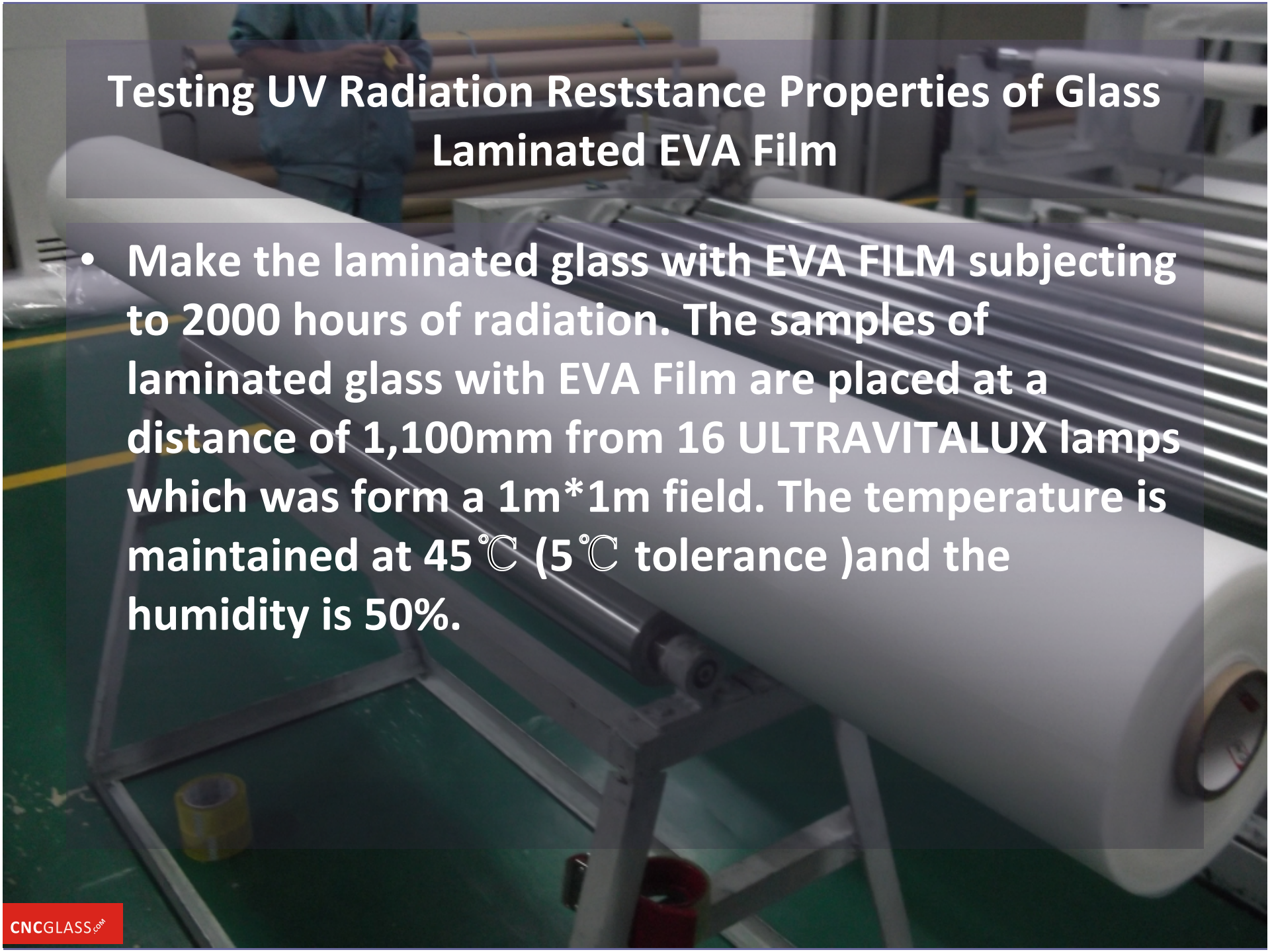
Testing UV Radiation Reststance Properties of Glass Laminated EVA Film



