
	5.8.2 Colour gamut and reference white	Pass
	5.8.3 Gamma and grey scale	Pass
	5.8.4 Rendering of moving images	Pass
	5.8.5 Image formation time (IFT)	Pass
	5.8.6 Spatial resolution	Pass
	5.8.7 Raster modulation or fill factor	Pass
	5.8.8 Pixel density	Pass



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5 Ergonomic requirements and recommendations

5.1 Viewing conditions

5.1.2 Design viewing distance Pass

The design viewing distance is dependent on the task and on the electronic visual display and shall not be less than 300 mm, being the typical minimum comfortable viewing distance, or near point, for normal (emmetropic) eyes of adults.

Design Viewing Distance	500 mm
-------------------------	--------

*Note: Uncertainty assumes automatic measurement.
Uncertainty is much less if screen size is manually entered*

Overall
Uncertainty
+/- 9.5 mm

5.1.3 Design viewing direction Pass

The visual display shall conform to all optical requirements over a relevant range of viewing directions. The design viewing direction, (Θ_D , Φ_D), as well as the design viewing direction range shall be specified.

Design Viewing Direction Θ_D	0 °
Design Viewing Direction Φ_D	90 °

Note: Uncertainty calculation estimates a panel alignment accuracy of 0.2°

Overall
Uncertainty
+/-
0.5°

5.1.4 Gaze and head tilt angles N/A

The workplace and the visual display should permit the user to view the screen with a gaze angle from 0° to 40° and a head tilt angle from 0° to 25°.

Gaze Angle	- 0
Head Tilt Angle	- 0

5.1.5 Displays for virtual images N/A

The ergonomics of displays for virtual images are considered in Annex E, covering the ergonomics characteristics of binocular non-see-through displays and gives recommended values.

Virtual Images	-
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5.2 Luminance

5.2.2 Illuminance Pass

The supplier shall specify the maximum design screen illuminance, ES, as well as the illuminant.

Design screen illuminance	293 lx
Illuminant	A

5.2.3 Display luminance Pass

Under darkroom conditions, the visual display shall have a minimum display luminance of 20 cd/m² over all relevant viewing directions.

Overall Uncertainty
 +/- 3.04 % in luminance
 +/- 0.3 deg. In rotation

Direction	0	1	2	3	4	5	6	7
CL	229.8	165.0	160.1	178.8	177.9	171.7	166.4	230.1
HL	221.2	160.9	159.0	169.8	174.3	163.8	156.1	223.4
LL	179.5	130.8	130.5	136.9	144.0	134.3	126.0	183.0

5.2.4 Luminance balance and glare Pass

In work environments, the luminance of task areas, L_{task,area}, that are frequently viewed in sequence while using the visual display (document, covers, etc.) should be between

$$0.1 \times L_{task,area} \leq L_{Ea,HS} \leq 10 \times L_{task,area}$$

where L_{Ea,HS} is the area average luminance of the visual display.

L _{task,area}	NA
L _{Ea,HS}	NA

For prolonged use in work environments, check that the design of the visual display screen and surrounding area of the product housing do not produce disturbing glare in the prevailing environmental lighting conditions.

Gloss of the housing	21.9
----------------------	------



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5.2.5 Luminance adjustment

Pass

- 1) The display luminance (luminance of the low and/or high state) shall be adjustable manually or automatically to the ambient illumination conditions.
- 2) The display luminance of the low state should be adjustable.
- 3) The display luminance of the high state shall be adjustable.
- 4) The luminance of the low and high states should be adjustable independently.
- 5) Adjustment of the display luminance (luminance of the low and/or high state) should not affect the electro-optical transfer function (EOTF) or the gamma value.

Available Controls	Descriptions
Brightness	To adjust display luminance
Contrast	To adjust image contrast

Pass/Fail :	Pass
-------------	------

- 2) The display luminance of the low state should be adjustable.

High State	Low State		
Brightness	Contrast	R=G=B	Luminance, cd/m ²
Maximum	Maximum	0%	5
Maximum	Minimum	0%	1
Pass/Fail :			Pass

- 3) The display luminance of the high state shall be adjustable.

High State	Low State		
Brightness	Contrast	R=G=B	Luminance, cd/m ²
Maximum	Maximum	0%	6
Minimum	Maximum	0%	2
Pass/Fail :			Pass

- 4) The luminance of the low and high states should be adjustable independently.



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Independent Luminance Controls	Descriptions	
Brightness	To adjust display luminance	
Contrast	To adjust image contrast	
Pass/Fail :		Pass

5) Adjustment of the display luminance (luminance of the low and/or high state) should not affect the electro-optical transfer function (EOTF) or the gamma value.

High State	Low State		
Brightness	Contrast	Grey scale	Grey scale distinguishable
Middle	Minimum	0%/5%,10%	Yes
Middle	Maximum		
Pass/Fail :			Pass

High State	Low State		
Brightness	Contrast	Grey scale	Grey scale distinguishable
Minimum	Middle	90%, 95%, 100%	Yes
Maximum	Middle		
Pass/Fail :			Pass

5.3 Special physical environments

5.3.2 Vibration N/A

Built in vibration frequency shall be less than 6 Hz for less than 30 s.

Vibration Freq.Hz	-
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5.3.3 Wind and rain N/A

Visual displays that may be used outdoors should be mechanically shielded from strong winds and rain drops falling on the display screen.

5.3.4 Excessive temperatures Pass

When operation of visual display devices is required in environments where temperatures are approaching 0 °C or +40 °C, users should take equipment and personal precautions to ensure that they are able to complete their ensure that they are able to complete their tasks satisfactorily and safely.

Operating Temperature Range	
High	40 °C
Low	0 °C



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5.4 Visual Artefacts

5.4.2 Luminance non-uniformity Pass

1) Lateral uniformity criterion:

Depending on the angular distance of test object separation at the design viewing distance, the luminance non-uniformity of a colour shall not exceed the following luminance ratio:

1.1° to < 2° :	1.3:1
≥ 2° to < 4° :	1.4:1
≥ 4° to < 5° :	1.5:1
≥ 5° to < 7° :	1.6:1
≥ 7° :	1.7:1

2) The maximum luminance ratio of a colour should not exceed the following luminance ratio:

1.1° to < 2° :	1.1:1
≥ 2° to < 4° :	1.2:1
≥ 4° to < 5° :	1.3:1
≥ 5° to < 7° :	1.35:1
≥ 7° :	1.4:1

Luminance, cd/m ²	Location	R=G=B=255	R=G=B=128
CL-7	55	328	154
HL-7	99	322	155
LL-7	11	282	144

Overall Uncertainty
+/- 3.04 % in luminance
+/- 0.03 in uniformity units

	Angular Distance	Max. Lum. Ratio	Lum. Ratio 255	Lum. Ratio 128
CL HL	16.0°	1.7	1.0	1.0
CL LL	15.9°	1.7	1.2	1.1

3) Directional uniformity criterion:

Within the design viewing direction range, the luminance non-uniformity of a colour shall not exceed a maximum luminance ratio of 1,7:1 and should not exceed a luminance ratio of 1,4:1. If the requirement is not fulfilled within Θ range, specify the maximum inclination angle at



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which the maximum luminance ratio is reached

Location	CL							
	0°		90°		180°		270°	
R=G=B	255	128	255	128	255	128	255	128
Lmax	328	154	328	154	328	154	328	154
at Θ	0°	0°	0°	0°	0°	0°	0°	0°
Lmin	207	125	201	124	203	123	208	126
at Θ	24°	24°	24°	24°	24°	24°	24°	24°
L.Ratio	1.6	1.2	1.6	1.2	1.6	1.2	1.6	1.2

Maximum Luminance Ratio	1.63 : 1
Maximum Inclination Angle	24°

5.4.3 Colour non-uniformity

Pass

1) Lateral uniformity criterion

For an intended uniform colour appearance, the chromaticity uniformity difference, $\Delta u', v'$, of a colour at different locations on the visual display shall not exceed the following limits:

$$\Delta u', v' = 0,02 \text{ for } D_{\text{active}}/D_{\text{design,view}} < 0,75$$

$$\Delta u', v' = 0,03 \text{ for } D_{\text{active}}/D_{\text{design,view}} \geq 0,75$$

where D_{active} is the diagonal of the active display area and $D_{\text{design,view}}$ is the design viewing distance.

