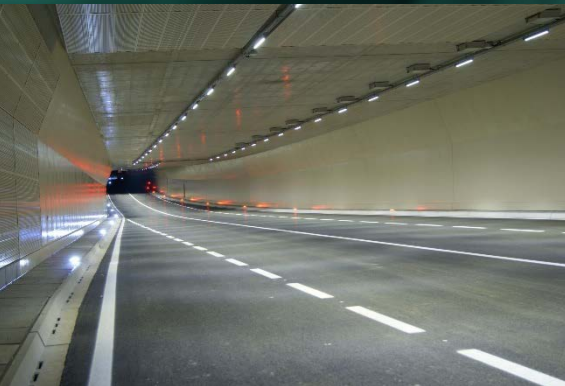
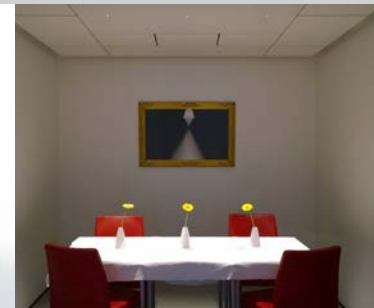
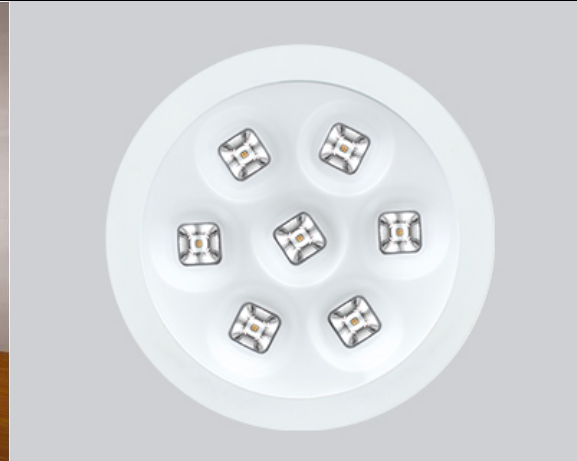
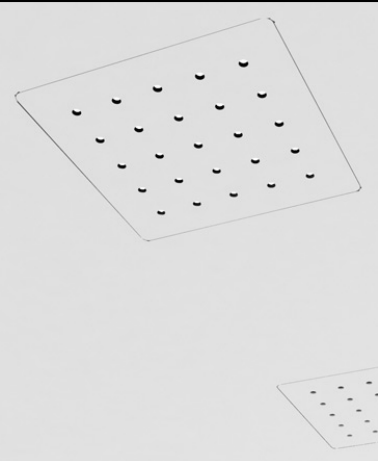


