



# Eyesafe® Accessory Requirements

The RPF number is identified per the TUV's RPF Blue Light Standard as a factor (percentage number between 0-100) to quantify the performance of reduction of blue light hazard of a standard display product.

RPF Certification for Accessory	Shift of CCT	Luminance Reduction
RPF15	≤250K	≤20%
RPF20	≤350K	≤20%
RPF30	≤500K	≤20%
<b>Notes</b>		
<p>RPF Level = <math>100 * (LB \text{ without} - LB \text{ with}) / LB \text{ without}</math>, in which LB without: is the blue light hazard weighted irradiance calculated without film; LB with: is the blue light hazard weighted irradiance calculated with the film.</p> <p><math>LB = \sum L(\lambda) \times B(\lambda) \times \Delta \lambda</math> <math>L\lambda = E\lambda(\lambda, t)</math> is the spectral irradiance in <math>W/m^2/nm^{-1}</math> <math>B(\lambda) =</math> Blue-Light Hazard Function (see attachment extract from ICNIRP Guidelines <a href="http://www.icnirp.org/cms/upload/publications/ICNIRPVisible_Infrared2013.pdf">http://www.icnirp.org/cms/upload/publications/ICNIRPVisible_Infrared2013.pdf</a></p> <p><math>\Delta \lambda = 1</math></p>	<p>The application of the solution will reduce the blue content and lead to a display color temperature deviation and luminance reduction within an identified range. The performance of the solution shall not lead to a color temperature shift more than allowed limits.</p>	<p>The luminance reduction should be less than 20%.</p>

For more information about Eyesafe® Standards, Certification, and partner guidelines, please visit [eyesafe.com](http://eyesafe.com). For questions regarding this document, contact [standards@eyesafe.com](mailto:standards@eyesafe.com)