

Properties of the visual system and use cases for the copier and display output

According to ISO 9241-306:2018 the luminance of the white display and the white paper shall be equal to avoid fatigue and increase well-being of users. The illuminance 500 lux von ISO 8995-1 corresponds to the luminance 142 cd/m².

Table 1: Properties of copier and display output

Standard document output	ISO/IEC 15775:2022 copier	ISO 9241-306:2018 display	ISO 3664 print & display	Encoding HDR range display	Transfer HDR-SDR display
tone mapping visual & colorimetric	ergonomic spacing vis. & col.	ergonomic spacing vis. & col.	special separate colors	pleasing? visual?, no definition	pleasing? visual?, no definition
ergonomic output quality	high quality vis. spacing regularity g*	high quality vis. spacing regularity g*	col. quality reflections avoided (HW)	low quality, no reflection considered	low quality, no reflection considered
optimized energy consumption	yes according ISO 8995-1	yes 500 lux 142 cd/m ²	yes 500 lux 142 cd/m ²	no, up to 3300 lux 1000 cd/m ²	no up to 3300 lux 1000 cd/m ²
optimized sustainable software SSW	yes, SSW for >3 use cases(P,O)	yes, SSW for >2000 use cases	no, SSW for only 1 use case	no, SSW for only 1 use case	no, SSW for only 1 use case

Display reflection is NOT considered, this is called "stone age image technology".