

Metropolis: by LIGHT

Biological Lighting Åsa Moum





Dynamic lighting design for The Neonatal Care Unit at Helsingborg Hospital

Åsa Moum & Moa Pauhlson







Daylight







Digital transformation of healthcare





The Challenge

Parents

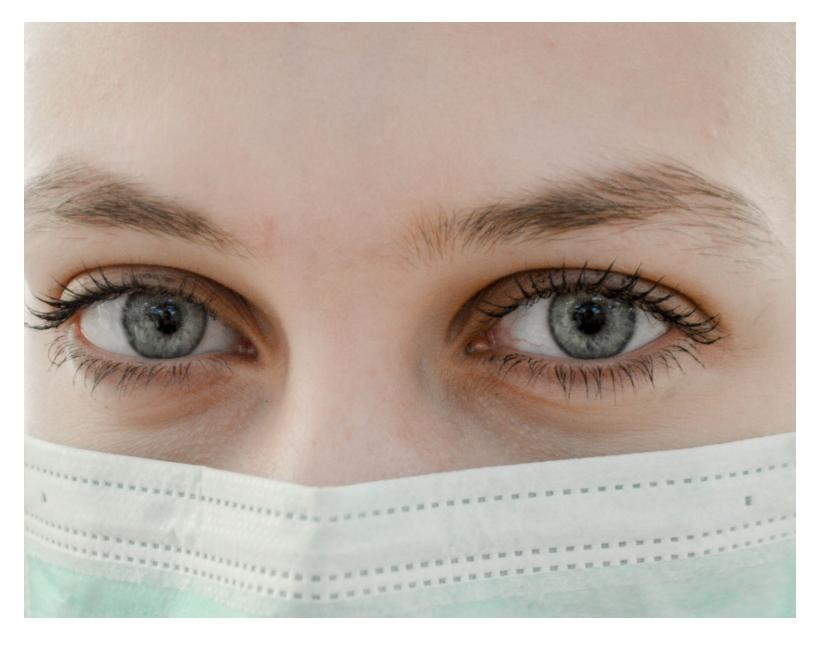




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Premature babies

Staff





Radically different needs of light

Parents



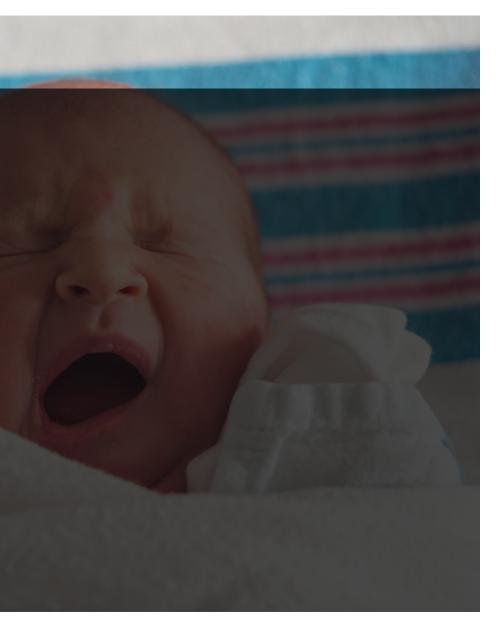


Parents need light, just like staff, to feel healthy.

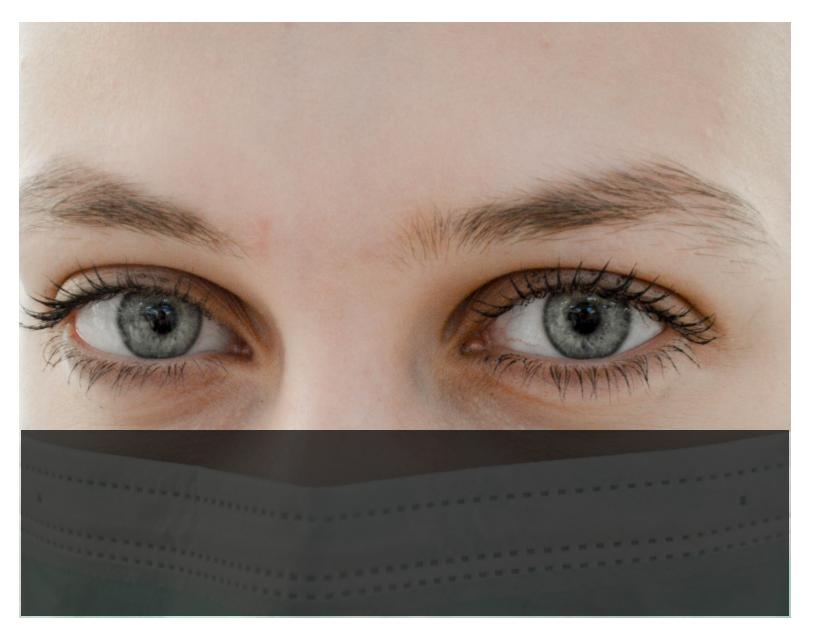
Before W28, premature babies doesn't need any light.

