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|  | **Background** | | **Modulation** |  |  |
| **Scenario** | Illuminance | Chromaticity | Contrast | **Example** | **Note** |
| Maximum-contrast modulation without constraints | Variable | Variable | Variable (maximum) | Melanopsin modulation at maximum possible contrast | Useful for finding the maximum available melanopsin contrast. Any of the other cases below will have lower contrast. |
| Maximum-contrast modulation at specific illuminance | Specified | Variable | Variable (maximum) | Melanopsin modulation at maximum possible contrast at X lux |  |
| Maximum-contrast modulation at specific illuminance and chromaticity | Specified | Specified | Variable (maximum) | Melanopsin modulation at maximum possible contrast at X lux and specified chromaticity | Very useful. |
| Target-contrast modulation | Variable | Variable | Specified | Melanopsin modulation at X% contrast | Probably not very useful, as you wouldn’t just find a melanopsin modulation at a specific contrast without other constraints. |
| Target-contrast modulation at specified illuminance | Specified | Variable | Specified | Melanopsin modulation at X% contrast at X lux |  |
| Target-contrast modulation modulation at specific illuminance and chromaticity | Specified | Specified | Specified | Melanopsin modulation at X% contrast at X lux and specified chromaticity | Very useful. |