ISO 21139-22:2026-04 (E)

Permanence and durability of commercial prints - Part 22: Backlit display in indoor or shaded outdoor conditions - Light stability

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

3.1 Symbols and abbreviated terms 2

3.2 Measures of exposure severity 2

3.3 Surroundings of backlit display 4

3.4 Orientations of the backlit print 4

3.5 Colour evaluation 5

4 Use profile **6**

4.1 General 6

4.2 Parameters of backlit display 6

4.3 Frontside exposure and environmental conditions 7

4.4 Equivalent test conditions 8

4.4.1 General 8

4.4.2 Severity-weighted exposure condition 8

4.4.3 Equivalent test duration 10

4.5 Relevance of use 12

5 Test method **13**

5.1 General 13

5.2 Sample preparation 13

5.2.1 Outline 13

5.2.2 Test target 13

5.2.3 Sample labelling and marking 14

5.2.4 Storage and handling conditions 14

5.2.5 Reference samples 14

5.2.6 Backing of the specimens 14

5.3 Common test conditions 14

5.3.1 Test configuration 14

5.3.2 Illuminance level 14

5.3.3 Temperature and humidity 15

5.3.4 Duration of the test 15

5.4 Testing of the frontside of the print 15

5.4.1 Specimen mounting for frontside exposure 15

5.4.2 Duration of the frontside test 15

5.5 Testing of the backside of the print 15

5.5.1 Specimen mounting for backside exposure 15

5.5.2 Duration of the backside test 15

6 Measurement **15**

6.1 General 15

6.2 Measurement conditions 16

7 Data analysis **17**

7.1 General 17

7.2 Image quality parameter for data analysis 17

7.3 Equivalent test conditions 18
7.4 Estimation of the time to reach a certain change 18
8 Test report **18**
Annex A (informative) **Relative severity of irradiation with a relative spectral distribution** **20**
Annex B (informative) **Characterization of an example LED light box** **24**
Annex C (informative) **sRGB test target** **26**
Annex D (informative) **Overview of test conditions in backlit context** **27**
Bibliography **28**