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Premature babies



Staff



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



The Light Lab

Cooperation

Prototype lab

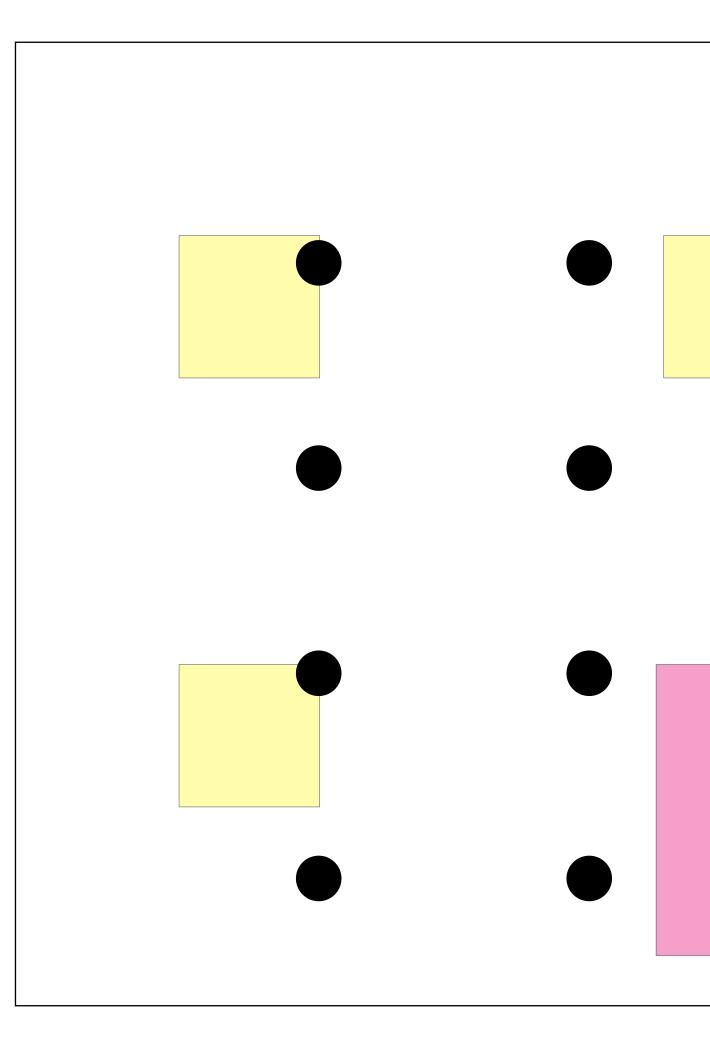


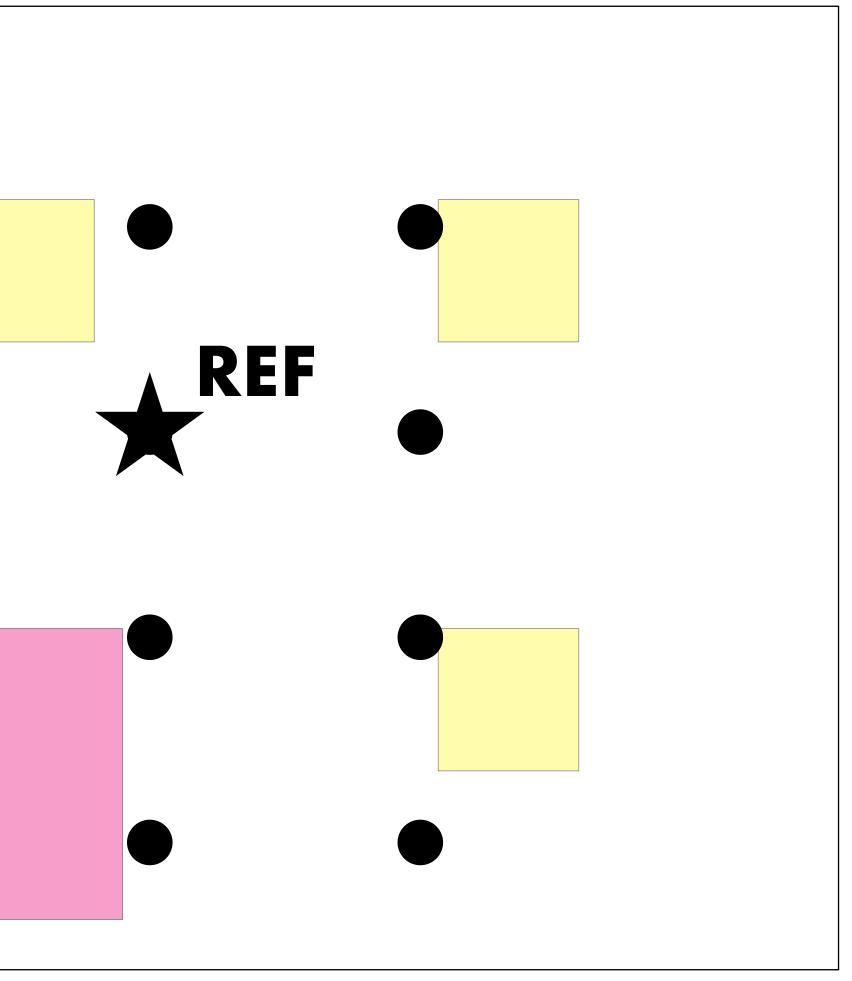
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Calibrating light



The Light Lab







Solutions: dynamic light scenes

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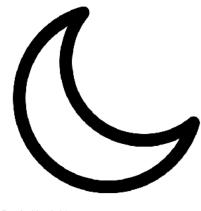
100

