**Laboratory 6**

**Introduction to Colorimetry**

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**2. Plotting Color Matching Functions and Illuminants**

2.1. The plot of the x0(λ), y0(λ), and z0(λ) color matching functions

A graph of a color matching function

Description automatically generated

2.2. The plot of the l0(λ), m0(λ), and s0(λ) color matching functions

A graph of a color matching function

Description automatically generated

2.3. The plot of the D65 and fluorescent illuminants

A graph of blue and orange lines

Description automatically generated

**3. Chromaticity Diagrams**

3.1. Hand in your labeled chromaticity diagram.

A diagram of a diagram

Description automatically generated

**4. Rendering an Image from Illuminant, Reflectance, and Color Matching Functions**

4.1. The matrix M709\_D65.

4.2. The two images obtained from D65 and fluorescent light sources.

A young child with painted face

Description automatically generated

A young child with a painted face

Description automatically generated

4.3. A qualitative description of the differences between the two images

The brightness of the image derived from fluorescent is brighter than the image obtained from D65, particularly in the left side of the face of the girl.

**5. Color Chromaticity Diagram**

5.1. Hand in your color diagram

A diagram with a triangle

Description automatically generated with medium confidence