



**The future of lighting design for
neonatal care Helsingborg Hospital**

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 **MOUM DESIGN**

A hand is shown in silhouette, reaching out towards the sun as it sets over a calm body of water. The sun is a bright, glowing orb positioned just above the horizon line, creating a lens flare effect. The sky transitions from a pale yellow near the horizon to a clear blue at the top. The water's surface is smooth, reflecting the light from the sun. The overall mood is serene and contemplative.

Daylight







Digital transformation of healthcare



The Challenge

Parents



Premature babies



Staff



Radically different needs of light

Parents



Parents need light, just like staff, to feel healthy.

Premature babies



Before W28, premature babies doesn't need any light.

Staff



Staff need a lot of light to carry out their work and to feel healthy.

The Light Lab

Cooperation



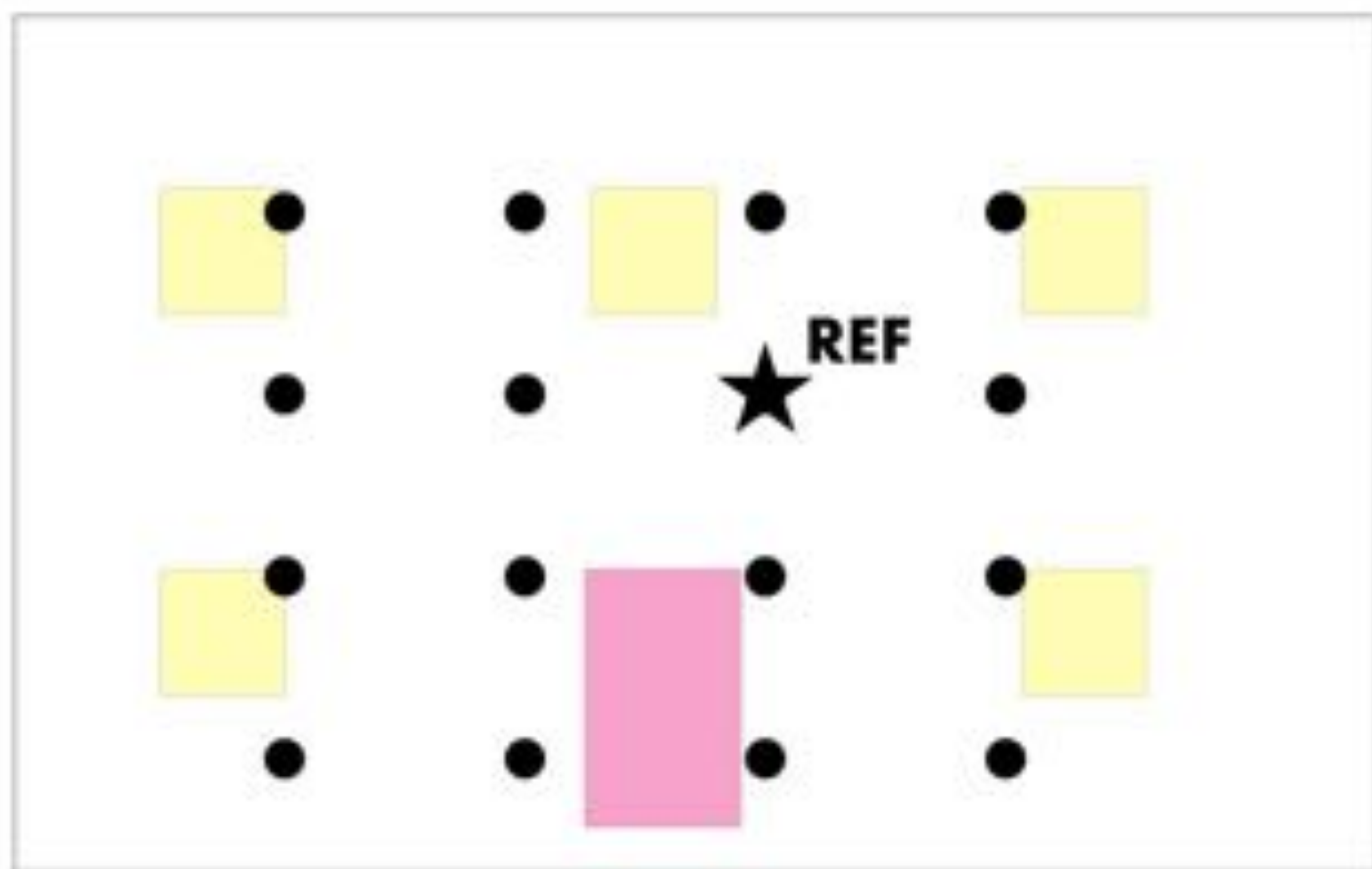
Prototype lab



Calibrating light



The Light Lab



Solutions: dynamic light scenes



Night light