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OHS

General light

Night light



Created by Aybige from Noun Project



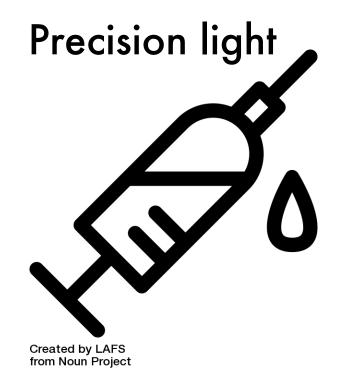
Ambient light



Created by Andrew Doane from Noun Project

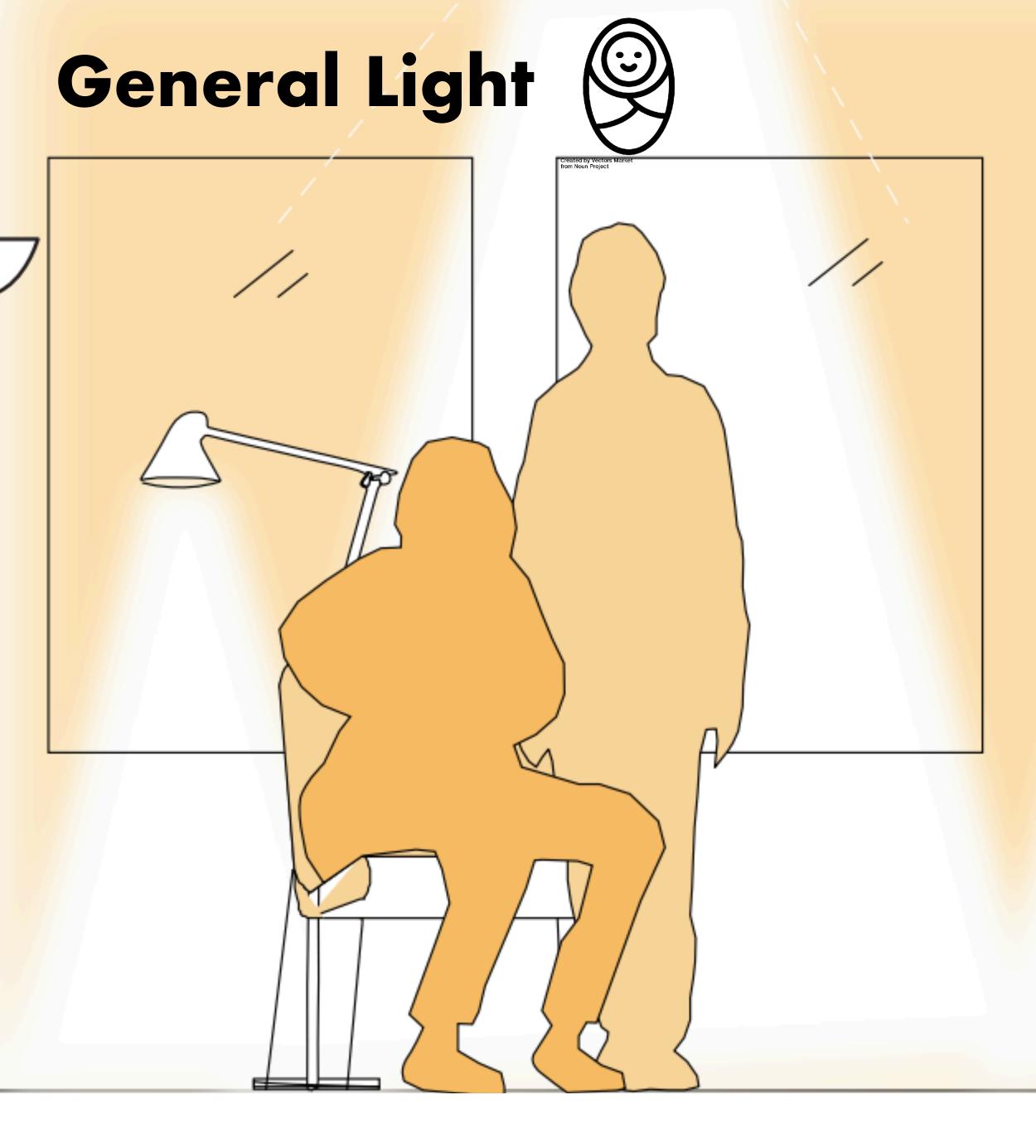


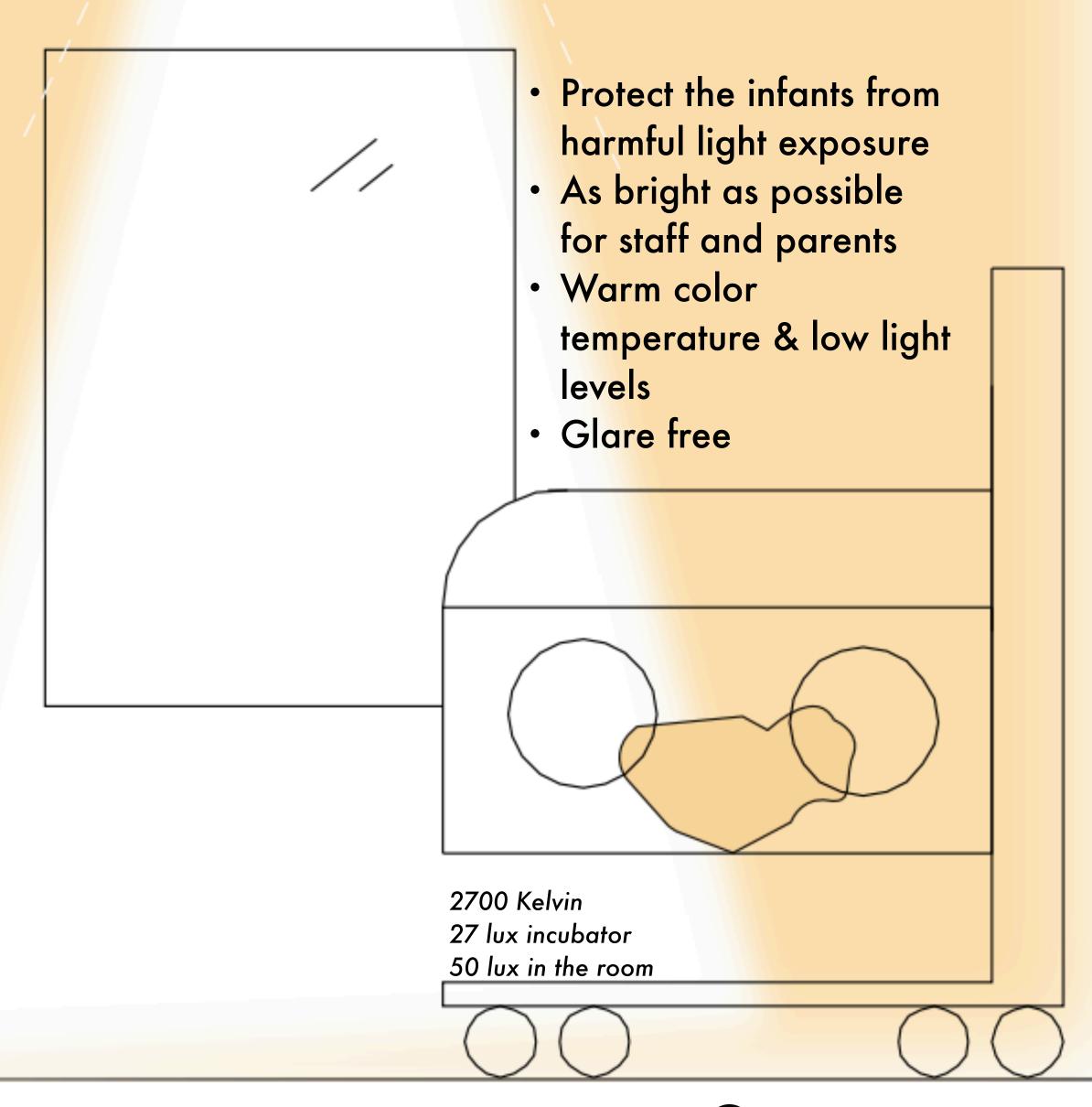
Created by Rockicon from Noun Project





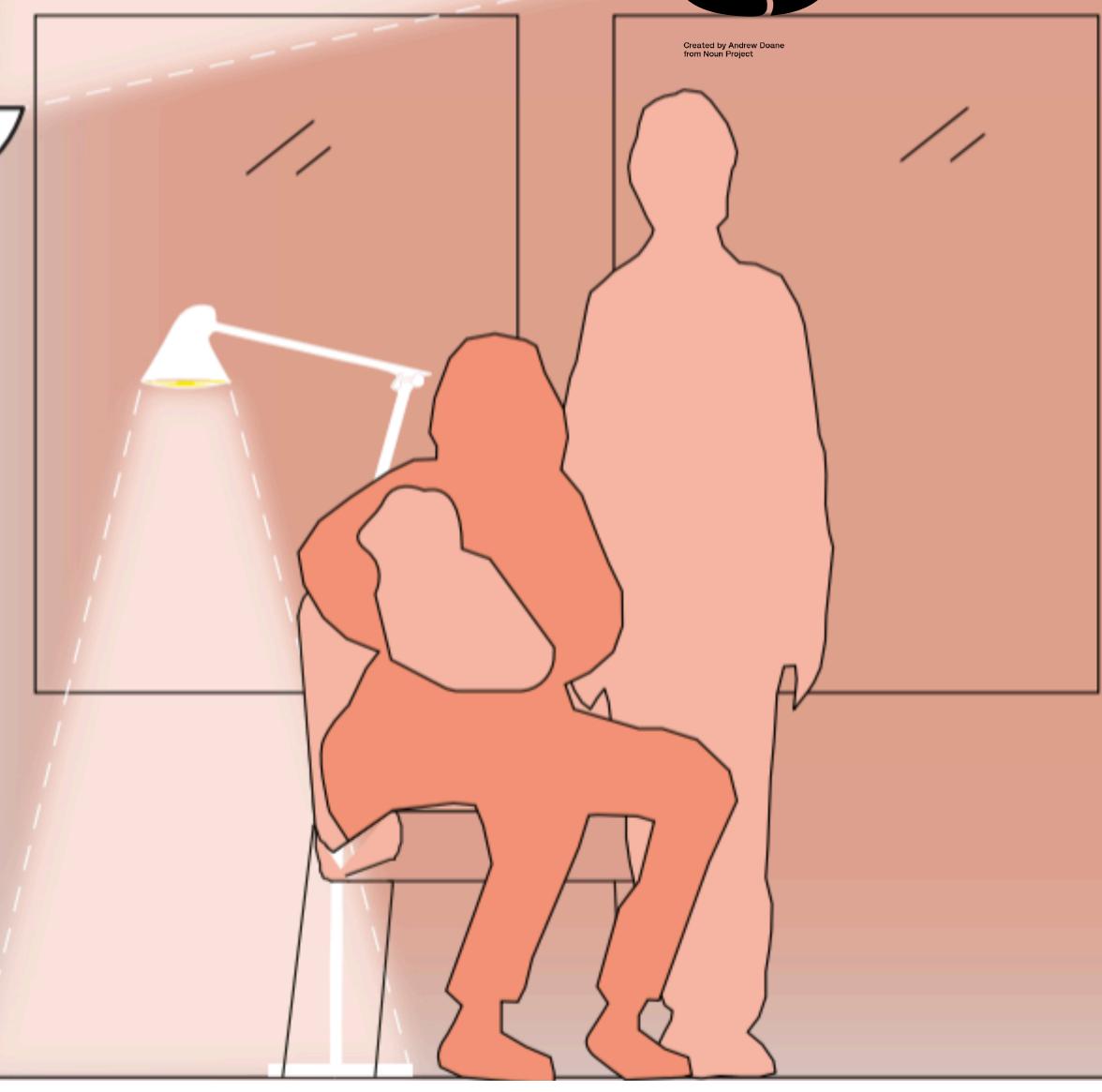




