



Suhe Centre

DAYLIGHTING AND ELECTRIC LIGHTING REPORT

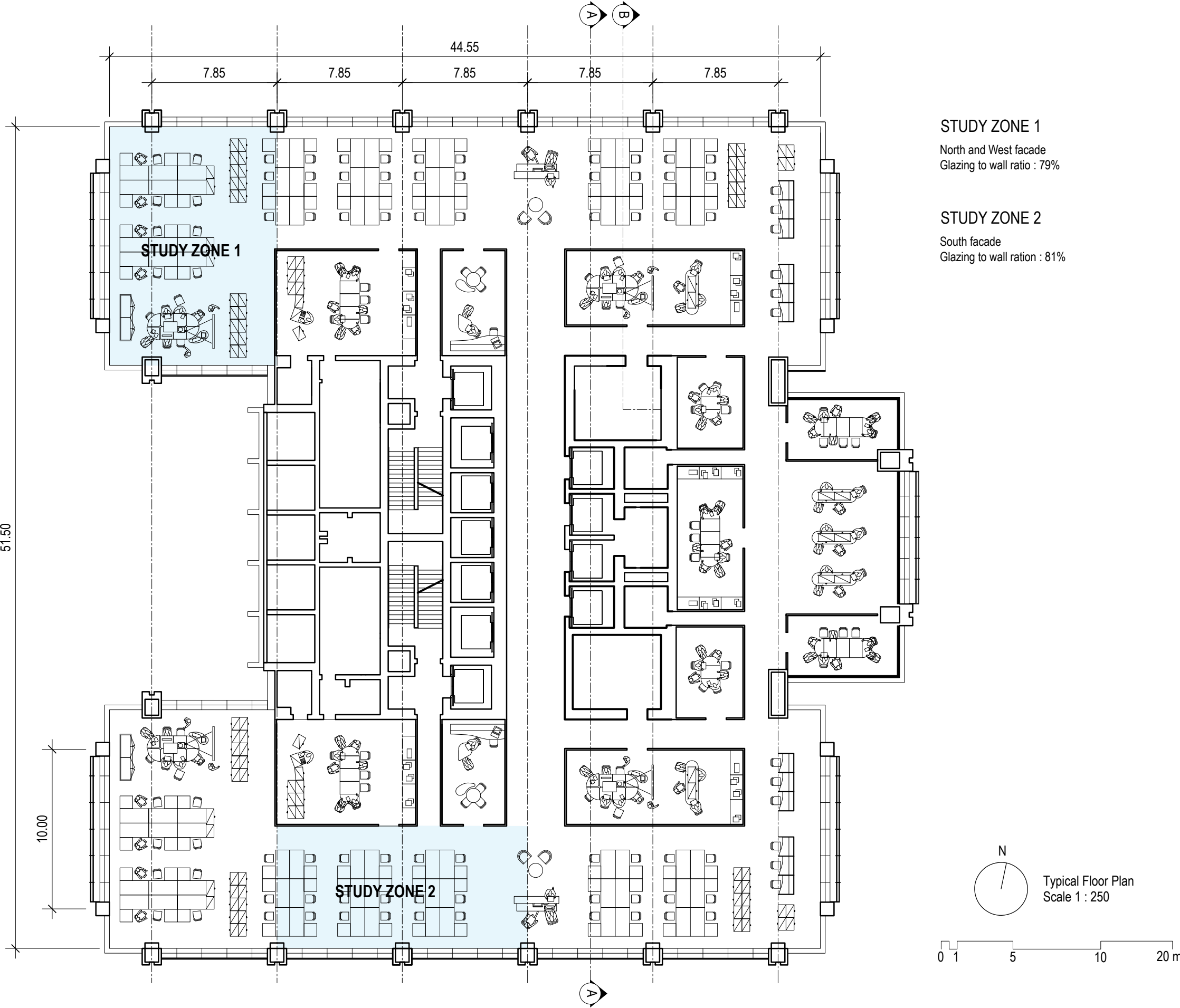


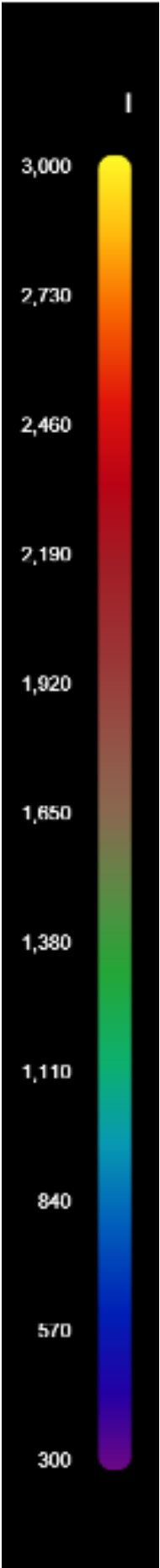
Bangkok Site
Lumphini, Pathumwan, Bangkok

Urban Plan
Scale 1 : 2500

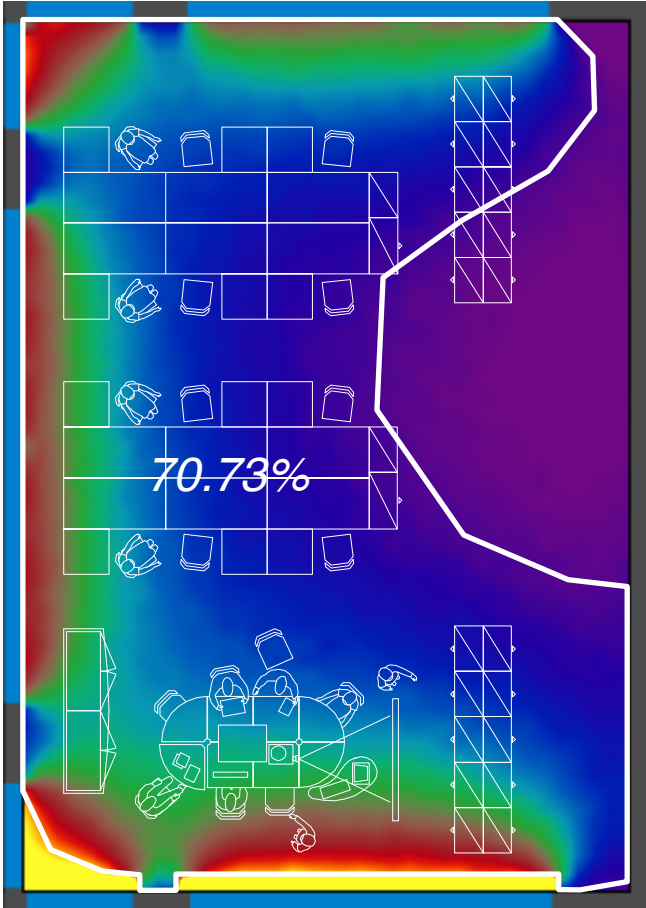
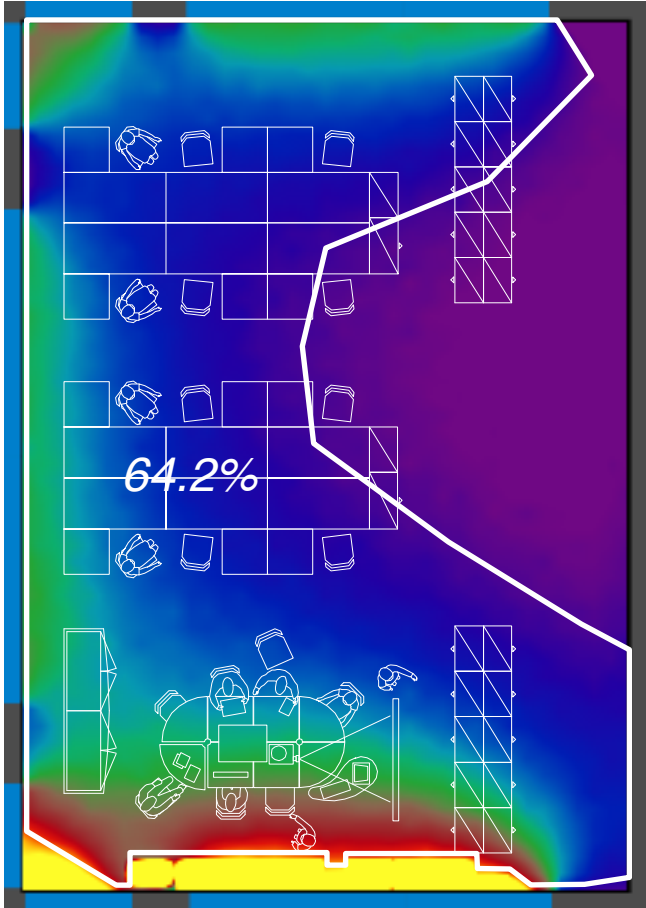


- 1 Central World
- 2 Intercontinental Bangkok
- 3 Gaysorn Amarin
- 4 Mater Dei School
- 5 Central Chidlom



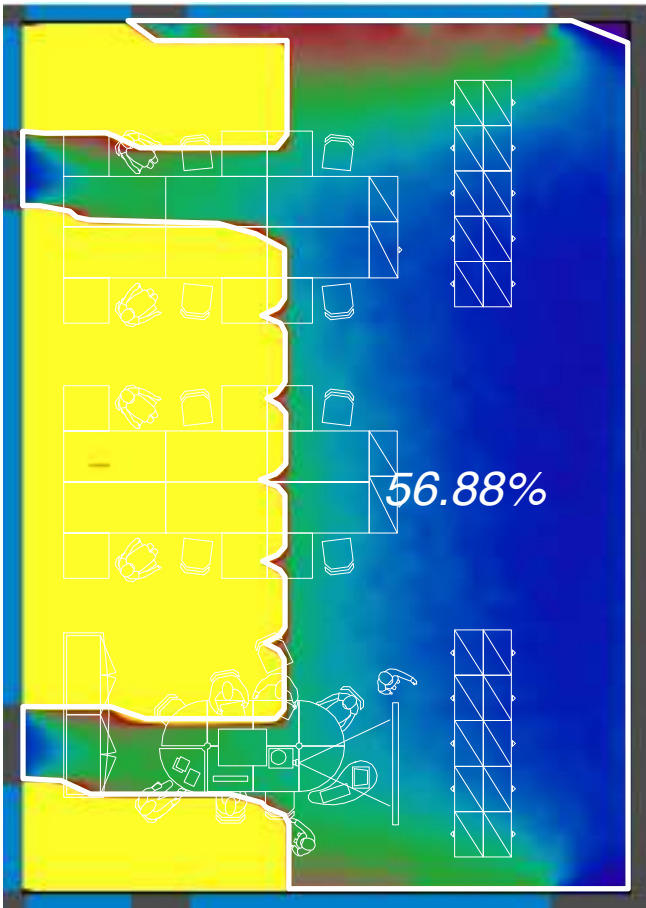
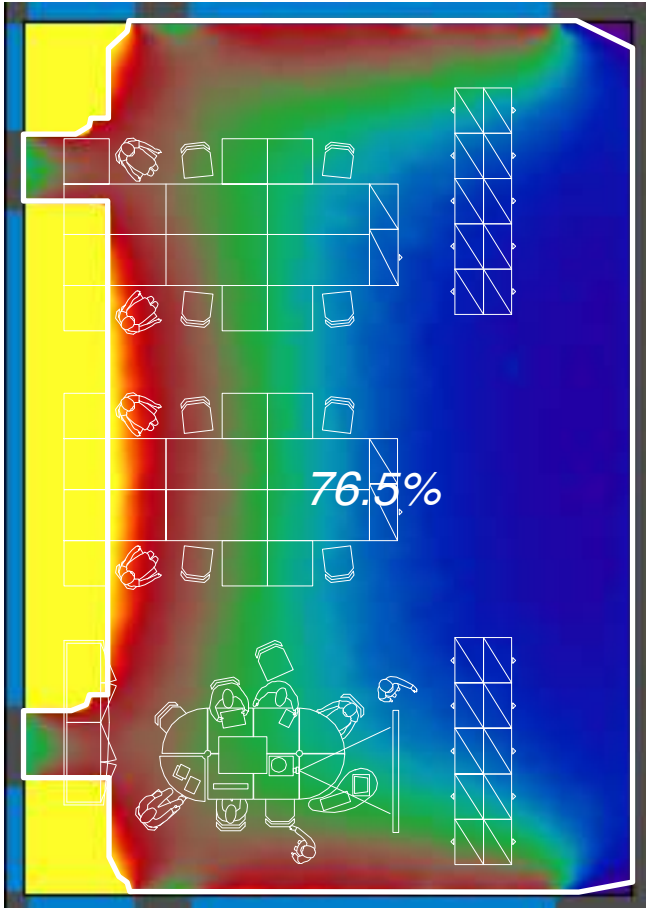


9.00 a.m.



12.00 a.m.

15.00 p.m.



17.00 p.m.

STUDY ZONE 1 DAYLIGHT ACCESS

Date : 21 March
Sky Condition : Sunny
Overhang : -
Window Sizes : W 9000 mm x H 3500 mm / W 1900 mm x H 3500 mm / W 6500 mm x H 3500 mm

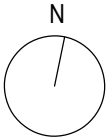
Surface Materials Reflectance

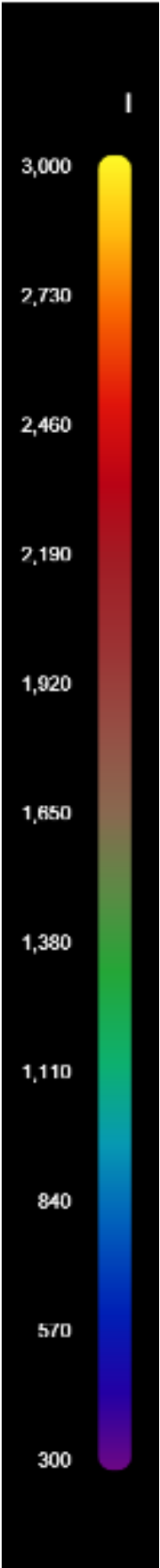
Exterior Ground : Reflectance 0.099
Floor : Reflectance 0.656
Ceiling : Reflectance 0.400
Wall : Reflectance 0.400

Glass Surface Transmittance : 0.510

Concern

Although over 50% of the floor area consistently receives illuminance levels between 300–3000 lux throughout most of the day, the light distribution remains uneven, resulting in areas of excessive brightness near openings and darker zones deeper within the space.

