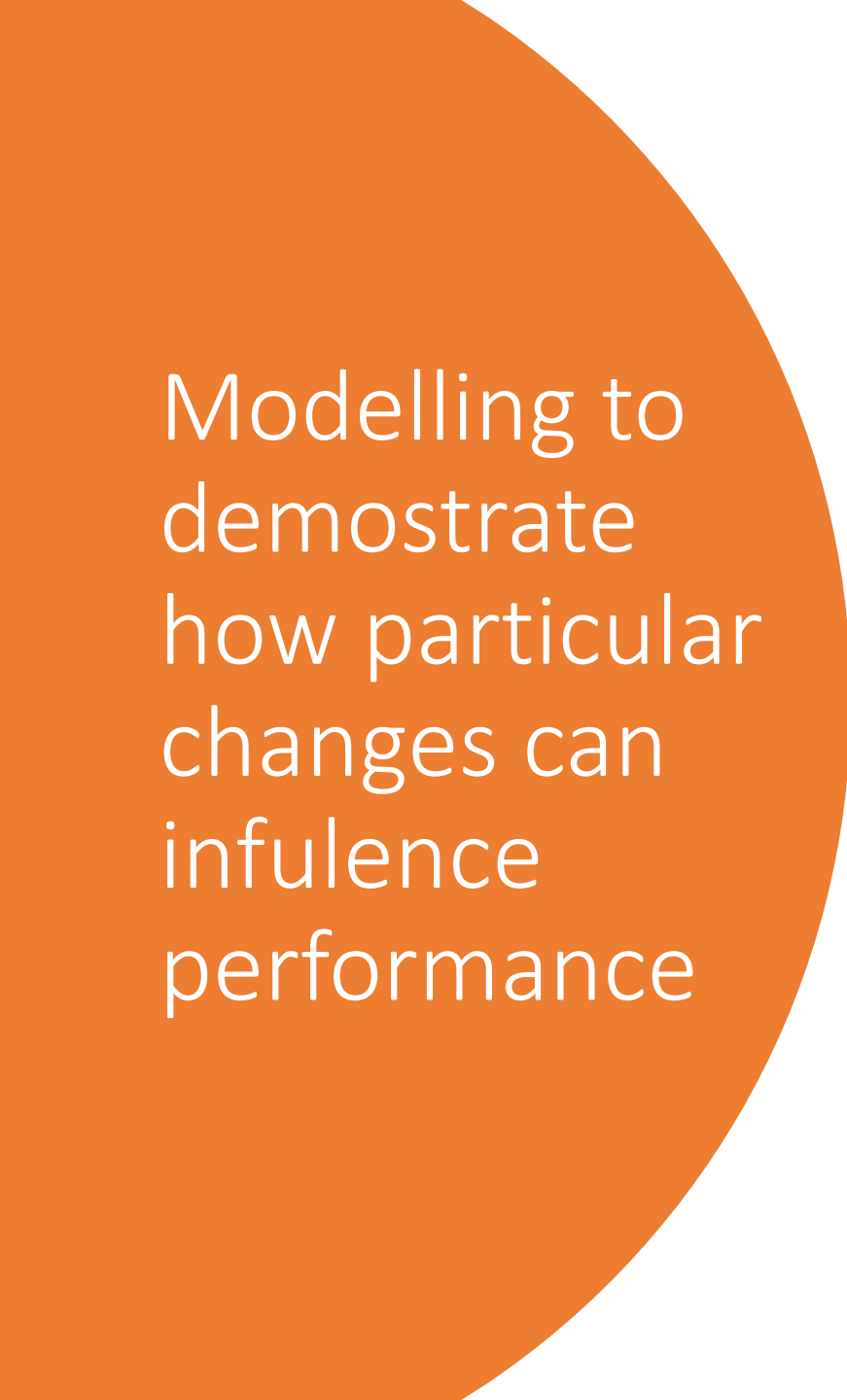




Comfort Rating Demonstration

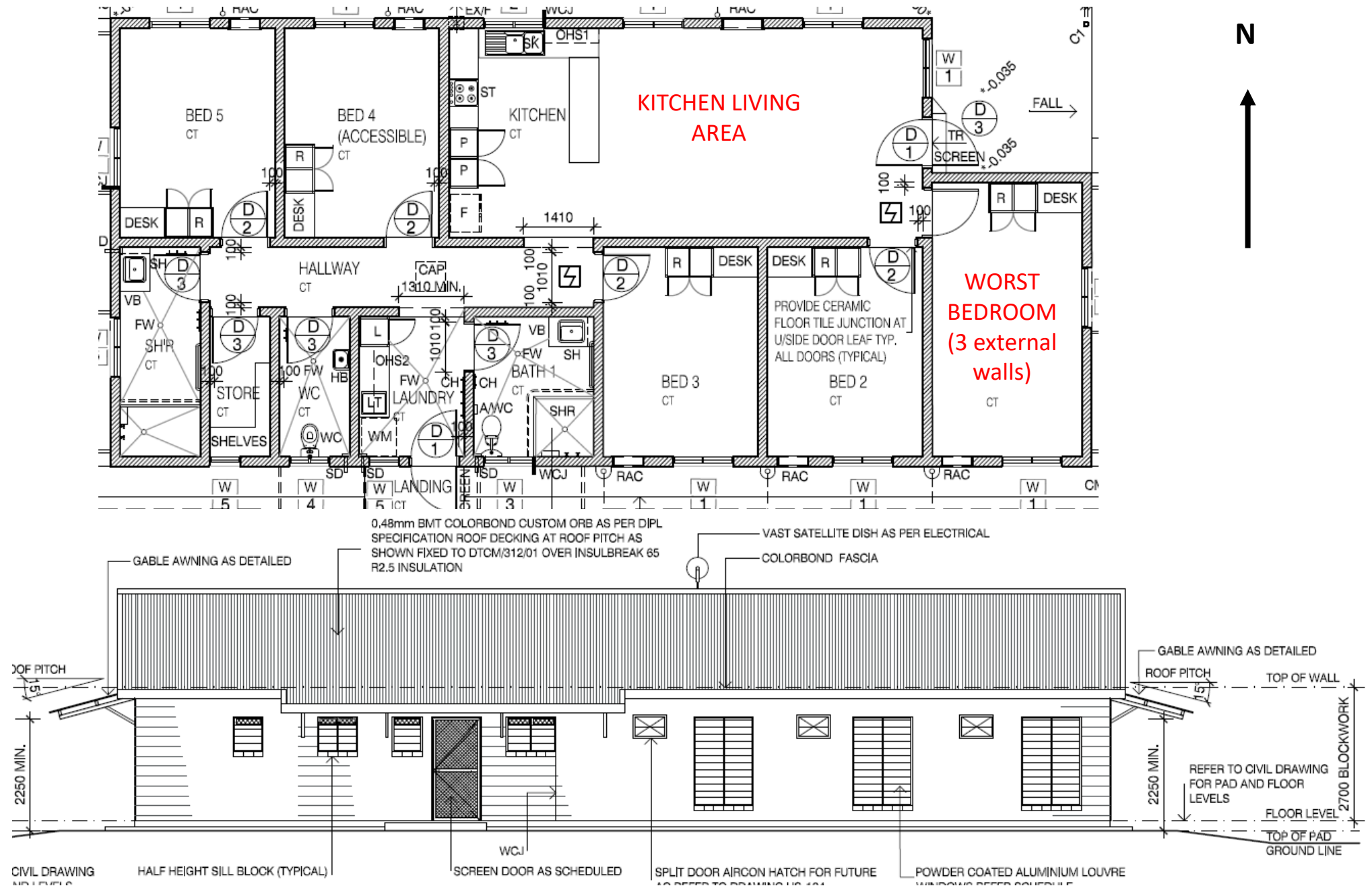
Accessing user friendly information on the thermal
performance of a home

A large orange circle on the left side of the slide, partially cut off by the edge.

Modelling to
demonstrate
how particular
changes can
influence
performance

- CSIRO modelled a five bedroom house and looked at a range of alternative materials orientations and shading to see what impact it has on the performance of the building.
 - Changes were made incrementally in the first instance and then in combinations to optimise the performance once the impact of individual changes were assessed.
- 
- A series of four yellow curved dashes in the bottom right corner, arranged in a diagonal line from bottom-left to top-right.

