Give Me The Light!

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Course De

This course was developed to help ophthalmic proof light and how various lens materials and treatme patient's sight, both indo

Let's Talk Light

- · How important is light to you?
- Can you have sight with no light or vision with no light?
- Subjective vs. Objective Impressions of Light
- What happens if there is no light?



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rofessionals better understand the importance nents are designed to protect and preserve our doors and outdoors.	
doors and outdoors.	

HOW COMFORTABLE ARE YOU IN THE DARK?	
WHEN THE EYE ENCOUNTERS LIGHT	
IT CHANGES THE SPEED IT CHANGES THE DIRECTION IT CHANGES THE AMOUNT	
Three Aspects of Vision	
 Light must enter the eye and pass through four distinct parts*. The retina must react to the light. 	
The brain must construct a subjective interpretation of sight. Subjective vs. Objective	
There is a difference between the brain's subjective impressions and the physical properties of sight.	

Have You Seen Her Before?

There is a difference between the brain's subjective impressions and the physical properties of sight.

- •We don't see wavelengths, we see the brain's subjective impression
- •Color only exist in our minds
- •We all have seen this once or twice while out in a dimly lit space



What do we have here?

Cosmic rays

X-Rays

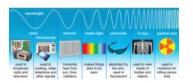
Ultraviolet

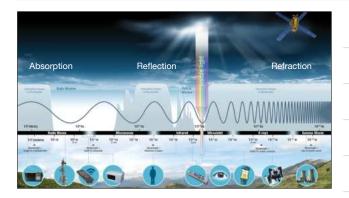
Visible light 380-760 nm

Infra-red

Radar

Radio/TV







HOW DOES THE SUN MAKE YOU FEEL?







Put your phone down and enjoy yourself!



MATERIAL MATTERS!



LET'S TALK GLARE

DIRECT AND INDIRECT

TWO MAIN FORMS OF GLARE

DISABLING

DISCOMFORTING

Anti-Reflective Coating

- •Reduce reflections
- •Enhance clarity
- •Improve light transmission
- •Enhance contrast
- •Better night vision
- Aesthetically appealing



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POLARIZED LENSES

WHAT IS POLARIZATION AND HOW DOES IT WORK?

UV BLOCKING AND POLARIZED ARE NOT THE SAME THING.

WHEN DO YOU USE POLARIZED SUNGLASSES?

WHAT ARE SOME SPECIFIC SITUATIONS WHEN POLARIZED LENSES ARE MORE HELPFUL?



Tints, Mirrors & UV I love tints!

- Do Not Stare at the SUN!
- Photokeratitis
- Fashion
- EYEdentity
- Mood
- · Size matters, color, not so much



PHOTOCHROMIC TECHNOLOGY

Pros: Convenient, Continuous UV protection, Save money, Easy to keep up with your eyewear, Various styles and colors

Cons: All brands are not the same, lenses can take longer to adjust in cold weather, car windshield and roof



I think it's time for the 20-20-20 rule!





THANK YOU Q & A