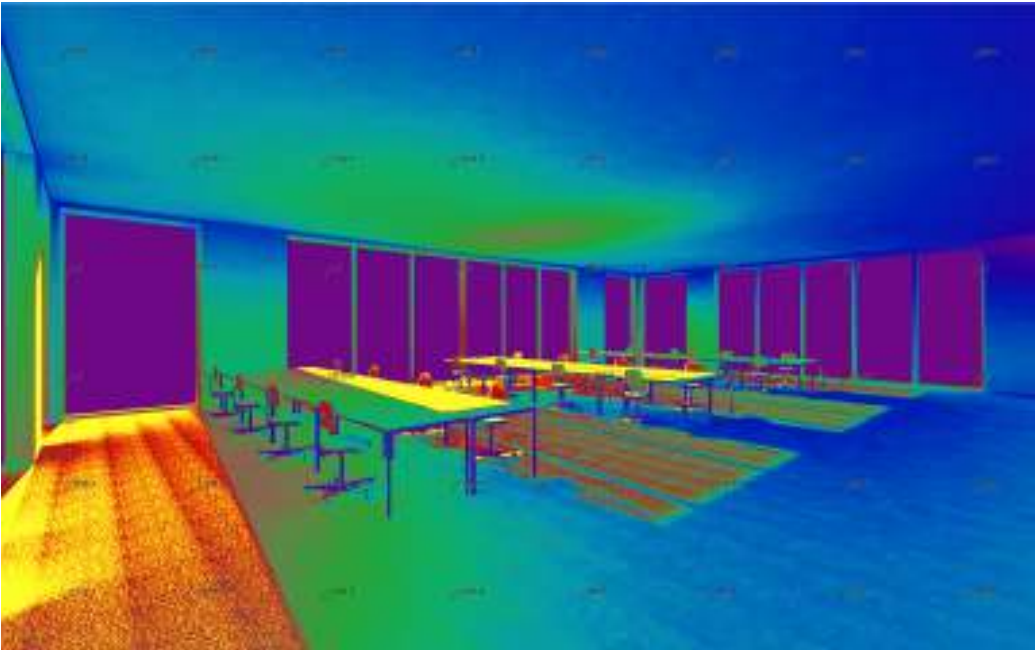
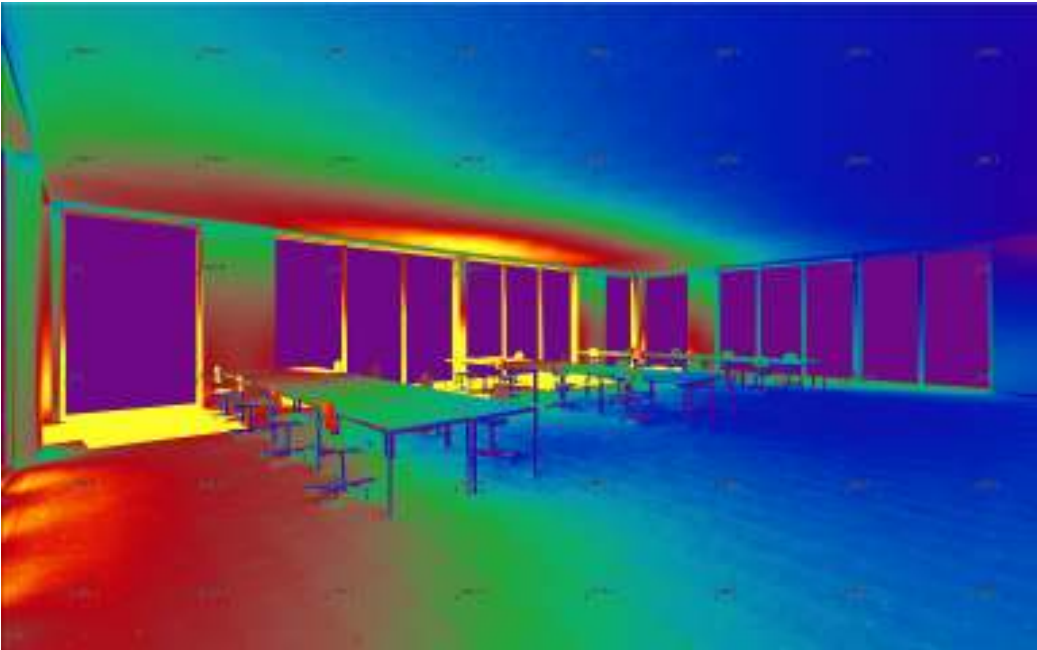
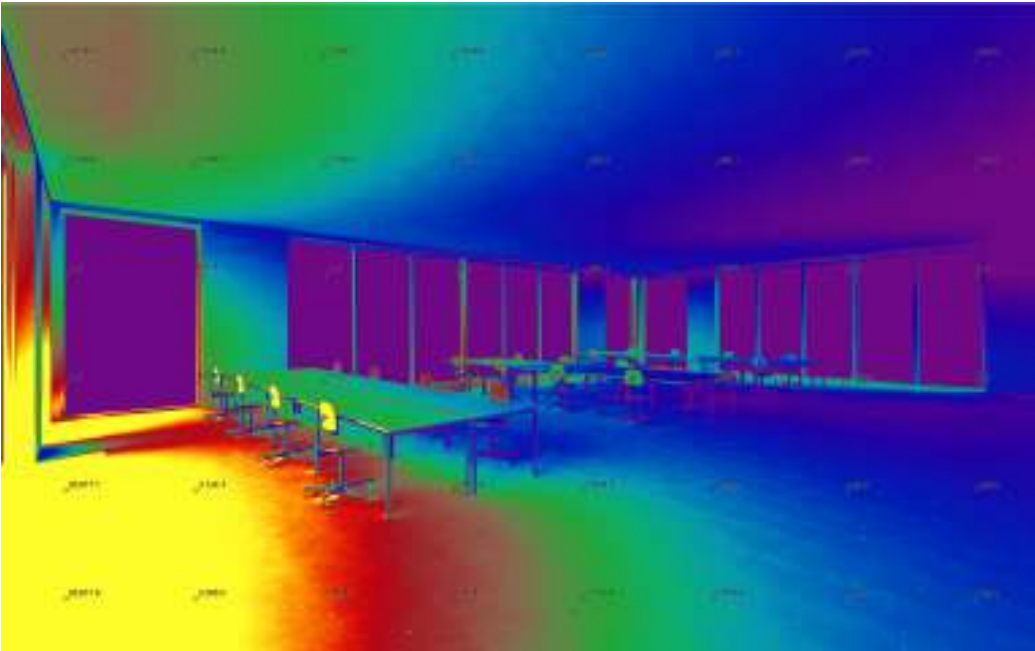
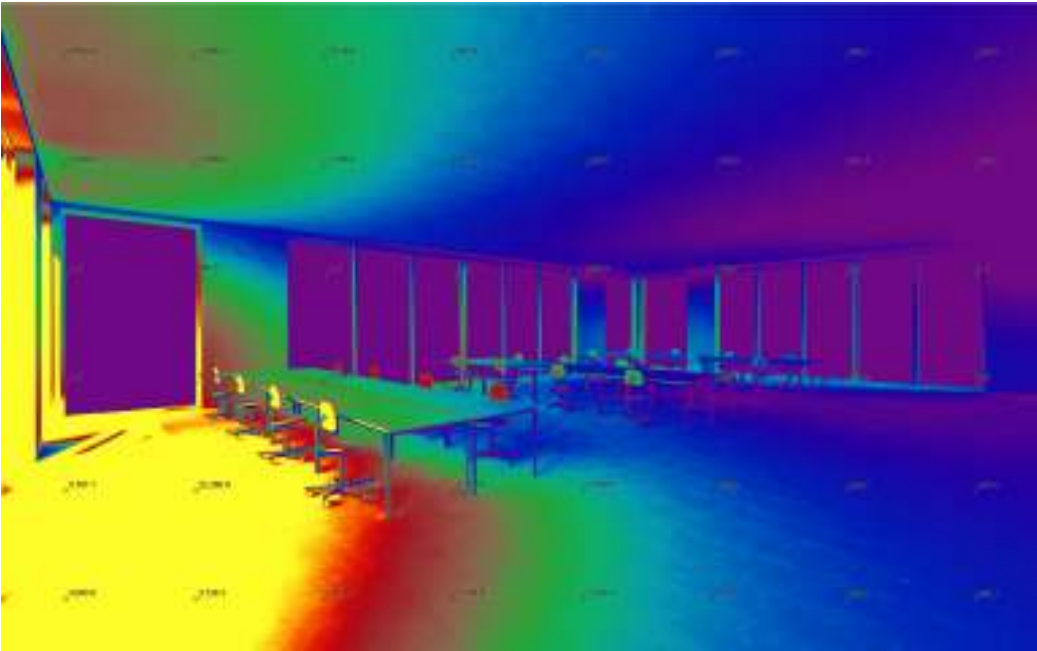




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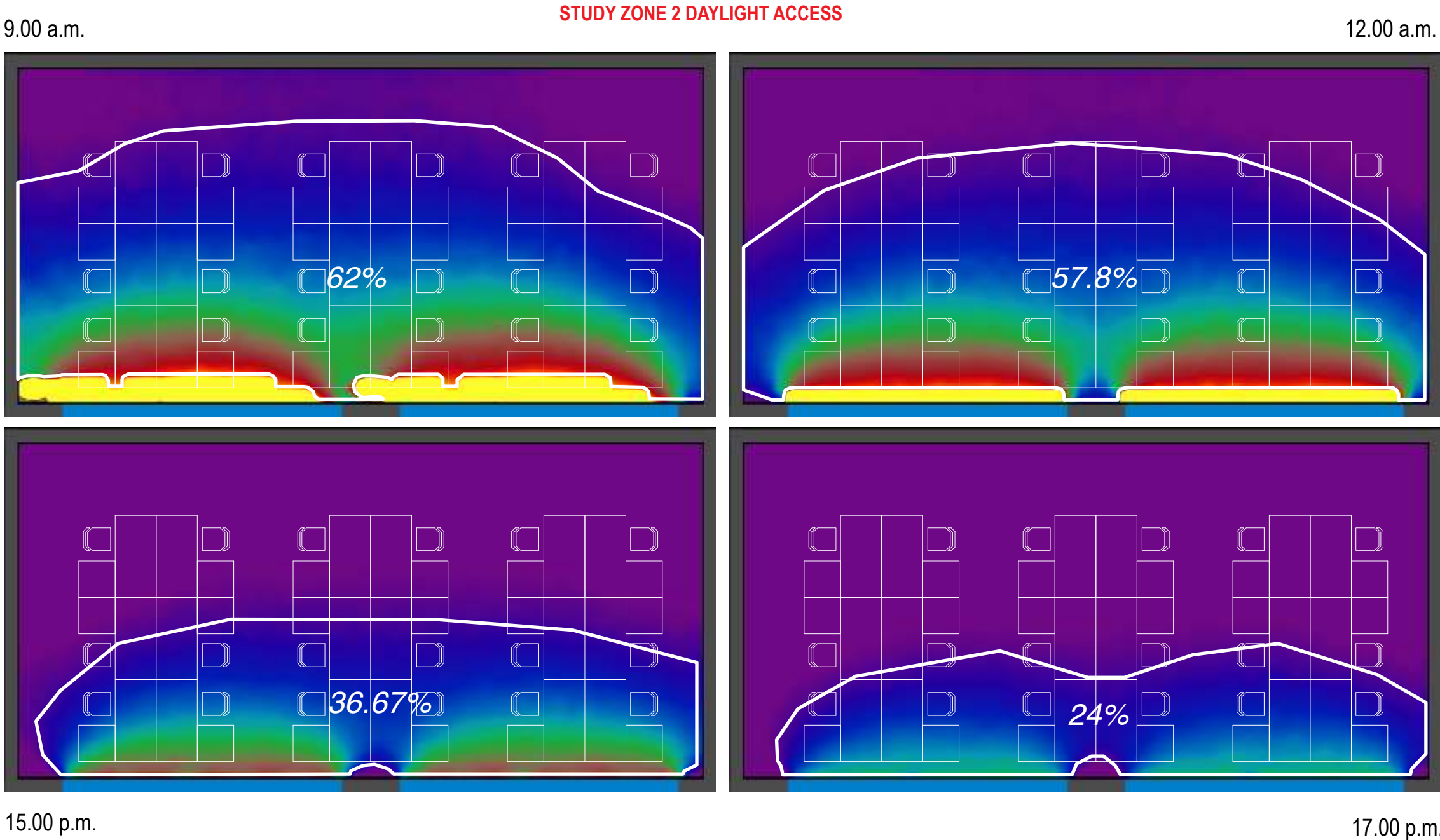
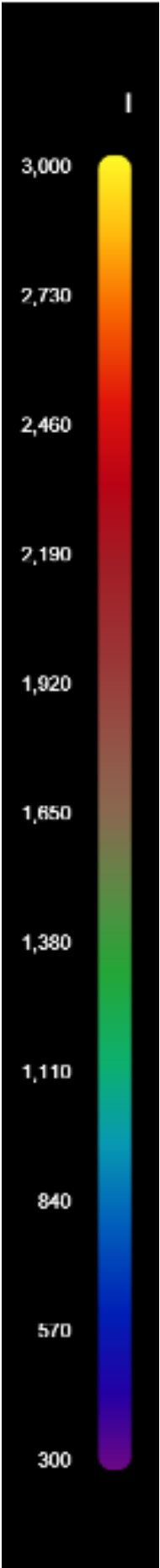
STUDY ZONE 1 DAYLIGHT ACCESS

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15.00 p.m.

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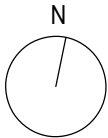


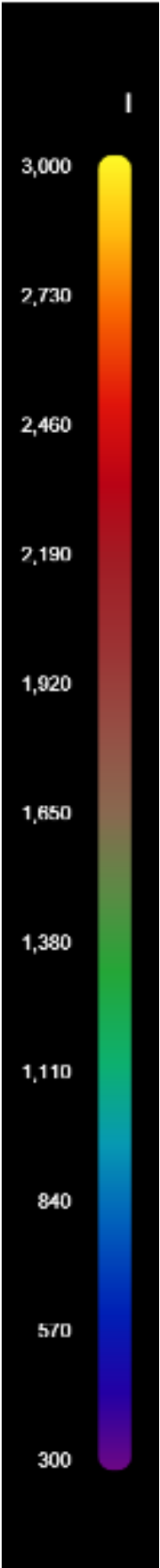
Date : 21 March
Sky Condition : Sunny
Overhang : -
Window Sizes : W 6500 mm x H 3500 mm

Surface Materials Reflectance
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Although over 50% of the floor area consistently receives illuminance levels between 300–3000 lux throughout most of the day, the light distribution remains uneven, resulting in areas of excessive brightness near openings and darker zones deeper within the space.