$D_{\text{active}}/D_{\text{design,view}}$	0.61 < 0.75
Maximum $\Delta u', v'$	0.02

Overall
Uncertainty
+/- .0021 in u' & v'

Color			$\Delta u', v'$			Max. $\Delta u', v'$ @	
R	G	B	CL7-HL7	CL7-LL7	HL7-LL7		
255	0	0	0.001	0.001	0.001	0.001	CL7-LL7
0	255	0	0.001	0.001	0.001	0.001	CL7-HL7
0	0	255	0.001	0.004	0.003	0.004	CL7-LL7
255	255	0	0.001	0.001	0.001	0.001	CL7-LL7



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0	255	255	0.002	0.002	0.004	0.004	HL7-LL7
255	0	255	0.002	0.004	0.006	0.006	HL7-LL7
255	255	255	0.001	0.002	0.003	0.003	HL7-LL7
192	192	192	0.001	0.002	0.003	0.003	HL7-LL7
128	0	0	0.000	0.002	0.002	0.002	CL7-LL7
0	128	0	0.001	0.001	0.001	0.001	CL7-HL7
0	0	128	0.000	0.005	0.005	0.005	CL7-LL7
128	128	0	0.001	0.001	0.001	0.001	CL7-LL7
0	128	128	0.001	0.002	0.003	0.003	HL7-LL7
128	0	128	0.002	0.004	0.006	0.006	HL7-LL7
128	128	128	0.001	0.002	0.003	0.003	HL7-LL7

2) Directional uniformity criterion for reality information

The visual display shall have a sufficient chromaticity uniformity over all relevant viewing directions
 The maximum chromaticity uniformity difference, $\Delta u', v'$ of a colour shall not exceed the above-mentioned limits.

Color			CL		HL		LL	
R	G	B	Max. $\Delta u', v'$		Max. $\Delta u', v'$		Max. $\Delta u', v'$	
255	0	0	0.002	CL4-CL7	0.002	HL4-HL7	0.002	LL4-LL7
0	255	0	0.002	CL4-CL7	0.001	HL4-HL7	0.001	LL4-LL7
0	0	255	0.003	CL1-CL3	0.003	HL3-HL5	0.003	LL1-LL3
255	255	0	0.002	CL4-CL7	0.002	HL4-HL7	0.002	LL4-LL7
0	255	255	0.005	CL1-CL7	0.005	HL1-HL7	0.004	LL1-LL7
255	0	255	0.006	CL1-CL7	0.006	HL6-HL7	0.006	LL1-LL7
255	255	255	0.005	CL1-CL7	0.004	HL1-HL7	0.004	LL1-LL7



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192	192	192	0.005	CL1-CL7	0.004	HL1-HL7	0.004	LL1-LL7
128	0	0	0.005	CL2-CL4	0.003	HL4-HL5	0.004	LL4-LL5
0	128	0	0.001	CL2-CL4	0.001	HL4-HL7	0.001	LL4-LL5
0	0	128	0.006	CL2-CL3	0.006	HL1-HL3	0.007	LL1-LL3
128	128	0	0.002	CL1-CL7	0.002	HL1-HL7	0.002	LL2-LL7
0	128	128	0.005	CL1-CL7	0.005	HL1-HL7	0.005	LL1-LL7
128	0	128	0.007	CL1-CL7	0.007	HL1-HL7	0.007	LL1-LL7
128	128	128	0.005	CL1-CL7	0.004	HL1-HL7	0.004	LL1-LL7

Depending on the technology, the visual display may not fulfil the requirement for all displayed colours. The following differentiation is made.

High class chromaticity uniformity

The requirement is fulfilled for combinations R, G, B = 100 %, combination R=G=B = 75 % and combinations R, G, B = 50 %.

Medium class chromaticity uniformity

The requirement is fulfilled for combinations R, G, B = 100 % and combination R=G=B = 75 %.

Low class chromaticity uniformity

The requirement is fulfilled for primaries R = 100 %, G = 100 % and B = 100 % only.

Class	High	Medium	Low
R/G/B=100%	Pass	Pass	Pass
R,G,B = 100%	Pass	Pass	
R=G=B=75%	Pass	Pass	
R,G,B= 50%	Pass		

Color non-uniformity class:	High class chromaticity uniformity
-----------------------------	---

5.4.4 Contrast uniformity

Pass

a) Lateral uniformity criterion



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For an intended uniform appearance, the contrast nonuniformity, $CR_{\text{non-uniformity}} = 1 - CR_{\text{min}}/CR_{\text{max}}$, shall not exceed 50 %, where CR is the luminance contrast.

R=G=B	255	0	
Location	L	L	Contrast
99	225.7	0.2	1355.1
88	196.6	0.1	1317.8
77	201.8	0.1	1365.4
66	219.4	0.2	1392.8
44	213.8	0.2	1353.5
33	199.8	0.2	1243.1
22	202.6	0.3	762.3
11	186.2	0.2	872.5
55	230.1	0.2	1360.3

CR _{average}	1224.8
CR _{min}	762.3
CR _{max}	1392.8
CR _{non-uniformity}	45%

Overall Uncertainty
 +/- 3.04 % in luminance
 +/- 3.4% in contrast
 +/- 0.3 deg. In rotation

b) Directional uniformity criterion

The visual display shall have sufficient contrast uniformity over all relevant viewing directions.

1) The luminance contrast, CR, shall exceed the limit CR_{min}.

R=G=B	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6	CL-7
255	230.1	164.8	159.8	178.6	177.5	171.5	166.4
0	0.2	0.2	0.3	0.2	0.2	0.2	0.3
CR	1360.3	803.2	542.3	1164.5	1131.4	783.7	644.4
CR _{min}	> 17.6	> 15.8	> 12.9	> 18.6	> 18.3	> 15.2	> 13.9

R=G=B	HL-1	HL-2	HL-3	HL-4	HL-5	HL-6	HL-7
255	229.8	160.8	159.0	170.0	174.2	164.0	156.6
0	0.2	0.2	0.2	0.1	0.2	0.3	0.2
CR	1345.8	681	702	1141	1136	653	748
CR _{min}	> 17.5	> 14.6	> 14.9	> 18.9	> 18.6	> 14.1	> 15.6

R=G=B	LL-1	LL-2	LL-3	LL-4	LL-5	LL-6	LL-7
255	223.7	131.0	130.6	137.4	144.4	135.0	126.6
0	0.2	0.3	0.2	0.2	0.2	0.3	0.2
CR	1345.6	447.3	608.3	718.2	770.2	439.6	725.8
	>	>	>	>	>	>	>



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CRmin	17.7	13.0	15.4	16.4	16.6	12.6	17.3
-------	------	------	------	------	------	------	------

2) There shall be no contrast inversion.