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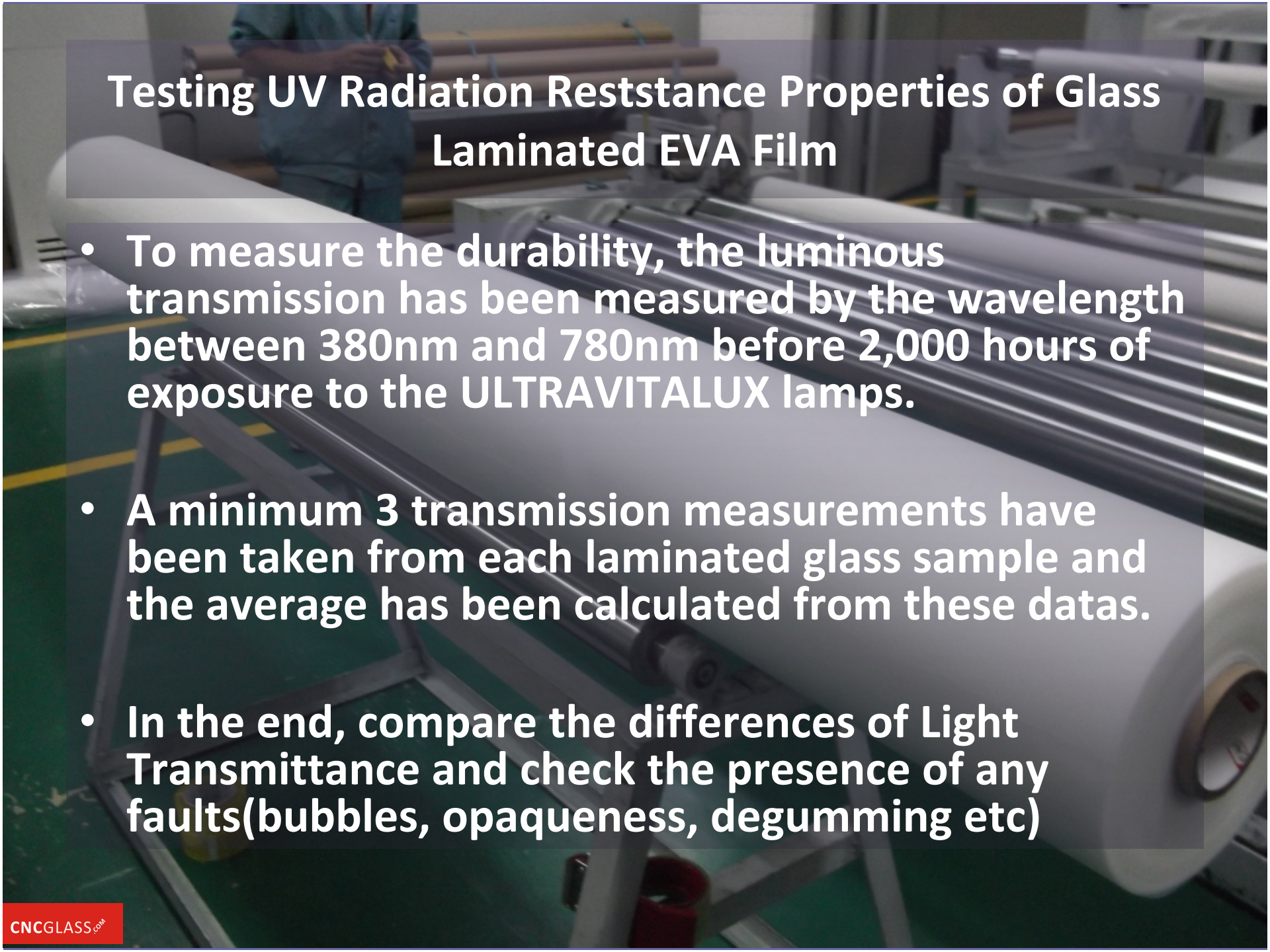
- Make the laminated glass with EVA FILM subjecting to 2000 hours of radiation. The samples of laminated glass with EVA Film are placed at a distance of 1,100mm from 16 ULTRAVITALUX lamps which was form a 1m*1m field. The temperature is maintained at 45℃ (5℃ tolerance)and the humidity is 50%.



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- To measure the durability, the luminous transmission has been measured by the wavelength between 380nm and 780nm before 2,000 hours of exposure to the ULTRAVITALUX lamps.

- A minimum 3 transmission measurements have been taken from each laminated glass sample and the average has been calculated from these datas.