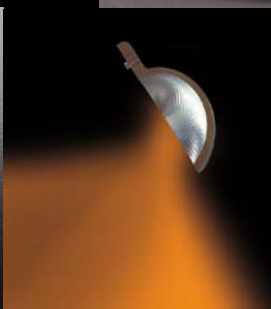
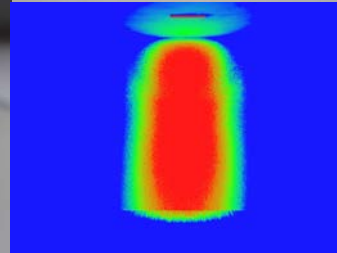
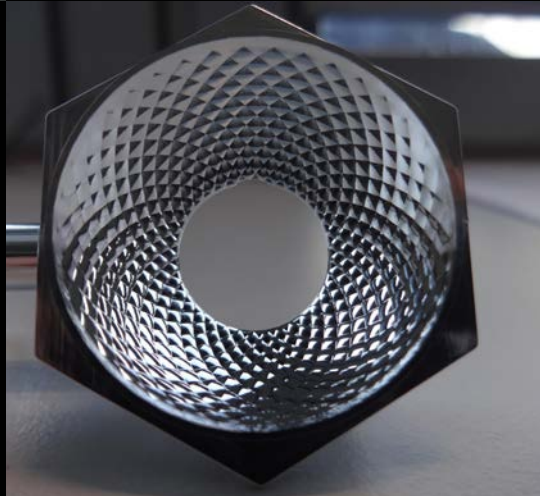
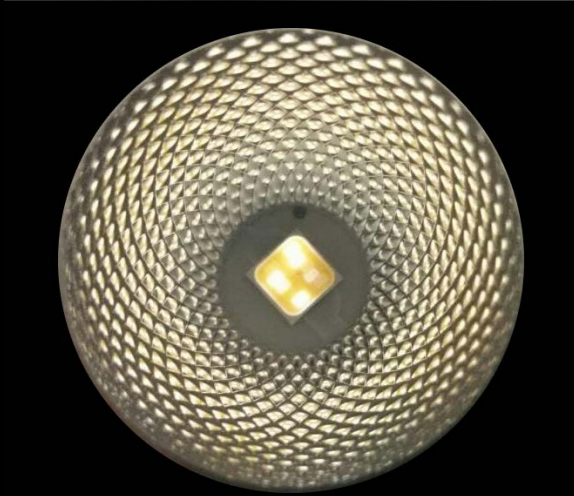
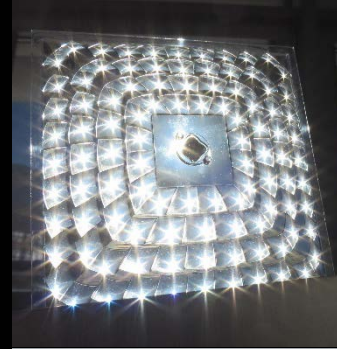
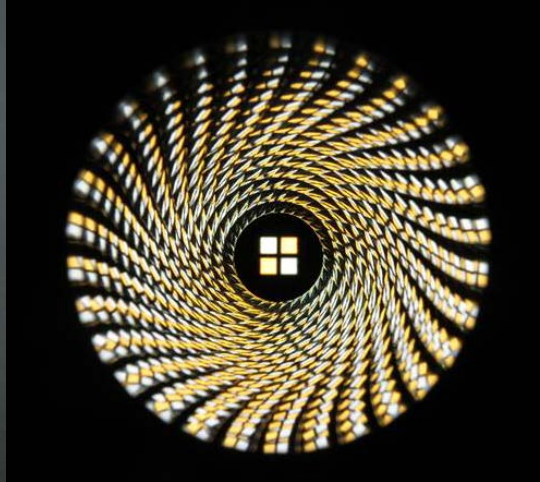
FLICKER - DEMONSTRATION