Contrast Inversion Found	None
--------------------------	------

5.4.5 Geometric distortions

N/A

1) For different rows or columns of text, the difference of length shall not exceed 1 % of the length of that column or row.

max. row difference	-
max. column difference	-

2) The horizontal [vertical] displacement of a symbol position relative to the symbol positions directly above and below [right and left] shall not vary by more than 5 % of the character width [character height].

max. character height difference	-
max. character width difference	-

5.4.6 Screen and faceplate defects

Pass

The visual display should be in the fault class, ClassPixel 0. If not in ClassPixel 0, the supplier shall specify the ClassPixel of the visual display in accordance with Table 63.

Class pixel	Type 1	Type 2	Type 3		Cluster w/ more than 1 type 1 or type 2 fault	Cluster of type 3 faults
			Stuck High	Stuck Low		
0	0	0	0	0	0	0
I	1	1	2	1	0	0
	1	1	1	3	0	0
	1	1	0	5	0	0
II <i>n_{II}</i> =1-4	2	2	5	0	0	1
	2	2	3	4	0	1
	2	2	0	10	0	1
III <i>n_{III}</i> =1-49	5	15	50	0	0	5
	5	15	48	4	0	5
	5	15	0	100	0	5
IV	50	150	500	0	5	50
	50	150	498	4	5	50



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$n_{IV}=1-499$	50	510	0	1000	5	50
----------------	----	-----	---	------	---	----

Specified Pixel Fault Class	1
nClassPixel	2

5.4.7 Temporal instability (flicker) Pass

The whole image area shall be free of flicker to at least 90 % of the user population
 The image is flicker free if Eobs <= Epred

Display Diagonal	43.1 °
Pupil Area (mm²)	4.80
DC	1034 368.1

Freq. Hz	60	90	120
AMP	0.00006	0.0010	0.0006
Eobs	1.8	1.8	1.1
	<=	<=	<=
Epred	209.8	209.8	86676.5

5.4.8 Spatial instability (jitter) N/A

The image shall be free of jitter in the intended display environment. The peak-to-peak variation in the geometric location of image elements shall not exceed 0,000 1 mm per millimetre of design viewing distance for the frequency range of 0,5 Hz to 30 Hz.

Maximum Jitter	-
Maximum Swim	-
Maximum Drift	-

5.4.9 Moiré effects Pass

For colour displays, the entire image area shall be free of moiré patterns to enable the user to perform the task in an effective and efficient way.

Visual Inspection Result	No moire observed
--------------------------	-------------------

5.4.10 Other instabilities Pass

The entire image area shall be free of other visual artefacts to enable the user to perform the task in an effective and efficient way.

Visual Inspection Result	No other visual artefacts observed
--------------------------	------------------------------------



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5.4.11 Unwanted reflections

Pass

The visual display shall be suitable for the intended environment.
Over all relevant viewing directions, the following requirements shall be fulfilled:

1)
$$\frac{L_H + L_D + L_S}{L_L + L_D + L_S} \geq 2.2 + 4.84 \times (L_L + L_D + L_S)^{-0.65}$$

2) for visual displays using positive polarity:

$$\frac{L_H + L_D + L_S}{L_H + L_D} \leq 1.25$$

3) for visual displays using negative polarity:

$$\frac{L_L + L_D + L_S}{L_L + L_D} \leq 1.2 + \frac{1}{15} \times \frac{L_H + L_D}{L_L + L_D}$$

	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6	Overall Uncertainty
L _H	164.8	159.8	178.6	177.5	171.5	166.4	+/- 3.04 % in luminance
L _L	0.2	0.3	0.2	0.2	0.2	0.3	+/- 0.3 deg. In rotation

1)
$$\frac{L_H + L_D + L_S}{L_L + L_D + L_S} \geq 2.2 + 4.84 \times (L_L + L_D + L_S)^{-0.65}$$

L _{REF.EXT}	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
500	2.6 ≥ 2.4	2.6 ≥ 2.4	2.8 ≥ 2.4	2.8 ≥ 2.4	2.7 ≥ 2.4	2.6 ≥ 2.4
300	2.6 ≥ 2.4	2.6 ≥ 2.4	2.8 ≥ 2.4	2.8 ≥ 2.4	2.7 ≥ 2.4	2.7 ≥ 2.4
200	2.7 ≥ 2.4	2.6 ≥ 2.4	2.8 ≥ 2.4	2.8 ≥ 2.4	2.7 ≥ 2.4	2.7 ≥ 2.4



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125	2.7 >=	2.6 >=	2.8 >=	2.8 >=	2.7 >=	2.7 >=
	2.4	2.4	2.4	2.4	2.4	2.4

LREF.SML	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
2000	2.7 >=	2.6 >=	2.8 >=	2.8 >=	2.7 >=	2.7 >=
	2.4	2.4	2.4	2.4	2.4	2.4
200	2.7 >=	2.6 >=	2.8 >=	2.8 >=	2.7 >=	2.7 >=
	2.4	2.4	2.4	2.4	2.4	2.4

Contrast of unwanted reflections

LREF.EXT	LREF.SML	Contrast
500	n/a	Pass
300	n/a	Pass
200	2000	Pass
125	200	Pass

Supplier specified illumination:

LREF.EXT	LREF.SML	Contrast of unwanted reflections
200	2000	Pass

2) for visual displays using positive polarity:

$$\frac{L_H + L_D + L_S}{L_H + L_D} \leq 1.25$$

LREF.EXT	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
500	1.01 <=	1.01 <=	1.01 <=	1.00 <=	1.01 <=	1.01 <=
	1.25	1.25	1.25	1.25	1.25	1.25
300	1.01 <=	1.00 <=	1.01 <=	1.00 <=	1.00 <=	1.00 <=
	1.25	1.25	1.25	1.25	1.25	1.25



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200	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25
125	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25	1.00 ≤ 1.25

LREF.SML	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
2000	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25
200	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25	1.0 ≤ 1.25

Contrast of unwanted reflections

LREF.EXT	LREF.SML	Contrast
500	n/a	Pass
300	n/a	Pass
200	2000	Pass
125	200	Pass

Supplier specified illumination:

LREF.EXT	LREF.SML	Contrast of unwanted reflections
200	2000	Pass

3) for visual displays using negative polarity:

$$\frac{L_L + L_D + L_S}{L_L + L_D} \leq 1.2 + \frac{1}{15} \times \frac{L_H + L_D}{L_L + L_D}$$

LREF.EXT	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
500	1.02 ≤ 1.38	1.02 ≤ 1.37	1.02 ≤ 1.39	1.01 ≤ 1.39	1.02 ≤ 1.38	1.02 ≤ 1.38
300	1.01 ≤	1.01 ≤	1.01 ≤	1.01 ≤	1.01 ≤	1.01 ≤



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	1.38	1.37	1.39	1.39	1.38	1.38
200	1.01 ≤ 1.38	1.01 ≤ 1.37	1.01 ≤ 1.39	1.01 ≤ 1.39	1.01 ≤ 1.38	1.01 ≤ 1.38
125	1.01 ≤ 1.38	1.00 ≤ 1.37	1.01 ≤ 1.39	1.00 ≤ 1.39	1.00 ≤ 1.38	1.01 ≤ 1.38