- In the end, compare the differences of Light Transmittance and check the presence of any faults(bubbles, opaqueness, degumming etc)

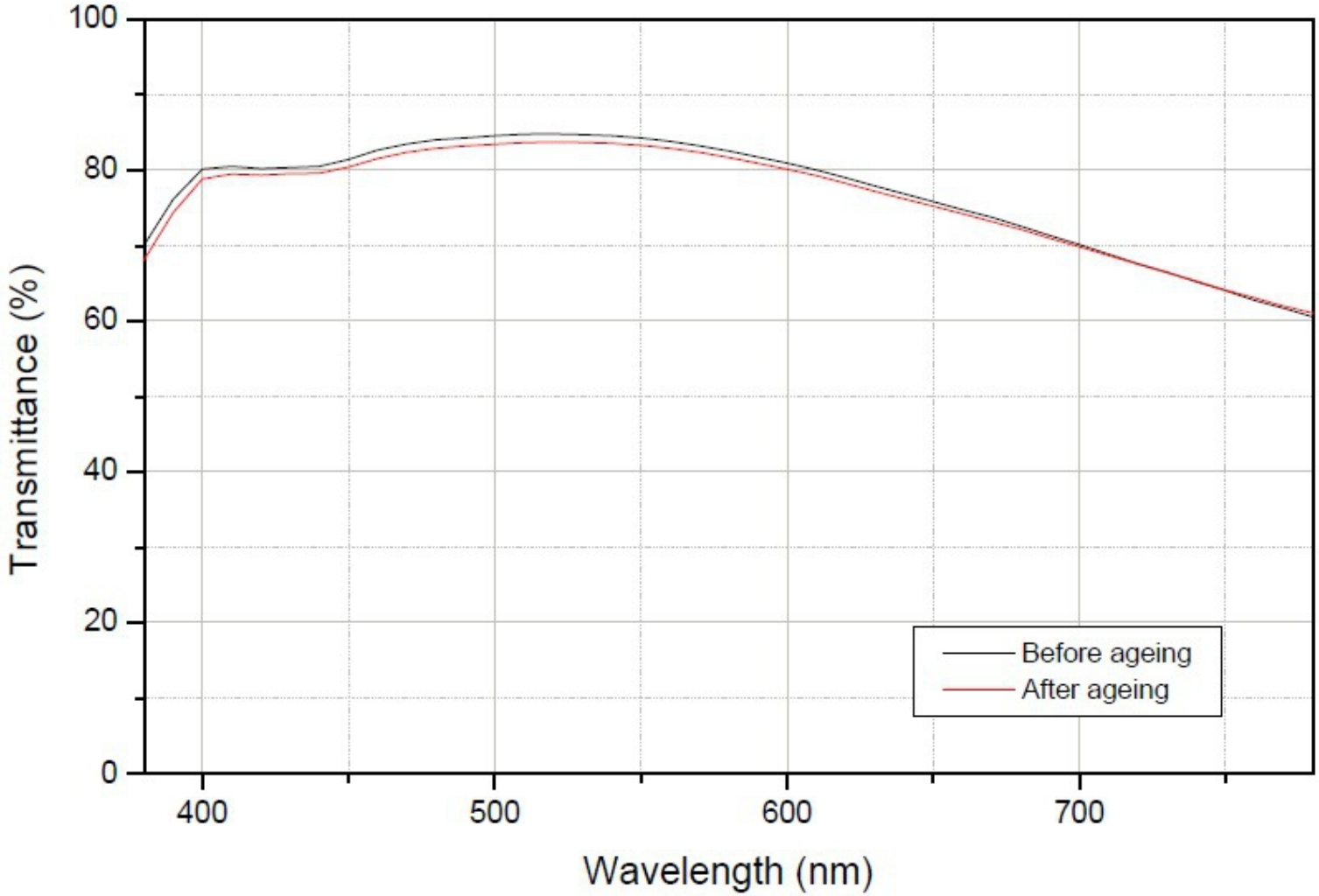
Light Transmittance Before and After UV Exposure

CNC EVA FILM LAMINATED GLASS SAMPLES	LIGHT TRANSMITTANCE %	
	0 Hours of exposure to UV radiations	2,000 Hours of exposure to UV radiations
SAMPLE 1	83.0	82.1
SAMPLE 2	83.8	83.7
SAMPLE 3	84.3	84.1