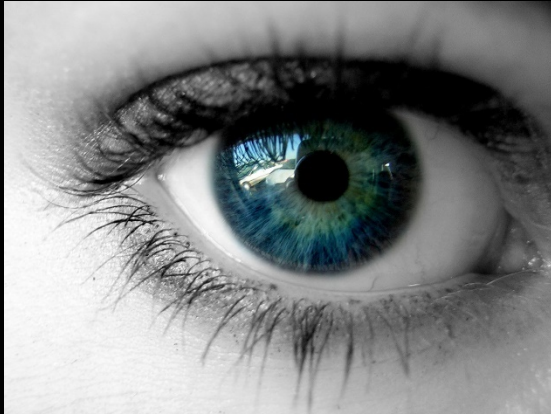
**Herr Mag. Wilfried Pohl
Bartenbach**

Bartenbach[®]
research & development

Bartenbach 
research & development

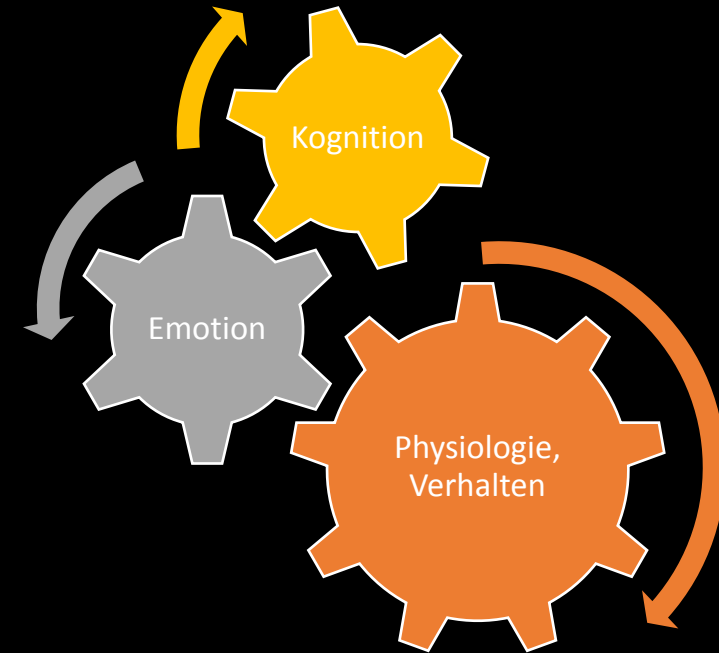




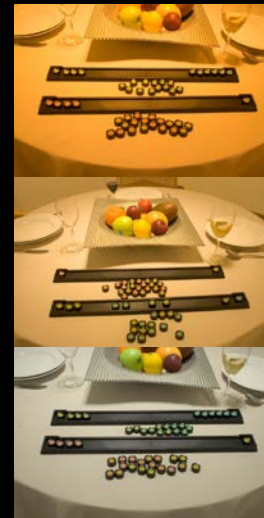


Visual light effects

Non-visual light effects



More than 10
clinical studies



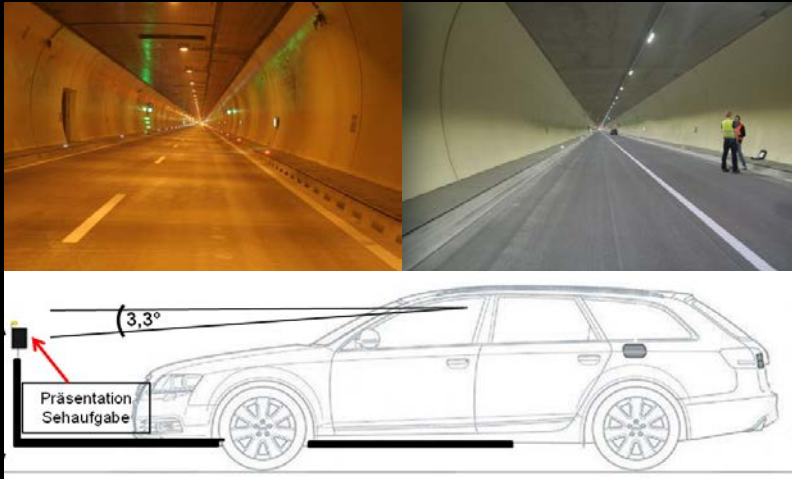
Acceptance Studies/
Spectral Quality



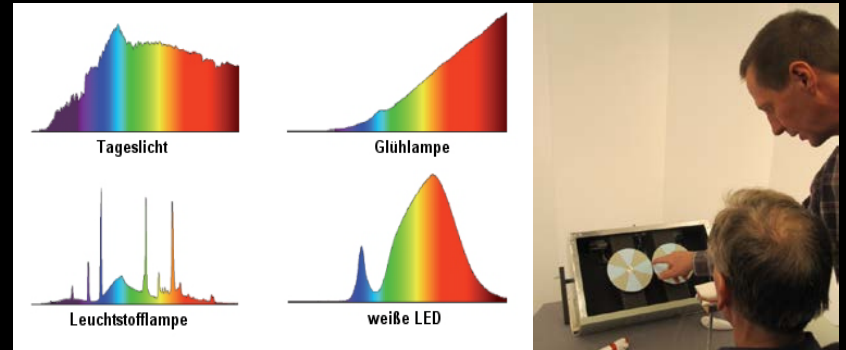
**Development
of a novel
device for light
therapy**



Illuminations for elderly people



**Safety aspects of tunnel lighting with
newly developed measuring methods**



Spectral Quality



Night Shift Study

Puerperal Ward: mothers & neonates



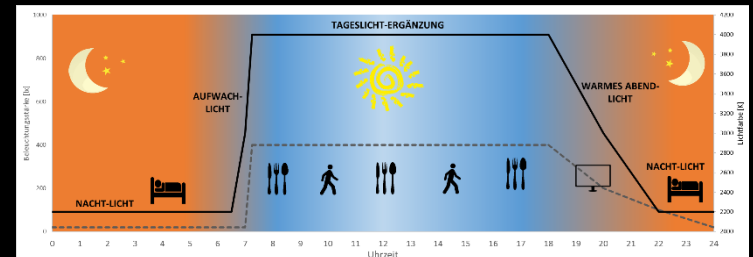
Biodynamic Illuminations – Human Centric Lighting