General light



Ambient light



Focus light



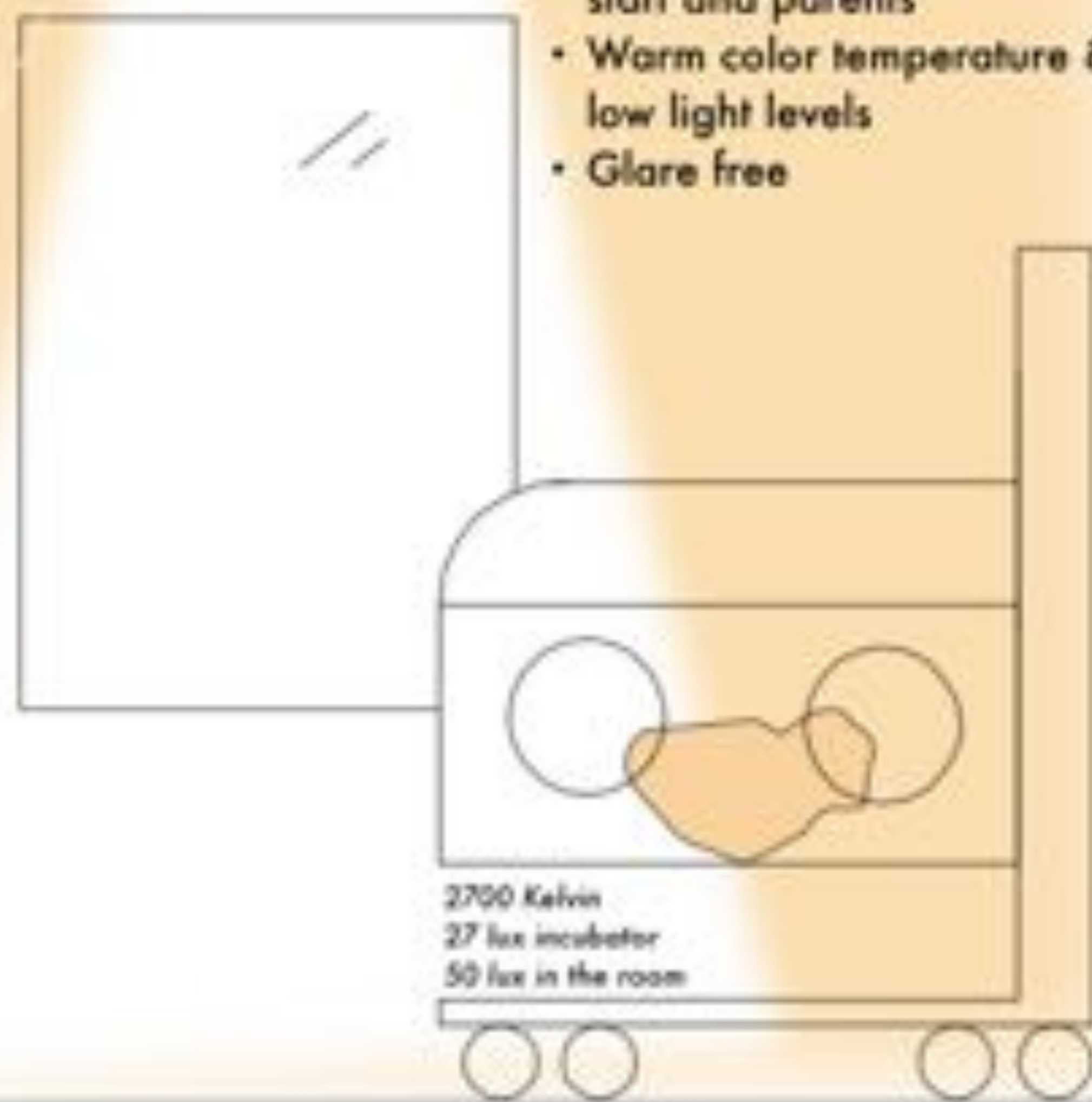
Precision light



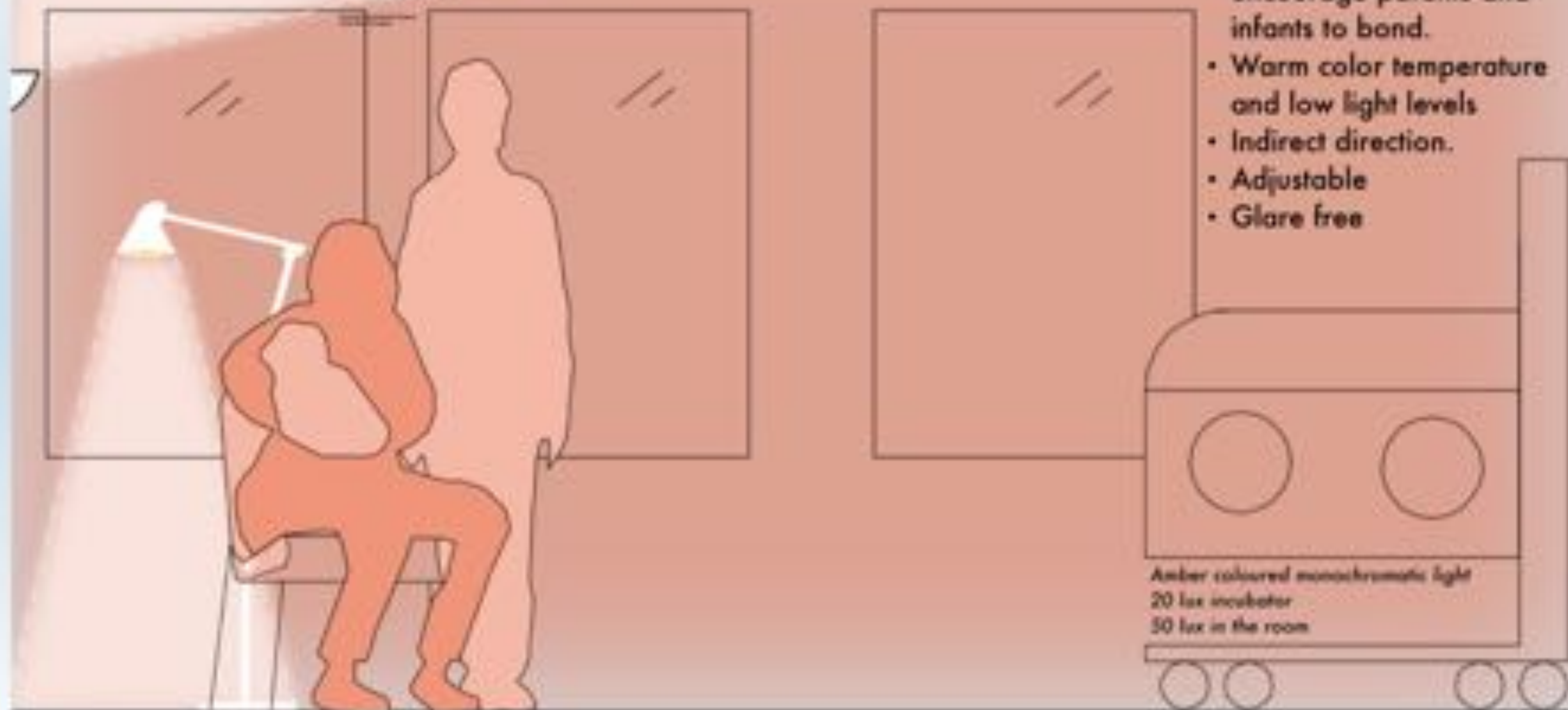
General light



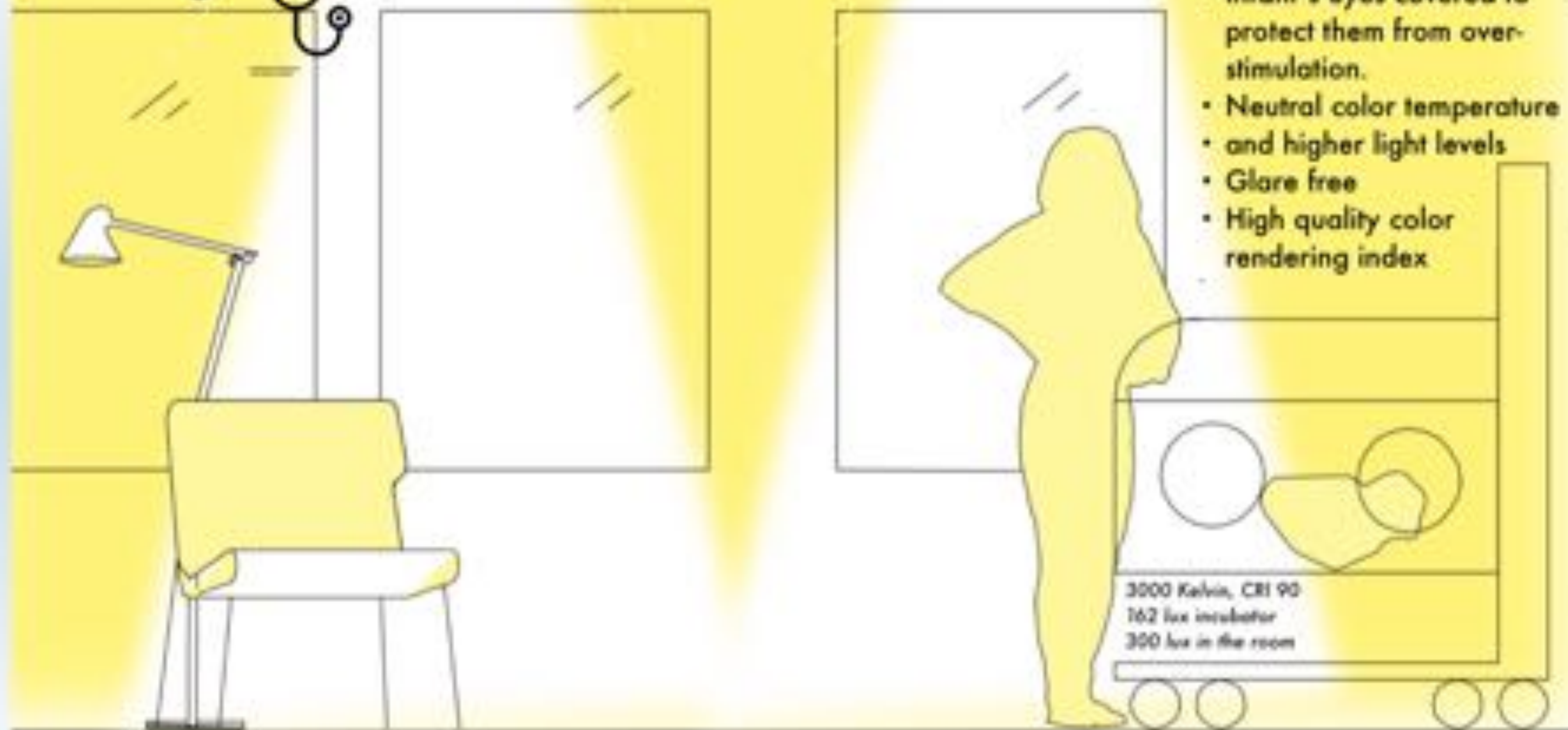
- Protect the infants from harmful light exposure
- As bright as possible for staff and parents
- Warm color temperature & low light levels
- Glare free