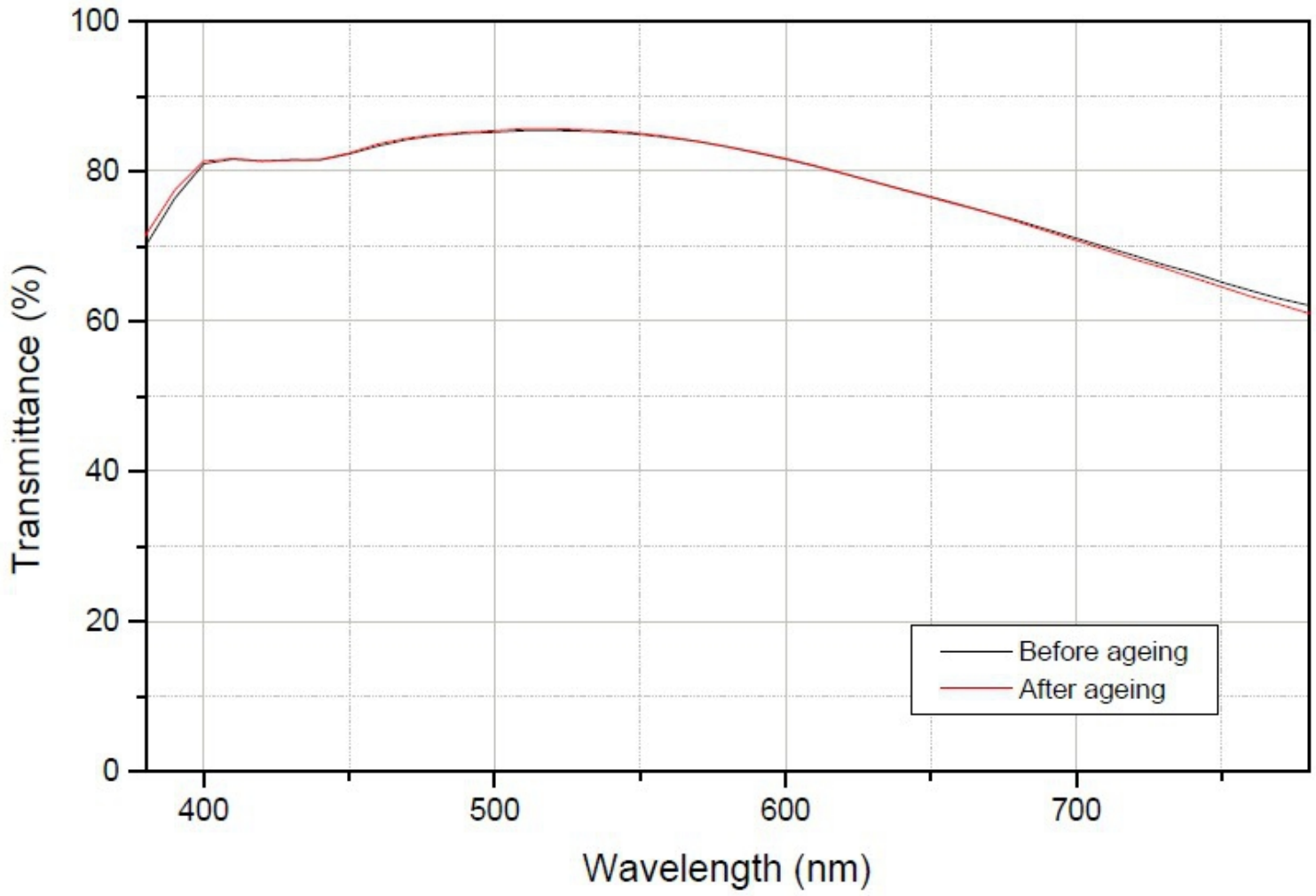
Light Transmittance Before and After UV Exposure

CNC EVA FILM LAMINATED GLASS SAMPLES	LIGHT TRANSMITTANCE % Difference	
	0 Hours of exposure to UV radiations	2,000 Hours of exposure to UV radiations
SAMPLE 1	1.1	
SAMPLE 2	0.1	
SAMPLE 3	0.2	