L _{REF.SML}	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6
2000	1.00 ≤ 1.38	1.01 ≤ 1.37	1.00 ≤ 1.39	1.01 ≤ 1.39	1.01 ≤ 1.38	1.00 ≤ 1.38
200	1.00 ≤ 1.38	1.00 ≤ 1.37	1.00 ≤ 1.39	1.00 ≤ 1.39	1.00 ≤ 1.38	1.00 ≤ 1.38

Contrast of unwanted reflections

L _{REF.EXT}	L _{REF.SML}	Contrast
500	n/a	Pass
300	n/a	Pass
200	2000	Pass
125	200	Pass

Supplier specified illumination:

L _{REF.EXT}	L _{REF.SML}	Contrast of unwanted reflections
200	2000	Pass

5.4.12 Unintended depths effects

N/A

Spectrally extreme colours that produce unintended depths (chromostereopsis) effects shall be avoided. Red ($u' > 0.4$) and Blue ($v' < 0.2$)

			CL-0	
R	G	B	u'	v'
255	0	0	0.3893	--
0	0	255	--	0.2250



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5.5 Legibility and readability

5.5.2 Luminance contrast Pass

The visual display shall be suitable for the intended environment. Over all relevant viewing directions, the luminance contrast, CR, shall exceed the minimum luminance contrast of:

$$CR = \frac{L_H + L_D + L_S}{L_L + L_D + L_S}$$

$$CR_{min} = 2.2 + 4.84 \times (L_L + L_D + L_S)^{-0.65}$$

Supplier specified illumination:

LREF.EXT	200
----------	-----

Overall
Uncertainty
+/- 3.04 % in luminance
+/- 3.4% in contrast
+/- 0.3 deg. In rotation

		1	2	3	4	5	6	7
CL	CR	111.5	116.7	125.8	172.6	142.6	117.2	220.2
	CRmin	>	>	>	>	>	>	>
HL	CR	106.6	122.1	120.1	169.9	132.9	114.2	215.3
	CRmin	>	>	>	>	>	>	>
LL	CR	83.9	101.4	94.5	136.5	104.8	94.9	169.5
	CRmin	>	>	>	>	>	>	>

5.5.3 Image polarity Pass

If the display provides positive and negative polarity, it shall meet all requirements of this compliance route for each image polarity.

See requirements for unwanted reflections and character attributes for positive and negative polarity.

5.5.4 Character height Pass

Minimum character height	
Font	Arial, 10 pt, large Font
Font type	Latin-origin
Character height N _H , Height	13 Pixel / 2.33 mm / 16 minutes of arc.



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Default mode	
Font	Arial, 10 pt, large Font
Font type	Latin-origin
Character height N _H , Height	13 Pixel / 2.33 mm / 16 minutes of arc.

5.5.5 Text size constancy

N/A

The height and width of a specific character of a specific character font shall not vary by more than $\pm 3\%$ of the character height of that character set.

5.5.6 Character stroke width

Pass

For Latin-origin characters, the stroke width shall be within the range of 10 % to 17 % of character height.

Character Height		Stroke Width to Height Ratio
H.Stroke Width	2 pixels	15.4%
V.Stroke Width	2 pixels	15.4%

5.5.7 Character width-to-height ratio

Pass

- 1) The character width-to-height ratio shall be within the range from 0,5:1 to 1:1.
- 2) A character width-to-height ratio of from 0,7:1 to 0,9:1 is recommended.

Character Width	11
Character Height	13
Ratio	0.85 : 1

5.5.8 Character format

Pass

Character format: 13 x 11

5.5.9 Between-character spacing

Pass

The minimum between-character spacing shall be one stroke width or one pixel.

Pixel between character	2
-------------------------	---

5.5.10 Between-word spacing

Pass

Print font: yes

Between-character spacing 7 pixel



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5.5.11 Between-line spacing

Pass

For tasks that require continuous reading of text, a minimum of one pixel shall be used for spacing between lines of text. This area shall not contain parts of characters or diacritics, but may contain underscores.

Vpitch between lines of text	1
------------------------------	---

5.6 Legibility of information coding

5.6.2 Luminance coding

Pass

Over all relevant viewing directions, the ratio between area-luminances of adjacent levels of a single area shall exceed 1,5:1 under ambient illumination.

R=G=B	CL-0	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6	CL-7
255	229.7	164.8	159.8	178.6	177.5	171.5	166.4	229.8
192	149.5	107.0	103.9	117.3	116.8	111.7	108.3	149.6
128	55.9	40.0	39.0	44.2	44.0	41.8	40.6	56.0

Supplier specified illumination:

LREF.EXT	200
----------	-----

Overall Uncertainty
+/- 3.04 % in luminance
+/- 0.3 deg. In rotation

Ratio	CL-0	CL-1	CL-2	CL-3	CL-4	CL-5	CL-6	CL-7
255-192	1.3 ≤ 1.5							
192-128	1.6 > 1.5	1.4 ≤ 1.5	1.4 ≤ 1.5	1.6 > 1.5	1.6 > 1.5	1.4 ≤ 1.5	1.4 ≤ 1.5	1.6 > 1.5

5.6.3 Blink coding

N/A

Where blink coding is used solely to attract attention, a single blink frequency of from 1 Hz to 5 Hz, with a duty cycle of 50 %, is recommended. Where readability is required during blinking, a single blink rate of 0,33 Hz to 1 Hz, with a duty cycle of 70 %, is recommended. It should be possible to switch off the blinking of the cursor.



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Frequency	
Duty Cycle	

5.6.4 Colour coding

Pass

Over all relevant viewing directions, coded colours shall have a minimum colour difference of $\Delta E^*uv \geq 20$ under ambient illumination.

ISO 9241-307 Table 80

Colour	R	G	B	X	Y	Z
1	255	0	0	84.3	50.7	6.9
2	0	255	0	94.4	150.8	34.4
3	0	0	255	46.0	28.5	222.6
4	255	255	0	178.7	201.6	41.0
5	0	255	255	140.7	179.2	258.8
6	255	0	255	130.3	79.1	231.1
7	255	255	255	225.4	230.3	267.6
8	192	192	192	146.0	150.0	165.6
9	128	0	0	20.2	12.2	2.0
10	0	128	0	22.5	35.8	8.4
11	0	0	128	10.9	6.8	52.3
12	128	128	0	43.1	48.6	10.0
13	0	128	128	33.7	43.0	61.2
14	128	0	128	31.3	19.1	54.7
15	128	128	128	54.7	56.1	63.8

Overall Uncertainty
+/- .0021 in u' & v'

Colour	R	G	B	L*	u*	v*
1	255	0	0	54.5	131.4	45.4
2	0	255	0	84.8	-51.5	97.8
3	0	0	255	42.5	-20.7	-128.6
4	255	255	0	95.0	17.2	102.1
5	0	255	255	90.7	-52.7	-17.6
6	255	0	255	65.5	49.6	-90.9
7	255	255	255	100.0	0.0	0.0
8	192	192	192	84.6	1.2	4.8
9	128	0	0	28.9	66.3	22.9
10	0	128	0	46.9	-25.8	53.1
11	0	0	128	21.9	-8.4	-60.9
12	128	128	0	53.5	11.1	56.7
13	0	128	128	50.8	-27.6	-8.1
14	128	0	128	35.5	27.8	-45.9



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15	128	128	128	56.8	1.4	1.8
----	-----	-----	-----	------	-----	-----

Combinations R,G,B = 100 % and combination R=G=B = 75 % shall fulfil the requirement.

