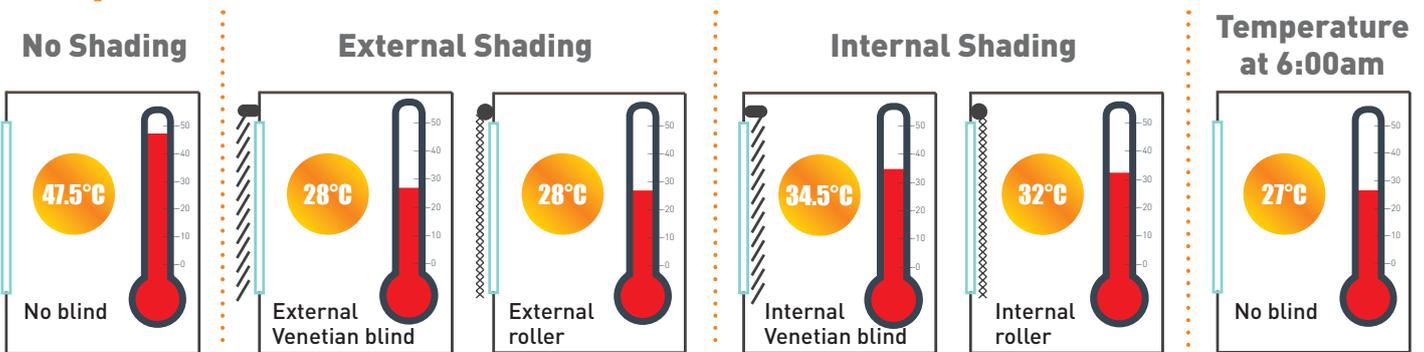


Another case of overheating... in September!



London office building converted to apartments. Fitted with new double glazing with a U-value of 1.1

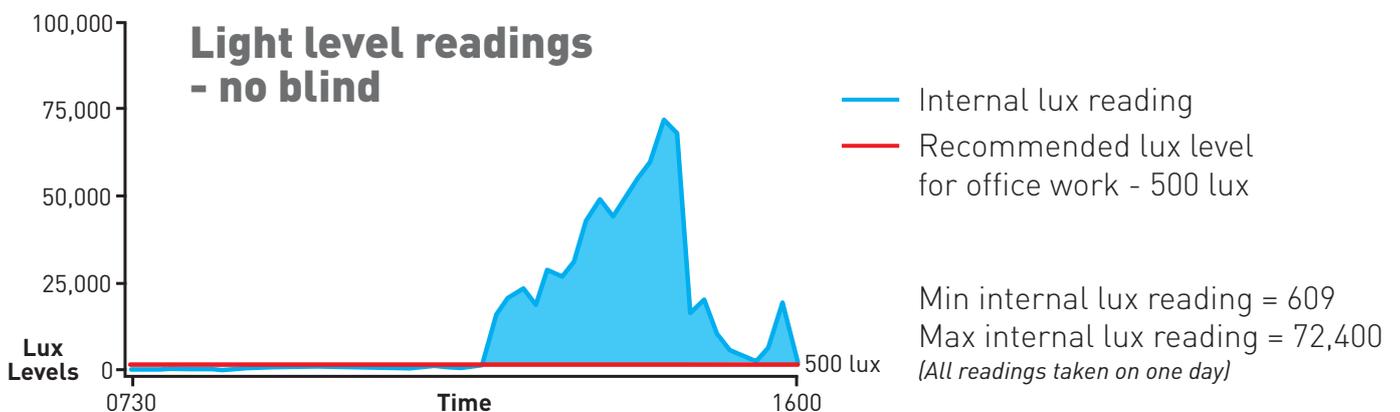
Temperatures



The temperatures indicated above are peak operative temperatures. For bedrooms in summer the recommended operative temperatures are between 23-26°C.

The study highlighted that with insulation to current building regulations the building retains heat in the heating season. It is difficult to lower it overnight without creating issues of noise and security hence the high starting temperatures in the rooms.

Light levels



Statistically proven that:

Rooms with internal blinds reduce operative temperatures compared to rooms without blinds

Rooms with external blinds reduce operative temperatures compared to rooms with internal blinds

How we did it



Control - no blind



Room fitted with internal Venetian blind

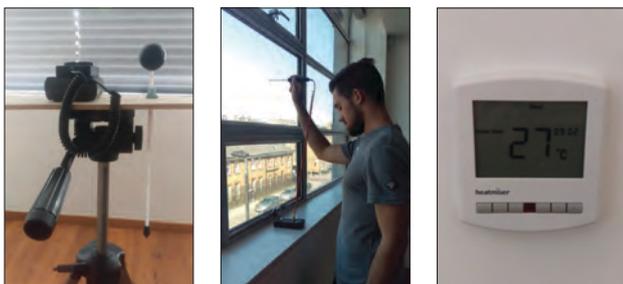
All photographs taken with a wide angle lens

External measurements



- Air temperature
- Lux levels

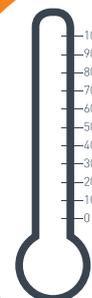
Internal measurements



- Air temperature
- Lux levels
- Operative temperature
- Glazing surface temperature
- Mullion surface temperature
- Blind fabric surface temperature

Measurements

Project managed by Zoe De Grussa,
PhD Researcher, London Southbank University



12,620
Individual
temperature
readings

BBSA

PO Box 232, Stowmarket, Suffolk, IP14 9AR

T: 01449 780 444 **www.shadeit.org.uk**



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