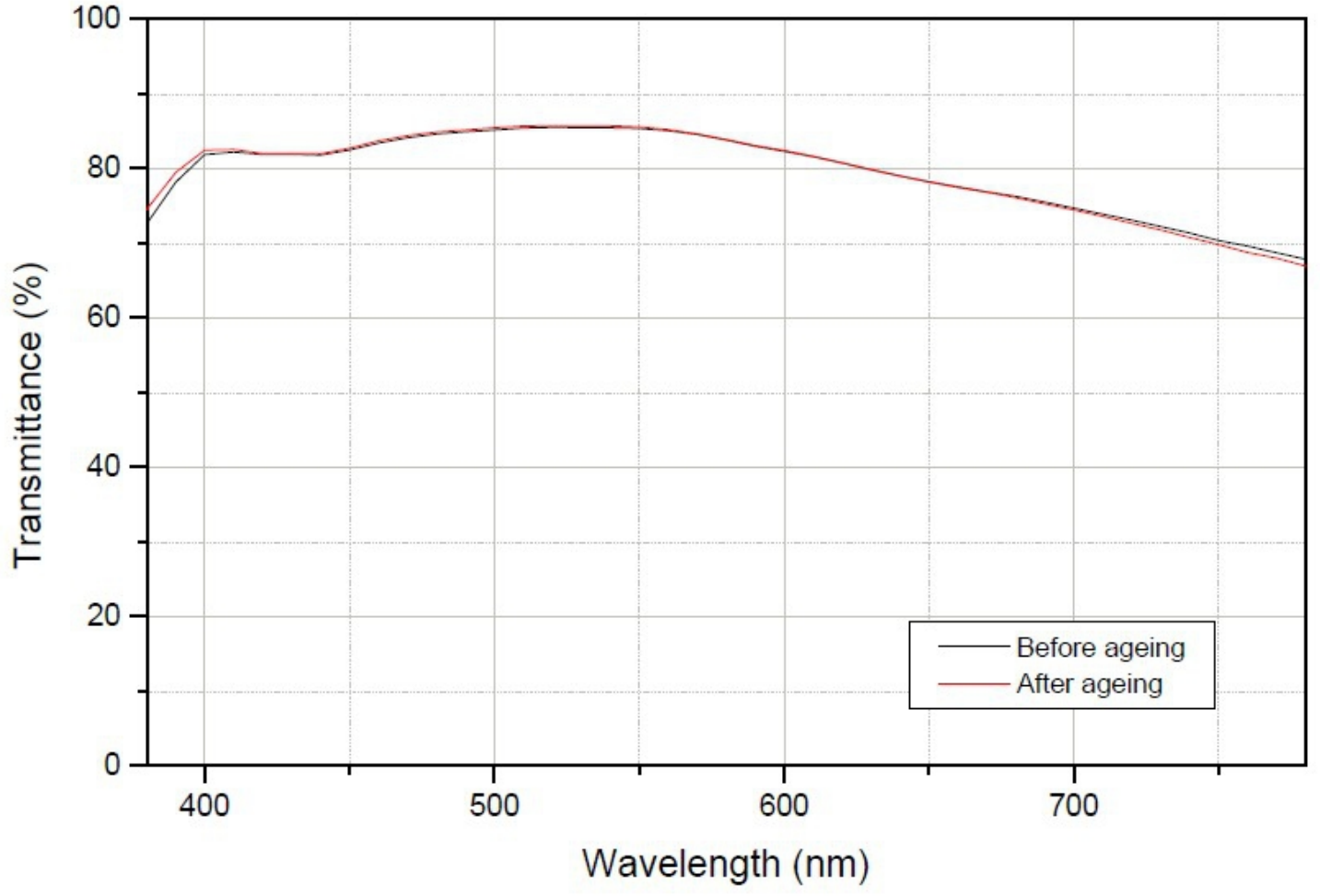
Transmission Spectrum of CNC EVA FILM LAMIANTED GLASS SAMPLE 1

