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## LEED ID+C: Commercial Interiors | v4 - LEED v4

# Daylight

## Possible 3 points

1 result in All .

### Intent

To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.

### Requirements

Provide manual or automatic (with manual override) glare-control devices for all regularly occupied spaces.

Select one of the following three options.

#### Option 1. Simulation: Spatial Daylight Autonomy (2-3 points)

Demonstrate through annual computer simulations that [spatial daylight autonomy](#)<sub>300/50%</sub> (sDA<sub>300/50%</sub>) of at least 55%, 75%, or 90% is achieved. Use regularly occupied floor area. Points are awarded according to Table 1.

Table 1. Points for daylit floor area: Spatial daylight autonomy

CI, CI Retail, CI Hospitality	
sDA (for regularly occupied floor area)	Points
55%	2
75%	3

AND

Demonstrate through annual computer simulations that annual sunlight exposure<sub>1000,250</sub> (ASE<sub>1000,250</sub>) of no more than 10% is achieved. Use the regularly occupied floor area that is daylit per the sDA<sub>300/50%</sub> simulations.

The sDA and ASE calculation grids should be no more than 2 feet (60 cm) square and laid out across the regularly occupied area at a work plane height of 30 inches (76 cm) above finished floor (unless otherwise defined). Use an hourly time-step analysis based on typical meteorological year data, or an equivalent, for the nearest available weather station.

Include any permanent interior obstructions and [movable furniture and partitions](#).

#### Option 2. Simulation: Illuminance Calculations (1-2 points)

Demonstrate through computer modeling that [illuminance](#) levels will be between 300 lux and 3,000 lux for 9 a.m. and 3 p.m., both on a clear-sky day at the equinox, for the floor area indicated in Table 2. Use regularly occupied floor area.

Table 2. Points for daylit floor area: Illuminance calculation

CI, CI Retail, CI Hospitality	
Percentage of regularly occupied floor area	Points
75%	1
90%	2

Calculate illuminance intensity for sun (direct component) and sky (diffuse component) for clear-sky conditions as follows:

- Use typical meteorological year data, or an equivalent, for the nearest available weather station.
- Select one day within 15 days of September 21 and one day within 15 days of March 21 that represent the clearest sky condition.
- Use the average of the hourly value for the two selected days.

Exclude blinds or shades from the model.

Include any permanent interior obstructions and [movable furniture and partitions](#).

#### Option 3. Measurement (2-3 points, 1-2 points Healthcare)

Achieve [illuminance](#) levels between 300 lux and 3,000 lux for the floor area indicated in Table 3.

Table 3. Points for daylit floor area: Measurement

NC, CS, Schools, Retail, Data Centers, Warehouses & Distribution Centers, Hospitality, CI		Healthcare	
Percentage of regularly occupied floor area	Points	Percentage of perimeter floor area	Points
75	2	75	1
90	3	90	2

With furniture, fixtures, and equipment in place, measure illuminance levels as follows:

- Measure at appropriate work plane height during any hour between 9 a.m. and 3 p.m.
- Take one measurement in any regularly occupied month, and take a second as indicated in Table 4.
- For spaces larger than 150 square feet (14 square meters), take measurements on a maximum 10 foot (3 meter) square grid.
- For spaces 150 square feet (14 square meters) or smaller, take measurements on a maximum 3 foot (900 millimeters) square grid.

Table 4. Timing of measurements for illuminance

**If first measurement is taken in ... take second measurement in ...**

January	May-September
February	June-October
March	June-July, November-December
April	August-December
May	September-January
June	October-February
July	November-March
August	December-April
September	December-January, May-June
October	February-June
November	March-July
December	April-August