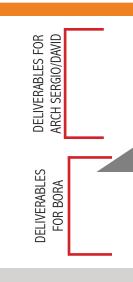
# BORA

BORA Architects Morgan Building 720 SW Washington St. #800 Portland, OR 97205



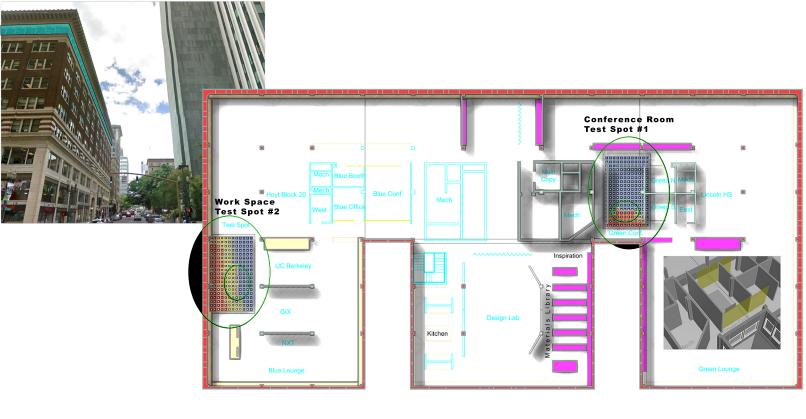
#### ARCH: 560: Advanced Architectural Technology Sergio Palleroni | David Posada | Tucker Jones