light health



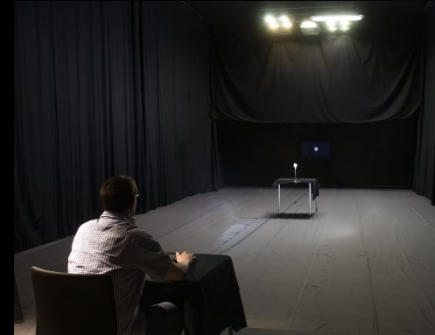
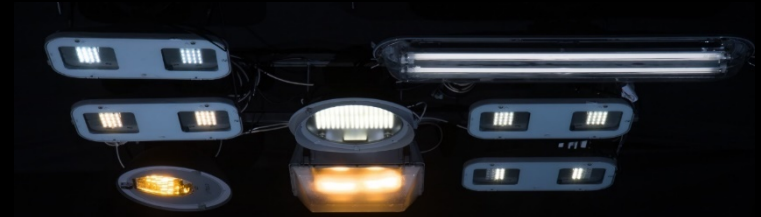
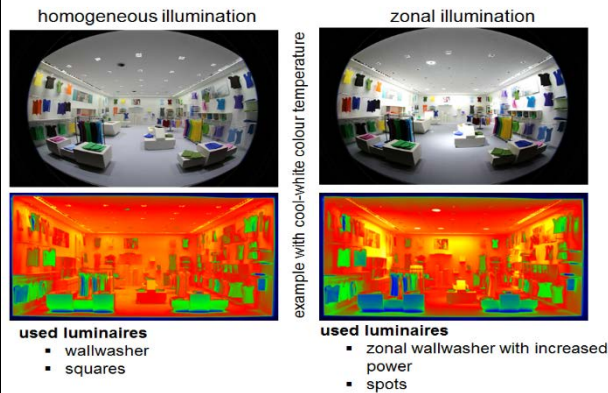
**LivingLab:
Bartenbach Office**