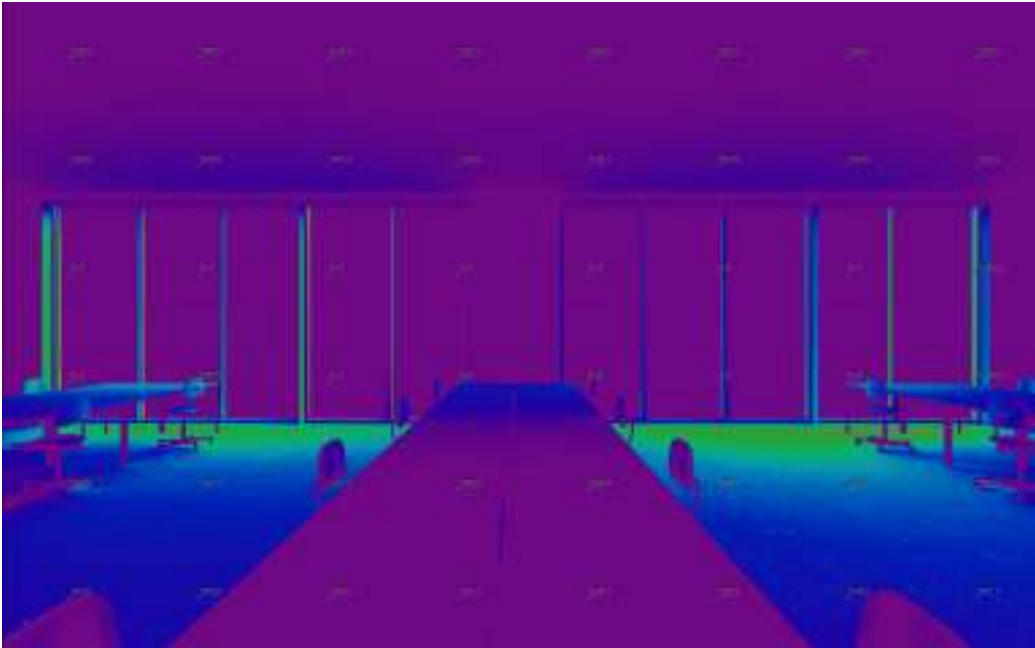
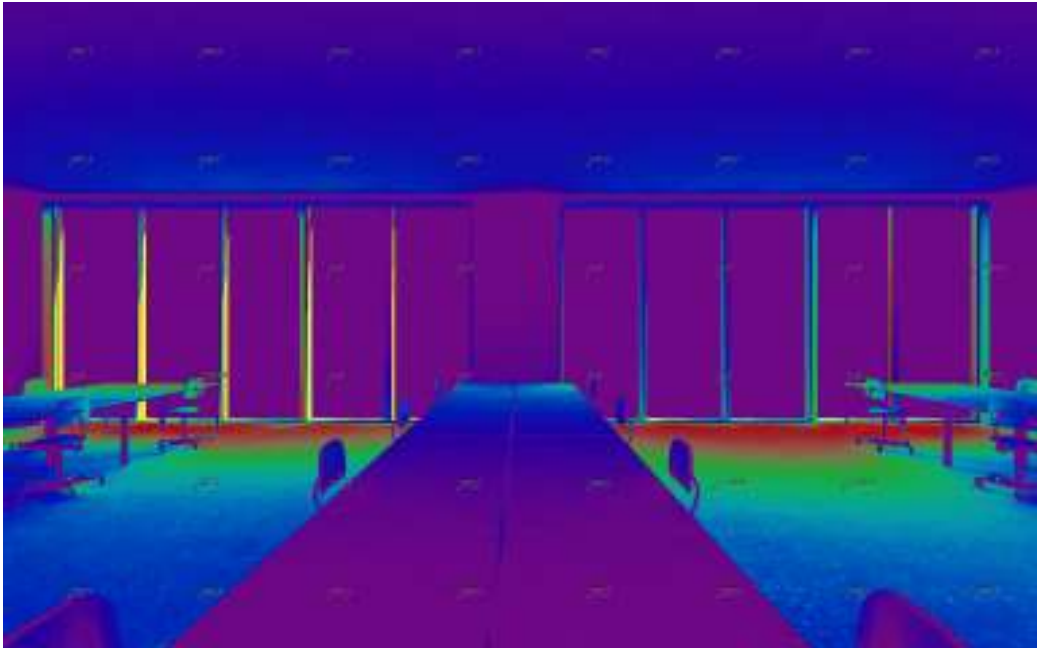
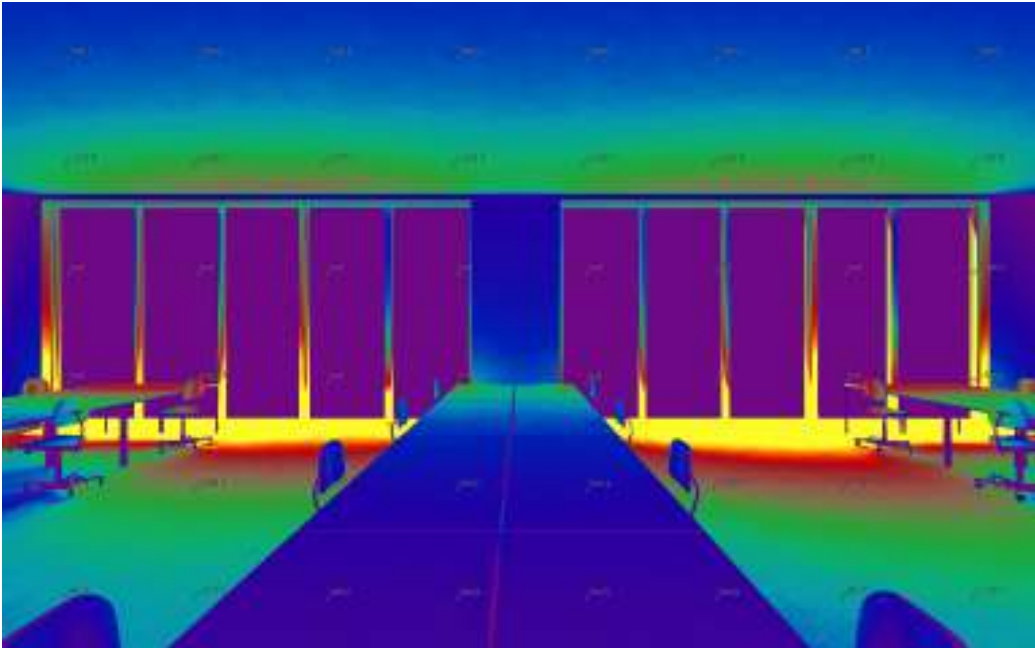
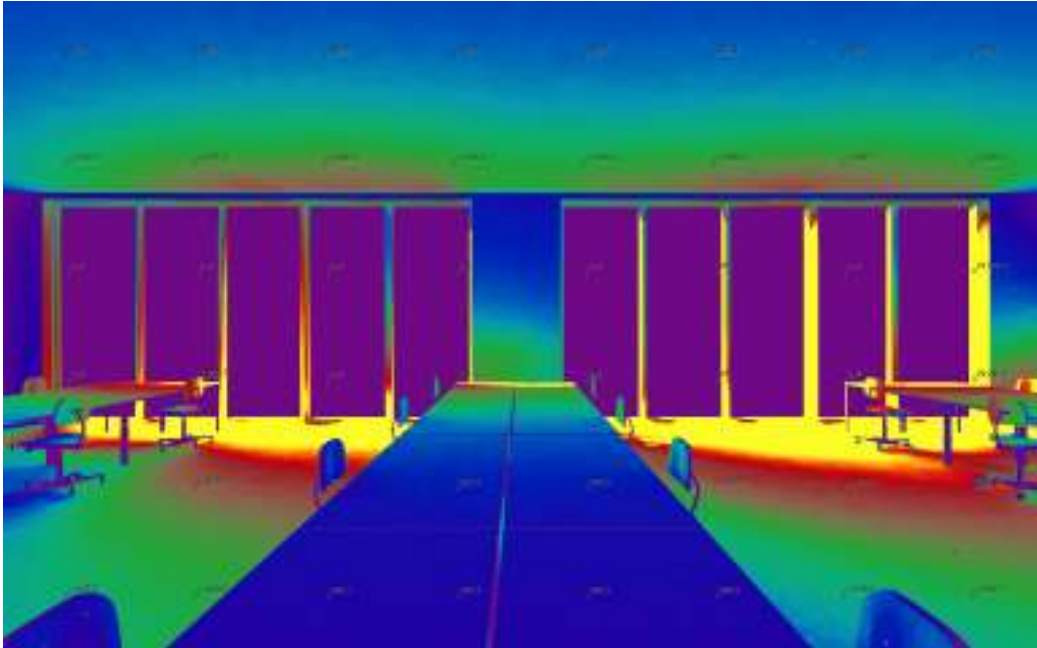




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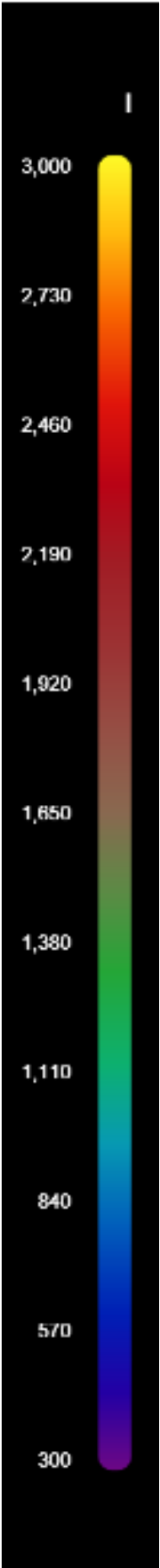
STUDY ZONE 2 DAYLIGHT ACCESS

12.00 a.m.

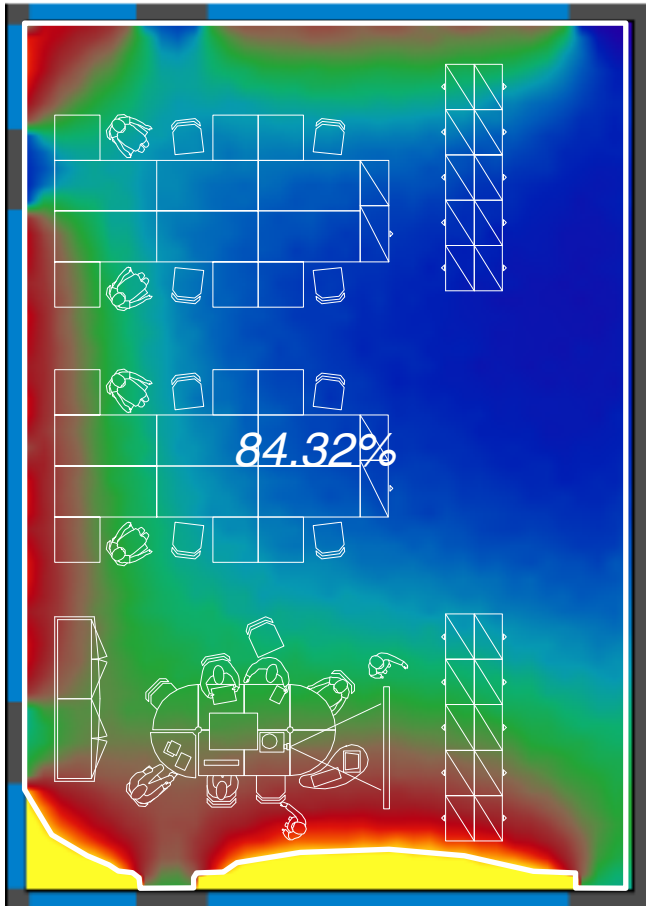
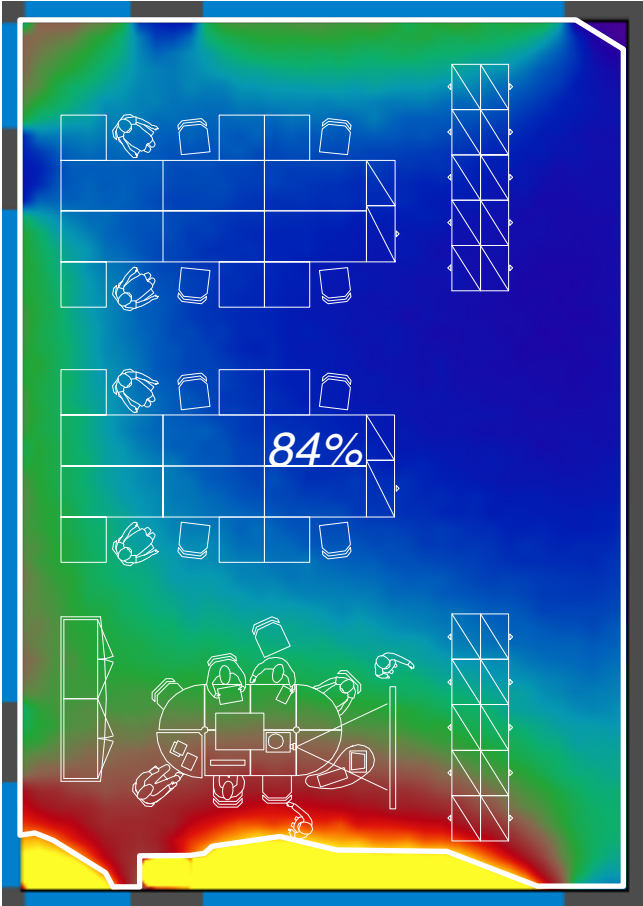


15.00 p.m.

17.00 p.m.

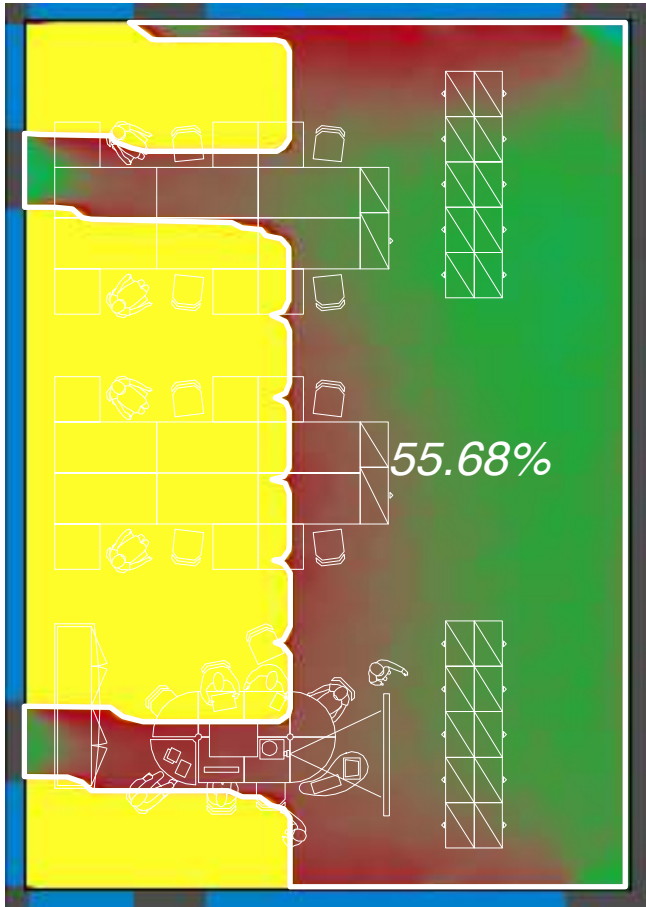
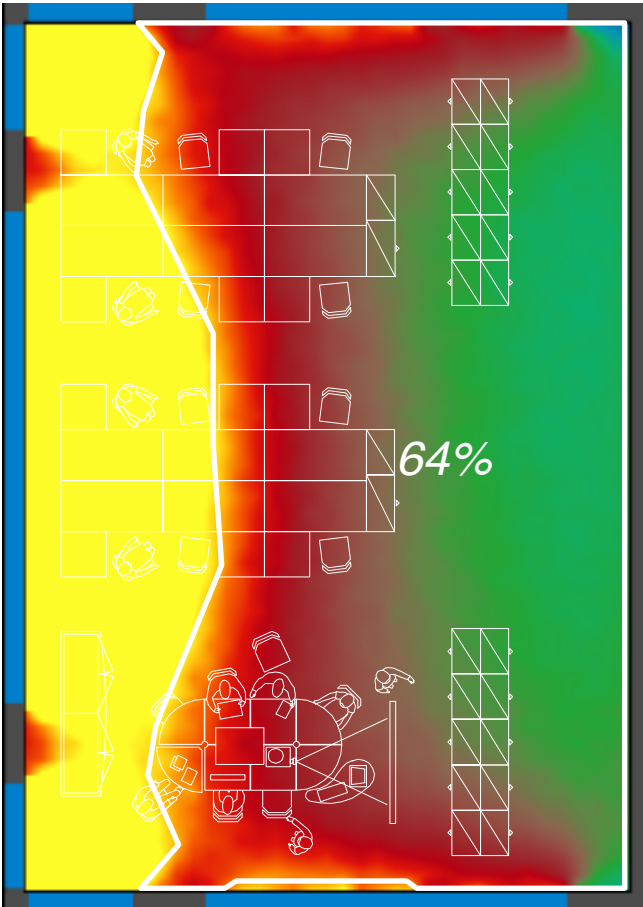


9.00 a.m.



