

## Guidelines for night lighting

# CRANES

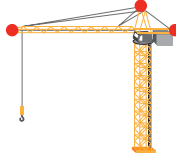
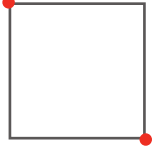
A crane is a tall machine equipped with cables and pulleys that can be used to lift and lower materials vertically and to move them horizontally.

Due to the large variety in crane types, lighting for each installation needs to be assessed individually.

### Points to consider when lighting cranes (ICAO example):

- Lights should be placed so the lighting is visible from every angle in azimuth
- The type of crane determines the number of lights to be installed at the top and at each light level
- The number of light levels is determined by the height of the structure

Structure height	Levels & lighting type
< 45m	1 level: • Low intensity obstruction lights
45m – 105m	2 levels: • First/lower level: low intensity • Top level: medium intensity
105m – 210m	4 levels: • First (lower) level: low intensity • Second level: medium intensity • Third level: low intensity • Fourth/top level: medium intensity

Light level	Number of lights per level
<p>Top level</p> 	<ul style="list-style-type: none"> <li>• 1-3 obstruction lights</li> <li>• Lights to be placed at the top and, if required, at jib and counter-jib</li> </ul>
<p>Other levels</p> 	<ul style="list-style-type: none"> <li>• 1 or two obstruction lights on each level of the crane's tower</li> <li>• Ensure lighting is visible from every angle in azimuth</li> </ul>

### Standards and Regulations:

Obstruction light standards and regulations vary depending on your location. Here are some examples:

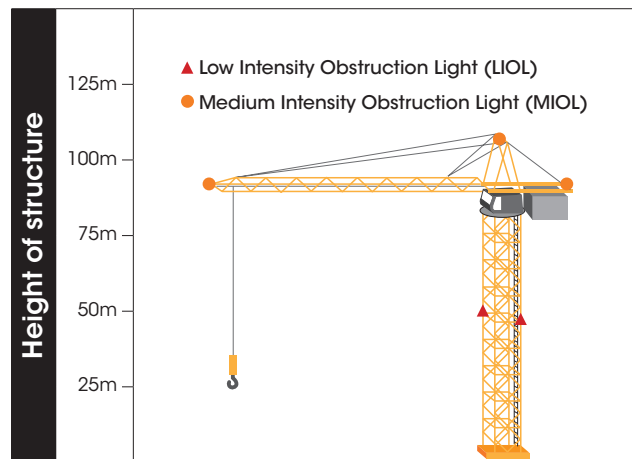
**ICAO** (International Civil Aviation Authority) is a specialized agency of the United Nations.

**FAA** (Federal Aviation Administration) is the national aviation authority of the United States.




**Transport Canada** is Canada's civil aviation authority.

**CASA** (Civil Aviation Safety Authority) is responsible for the safety of civil aviation in Australia.

The information in this publication is a guide only. Please contact your local authority for rules and regulations particular to your region.



### Obstruction light examples

	<ul style="list-style-type: none"> <li>• Low Intensity Obstruction Light</li> <li>• ICAO LIOL Type A &amp; Type B, FAA L-810 or CSA CL-810 model</li> <li>• Red, steady-on</li> </ul>
	<ul style="list-style-type: none"> <li>• Low Intensity Obstruction Light</li> <li>• CASA model</li> <li>• Red, steady-on</li> </ul>
	<ul style="list-style-type: none"> <li>• Medium Intensity Obstruction Light</li> <li>• ICAO MIOL Type B, FAA L-864 or CSA CL-810 model</li> <li>• Red, flashing</li> </ul>

Note: Avlite has an extensive range of obstruction lighting, contact your Avlite representative for additional models suitable for your application