

ISO/CIE 8995-1:2025-01 (E)

Light and lighting - Lighting of work places - Part 1: Indoor

Contents

Page

- Foreword v
- Introduction vi
- 1 Scope 1
- 2 Normative references 1
- 3 Terms and definitions 1
- 4 Symbols and abbreviations 2
- 5 Lighting design criteria 3
 - 5.1 General 3
 - 5.2 Luminance distribution 4
 - 5.2.1 General 4
 - 5.2.2 Average luminance of surfaces 4
 - 5.2.3 Reflectance of surfaces 5
 - 5.2.4 Illuminance on surfaces 6
 - 5.3 Illuminance 6
 - 5.3.1 General 6
 - 5.3.2 Scale of illuminance 6
 - 5.3.3 Illuminances on the task area or activity area 6
 - 5.3.4 Illuminance on the immediate surrounding area 8
 - 5.3.5 Illuminance on the background area 8
 - 5.3.6 Illuminance uniformity 9
 - 5.4 ipRGC-influenced responses to light – Melanopic Equivalent Daylight Illuminance 9
 - 5.5 Illuminance grid 10
 - 5.6 Glare 12
 - 5.6.1 General 12
 - 5.6.2 Limiting luminaire luminance 13
 - 5.6.3 Discomfort glare 14
 - 5.6.4 Veiling reflections and reflected glare 16
 - 5.7 Visual appearance of objects and people within the interior space 16
 - 5.7.1 General 16
 - 5.7.2 Shadows 16
 - 5.7.3 Cylindrical illuminance requirement in the activity space 16
 - 5.7.4 Directional lighting of visual tasks areas 16
 - 5.7.5 Modelling 16
 - 5.8 Colour aspects 17
 - 5.8.1 General 17
 - 5.8.2 Colour appearance of the light source 17
 - 5.8.3 Colour rendering 17
 - 5.9 Temporal light modulation (TLM) 18
 - 5.10 Lighting of work stations with Display Screen Equipment (DSE) 18
 - 5.10.1 General 18
 - 5.10.2 Luminaire luminance limits with downward flux 19
- 6 Lighting design considerations 19
 - 6.1 General 19
 - 6.2 Illuminance requirements and recommendations 20
 - 6.2.1 General 20
 - 6.2.2 Lighting of the task area or activity area and its immediate surrounding area 20
 - 6.2.3 Lighting of the space 20

6.2.4	Variability and adjustability of light.....	21
6.3	Maintenance factor.....	22
6.4	Energy performance.....	23
6.5	Daylight.....	23
6.6	Room brightness.....	24
7	Schedule of specific lighting requirements.....	24
7.1	Composition of the tables.....	24
7.2	Schedule of task areas and activity areas.....	25
7.3	Lighting requirements for task areas, activity areas, room and space brightness.....	27
8	Verification procedures.....	88
8.1	General.....	88
8.2	Illuminances.....	88
8.3	Unified glare rating.....	88
8.4	Colour rendering and colour appearance.....	88
8.5	Luminaire luminance.....	88
8.6	Maintenance schedule.....	88
8.7	Tolerances in measurements.....	89
8.8	System tests.....	89
Annex A (informative)	Recommended practice regarding implementation of UGR tabular method for 'non-standard' situations.....	90
Annex B (informative)	Additional information on visual and non-visual effects of ocular light exposure.....	92
Annex C (informative)	Lighting design considerations – Examples.....	99
Annex D (informative)	Commissioning.....	106
Bibliography	107