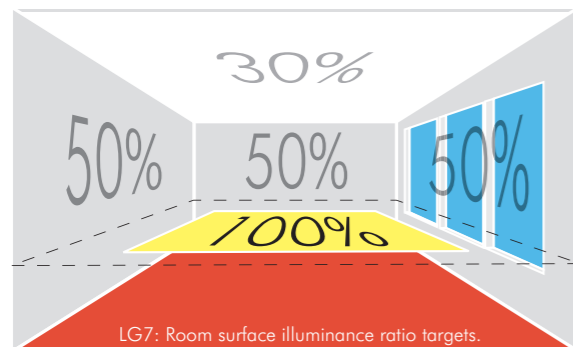




Lighting design

Principles

Clearvision supports its products with lighting application design based around ergonomic principles and current industry best practice. A well created scheme is essential in blending the performance of lighting products.



Guidance and standards

In the UK, most office areas are designed with CIBSE LG7 in mind and with ICEL1007 for emergency lighting calculations. Other guidance (for example BB90 for Schools) is combined with our own specialist experience to create optimised schemes.

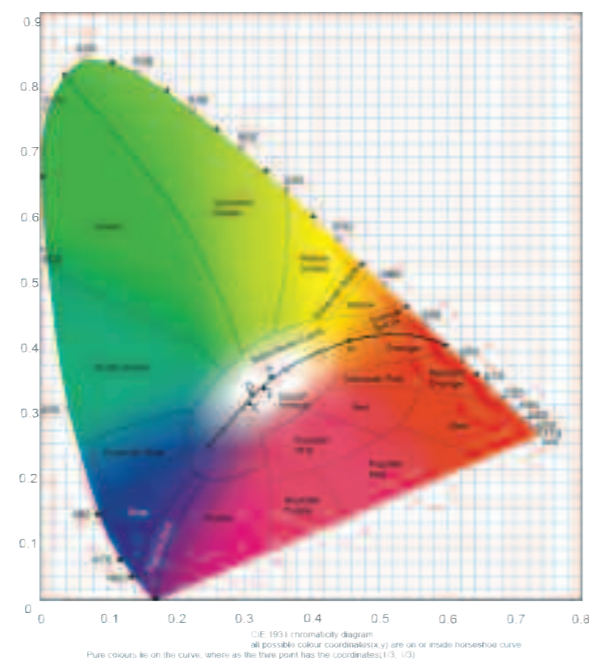
People

People should be at the very centre of any workplace lighting scheme. The best designs will reflect the type of people, what they do and how they do it in the space.

Unfortunately, the users are sometimes not known and flexible designs are critical in these cases.

Colour

Colour is a key factor. Colour temperature – measured in degrees Kelvin (higher temperature=cooler appearance) determines the appearance of the light. Colour rendering – measured as CRI index (100 = daylight) affects how true colours appear to a daylight reference.

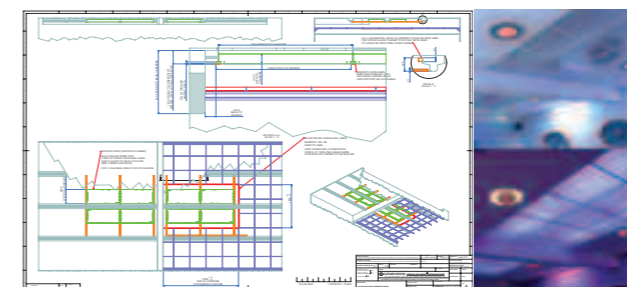


Products

Experience of how a product really performs is a big advantage in creating a scheme, since photometrics only provide part of the picture. It is always valuable for a designer to have support from our technical team to provide this information.

Arrays

A fitting used on the wrong array will often cause problems. Sometimes a good fitting is not available in a suitable format for the array needed on a particular project. Multi format fittings have the advantage of being more capable of achieving an optimum scheme.



Features

Clearvision employs product designers, who can modify products to specific project needs or design new lighting design features where required. Care must be exercised in designing specials, so that all of their operational requirements are considered during the design.



Dialux

Clearvision employs Dialux software for its own lighting calculations and a plug-in for this software is available as a download from www.virtualdaylight.com for those people wishing to do their own calculations. Clearvision will accept drawings in .DXF / .DWG formats and we will output schemes in the format sent to us. Our data is available in EULUMDAT format for Relux or TM14 for Cymap and Hevacomp.