12.00 a.m.

15.00 p.m.



17.00 p.m.

STUDY ZONE 1 DAYLIGHT ACCESS

Date : 21 March
Sky Condition : Sunny
Overhang : 1000 mm
Window Sizes : W 9000 mm x H 3500 mm / W 1900 mm x H 3500 mm / W 6500 mm x H 3500 mm

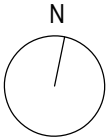
Surface Materials Reflectance

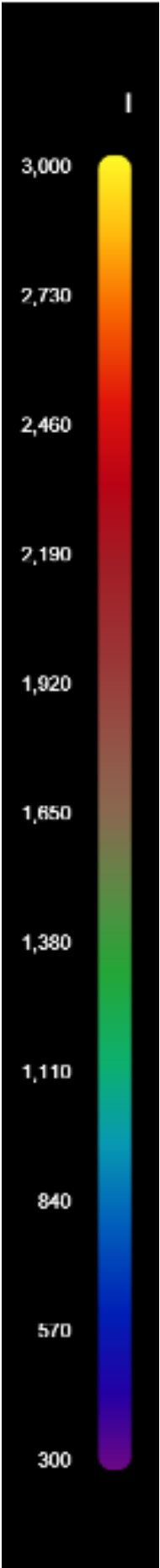
Exterior Ground : Reflectance 0.099
Floor : Reflectance 0.842
Ceiling : Reflectance 0.600
Wall : Reflectance 0.600

Glass Surface Transmittance : 0.510

Improvement

Adding an overhang above the windows helps reduce areas of strong solar exposure. Additionally, changing the surface material to one with a higher reflectance rate improves light reflection deeper into the space, resulting in more even light distribution throughout the floor area.

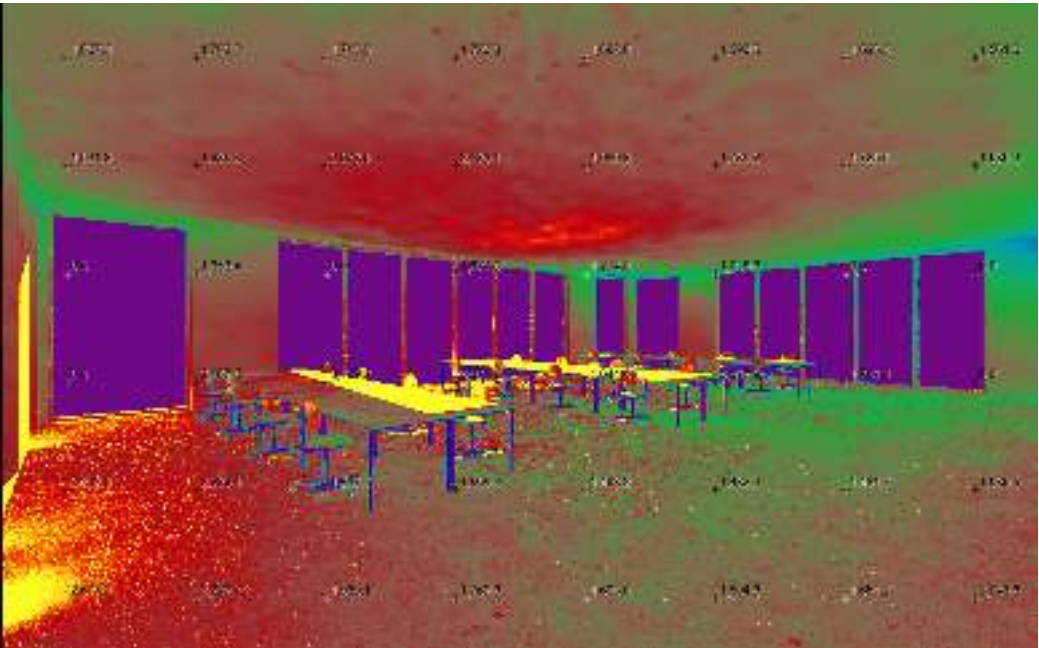
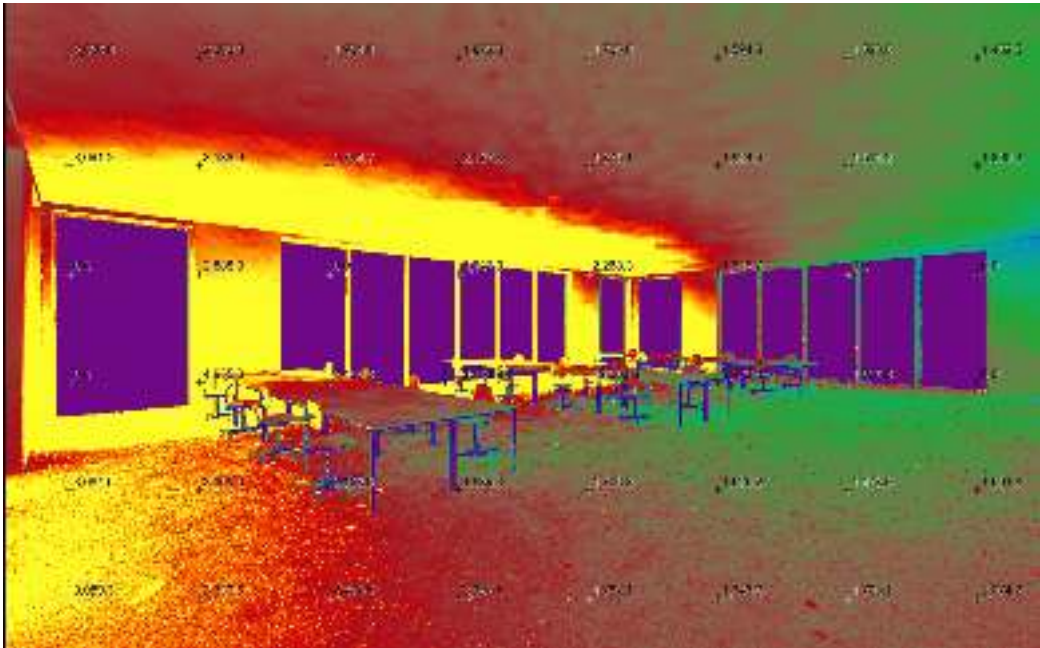
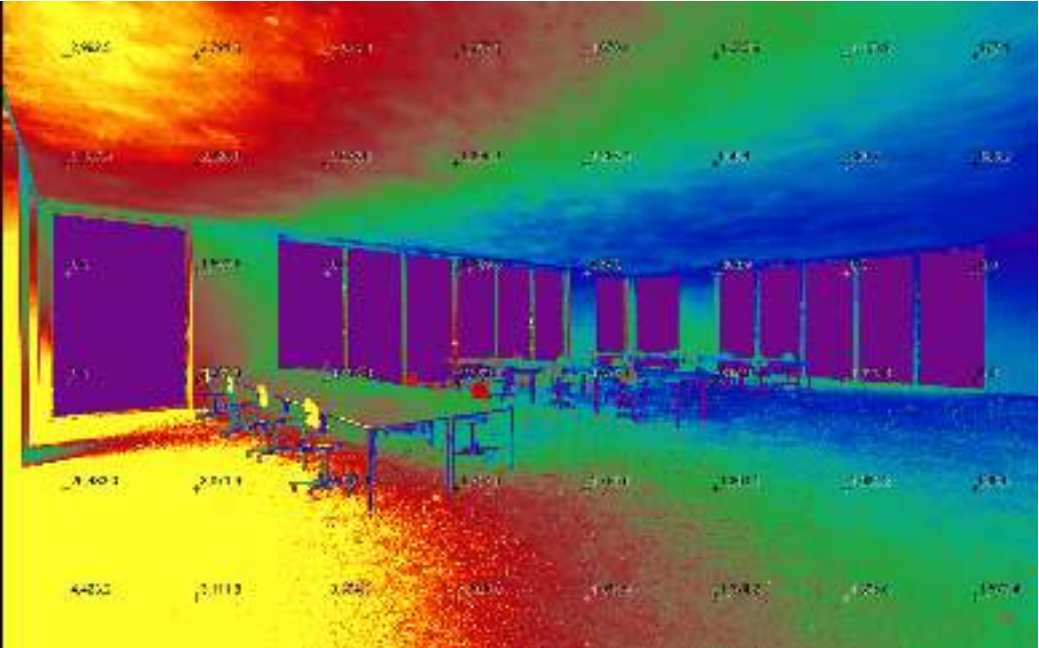
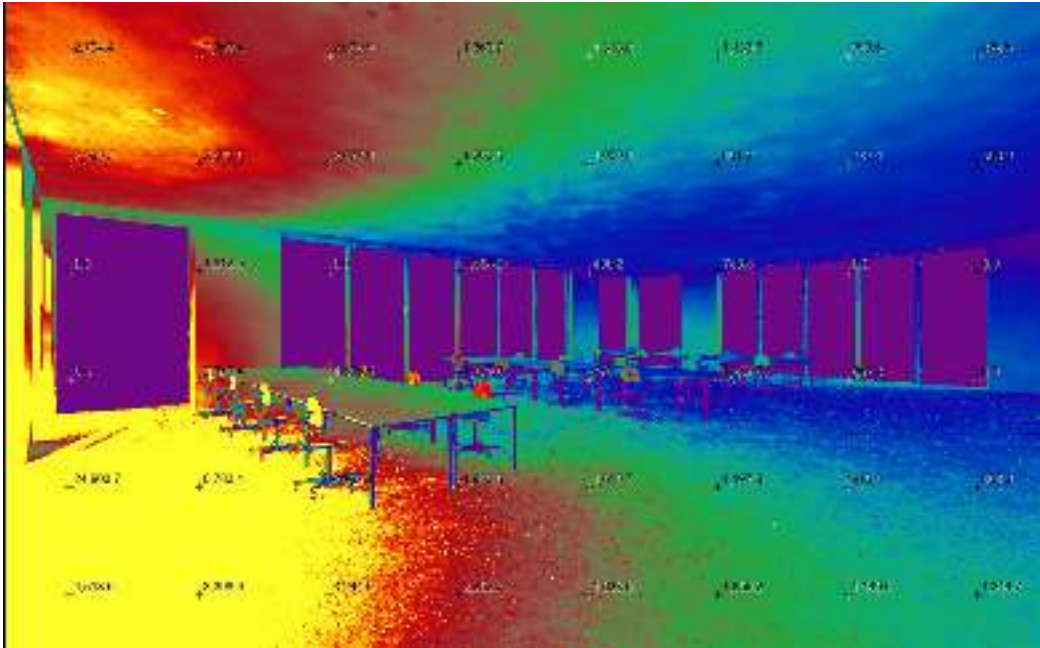




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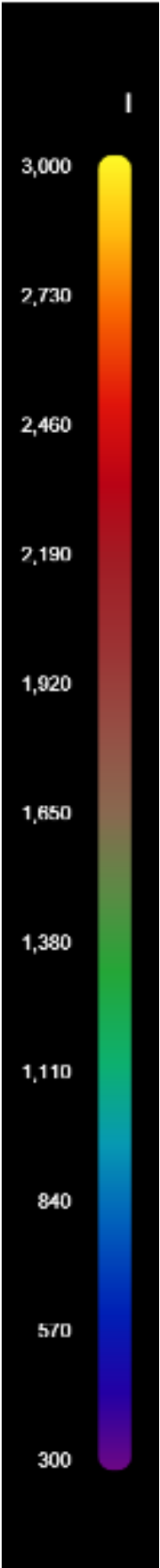
STUDY ZONE 1 DAYLIGHT ACCESS