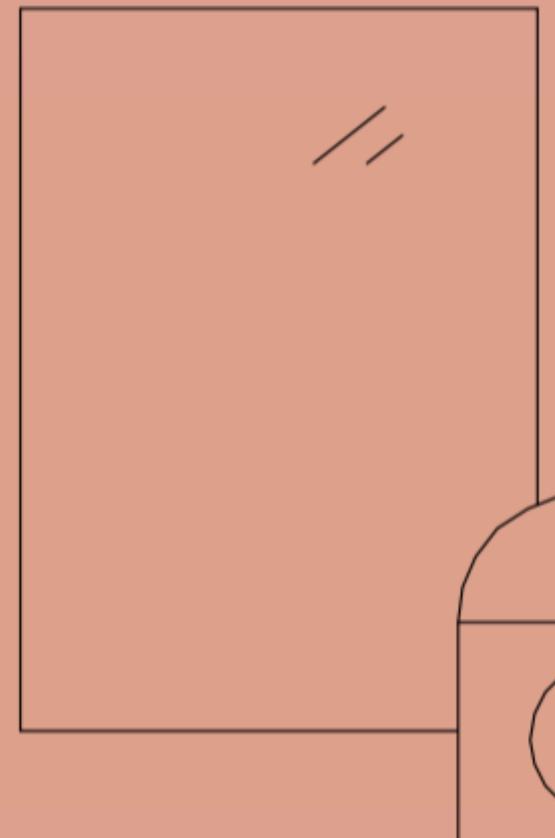




Ambient Light



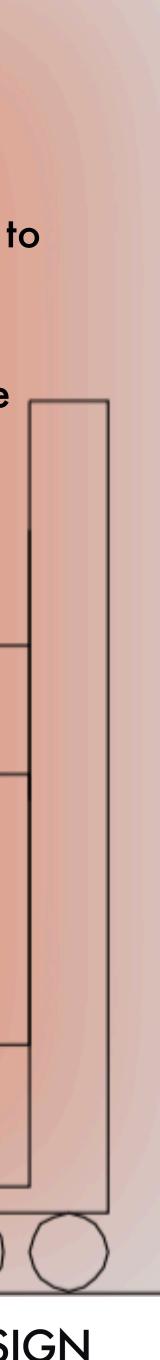
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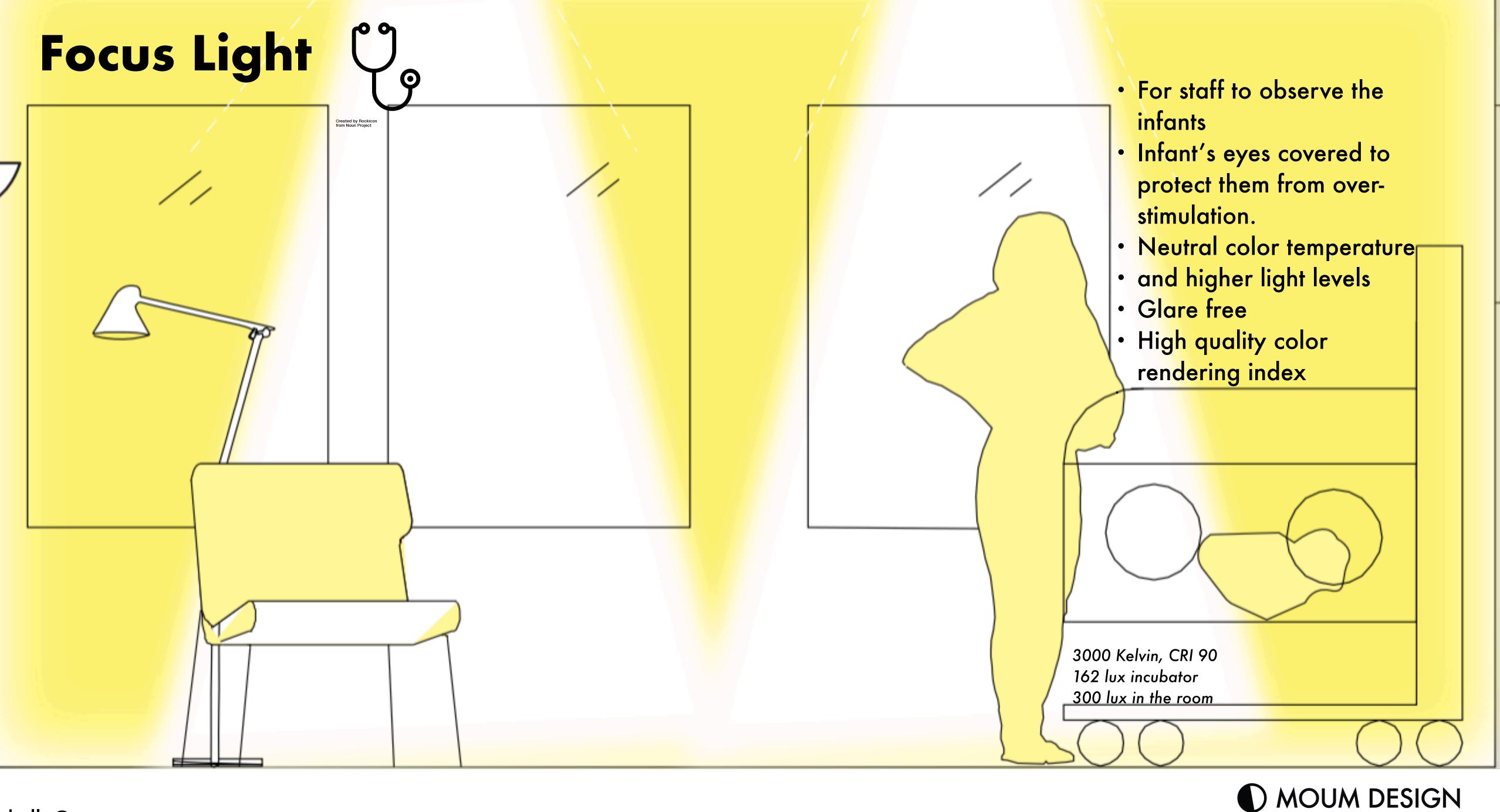