**Psychiatric
Hospital
Hall**





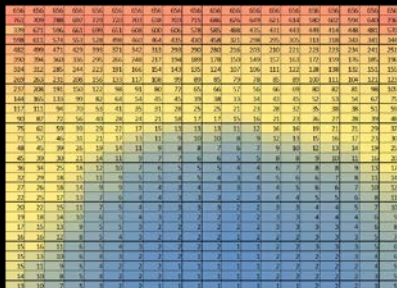
Energy Efficient Shop Illuminations



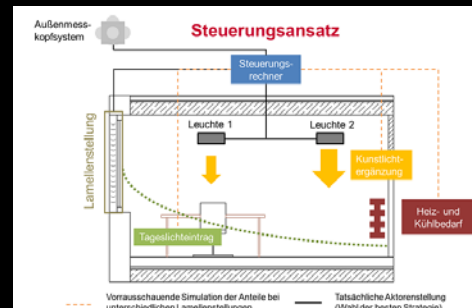
Street Lighting: Glare



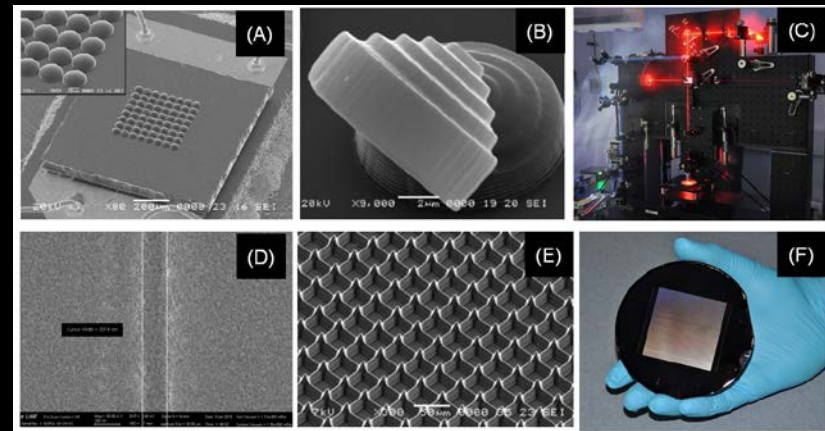
Measuring Road Reflectances



Smart Lighting Controls

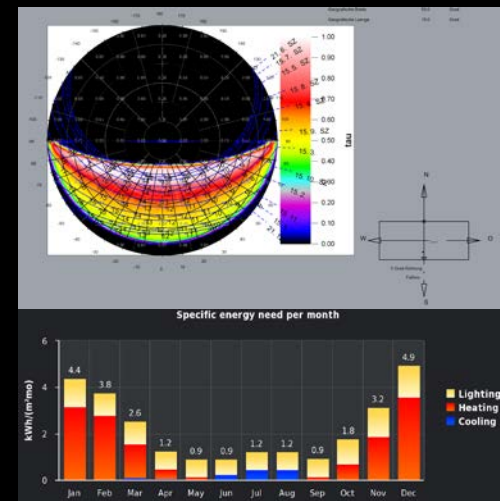


Micro- and Nanostructures for Optics

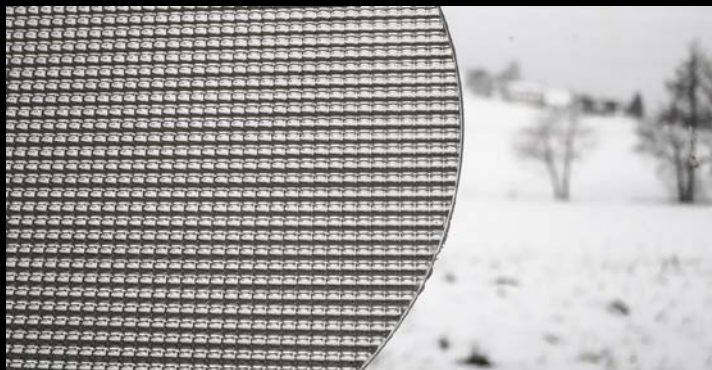




Energy Calculation with Day- and Artificial Light (DALEC)

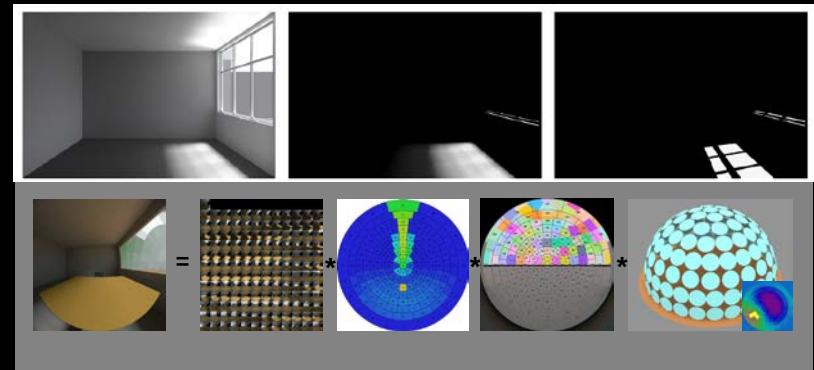


Feasibility Studies and Consulting



Development of new Daylighting Systems with Free Form Surfaces

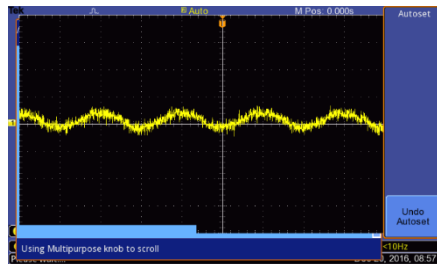
Calculation, Simulation and Measuring Methods



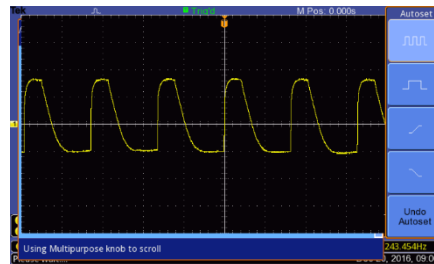


Was ist Flicker?

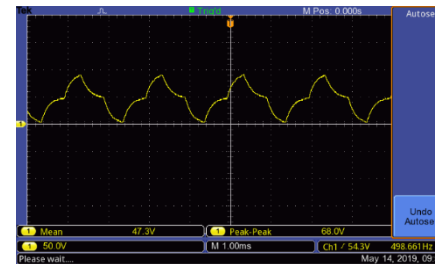
Ripple
Restwelligkeit



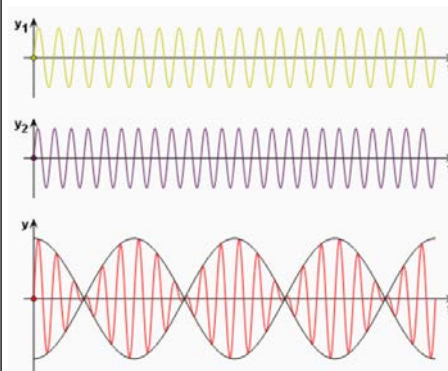
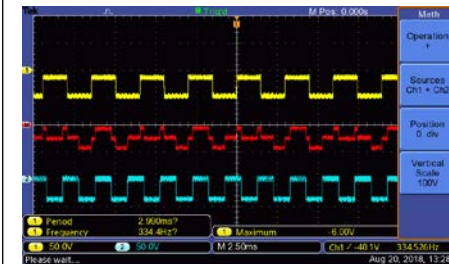
Flicker
Dimmung