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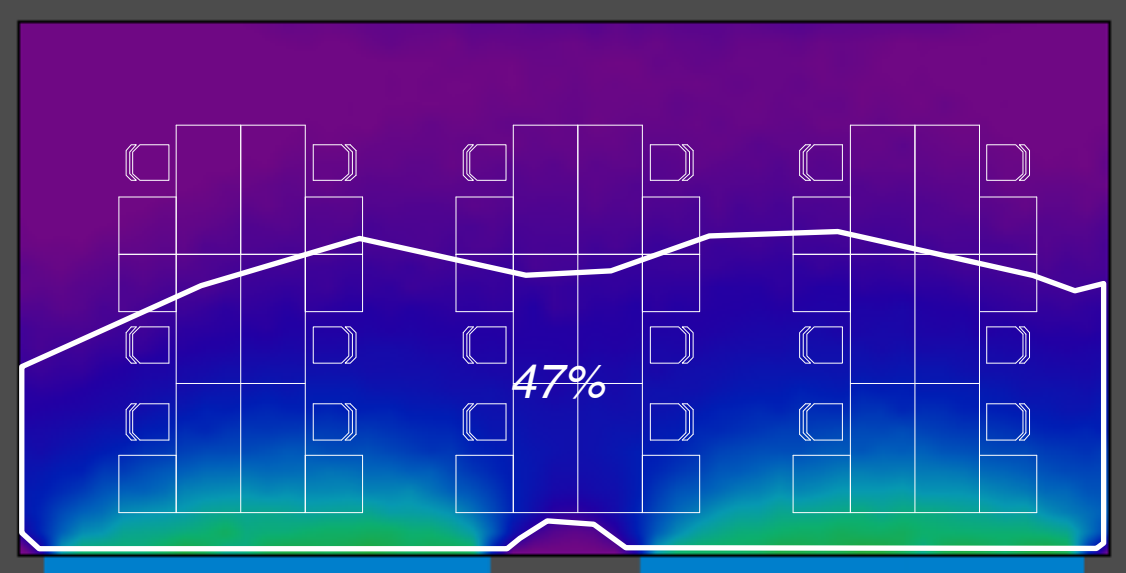
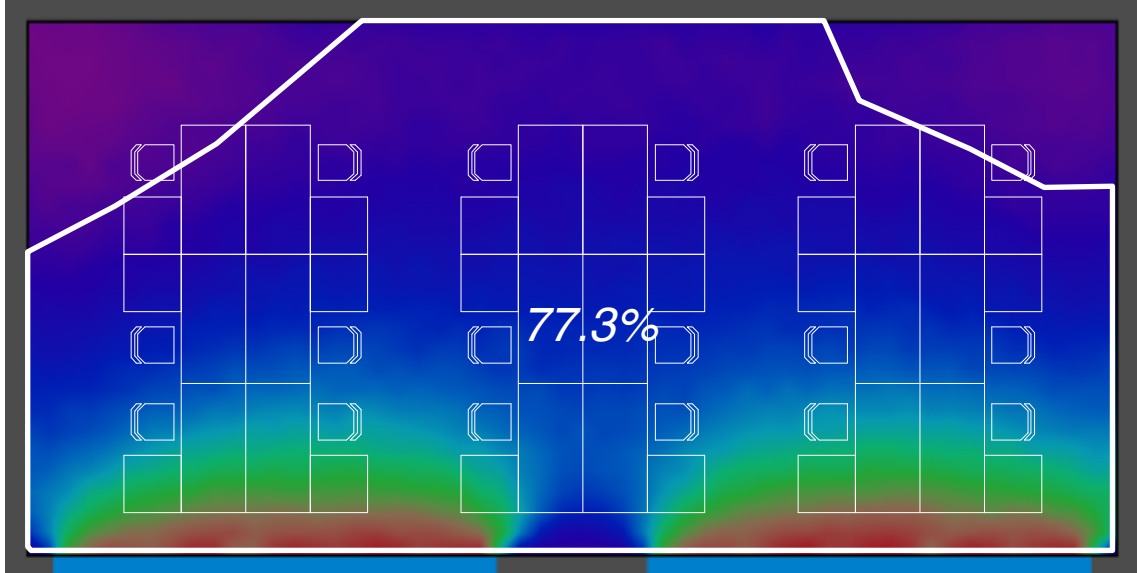
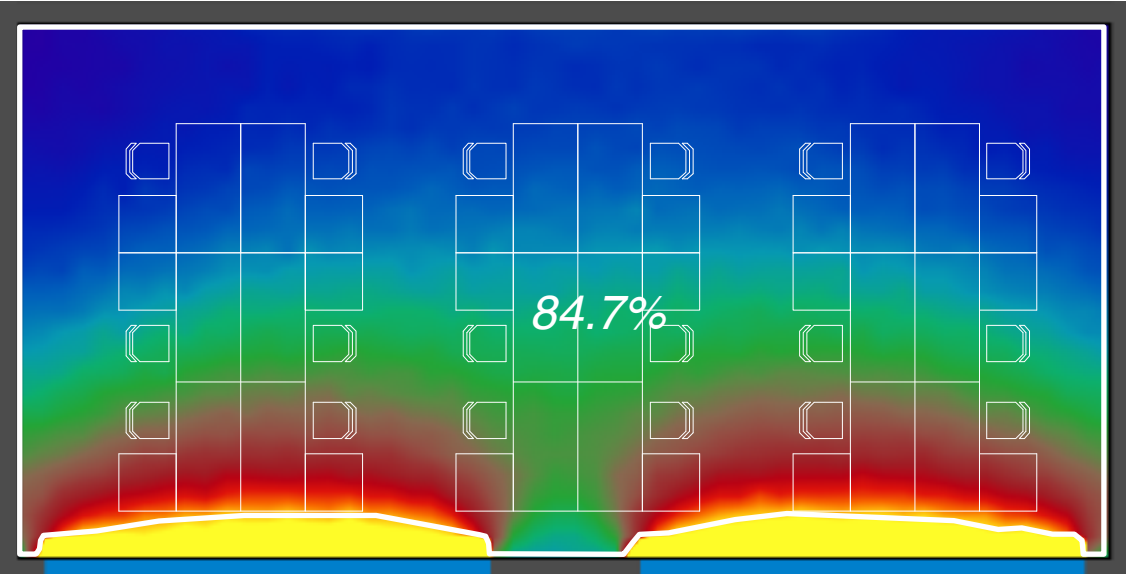
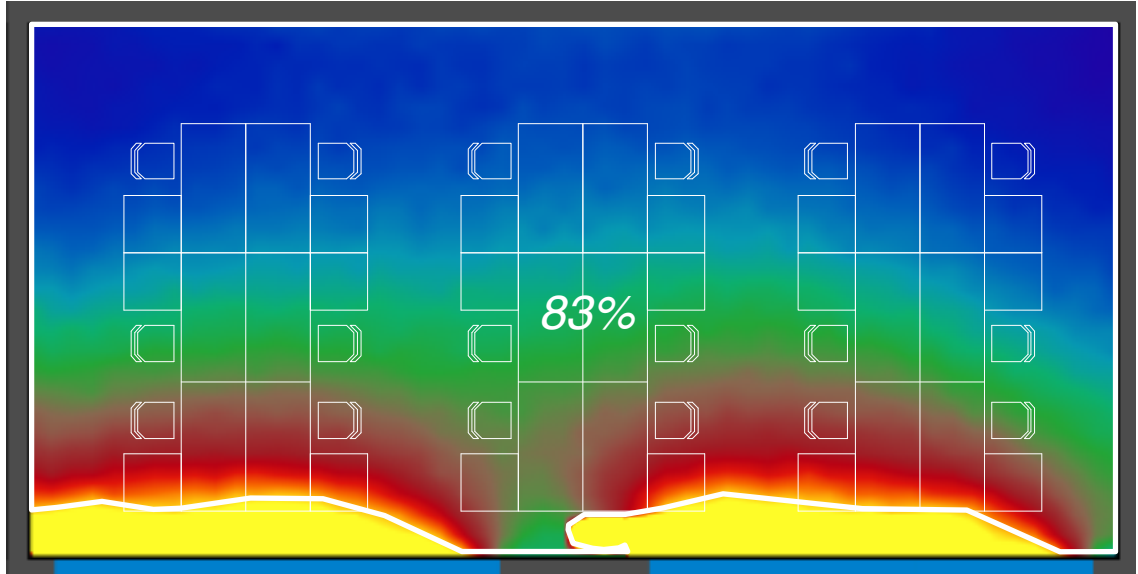
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STUDY ZONE 2 DAYLIGHT ACCESS

9.00 a.m.

12.00 a.m.



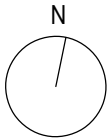
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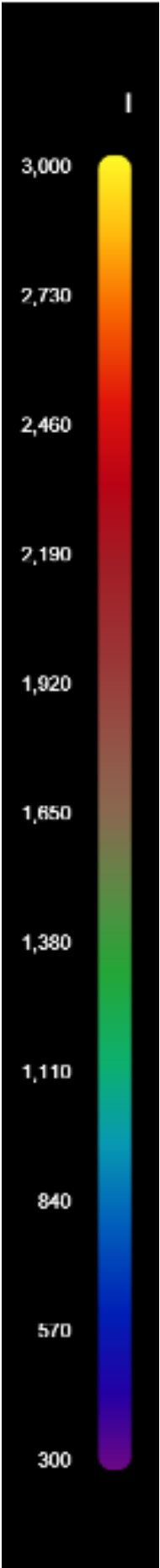
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Surface Materials Reflectance
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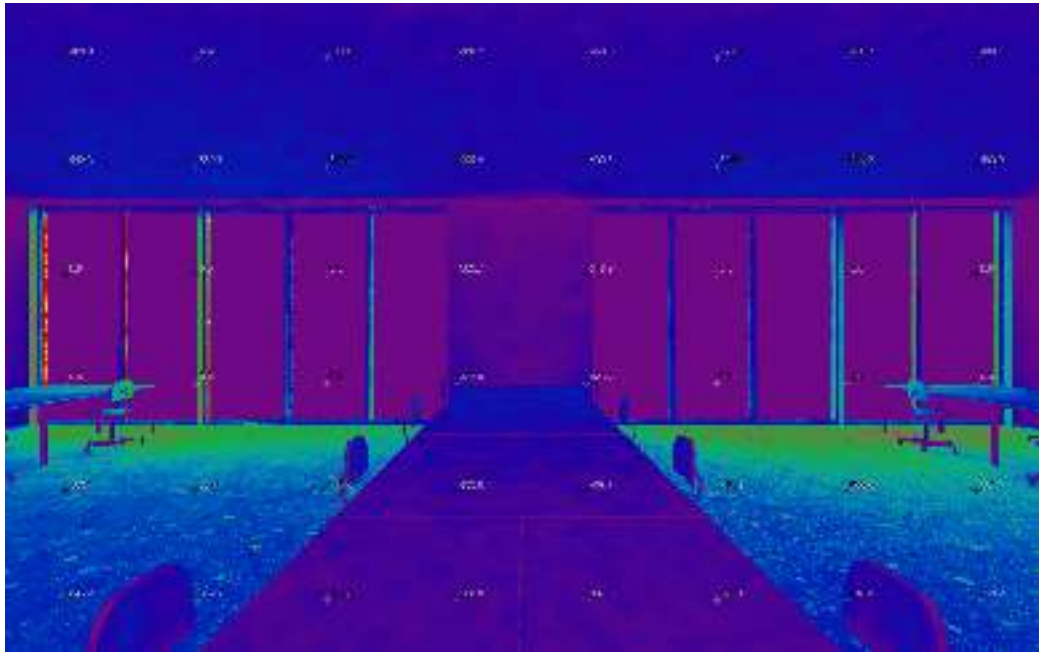
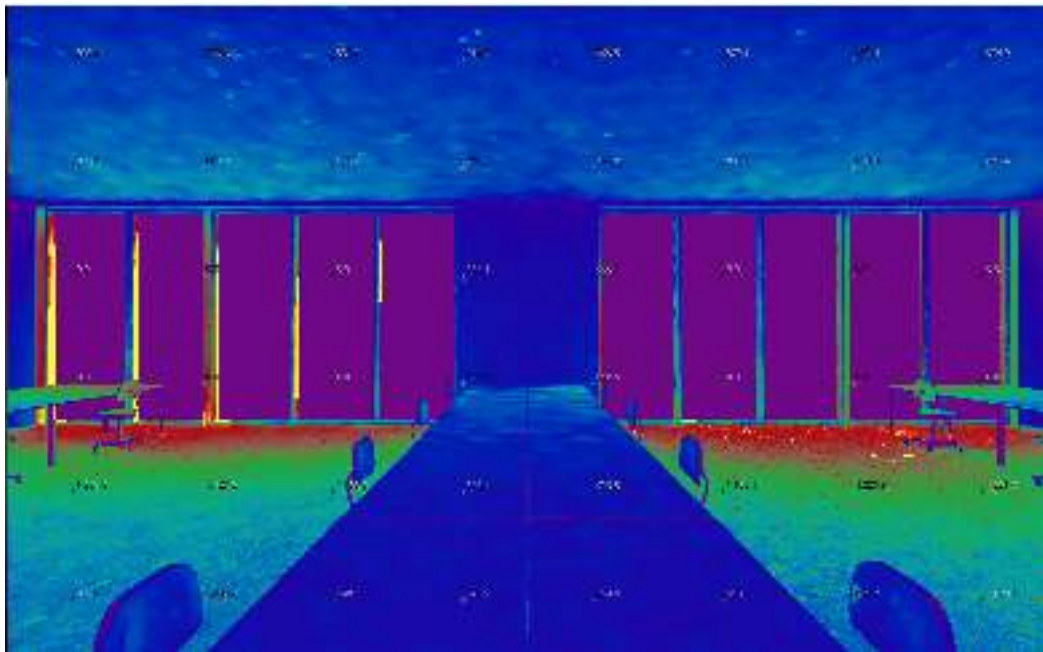
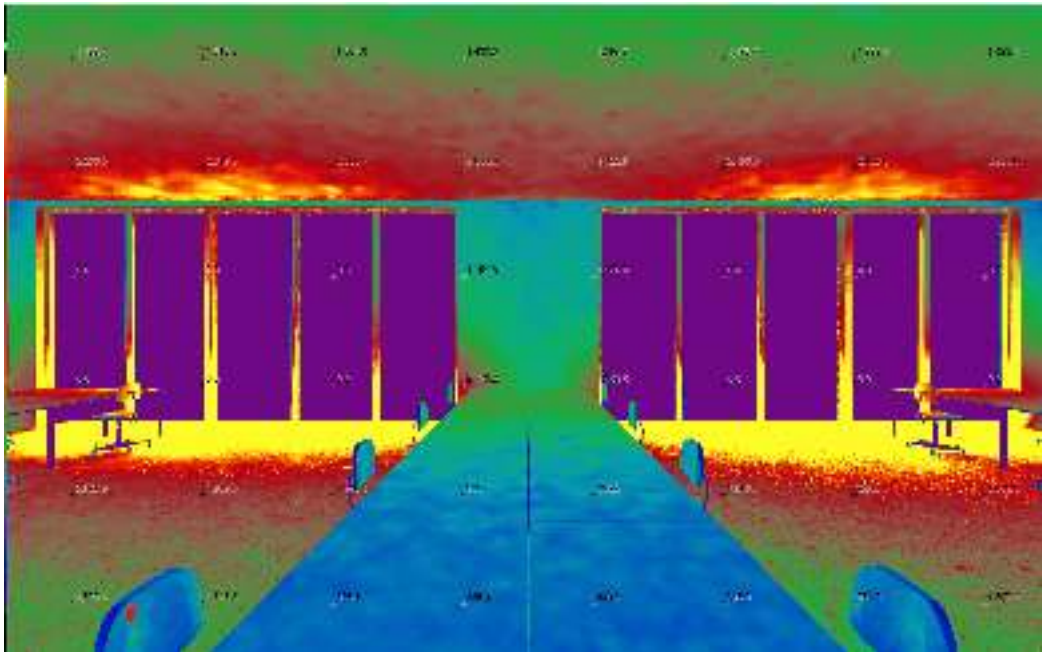
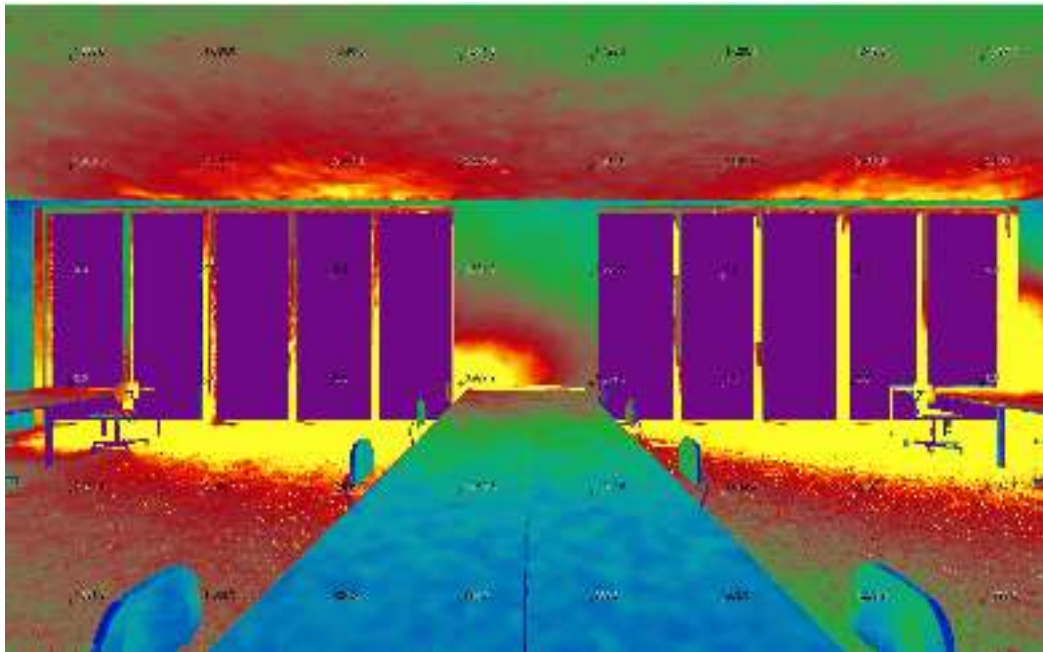