**PSU: School of Architecture, Graduate Students** Alyssa Brook | Jennifer Moran | Chad Wallace

**BORA Architects & Interiors** 

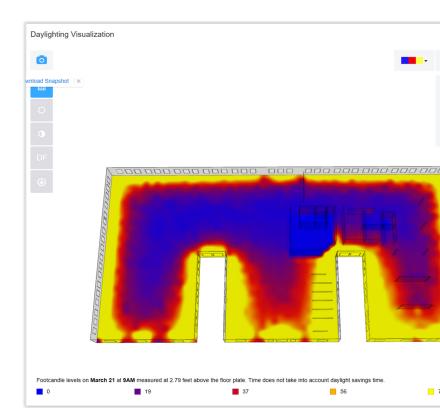
Mike Manzi | Abby Dacy | Jacob Peel

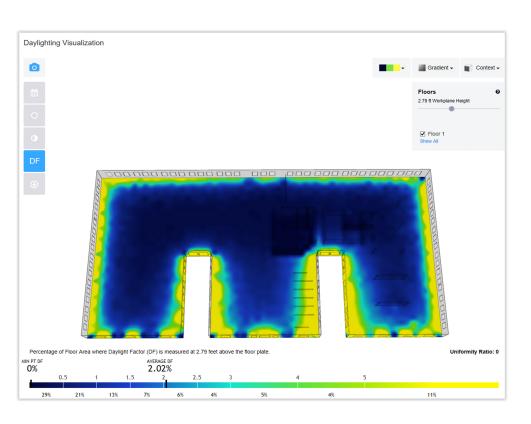
### DAYLIGHT STUDY



Gradient - 🗊 Context -

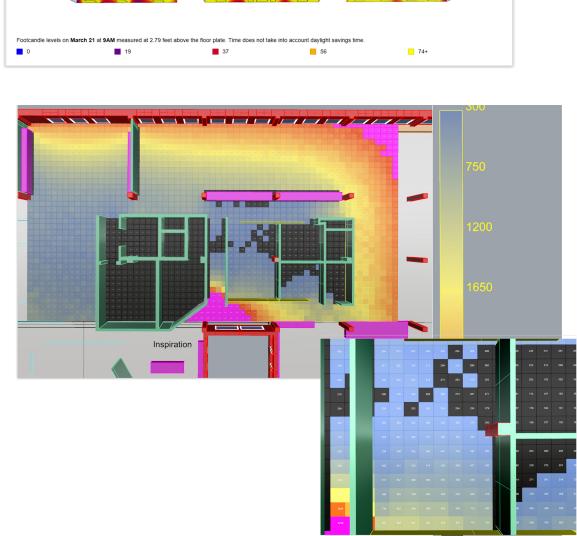
23% ASE





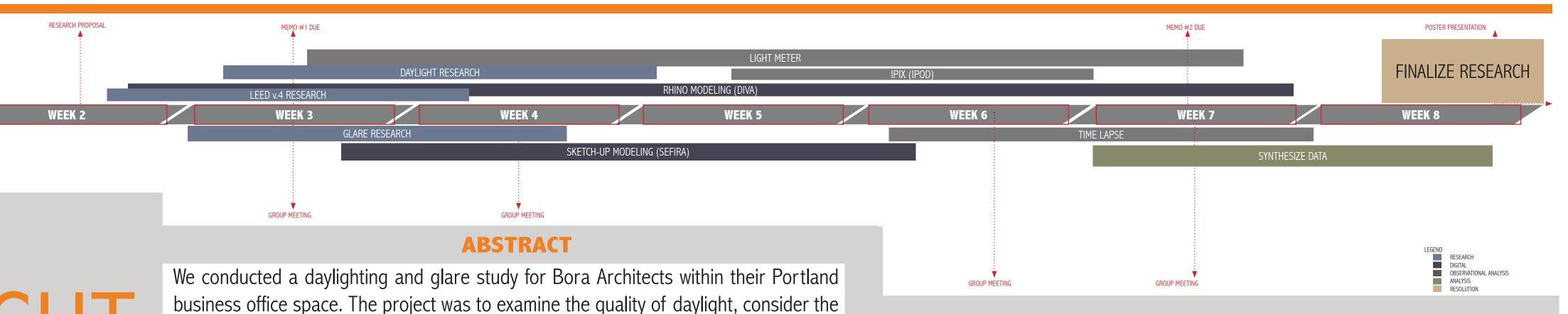
52%

Underlit Overlit



#### **Results/Findings**

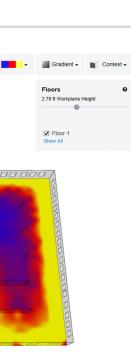
Analyzing existing lighting conditions through Diva's parametric design process offered immediate than Sefaira for SketchUp. We have discovered that it is certainly possible to use Diva as a design tool, insight into the effects of current lighting levels. The simultaneous collection of field data allowed us and calculate accurate information used to achieve LEED v4.0. After making additional adjustments in the design process. Unfortunately, we discovered that adequate daylight comes at the cost of intervation to to weather data files, custom materials pallets and overall extensive detailing of input data, the Diva creased glare. Initial research suggested that changes in glazing and additional louvers could be additional research was our experience that DIVA for Rhino is a more optimal and useful tool for this type of data collection that these tools could be used in the future to accurately predict the daylighting autonomy for a given on the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given in the future to accurately predict the daylighting autonomy for a given