- Create a calming atmosphere in the room to encourage parents and infants to bond.
- Warm color temperature and low light levels
- Indirect direction.
- Adjustable
- Glare free

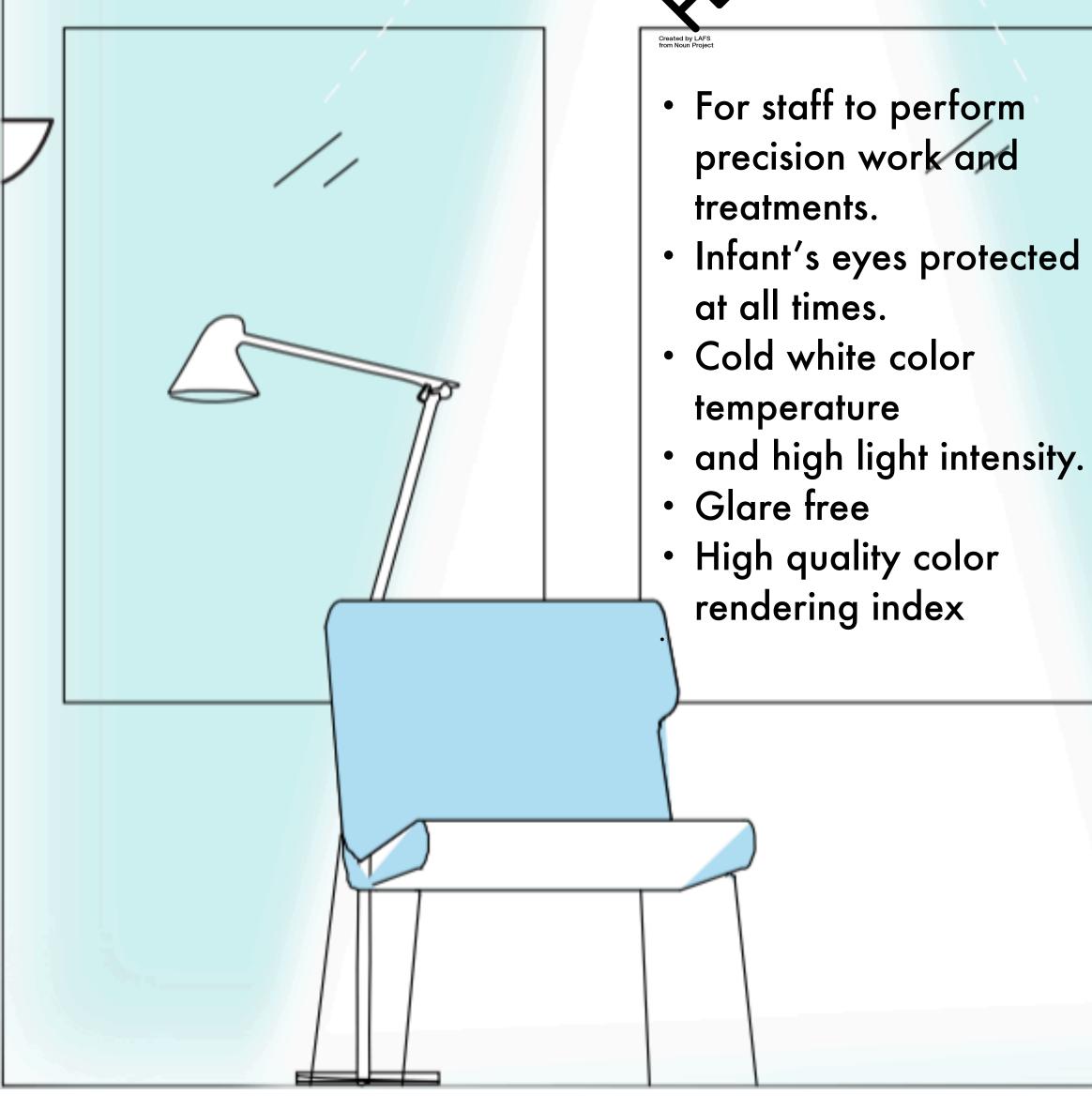
Amber coloured monochromatic light 20 lux incubator 50 lux in the room