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STUDY ZONE 2 DAYLIGHT ACCESS

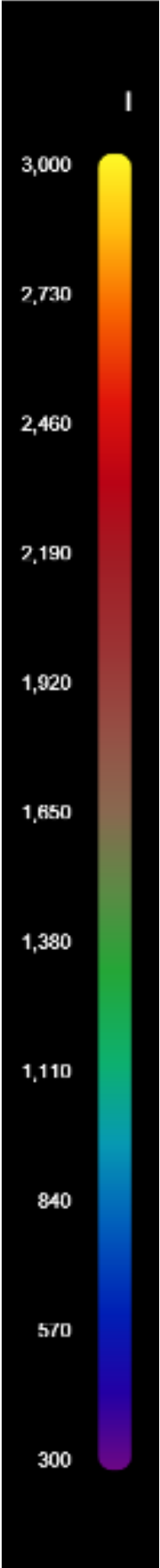
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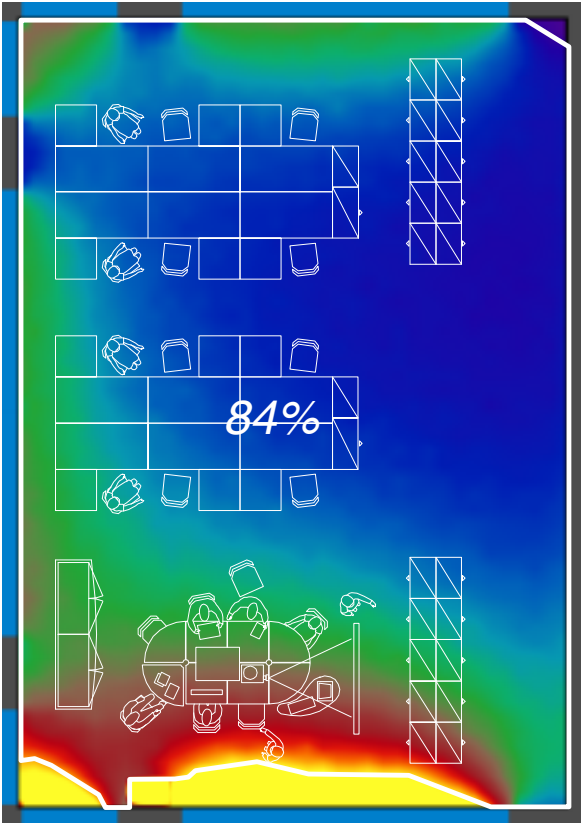
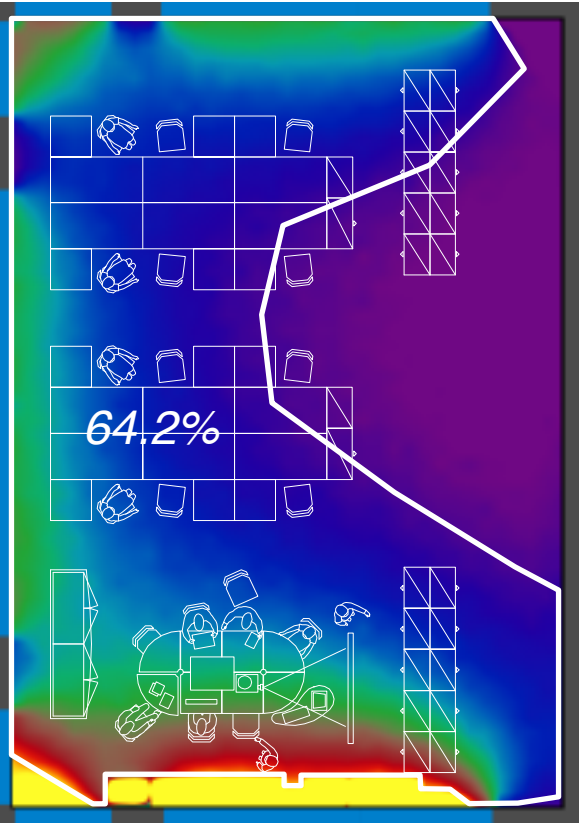
STUDY ZONE 1 DAYLIGHT ACCESS COMPARISON



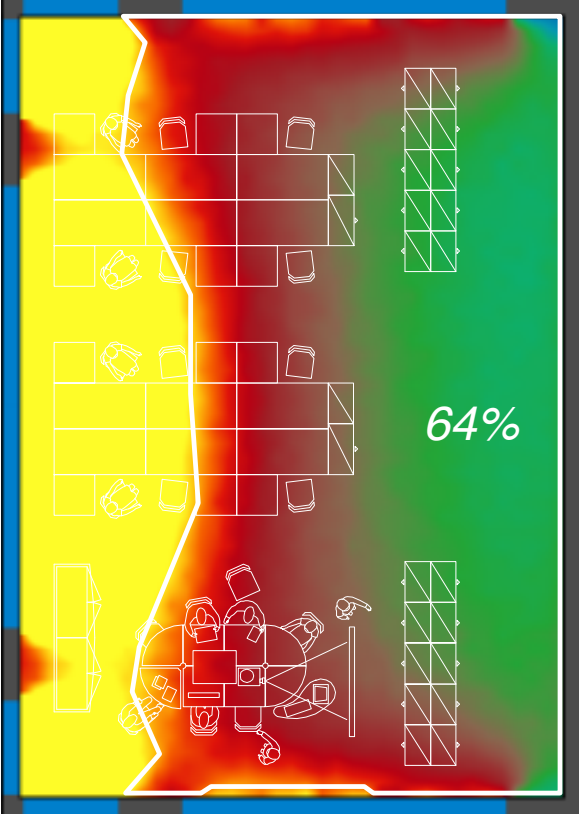
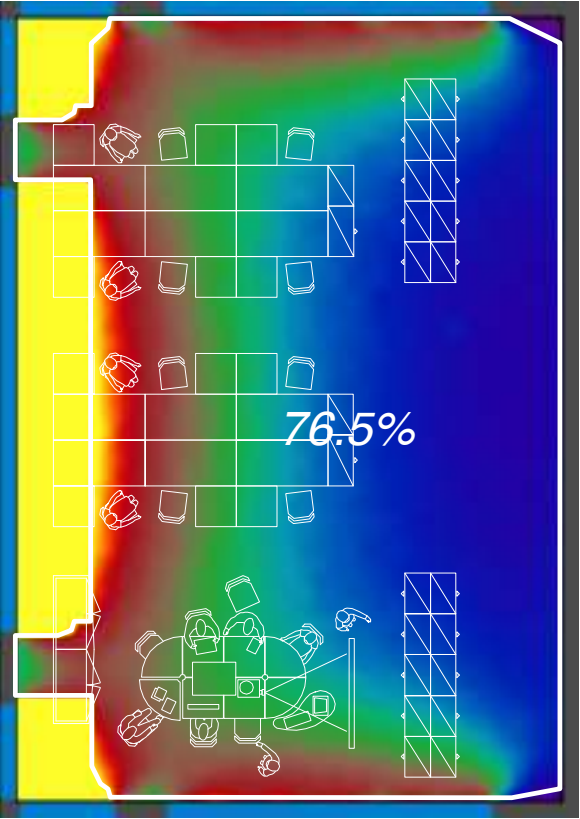
Initial design

Improvement

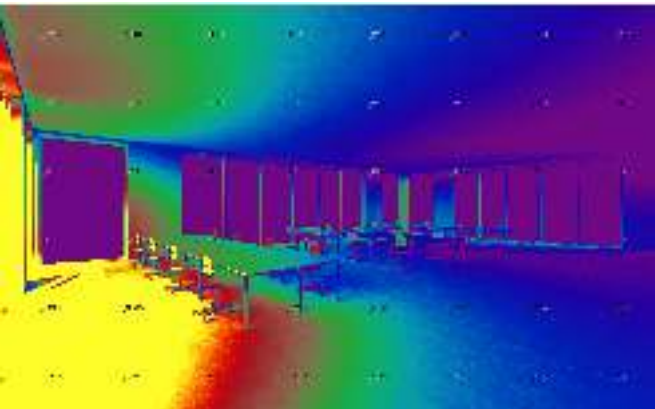
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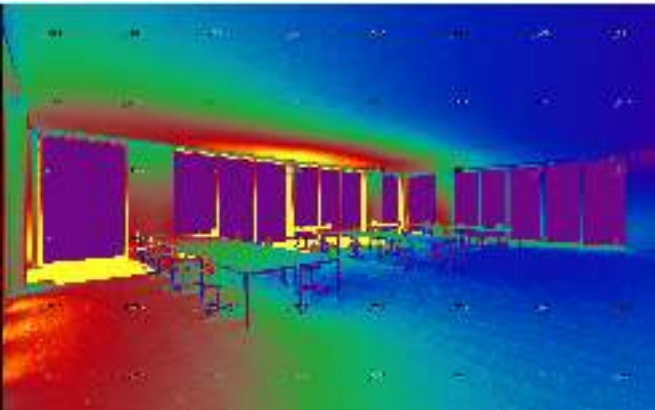
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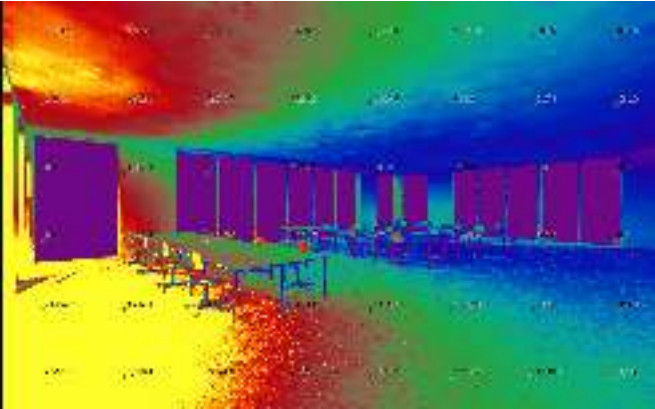


15.00 p.m.

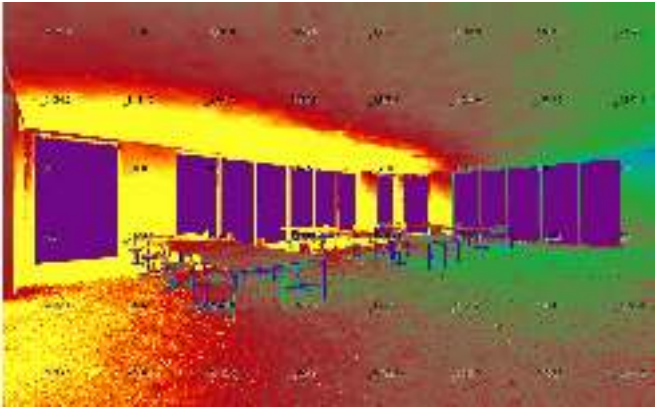


Initial design

9.00 a.m.

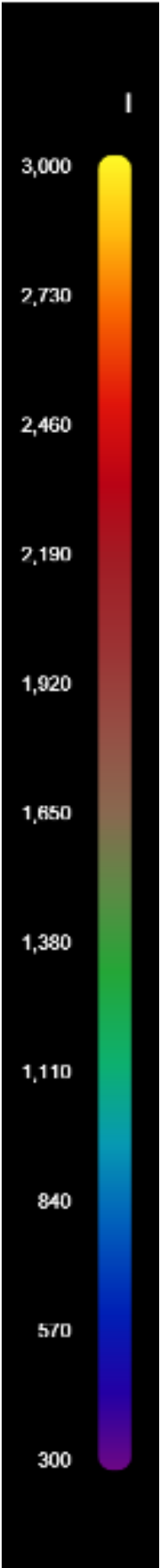


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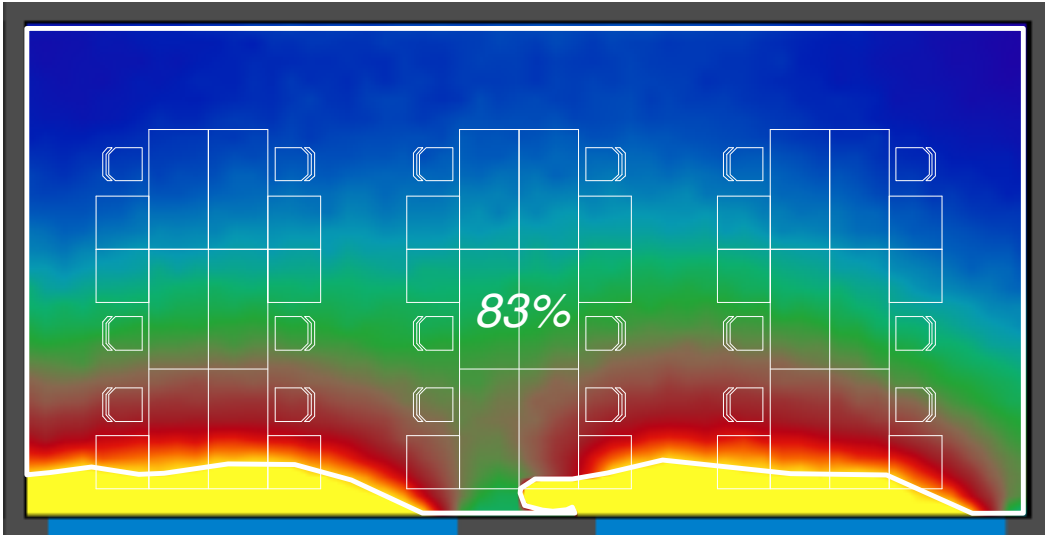
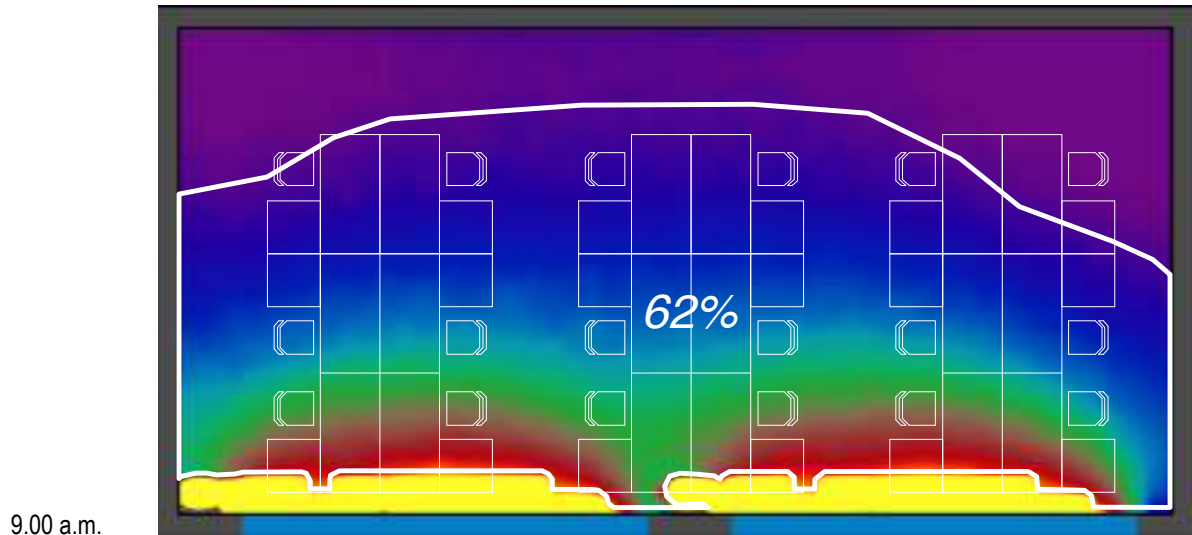
Improvement