OFFICIAL



OFFICIAL

Base case design

- 900 mm eaves all round and no awnings over the end walls/windows
 - Ventilated medium coloured roof with reflective roof space (no bulk insulation)
 - 45% openable clear glazed windows
 - Uninsulated medium colour blockwork walls
- Energy Star Rating 5.8**

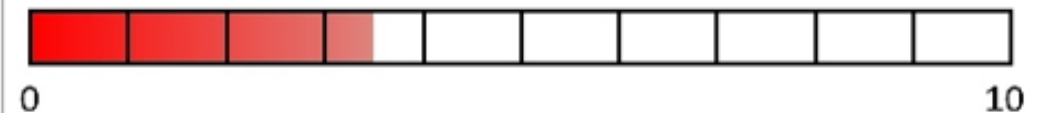
Kitchen - Living Room

5.9 Comfort Rating

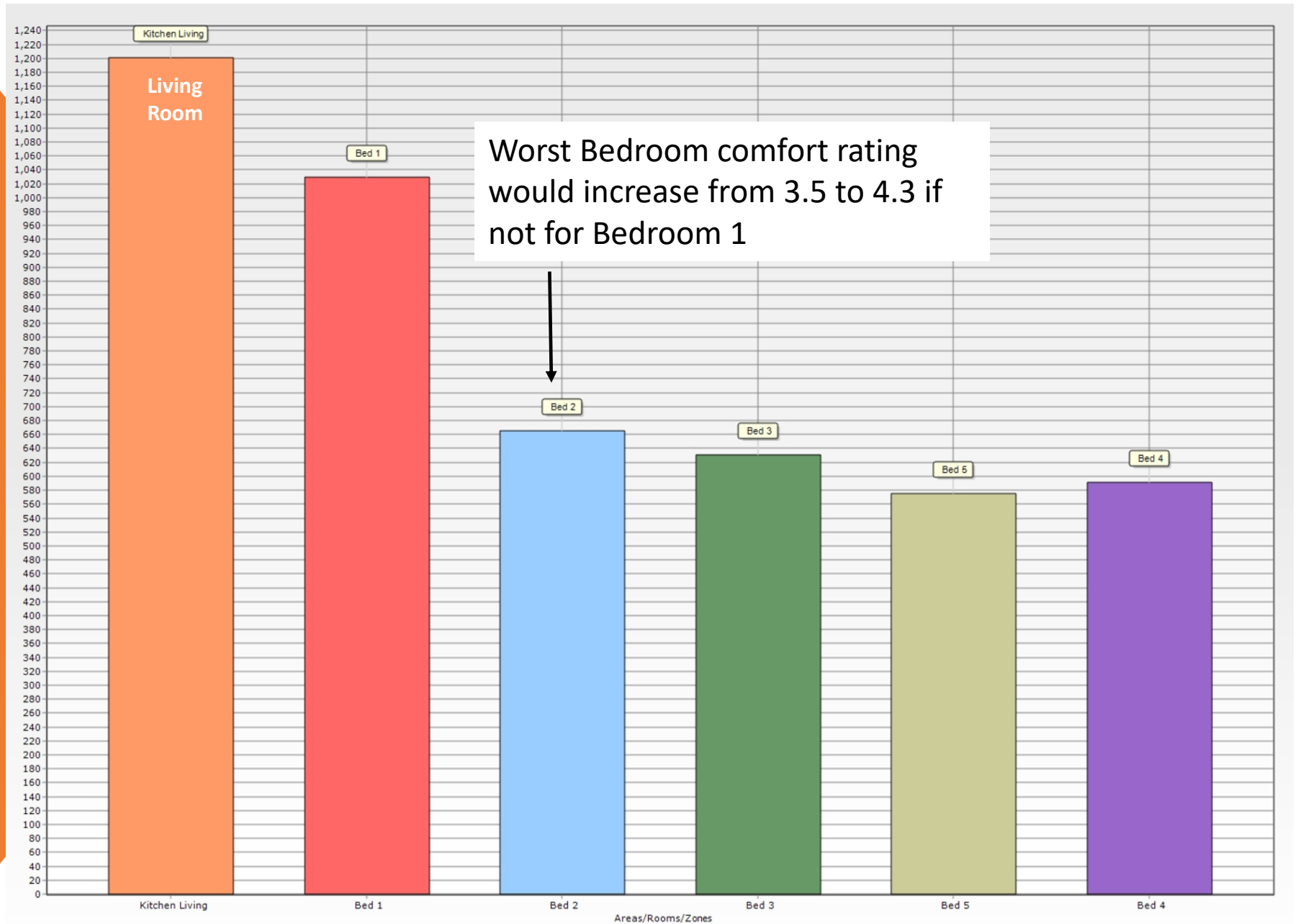


Worst Bedroom

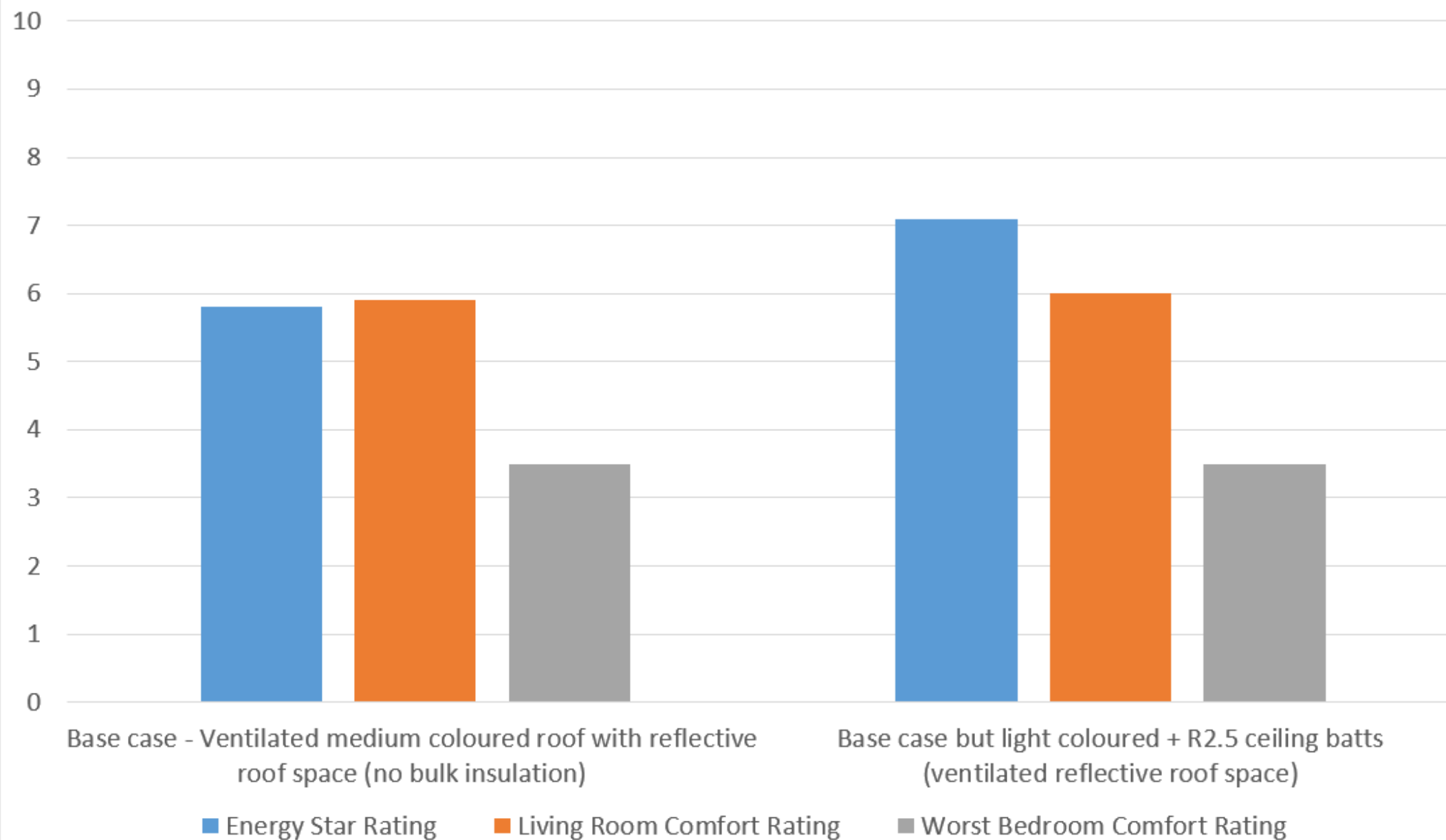
3.5 Comfort Rating



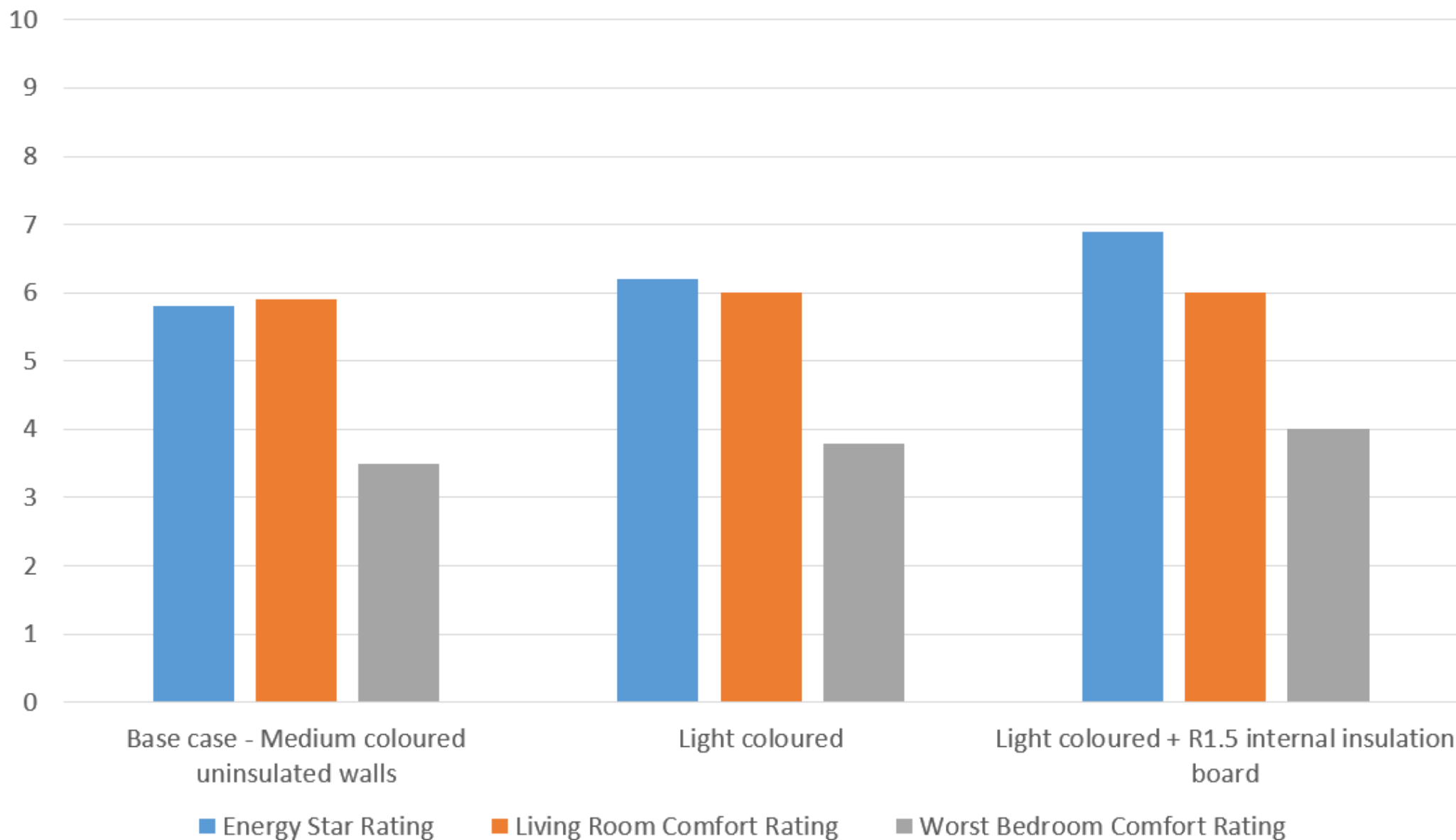
Degree hours of Discomfort of different rooms