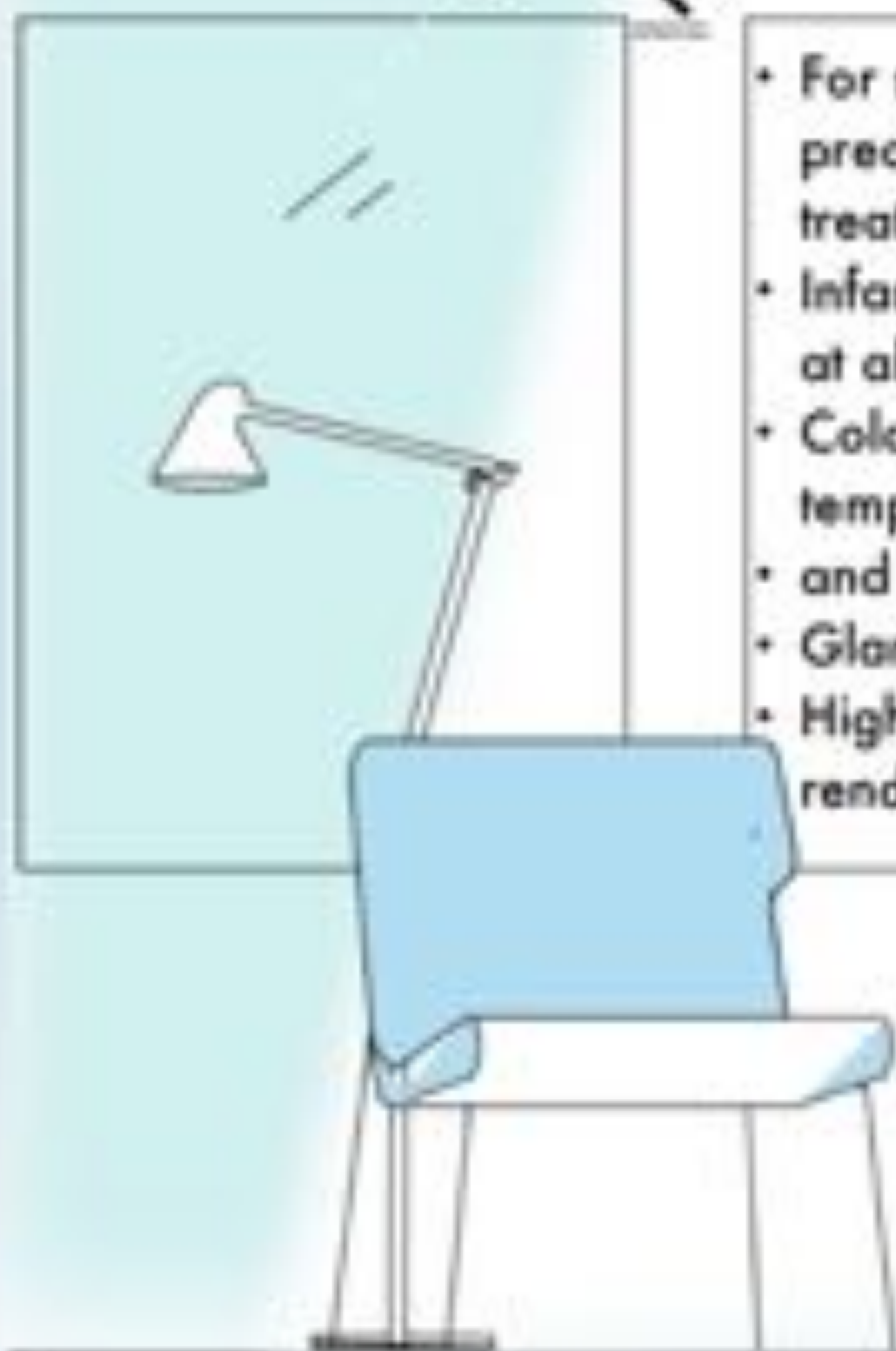
Ambient Light



Focus Light



Precision Light

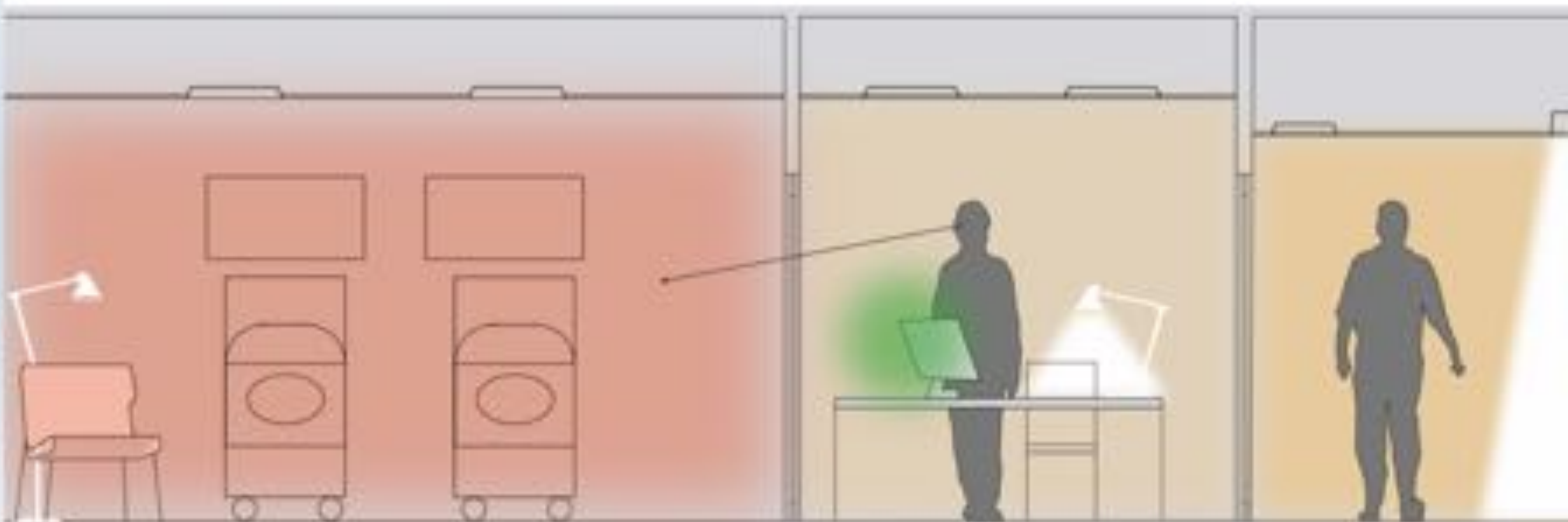


- For staff to perform precision work and treatments.
- Infant's eyes protected at all times.
- Cold white color temperature
- and high light intensity.
- Glare free
- High quality color rendering index

4000 Kelvin, CRI 90
162 lux incubator
500 lux in the room



Night Light



Almost completely dark in the incubators.

2700 Kelvin
2-3 lux incubator
5 lux in the room.



The future of lighting design for neonatal care

Helsingborg Hospital

Want to get in contact?

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