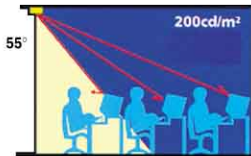
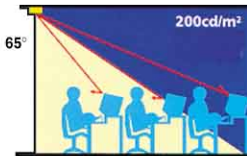


CAT. 2 & CAT. 3 (LOW GLARE LUMINAIRE) CIBSE LIGHTING GUIDE 3. CATEGORIES OF VDT LUMINAIRES

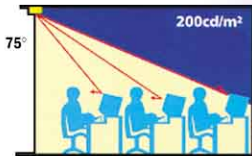
There are three categories listed in The Chartered Institution of Building Services Engineers's (CIBSE's) LG3. The compliance of a luminaire is achieved by establishing that the calculated average luminance at, or any point above, the specified luminance limit **does not exceed** the required luminance limit (which is specified as 200cd/m² by CIBSE's LG3). The specified luminance limit angle is **55 for Category 1, 65 for Category 2 and 75 for Category 3** as shown in the figure.



Category 1



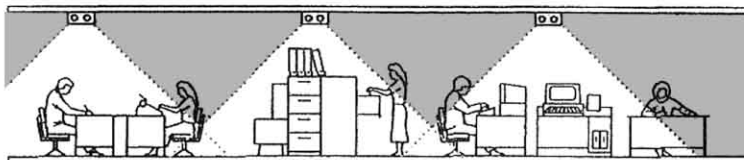
Category 2



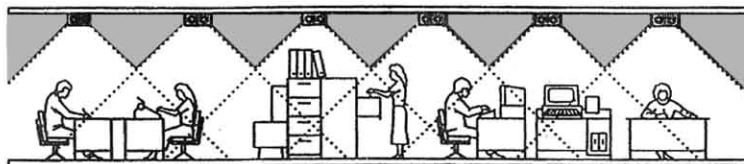
Category 3

It must be highly emphasized that Category 1 is not 'better' than Category 2, nor Category 2 'better' than Category 3. The correct category must be selected for each individual installation otherwise undue installation and energy costs are likely to be incurred.

Light output ratio is another aspect of the installation when choosing the 'right' Category. This ratio must be determined so that the luminance is evenly distributed as can be seen in the figure.



Wide spacing showing uneven distribution



Optimum spacing showing even distribution.

From this information it can be ascertained that in general **Category 1** (reflector luminance <200 cd/sq.m from an angle of 55°) luminaires are recommended where there were a high density of VDU (Video Display Terminal) in an area, and where usage is sustained overlong periods, or is of an intensive nature or where errors are critical.

Category 2 luminaires (reflector luminance <200 cd/sq.m from an angle of 65°) are recommended where there would be fairly wide spread use of VDT in an area where one VDT per desk for general use.

Category 3 luminaires (reflector luminance <200 cd/sq.m from an angle of 75°) are recommended where the density of VDT is low and where computer use is casual.

To achieve the control of light as set out in the CIBSE LG3, specialized designs fitting and materials use are require and this are all available in our range of fitting.