STUDY ZONE 2 DAYLIGHT ACCESS COMPARISON

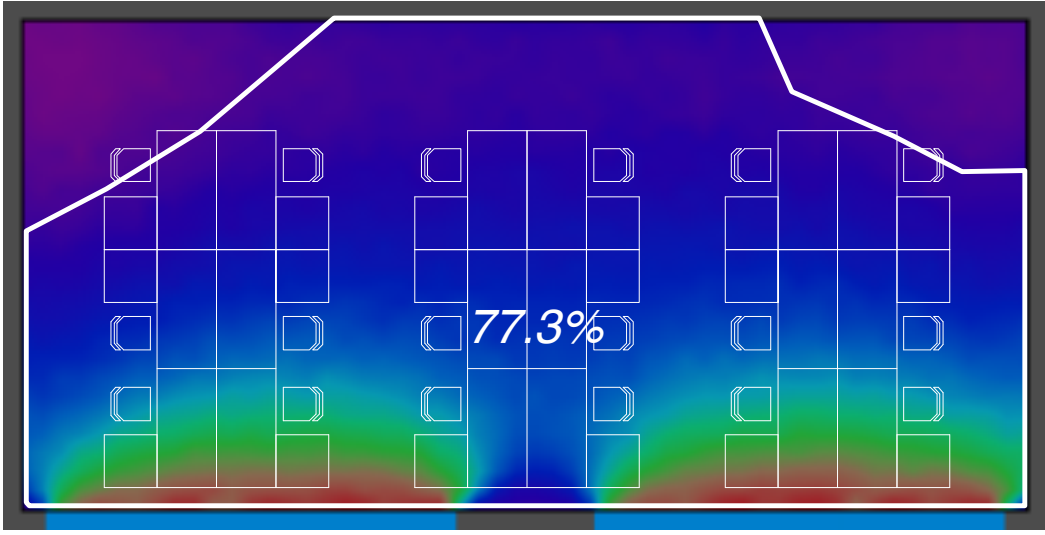
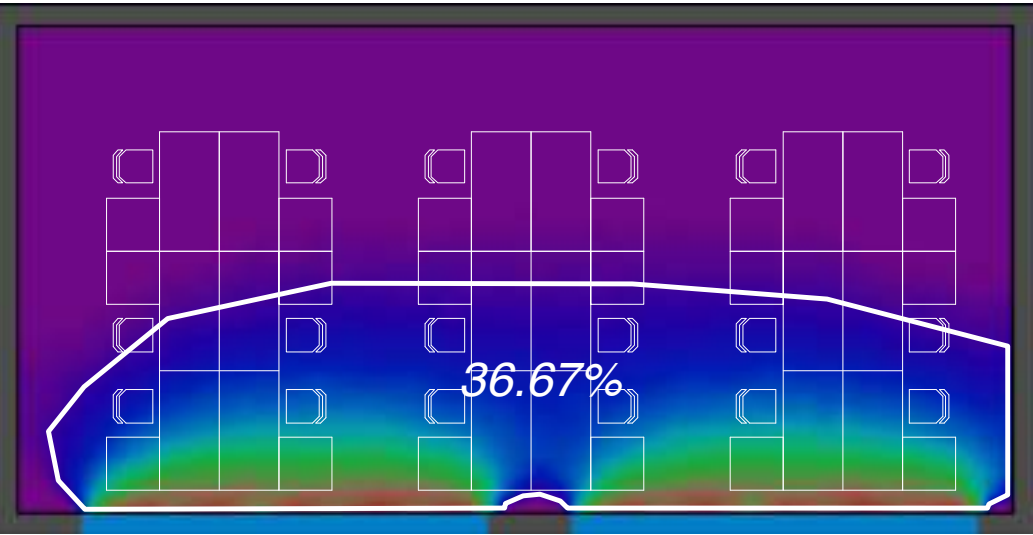


Initial design

Improvement



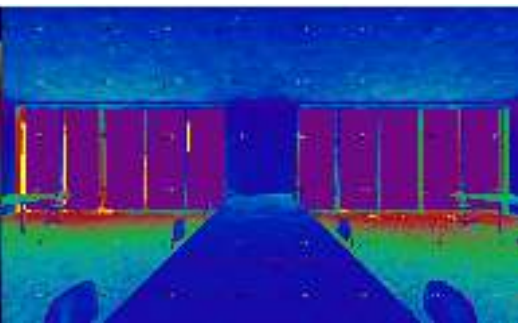
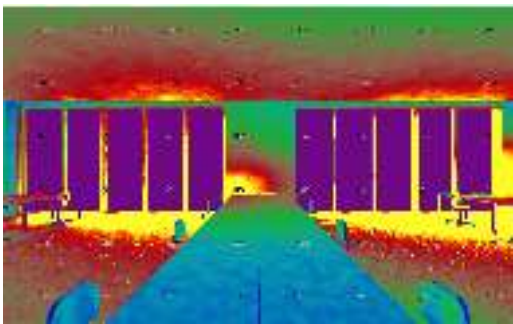
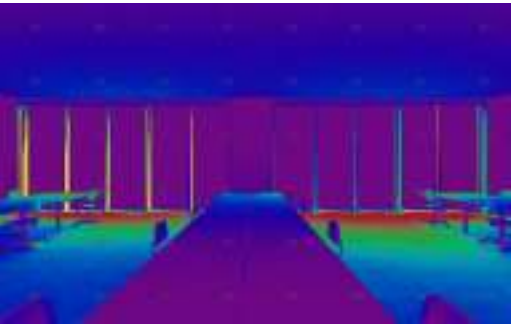
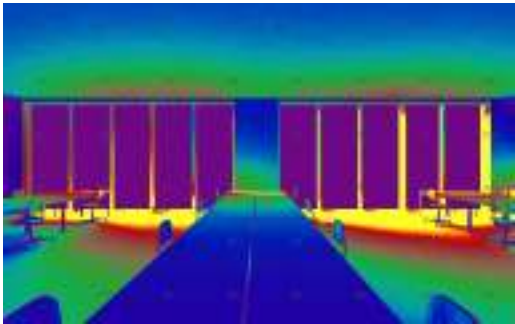
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Initial design

Improvement

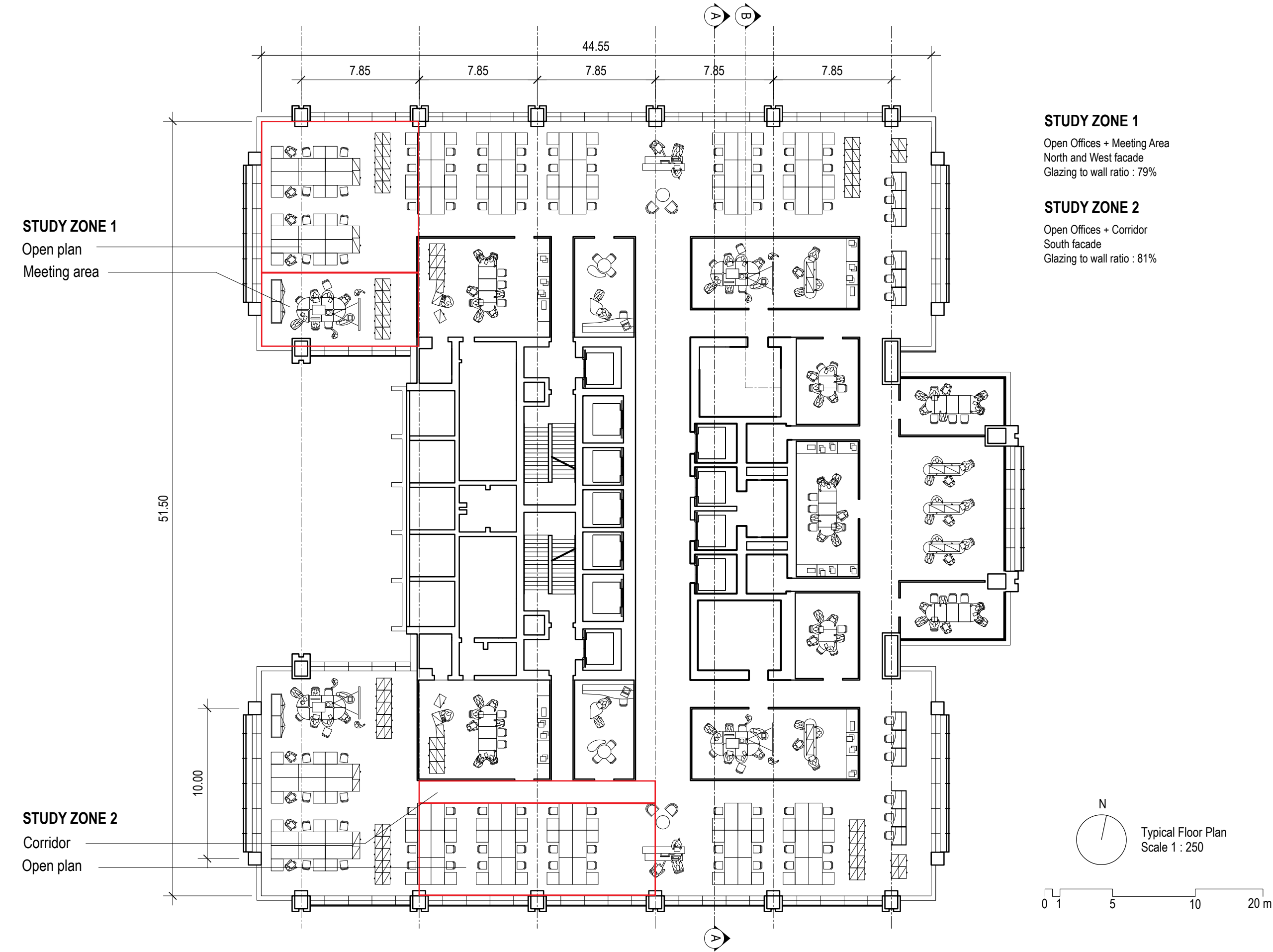


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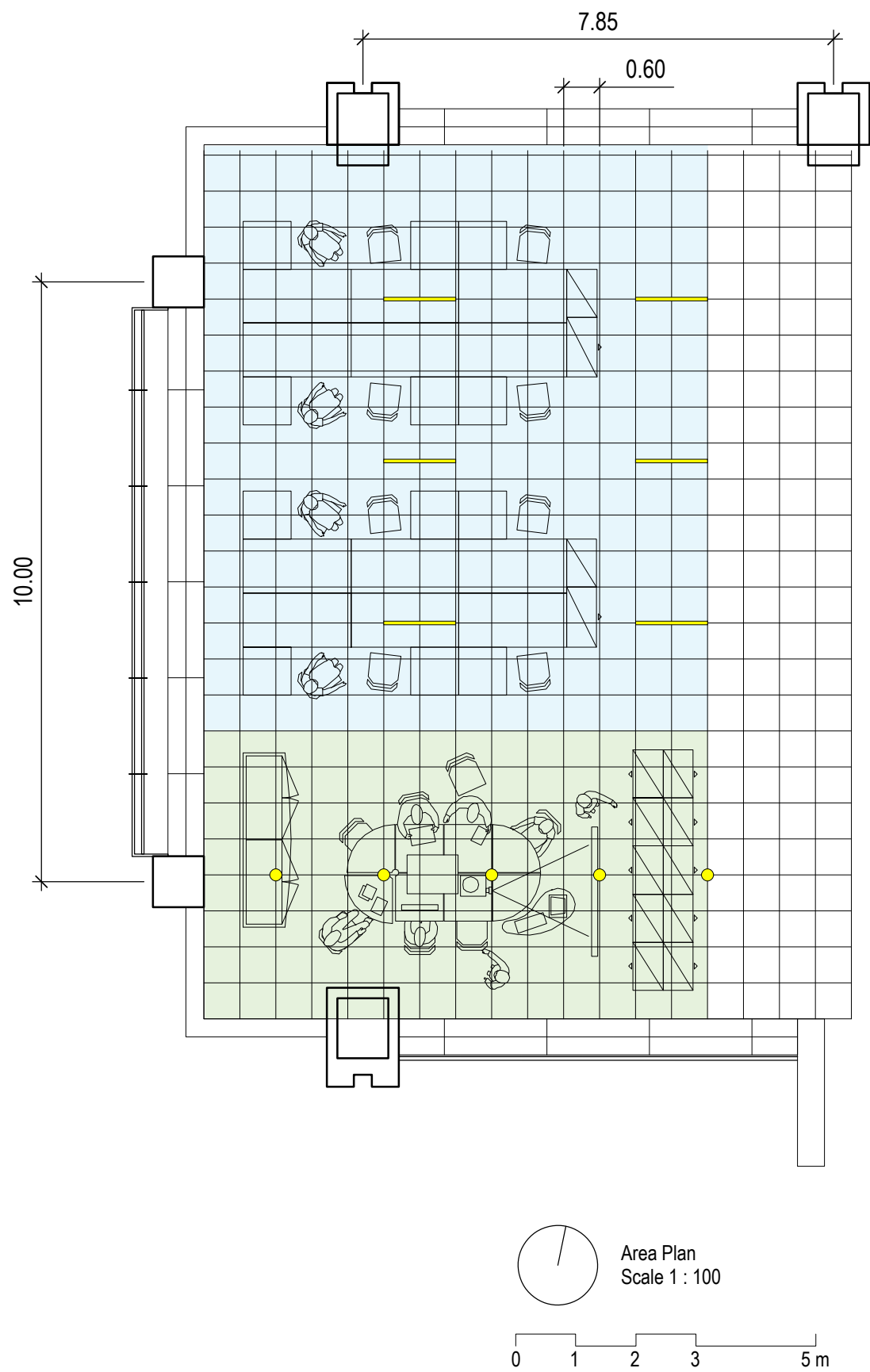
15.00 p.m.

9.00 a.m.

15.00 p.m.



LIGHTING CONCEPT - STUDY ZONE 1



Open Office Strategy

The selection of Lithonia suspended linear lighting for the open office space is based on its ability to deliver uniform, glare-free illumination, thereby enhancing visual comfort and productivity. Additionally, its streamlined design aligns with the overall modern and efficient spatial strategy.