ΔE^*	2	3	4	5	6	7	8
1	192.7	231.5	133.8	198.0	159.4	146.3	139.7
2		232.3	69.6	115.5	215.0	111.6	106.9
3			239.6	125.2	83.0	142.4	141.6
4				138.7	197.9	103.7	99.2
5					128.4	56.3	58.7
6						109.1	109.0
7							20.1

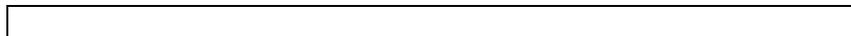
Combinations R,G,B = 50 % should fulfil the requirement.

ΔE^*	9	10	11	12	13	14	15
1	73.5	157.6	178.7	120.9	167.9	139.5	137.2
2	150.4	64.0	176.1	81.1	113.8	171.4	113.2
3	175.2	181.7	71.8	188.3	120.9	96.1	133.0
4	114.3	81.0	180.5	61.8	126.9	159.9	108.5
5	140.1	87.3	92.7	104.8	48.1	101.7	66.7
6	120.7	163.6	78.5	153.1	114.1	58.3	104.8
7	99.9	79.4	99.4	74.2	57.0	83.9	43.3
8	87.6	66.9	91.4	61.4	46.3	75.5	28.0
9		98.6	112.5	69.3	101.3	79.2	73.8
10			118.0	37.7	61.3	113.2	58.9
11				123.4	63.2	41.5	72.4
12					75.6	105.6	55.9
13						68.8	31.2
14							58.5

5.6.5 Geometrical coding

N/A

Geometrical coding is a particular type of graphical coding. The distinction of different classes of information in a graph may be facilitated by the use of different geometrical shapes, such as triangles or circles. These shapes should be easy to distinguish, which means that their number should be limited.



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5.7 Legibility of graphics

5.7.2 Monochrome and multicolour object size N/A

- 1) Critical details, such as symbols or text within the icon, should have a minimum height of 20' of arc. Heights subtending 25' of arc to 35' of arc are preferred.
- 2) For graphical objects and other small objects where legibility is the primary concern, refer to luminance contrast.
- 3) For isolated images where accurate colour identification is required, the image shall subtend 30' of arc; 45' of arc is preferred.

1)	Height of symbols or text within the icon	
2)	Luminance contrast	Pass
3)	isolated images	

5.7.3 Contrast for object legibility Pass

Where accurate identification of an isolated, multicolour image (e.g. a single character or a symbol) is required, the same conditions for display luminance and luminance contrast shall apply.

5.2.3	Display Luminance	Pass
5.5.2	Luminance Contrast	Pass

5.7.4 Colour considerations for graphics N/A

- 1) Where accurate colour identification of characters or symbols is required, the minimum size of them shall be at least 20' of arc at the design viewing distance.
- 2) When an application requires the user to discriminate or identify colours, it shall offer a default set of colours.
- 3) Colour pairs that are to be discriminated shall have values of $\Delta E^*uv > 20$.
- 4) Negative polarity
 - Spectrally extreme blue ($v' < 0,2$) on a dark background shall not be used.
 - Spectrally extreme red ($u' > 0,4$) shall not be used on a spectrally extreme blue ($v' < 0,2$) background.
- 5) Positive polarity
 - Spectrally extreme blue ($v' < 0,2$) shall not be used on a spectrally extreme red ($u' > 0,4$) background.
 - Spectrally extreme red ($u' > 0,4$) shall not be used on a spectrally extreme blue ($v' < 0,2$) background.

1	Minimum size of characters or symbols	
2	Color	



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Test Report

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	set	
3	Maximum ΔE^*_{uv} of color pairs	
4	Software complied	
5	Software Complied	

5.7.5 Background and surrounding image effects N/A

To better discriminate and identify colours, systems and applications should use an achromatic background behind chromatic foreground image colours or achromatic foreground image colours on chromatic backgrounds.

System complies	
Application complies	

5.7.6 Number of colours N/A

- 1) Simultaneous colour presentation: for accurate identification, the default colour set(s) for colour coding should consist of no more than eleven colours for each set.
- 2) Visual search for colour images: when a rapid visual search based on colour discrimination is required, no more than six colours should be used.
- 3) Colour interpretation from memory: if the meaning of each colour of a set of colours is to be recalled from memory, no more than six colours should be used.

1	Software complies	
2	Software complies	
3	Software complies	

5.8 Fidelity

5.8.2 Colour gamut and reference white Pass

Over all relevant viewing directions, the chromaticity diagram area under ambient illumination shall exceed a minimum of 5 % of the total area of the CIE 1976 UCS chromaticity diagram, centred about the chromaticity of the reference white.

R	G	B	CL	X _{Dark}	Y _{Dark}	Z _{Dark}
255	0	0	CL-1	61.6	37.1	4.6
0	255	0	CL-1	67.9	108.5	23.4
0	0	255	CL-1	31.6	19.7	152.6
255	0	0	CL-2	59.5	35.9	4.7
0	255	0	CL-2	65.4	104.3	23.0
0	0	255	CL-2	31.0	19.2	149.8