Schwebung
Überlagerung
mehrerer
Frequenzen

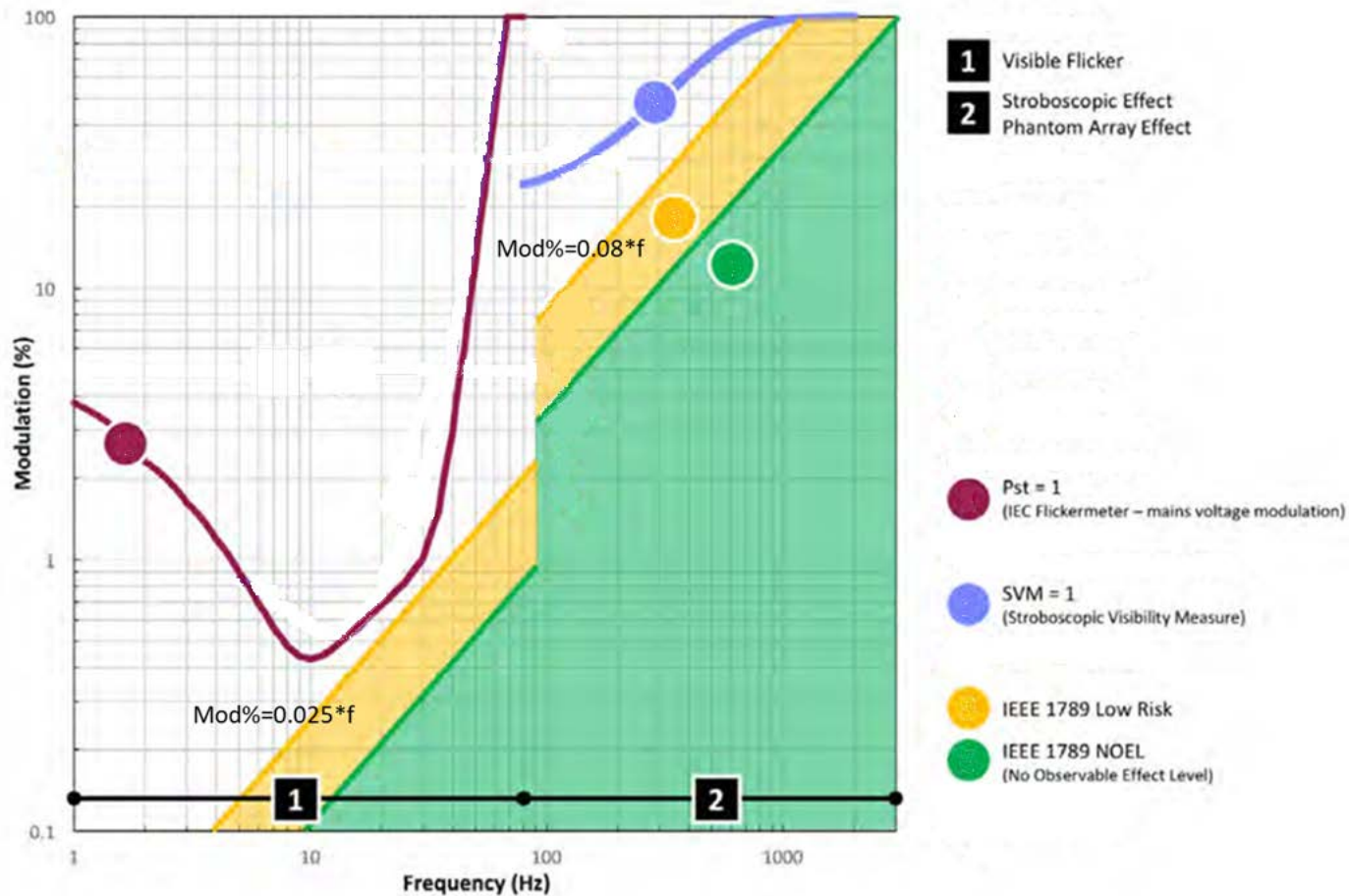


Chromatic-Flicker
Farbflicker



Metrics and Recommendations

(e.g. IEEE PAR 1789, CIE TN 006:2016, IEC TR 63158:2018)



Demonstrator

