

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: Ergonomics, energy consumption and sustainability of output

Standard document and device output	ISO/IEC 15775 /ed-2:2022 copier	ISO 9241-306 /ed-2:2018 display	Encoding HDR range display	Transfer HDR→SDR display
tone mapping visual (vis.) & colourimetric	ergonomic equal spacing vis. & col.	ergonomic equal spacing vis. & col.	pleasing? visual?, no definition	pleasing? visual?, no definition
ergonomic output quality $0 \leq g^* \leq 100$	high quality vis. spacing regularity g^*	high quality vis. spacing regularity g^*	low quality, no reflection considered	low quality, no reflection considered
optimized energy consumption	yes, 500 lux according ISO 8995-1	yes 500 lux or 142 cd/m ²	no, up to 3300 lux or 1000 cd/m ²	no up to 3300 lux or 1000 cd/m ²
optimized sustainable software SSW	yes, SSW is for >3 use cases (papers)	yes, SSW is for 15-13-11...> 2000 use cases	no, SSW is for only 1 use case	no, SSW is for only 1 use case

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