



TEAM	Pink	10.5 Good Buddy!
<p>GTF Trainers: Jon Meendinger; University of Oregon Jason Zook; University of Oregon</p> <p>Team Members: Larry Koss; Kosmos Enterprises, Florida Vikram Sami; Lord, Aeck & Sargent Architecture, Georgia</p>		
		

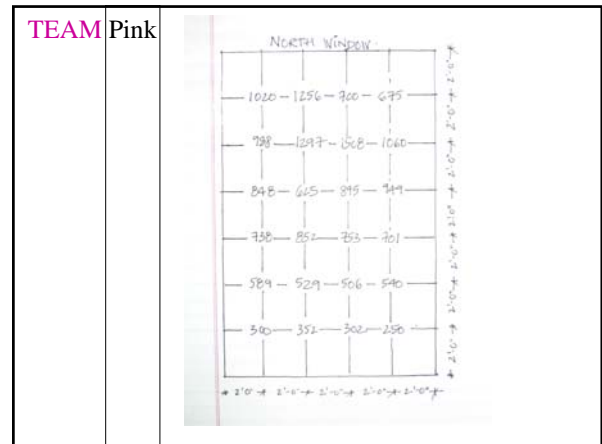
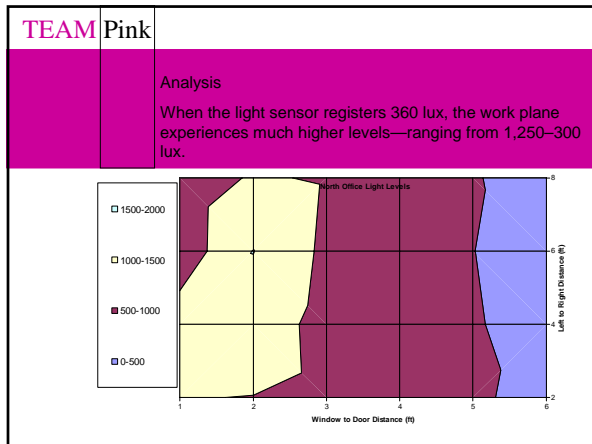
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		Hypothesis
<p><i>The light sensors in the north-facing offices of the building do not step down the lights when light levels on the work surfaces are in the range of 200–500 lux.</i></p>		
		

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		Methodology
<ul style="list-style-type: none"> • Lay out a room grid – 2 feet x 2 feet. • Measure daylight factor at a single grid point (we can extrapolate the other points from this one). • Take spot measurements at each grid point. • Measure light level at photosensor. • Using flashlight, determine threshold light level for fully dimming lights. • Using full cutoff shade, determine light intensity of lamps at 100% on, and calculate dimming capability (percentage). 		

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Conclusions		
<ul style="list-style-type: none"> • The lights step down fully (to 25%) only when the photosensors see a light level of 1,145 lux. • At the time of measurement, the photosensors were seeing only 360 lux, while the rest of the room was seeing light levels above 500 lux (except for the last 2 feet). • The daylight factor at the front of the room is around 6%, and it is around 2% at the back of the room. • We conclude that the photosensors need to be recalibrated. A more detailed study would be necessary to estimate levels of calibration, setback points, and estimated energy savings. • Another study could have looked at how much light the light fittings added to the room. 		