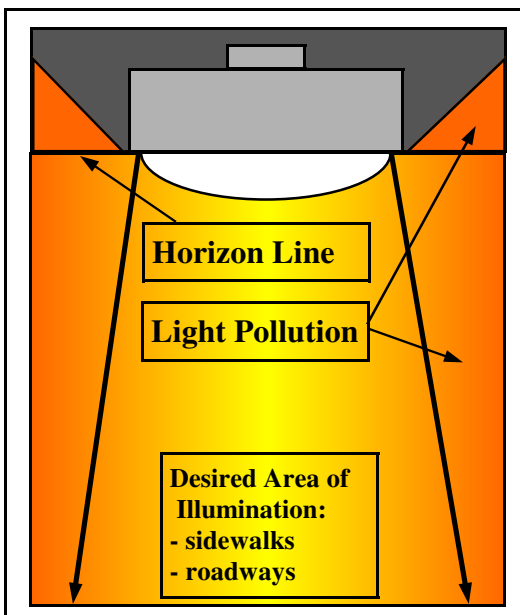


Non- and Semi-cut-off Street Lighting Fixtures



Fixtures like the cobra-head (top), and cone-head (below) **waste up to 1/3 of their energy** into the night sky. Even semi-cut-off's, with a shallow-dish glass lens (diagram), produce light pollution and waste up to 5% of the energy produced. **Only full cut-off's prevent energy and light waste.**



Above: An Edmonton back alley is over-lit by cone-head fixtures which waste much energy, cause light trespass through the neighborhood, and produce much glare and light pollution.