Overall Uncertainty
 +/- .0021 in u' & v'
 +/- 0.3 deg. In rotation



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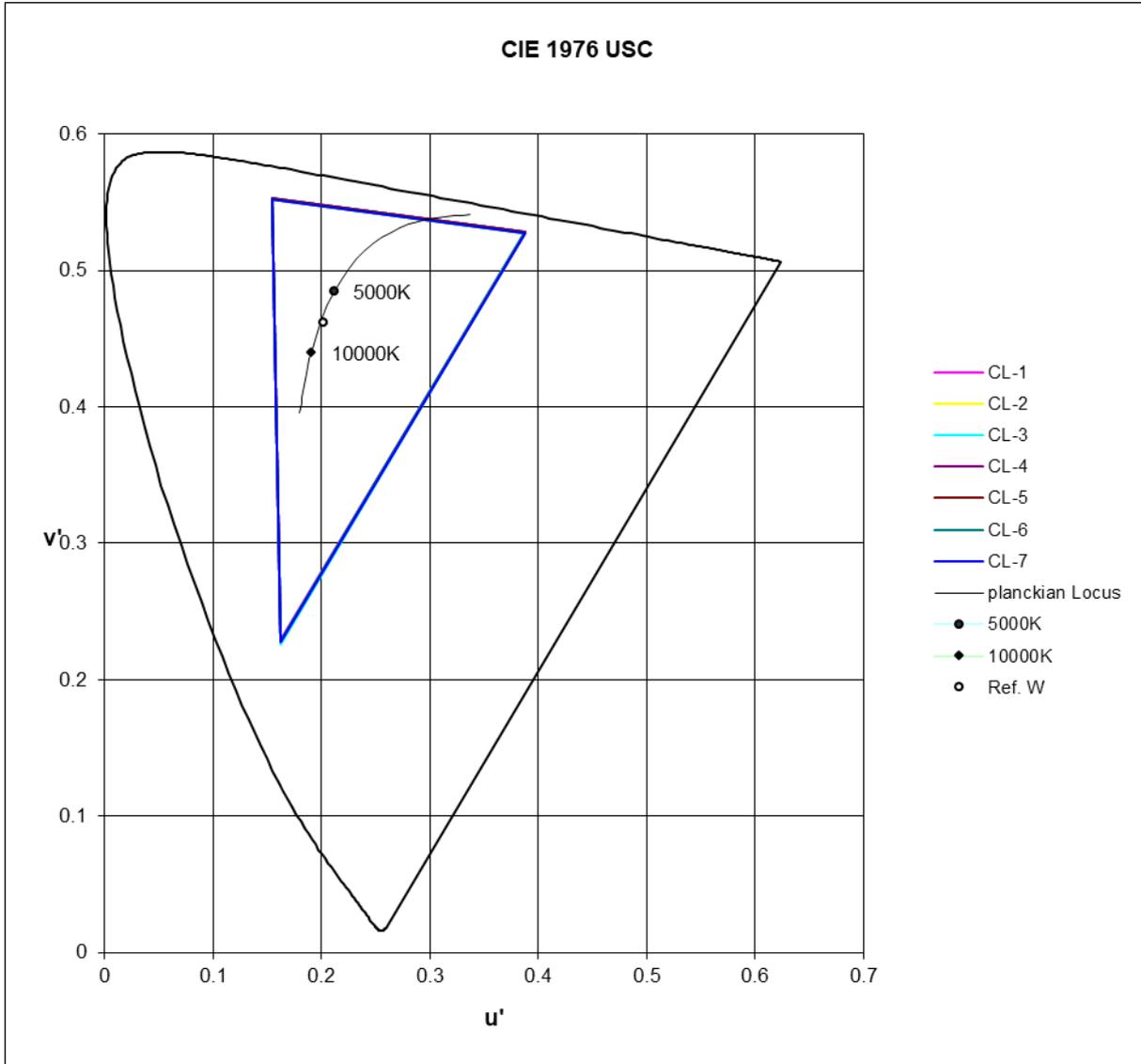
255	0	0	CL-3	66.7	40.2	5.0
0	255	0	CL-3	73.4	117.4	25.7
0	0	255	CL-3	35.6	21.9	172.7
255	0	0	CL-4	66.2	39.9	4.8
0	255	0	CL-4	72.4	115.5	24.8
0	0	255	CL-4	34.3	21.3	165.9
255	0	0	CL-5	63.9	38.5	4.8
0	255	0	CL-5	70.1	111.9	24.4
0	0	255	CL-5	33.0	20.6	159.7
255	0	0	CL-6	62.1	37.5	4.9
0	255	0	CL-6	68.6	109.6	24.1
0	0	255	CL-6	32.5	20.2	156.8
255	0	0	CL-7	84.2	50.7	6.9
0	255	0	CL-7	94.6	151.3	34.5
0	0	255	CL-7	46.0	28.4	222.6

R	G	B	CL	Y	u'	v'	Gamut Area %
255	0	0	CL-1	37.7	0.3882	0.5284	19.4%
0	255	0	CL-1	109.1	0.1544	0.5529	>
0	0	255	CL-1	20.2	0.1618	0.2293	5%
255	0	0	CL-2	36.4	0.3869	0.5277	19.3%
0	255	0	CL-2	105.0	0.1544	0.5524	>
0	0	255	CL-2	19.7	0.1625	0.2284	5%
255	0	0	CL-3	40.7	0.3882	0.5283	19.6%
0	255	0	CL-3	118.0	0.1540	0.5526	>
0	0	255	CL-3	22.4	0.1624	0.2261	5%
255	0	0	CL-4	40.4	0.3884	0.5287	19.5%
0	255	0	CL-4	116.1	0.1545	0.5530	>
0	0	255	CL-4	21.9	0.1619	0.2284	5%
255	0	0	CL-5	39.1	0.3879	0.5283	19.4%
0	255	0	CL-5	112.5	0.1545	0.5527	>
0	0	255	CL-5	21.1	0.1621	0.2290	5%
255	0	0	CL-6	38.1	0.3871	0.5279	19.3%
0	255	0	CL-6	110.2	0.1543	0.5525	>
0	0	255	CL-6	20.7	0.1622	0.2290	5%
255	0	0	CL-7	51.4	0.3875	0.5272	19.4%
0	255	0	CL-7	151.9	0.1539	0.5517	>
0	0	255	CL-7	29.1	0.1623	0.2273	5%



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A reference white shall be displayable on the visual display with a maximum deviation of the correlated colour temperature of ± 500 K. Preferred correlated colour temperatures are e.g. 5 000 K, 5 500 K, 6 500 K, 7 500 K and/or 9 300 K.

CL-7

R	G	B	L	u'	v'
255	255	255	230.1	0.2011	0.4623



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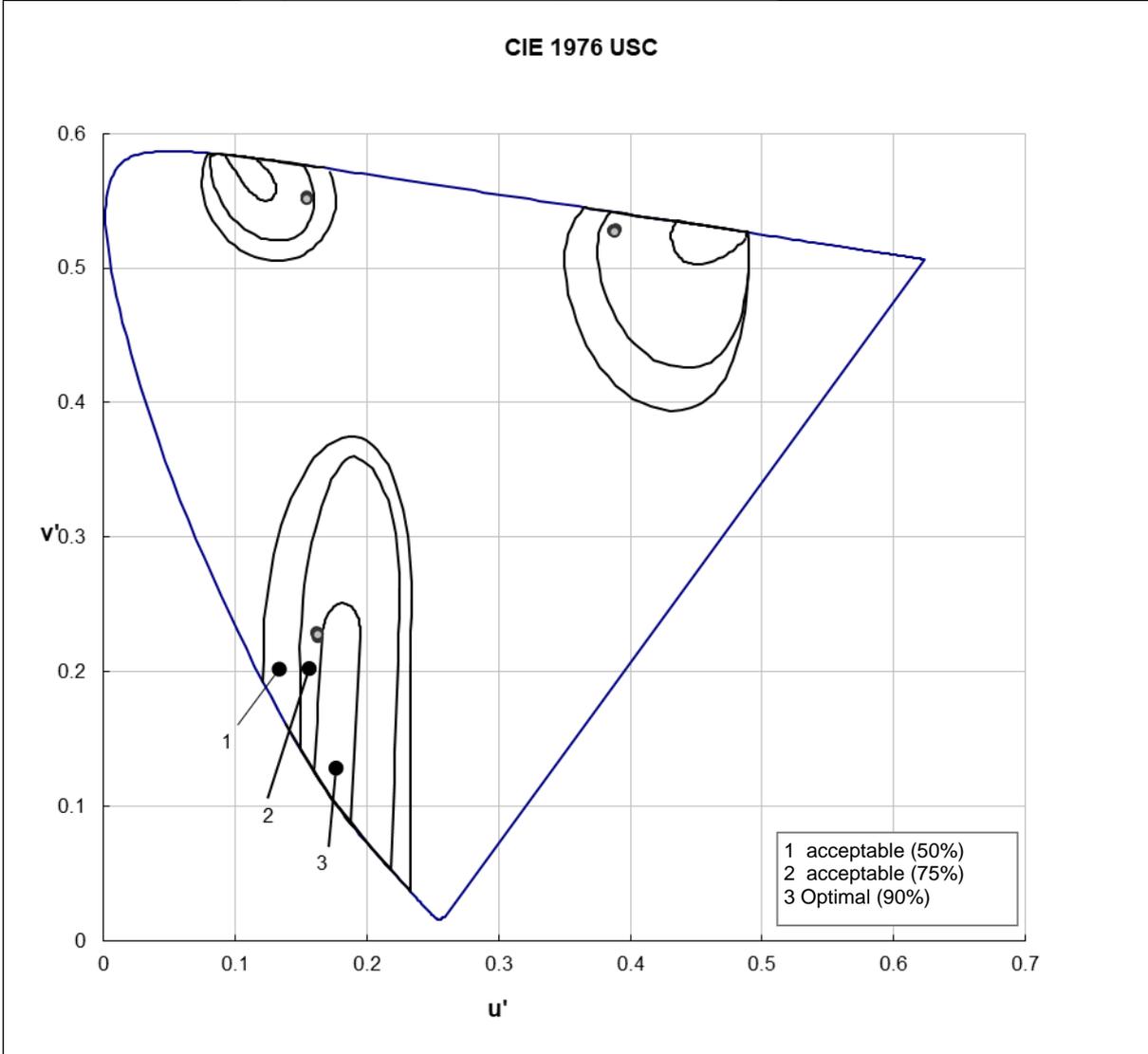
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Measured CCT	6663 K
Display CCT setting	6500 K
Delta CCT	163 K