Lithonia suspended linear light
LL4 5000LM W0.6 x L1.2

For lighting specification detail
see appendix A

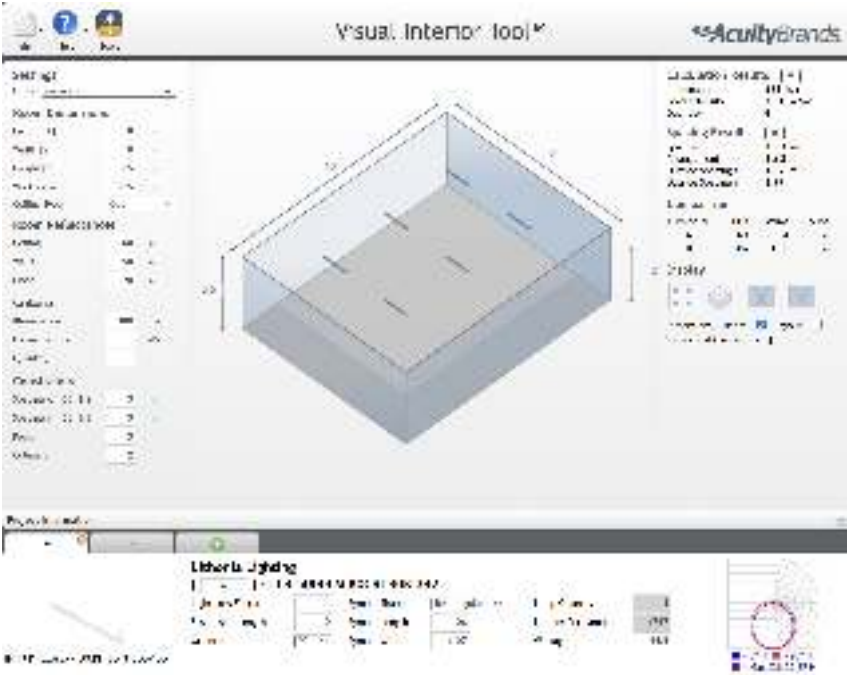
Meeting Area Strategy

The Gotham EVO8 recessed downlight has been selected for the meeting area due to its high-performance optical system, delivering precise, low-glare illumination that supports focused visual tasks and professional presentation settings. Its 80 CRI ensures accurate color rendering, while the sleek architectural finish contributes to a clean and refined ceiling aesthetic.

Gotham Architectural Lighting
EVO8 27-23 PR VND LSS 80CRI

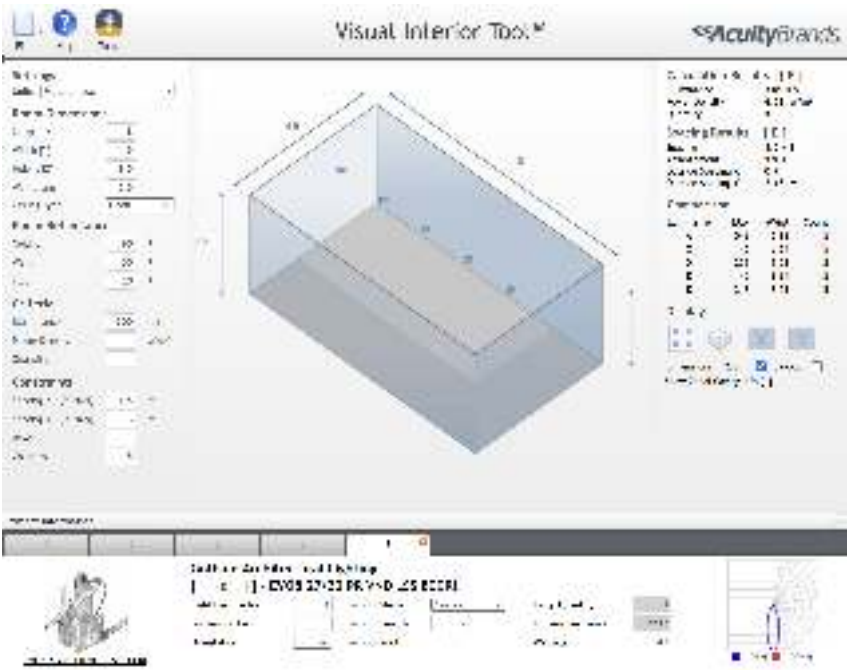
For lighting specification detail
see appendix B

Open Office Calculation



Illuminance 321 lux
Power Density 3.34 W/m²
Quantity 6

Meeting Area Calculation



Illuminance 318 lux
Power Density 6.53 W/m²
Quantity 5

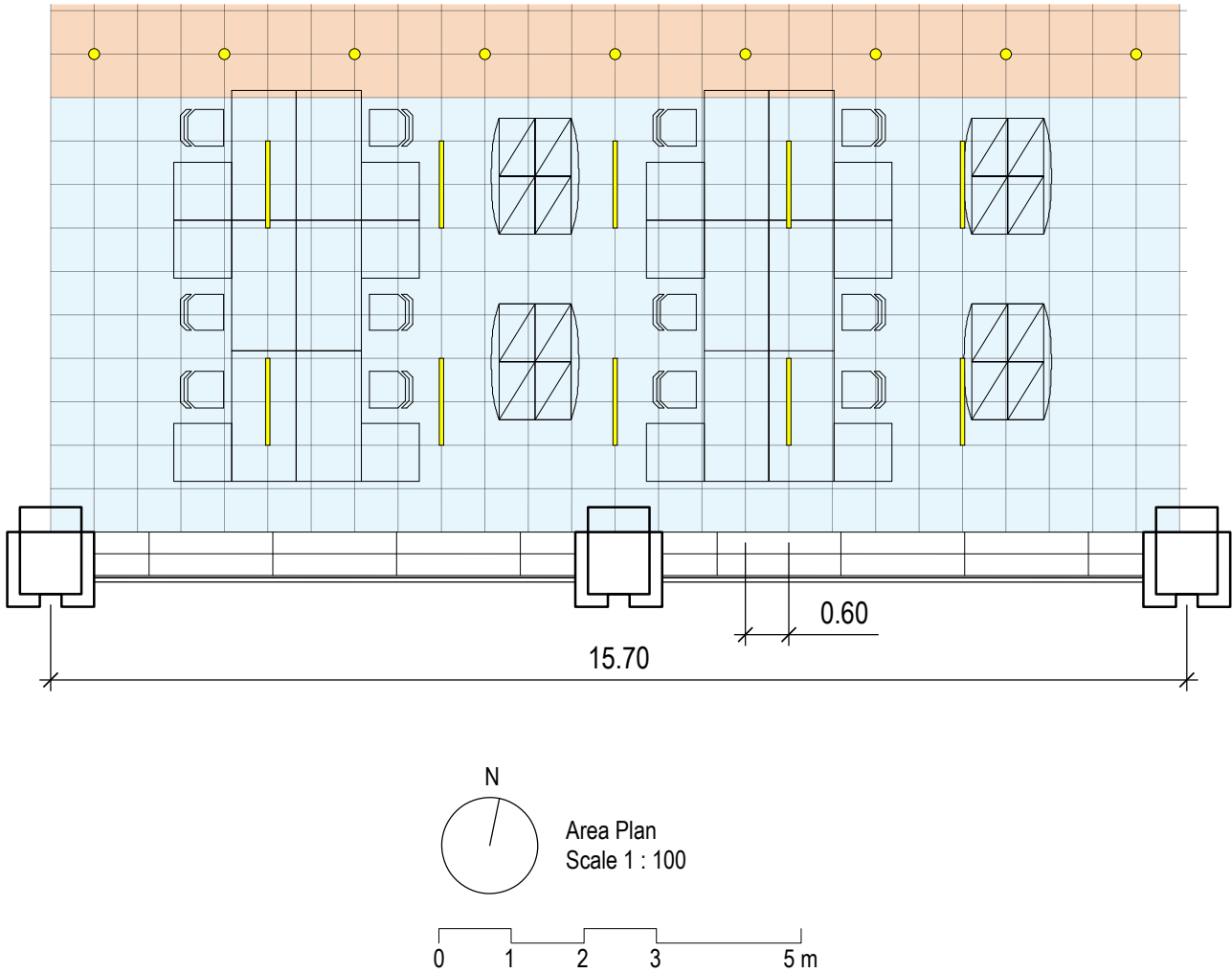
PERSPECTIVE RENDER - STUDY ZONE 1



Lithonia suspended linear light
LL4 5000LM W0.6 x L1.2

Illuminance 344 lux
Power Density 3.48 W/m²

LIGHTING CONCEPT - STUDY ZONE 2



Open Office Strategy

The selection of Lithonia suspended linear lighting for the open office space is based on its ability to deliver uniform, glare-free illumination, thereby enhancing visual comfort and productivity. Additionally, its streamlined design aligns with the overall modern and efficient spatial strategy.

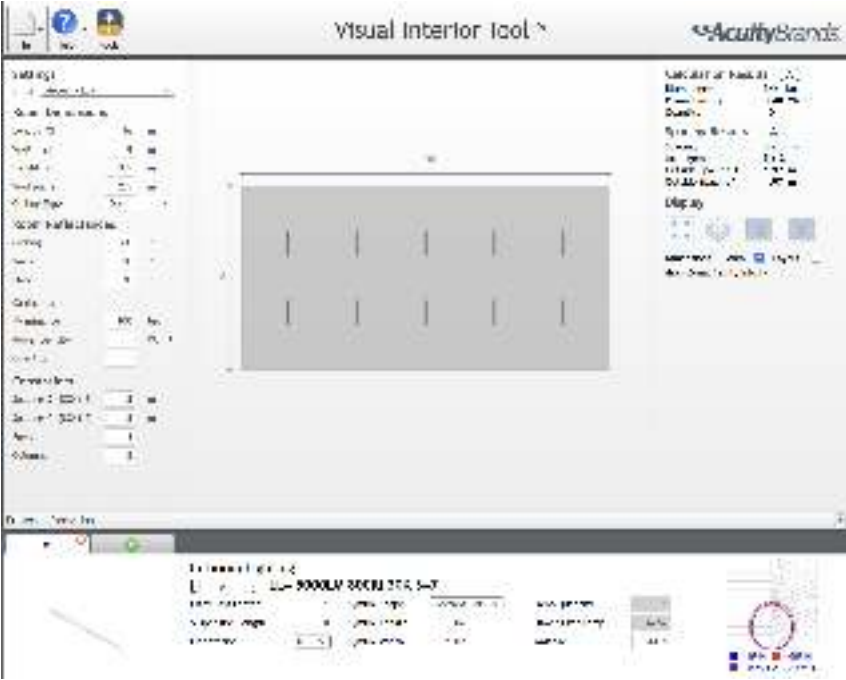
Lithonia suspended linear light
LL4 5000LM W0.6 x L1.2
For lighting specification detail
see appendix A

Corridor Strategy

The Juno WF6C 6-inch round LED downlight has been specified for the corridor due to its low-profile design and wide beam distribution, providing seamless and energy-efficient ambient lighting. The 3000K color temperature offers a warm and welcoming atmosphere, while its maintenance-free installation supports long-term operational efficiency

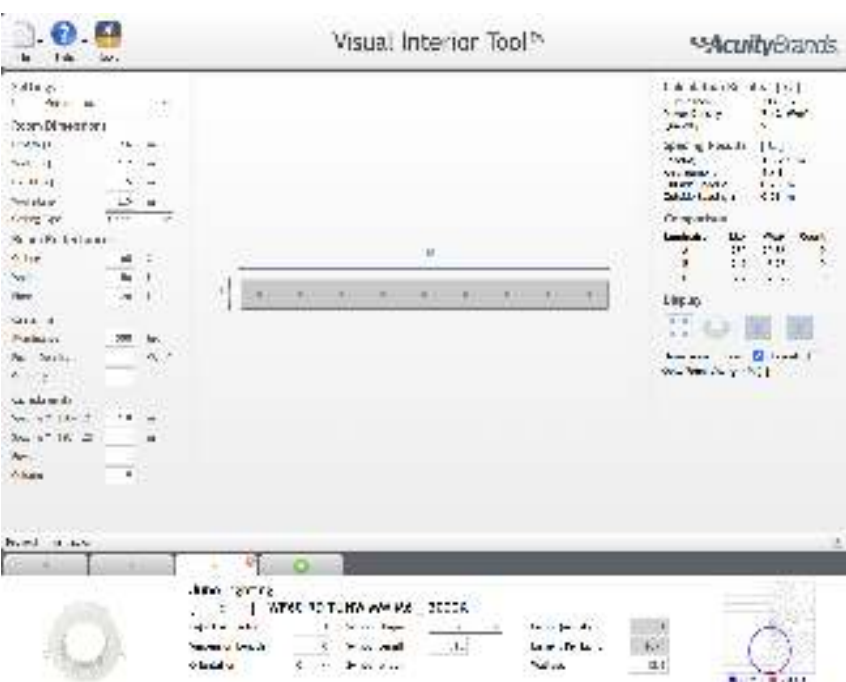
Juno Lighting
WF6C RD TUHM MW M6_3000K
For lighting specification detail
see appendix C

Open Office Calculation



Illuminance 344 lux
Power Density 3.48 W/m²
Quantity 10

Meeting Area Calculation




Illuminance 318 lux
Power Density 6.53 W/m²
Quantity 6

PERSPECTIVE RENDER - STUDY ZONE 2



Appendix

A



FEATURES & SPECIFICATIONS

LED CONNECT WAFER — Juno Connect Wafers are designed for open, round, grid, or track lighting applications. The perfect combination of style and simplicity, Juno Connect Wafers are designed to be used in a variety of applications, including open, round, grid, or track lighting. The Juno Connect Wafers are designed to be used in a variety of applications, including open, round, grid, or track lighting. The Juno Connect Wafers are designed to be used in a variety of applications, including open, round, grid, or track lighting.

CONTROL METHOD — Juno Connect Wafers are available in a variety of control methods, including dimming, color temperature, and color rendering. The Juno Connect Wafers are designed to be used in a variety of applications, including open, round, grid, or track lighting. The Juno Connect Wafers are designed to be used in a variety of applications, including open, round, grid, or track lighting.

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Open Ceiling LED Suspended

LL

Office or Lounge

EPD 1200C

EPD 1200C

EPD 1200C

Product	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
EPD 1200C	1200	1200	1200	1200	1200
EPD 1200C	1200	1200	1200	1200	1200
EPD 1200C	1200	1200	1200	1200	1200
EPD 1200C	1200	1200	1200	1200	1200
EPD 1200C	1200	1200	1200	1200	1200

B



General Illumination Round Downlight

8"




Features

- Available in 8" and 12" diameters
- Available in 1200K, 3000K, and 5000K color temperatures
- Available in 100W, 150W, and 200W power ratings
- Available in 100W, 150W, and 200W power ratings
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Applications


- Core
- Healthcare
- Special Applications

C



Juno Connect Wafer™

6" LED Tunable White Wafer Downlight



Product Features

- Available in 6" and 8" diameters
- Available in 1200K, 3000K, and 5000K color temperatures
- Available in 100W, 150W, and 200W power ratings
- Available in 100W, 150W, and 200W power ratings
- Available in 100W, 150W, and 200W power ratings

Applications

- Core
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