



| v2 - LEED 2.0

Light pollution reduction

SSc7 | Possible 1 point

Glossary

Intent

Eliminate light trespass from the building and site, improve night sky access and reduce development impact on nocturnal environments.

Requirements

Option A

- Light to the Night Sky
 - Shield all outdoor luminaries 50 watts and over so that they do not directly emit light to the night sky.
- OR
- Provide calculations showing that less than 5% of light emitted by all outdoor lighting reach the night sky on an annual basis.
- Light Trespass
 - With the building interior, exterior and site lights on and off, measure the illumination levels at the same locations at regular intervals around the perimeter of the property. At least eight measurements are required with documentation that the measurements made are sufficient in quantity to be representative of the illumination levels on the perimeter of the property. The property perimeter illumination levels measured with the lights on must not be more than 10% above the levels measured with the lights off.
- Performance
 - Provide records and results of quarterly inspections to determine if required features are being maintained.

Option B

- Light to the Night Sky
 - Shield all outdoor luminaries 50 watts and over so that they do not directly emit light to the night sky.
- OR
- Provide calculations showing that less than 5% of light emitted by all outdoor lighting reach the night sky on an annual basis.
- Light Trespass
 - Provide calculations showing that the maximum candela value of all interior lighting falls within the building (not out through windows) and the maximum candela value of all exterior lighting falls within the property. Provide documentation that all luminaires within a distance of 2.5 times their mounting height from the property line have shielding that allows less than 5% of the light from these fixtures to cross the property boundary.
- Performance
 - Provide records and results of quarterly inspections to determine if required features are being maintained.