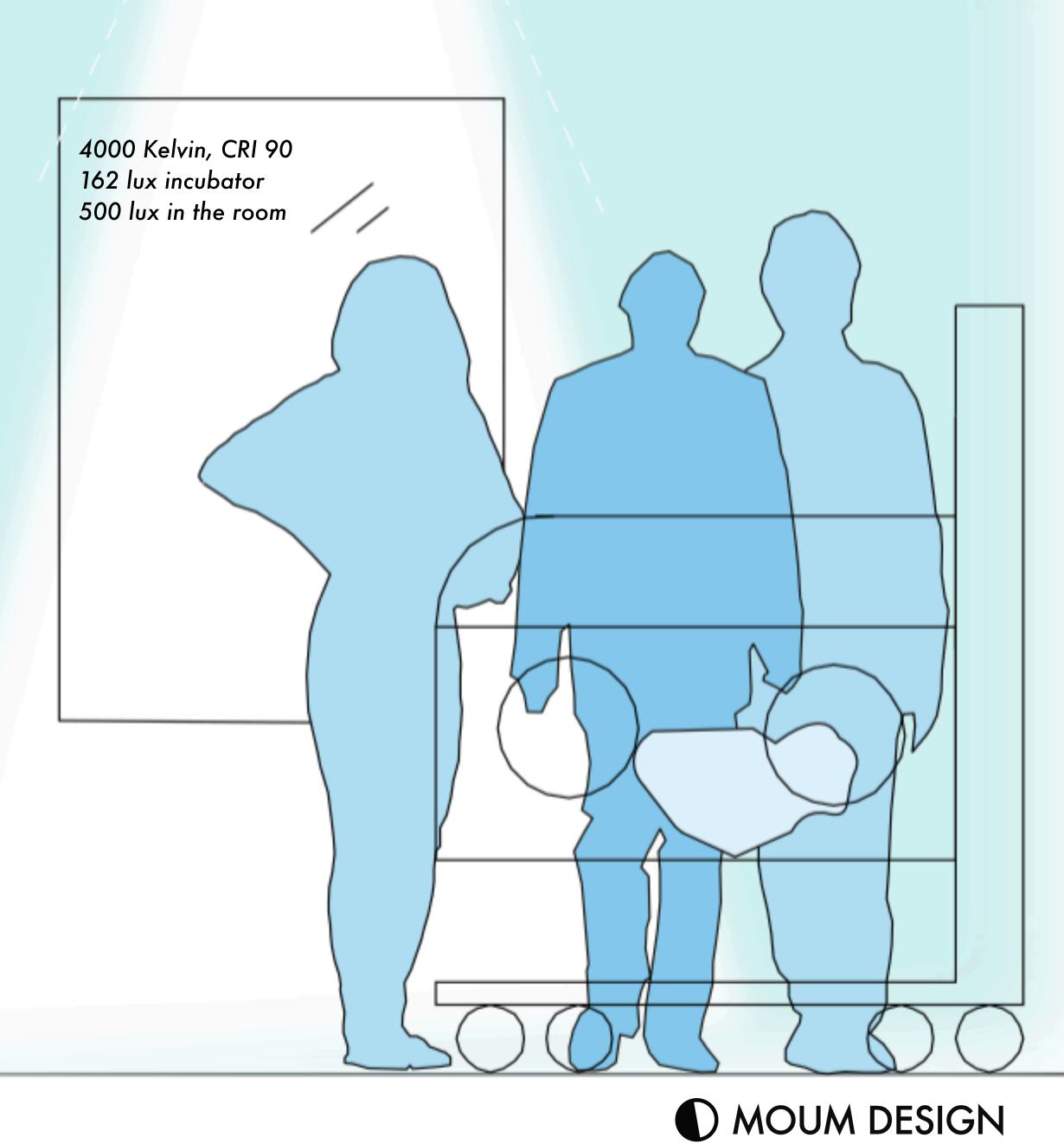


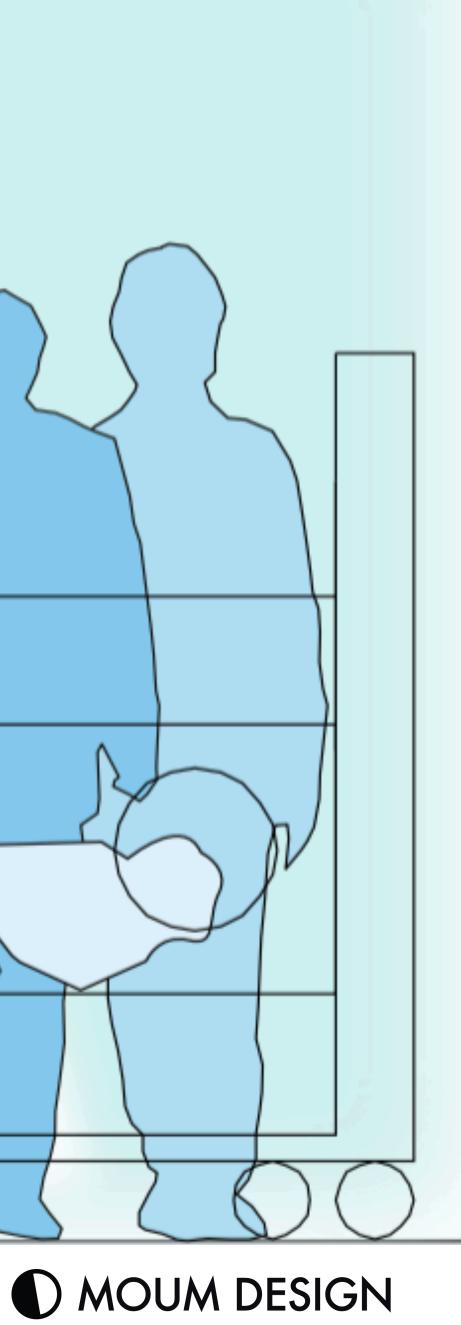




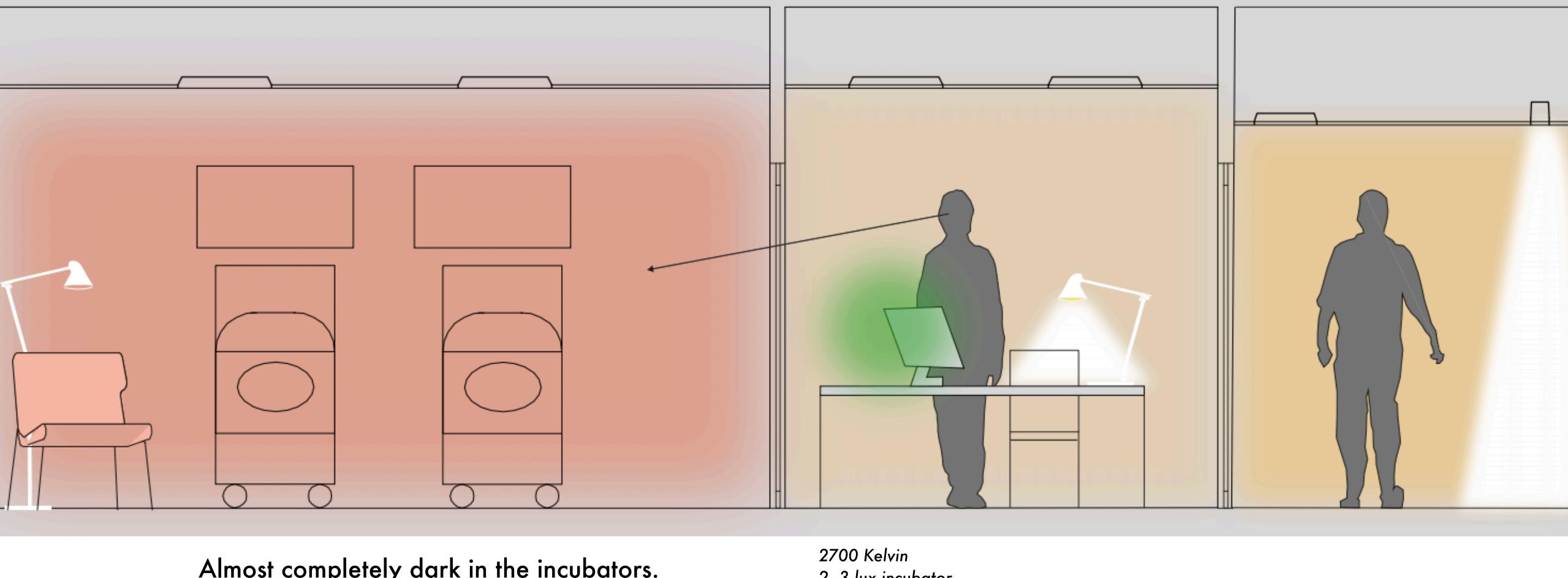
Precision Light







Night Light Created by Aybige from Noun Project



Almost completely dark in the incubators.

2–3 lux incubator 5 lux in the room



Dynamic Light Scenes





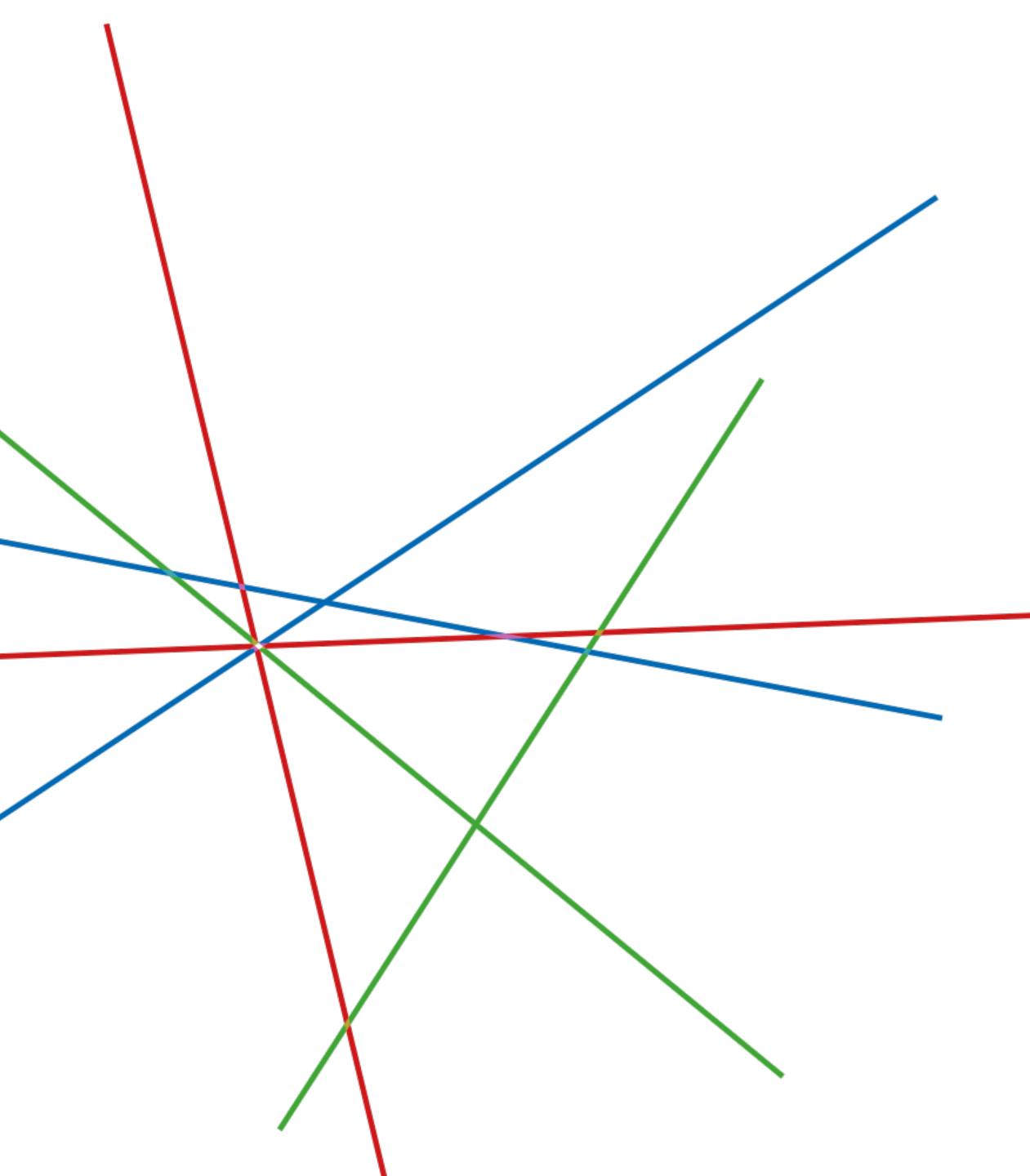
Key takeaways

Work even closer to have dreamed of Iterate the design w Simplify and with the us

- Work even closer to your users than you would have dreamed of in the design process,
- Iterate the design with the users multiple times,
 - Simplify and automate together with the users to create trust.







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Thanks from Åsa Moum +46708275078 hello@moum.co