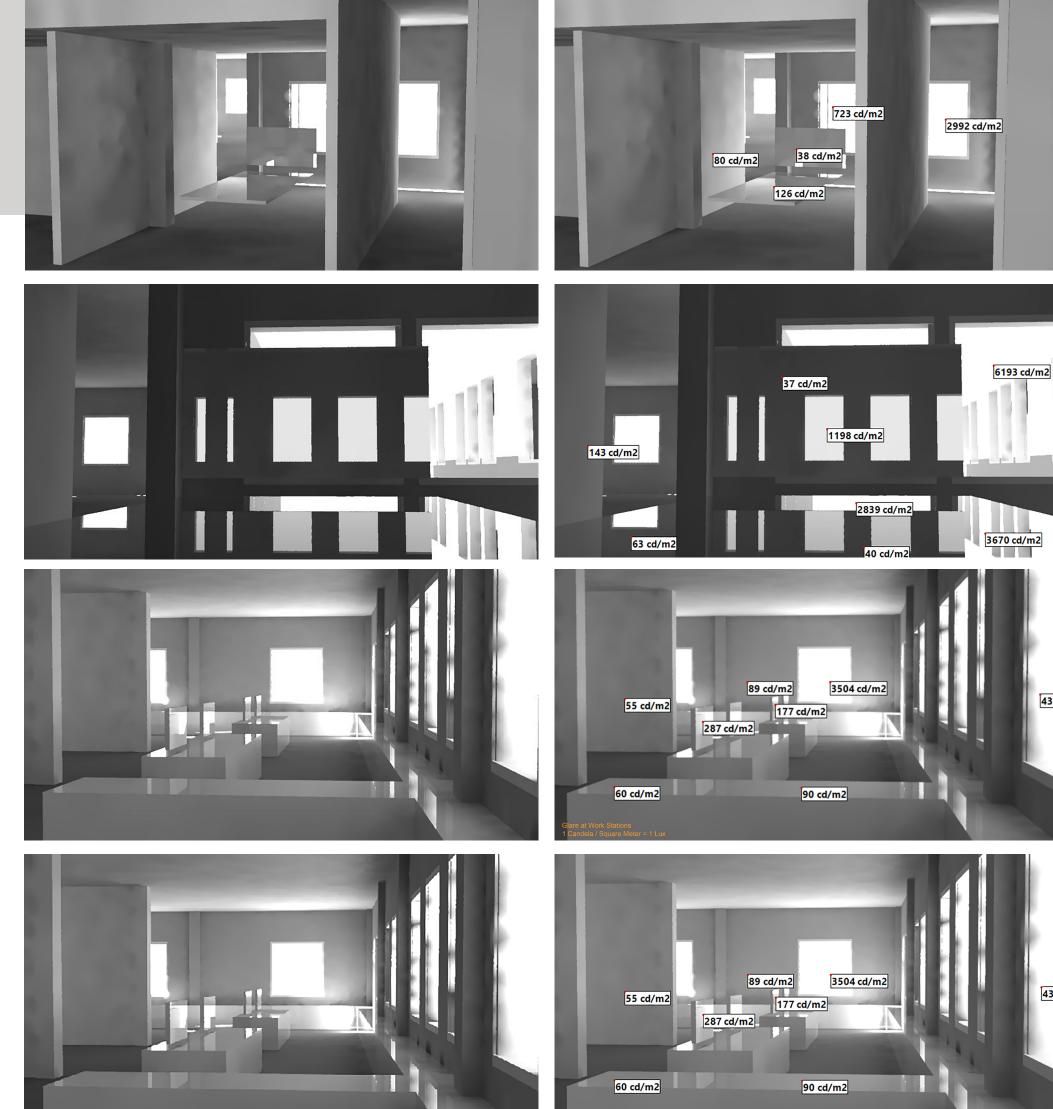
## DAYLIGHT

We conducted a daylighting and glare study for Bora Architects within their Portland business office space. The project was to examine the quality of daylight, consider the effectiveness of borrowed light, and strive to discover what LEED-compliant daylight autonomy really looks like. In addition we were tasked with running computer simulations to measure excess glare and look for ways to combat its effect. We were able to explore the effects of glare with in Bora's workspace as it currently exists and look for interventions to improve perceived lighting level contrasts. The control of glare and daylighting can be an effective internal strategy to maximize visual comfort and

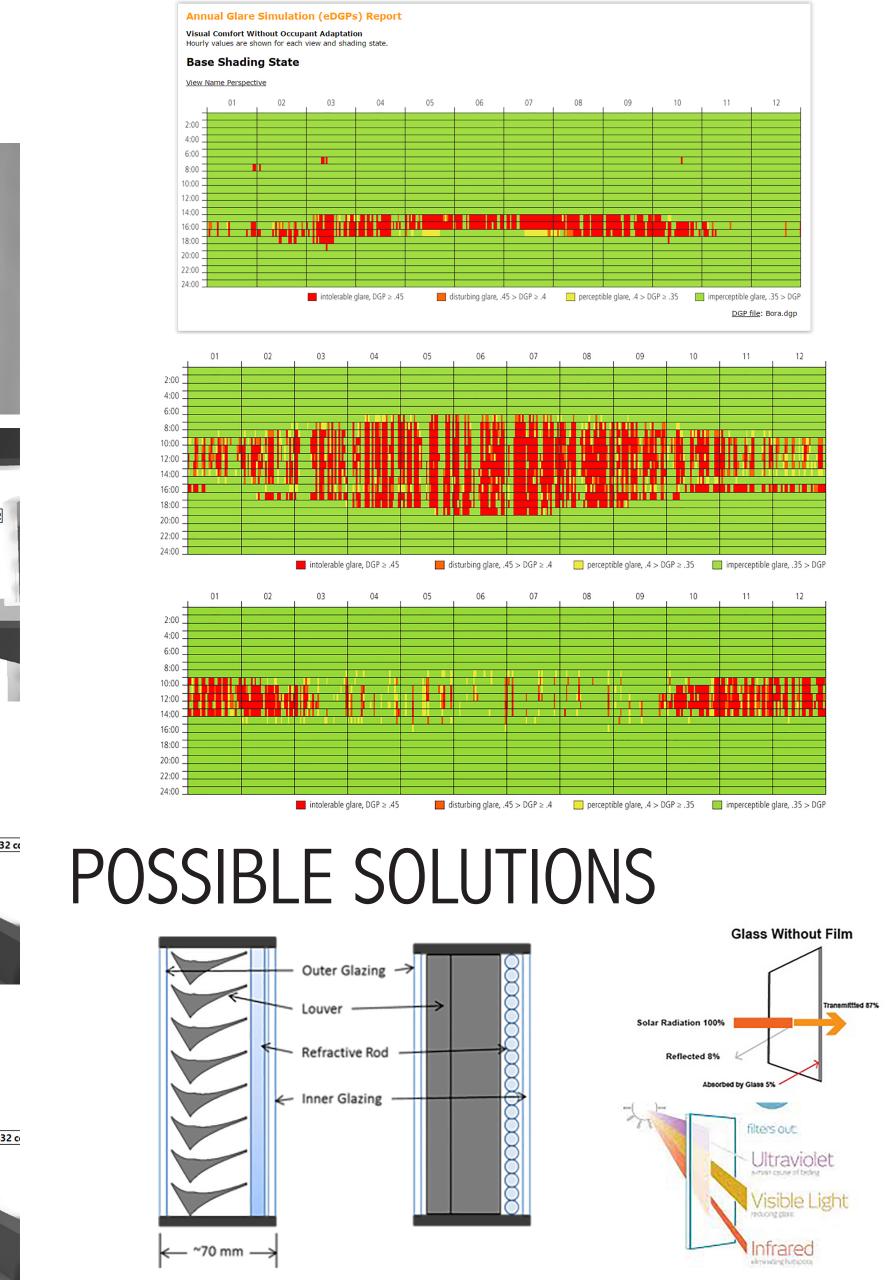
### RE



### GLARE STUDY



#### **Results/Findings**



**Results/Findings**