

1.4 Visual Function

This aspect is related to the lighting required for carrying out tasks without discomfort. Chapter B has shown how the illuminance incident on the task will affect the level of achievable visual performance. Recommended illuminances for different areas and applications are given in the '*DMA Roadway & Public Realm Lighting Specifications and Roadway Project Compliance Checklist Tables*'.

Such values apply most of the time to the specific area and do not necessarily need to apply to the whole area.

The traditional way of lighting an exterior place or exterior area has been by the provision of a regular array of luminaires. For this approach, the average maintained illuminance uniformity is recommended. This approach has the benefit that the different areas and situations can be carried-out on the horizontal plane anywhere in the urban environment.

In some cases there may be a need to have a colour recognition element. In such cases it will be necessary to use lamps with a high general colour rendering index (CRI). For such areas it will be appropriate to use lamps with up to $\text{CRI} \geq 80$ for some applications.



Figure 134

Poor colour rendering produced by sodium lamps; approx. RA 40 depending on manufacturer and type.