The reference white shall be adjustable by the user.

Reference white adjustable	Yes
----------------------------	-----



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5.8.3 Gamma and grey scale

Pass

1. Over all relevant viewing directions the electro-optical transfer function and its first derivative for each of the three primary colours shall be ascending in a monotonous way.
The gamma for each of the three primary colours shall be in the range of $2,0 \pm 0,2$.

%	R=G=B	L	u'	v'
0.0%	0.0	0.2	0.1943	0.3830
2.5%	6.0	0.2	0.1944	0.3824
5.0%	13.0	0.2	0.1941	0.3829
7.5%	19.0	0.2	0.1949	0.3890
10.0%	26.0	0.5	0.1983	0.4290
12.5%	32.0	1.0	0.2000	0.4471
15.0%	38.0	1.9	0.2008	0.4553
17.5%	45.0	3.2	0.2012	0.4595
20.0%	51.0	4.7	0.2013	0.4611
22.5%	58.0	6.9	0.2015	0.4624
25.0%	64.0	9.3	0.2017	0.4641
27.5%	70.0	12.1	0.2018	0.4651
30.0%	77.0	15.6	0.2017	0.4642
32.5%	83.0	19.1	0.2016	0.4641
35.0%	90.0	23.6	0.2017	0.4645
37.5%	96.0	27.9	0.2017	0.4646
40.0%	102.0	32.6	0.2016	0.4647
42.5%	109.0	38.3	0.2017	0.4647
45.0%	115.0	43.6	0.2016	0.4644
47.5%	122.0	49.9	0.2015	0.4639
50.0%	128.0	56.0	0.2016	0.4641
52.5%	134.0	62.5	0.2017	0.4646
55.0%	141.0	70.5	0.2018	0.4654
57.5%	147.0	78.2	0.2018	0.4656
60.0%	154.0	87.5	0.2019	0.4660
62.5%	160.0	96.2	0.2019	0.4662
65.0%	166.0	105.2	0.2019	0.4661
67.5%	173.0	116.1	0.2020	0.4664
70.0%	179.0	126.3	0.2019	0.4664
72.5%	186.0	138.7	0.2019	0.4666
75.0%	192.0	149.8	0.2020	0.4666
77.5%	198.0	161.7	0.2020	0.4668
80.0%	205.0	176.1	0.2019	0.4668
82.5%	211.0	187.6	0.2018	0.4663

Gamma	2.19
>=1.8, <=2.2	Yes

Overall Uncertainty
+/- 3.04 % in luminance



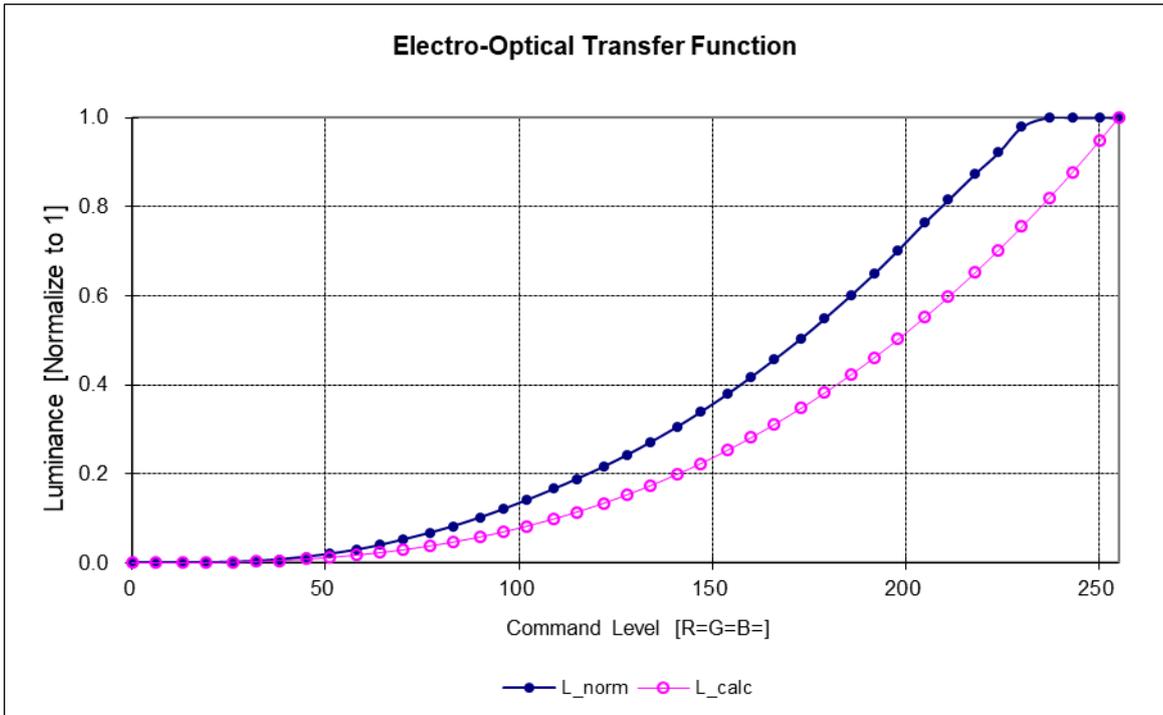
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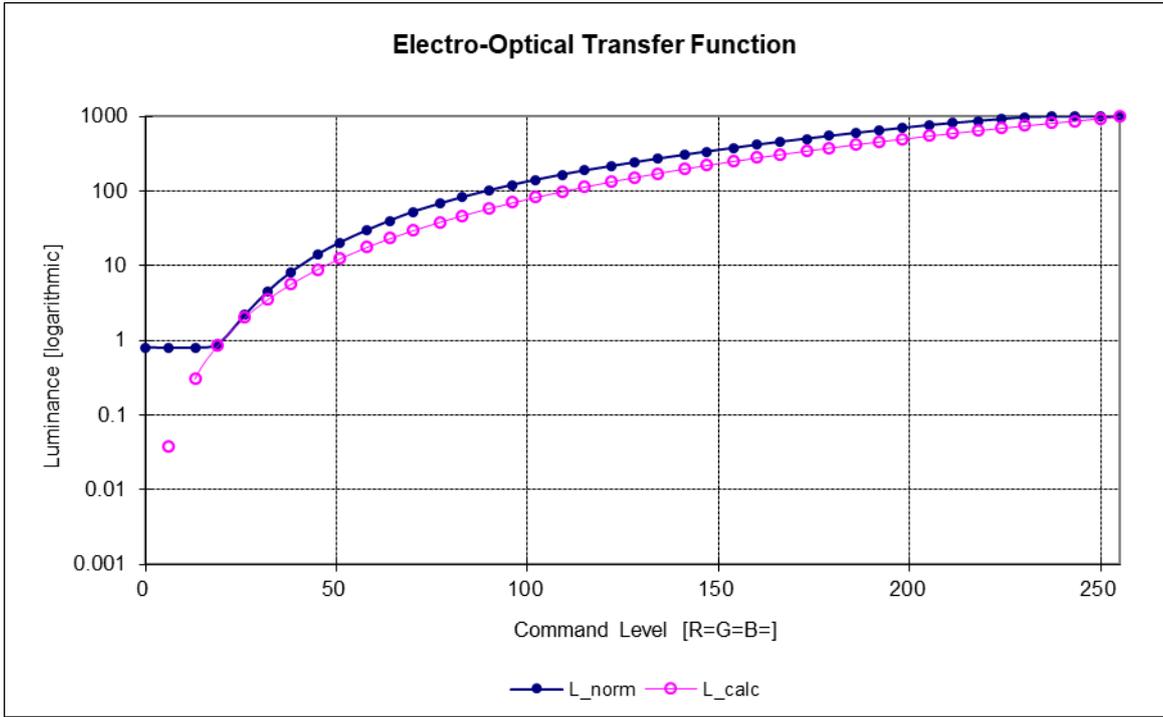
Report No.: SZES251100926401
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85.0%	218.0	201.2	0.2017	0.4656
87.5%	224.0	212.2	0.2016	0.4647
90.0%	230.0	225.3	0.2014	0.4641
92.5%	237.0	227.1	0.2011	0.4624
95.0%	243.0	228.1	0.2011	0.4623
97.5%	250.0	229.1	0.2011	0.4623
100.0%	255.0	230.1	0.2011	0.4623