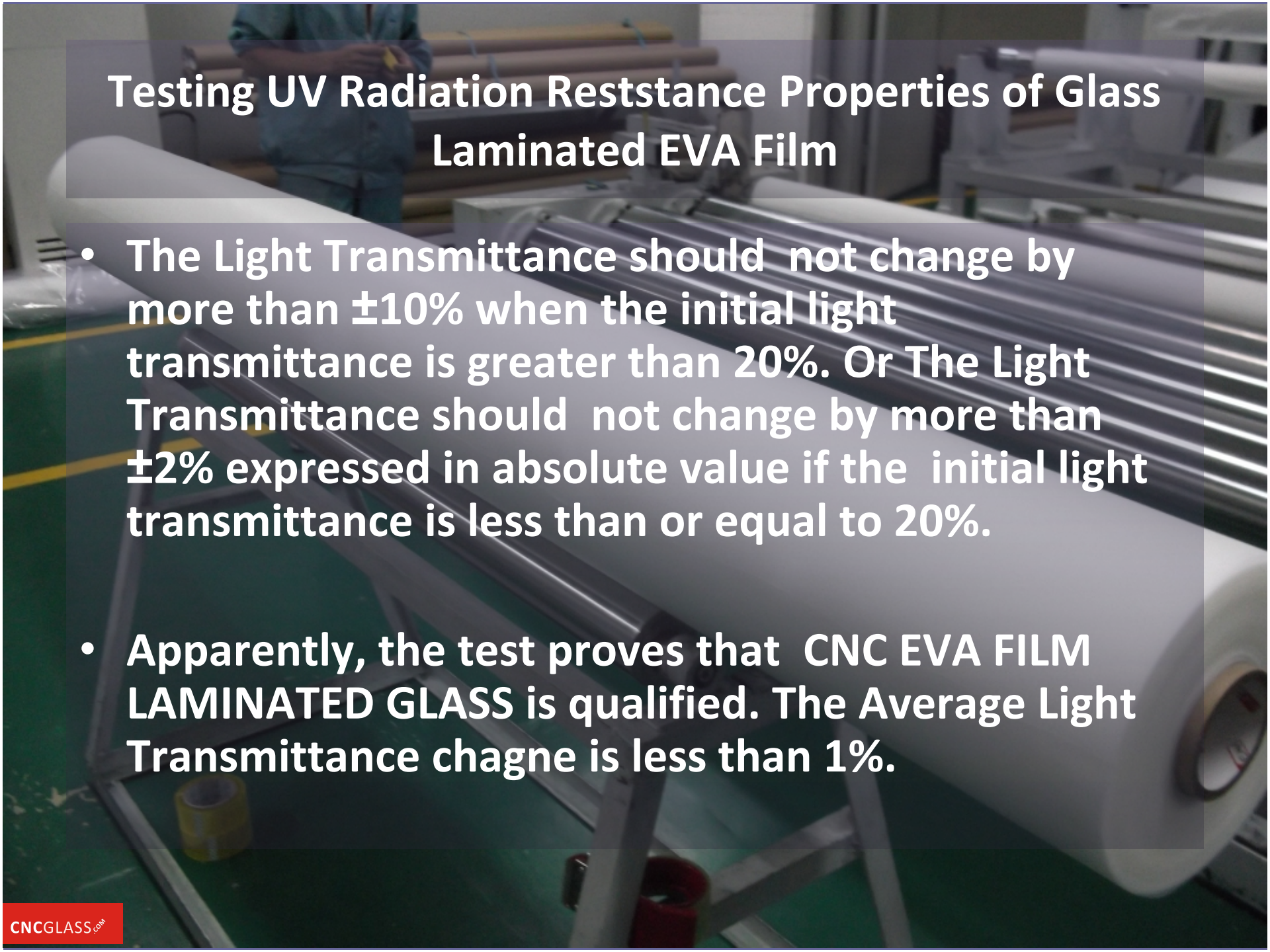


Transmission Spectrum of CNC EVA FILM LAMIANTED GLASS SAMPLE 2



Transmission Spectrum of CNC EVA FILM LAMIANTED GLASS SAMPLE 3





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- The Light Transmittance should not change by more than ±10% when the initial light transmittance is greater than 20%. Or The Light Transmittance should not change by more than ±2% expressed in absolute value if the initial light transmittance is less than or equal to 20%.

- Apparently, the test proves that CNC EVA FILM LAMINATED GLASS is qualified. The Average Light Transmittance chagne is less than 1%.

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- CNC GLASS INTERLAYER TECH WWW.CNCGLASS.COM
- CNC@CNCGLASS.COM BENEXT77@GMAIL.COM
- 008615013829504 Skype: CNEXT365 Wechat: WECAN365 Line: CNCGLASS

- EVA FILM FOR LAMINATED GLASS
- PVB FILM FOR LAMINATED GLASS
- PDLC FILM FOR SMART GLASS
- GLASS HARDWARES FOR GLASS FIXING SYSTEM

CNCGLASS EVA FILM INTERLAYER TECH

Peter Lin
CNC@CNCGLASS.COM

CNCGLASS EVA FILM INTERLAYER TECH