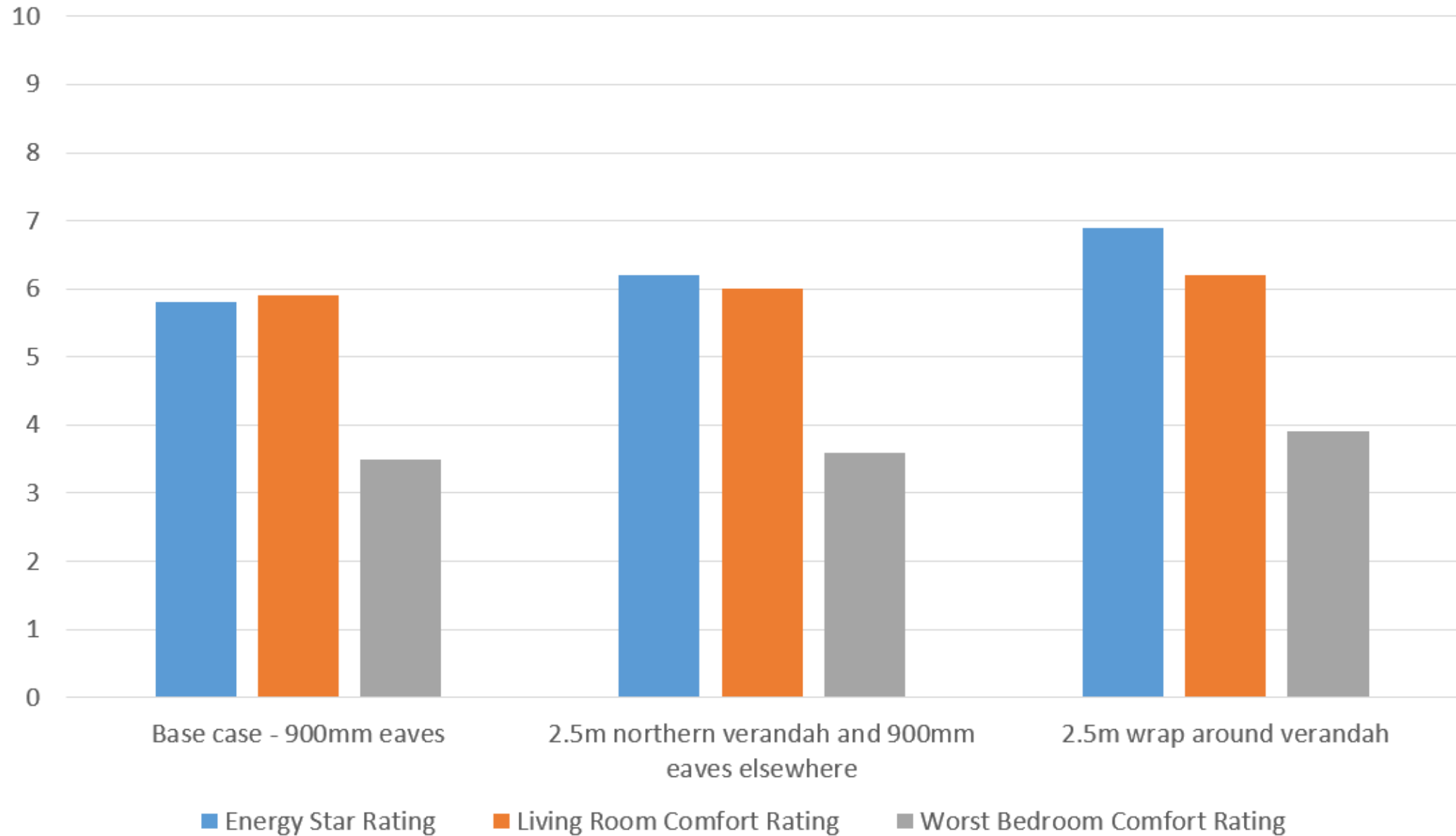
Impact of Roof Changes



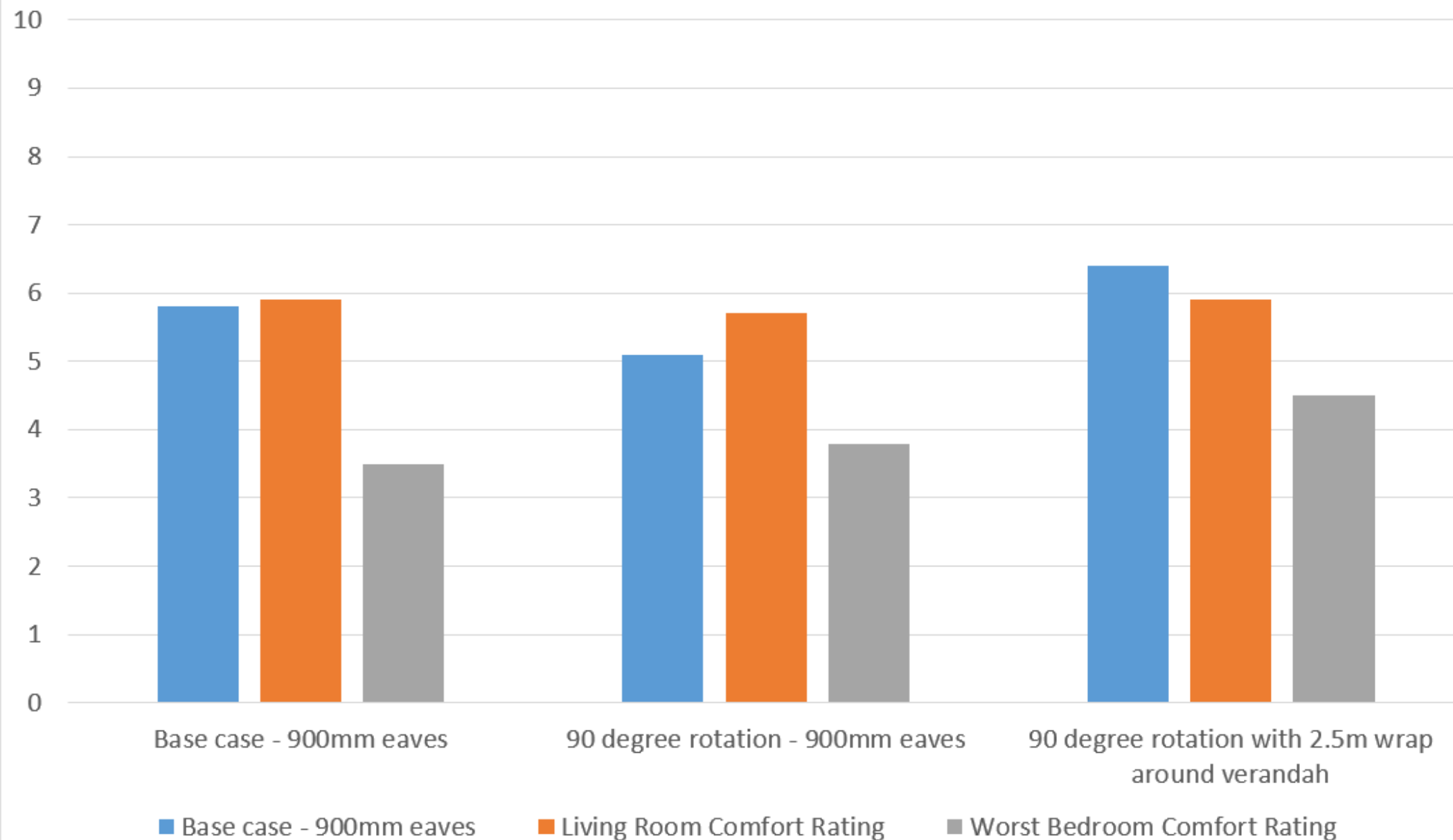
Impact of Wall Changes



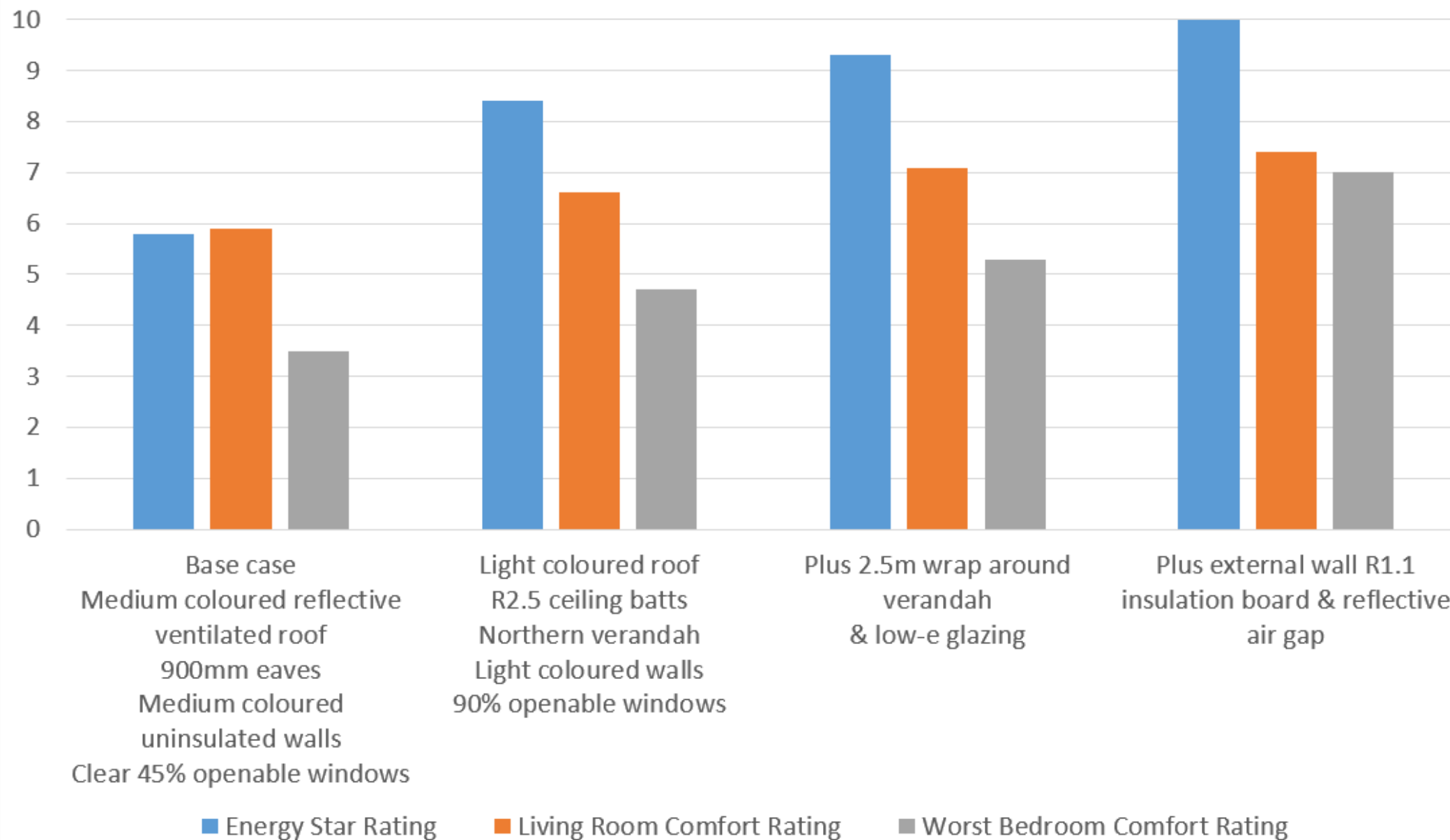
Impact of Shading Changes



Impact of Orientation Changes



Combined Features Results



Live simulation : What if??

To try and maximise the performance of the Worst Bedroom design we have cherry picked some key features .

- Light coloured roof
- R2.5 ceiling batts
- Northern verandah
- Light coloured walls
- 90% openable windows

PLUS BEDROOM 1 INSULATION AND WINDOW SHADING

How did we go??