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2. Over all relevant viewing directions the chromaticity non-uniformity difference between different grey levels shall not exceed a limit of $\Delta u', v' = 0,04$.

%	R=G=B	u'	v'
25.0%	64.0	0.2017	0.4641
50.0%	128.0	0.2016	0.4641
75.0%	192.0	0.2020	0.4666
100.0%	255.0	0.2011	0.4623

$\Delta u'v'$				
R=G=B	25%	50%	75%	100%
25%	x	0.000	0.003	0.002
50%	x	x	0.003	0.002
75%	x	x	x	0.004

Max. $\Delta u'v'$	0.004
< 0.04	Yes

5.8.4 Rendering of moving images

Pass

The visual display shall have sufficient temporal fidelity to show moving images without any blur, smear and other noticeable artefacts.

Observation	No motion blur observed
-------------	-------------------------



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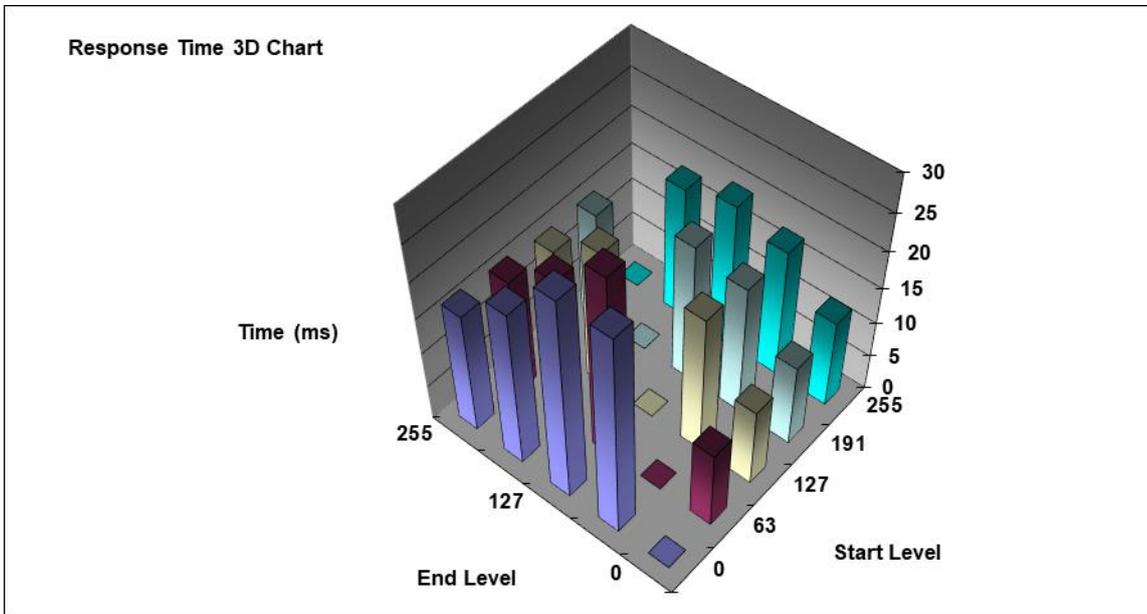
5.8.5 Image formation time (IFT)

Pass

The image formation time (IFT) shall be short enough for the type of information shown.

When an image is formed on an electronic visual display this requires a certain time, which depends on the technical type of display. This image formation time may be too long for the application.

		End Level					Overall Uncertainty +/- 0.28 ms	
		0	63	127	191	255		
Start Level	0		28.2	28.2	21.7	16.9	Max	28.2
	63	10.9		25.8	20.7	16.2		
	127	11.0	19.3		19.3	15.3		
	191	11.5	18.0	19.3		15.4		
	255	12.3	17.8	19.8	18.1			
Display suitable for		Moving images						



5.8.6 Spatial resolution

N/A

a) Resolution of the visual display should enable a satisfying reproduction of the original image. The minimum resolution of the display should be (horizontal x vertical):

- for VGA: $\geq 640 \times 480$;
- for PAL: 768×576 ;
- for NTSC: 720×480 .



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Test Report

Report No.: SZES251100926401

Date: 2026-01-22

Display Resolution tested	1920	x	1080
---------------------------	------	---	------

b) The visual display should have a spatial resolution of less than 1 minute of arc at the design viewing distance.

Ddesign,view	(mm)	500	mm
Pixel Size b	(mm)	0.178	mm
Spatial Resolution α	(min of arc)	0.96	'

5.8.7 Raster modulation or fill factor

Pass

For visual displays having a pixel density of less than 30 pixels per degree at the design viewing distance, the luminance modulation in the direction perpendicular to adjacent raster lines shall not exceed $C_m = 0,4$ for monochrome displays or $C_m = 0,7$ for multicolour displays, when all pixels are in their high state.

Cm	N/A
----	-----

For a visual display having a pixel density of less than 30 pixels per degree at the design viewing distance, the fill factor shall exceed 0,3.

The supplier shall submit the subpixel drawing or specify the fill factor.

Pixel Density/deg.	64.2
--------------------	------

Fill Factor	0.30
-------------	------

5.8.8 Pixel density

Pass

For direct-view displays, the manufacturer shall specify the pixel density.

Pixel Density/deg.	64.2
--------------------	------



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Photo documentation



Figure 1. Front view



Figure 2. Back view

--- End of Report ---



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