



LumaticLAB LUT Analysis Report

Tooltip Library

Reference | Version 1.11

File and viewing controls

Control	Tooltip or accessible description
LUT file	Load a common 1D or 3D cube LUT for local analysis.
Photograph	Add an optional photograph for the before and after comparison.
Black background	View the interface against black without changing the exported report.
50% grey background	View the interface against neutral mid-grey without changing the exported report.
White background	View the interface against white without changing the exported report.
Clear photo	Remove the selected photograph and restore the LumaticLAB test card.

Report and enlargement controls

Control	Tooltip or accessible description
Export PNG	Download the current 1920 by 1080 infographic.
Print or save PDF	Open the browser print dialogue for the four-page A4 portrait report.
Save AI Prompt	Open the measured tonal and colour breakdown with Copy and Download TXT actions.
Save LUT info	Open the master CSV catalogue and interim-output controls.
Show written analysis	Reveal tonal, chroma, skin-tone, palette, prompt and keyword details below the infographic.
Infographic areas	Click, tap or right-click tonal, colour or comparison areas to open the enlarged viewer.
Curtain slider	Reveal the original image on the left and the processed image on the right.



Save LUT info controls

Control	Tooltip or accessible description
Type	Choose a consistent category for sorting and filtered exports.
Custom Type	Enter a memorable category of no more than 30 characters.
Your entry	Add an optional note of no more than 30 characters.
New CSV	Create a new master CSV with the required v1.11 columns.
Open CSV	Open a v1.11 master catalogue for additional entries or filtering.
Add entry	Append the analysed LUT and selected Type to the open master catalogue.
Type filter	Show all catalogue entries or only entries matching one Type.
Entry count	Show matching entries and the total number of master-catalogue entries.
Export filtered CSV	Download the current subset without changing the master catalogue.

Tone curve graph

The tone curve plots input luma horizontally and LUT output luma vertically. The pale diagonal represents an unchanged response. A curve above that diagonal lifts the affected tones; a curve below it darkens them. A steeper section increases local tonal separation, while a flatter section compresses differences and can soften detail. The lower endpoint describes the black floor, the centre indicates midtone placement, and the upper endpoint describes peak white and highlight roll-off. A plateau near either end can indicate clipping or strong compression. The graph is calculated from 101 neutral RGB samples and relative luma, so it describes the LUT itself rather than the histogram or dynamic range of a particular photograph. Channel interactions may make coloured subjects respond differently from the neutral curve.



Infographic analysis areas

Area	Tooltip or accessible description
Chroma diagram	Compare nine reference-colour input and output positions in CIE 1931 xy space. Direction indicates destination; distance indicates displacement.
Skin-tone analysis	Compare eight synthetic skin-tone references after the LUT. Confirm the result on varied real portraits.
Palette check	Compare eight named colours and a ten-step neutral ramp after transformation.
Before and After	Compare the original test card or photograph with the LUT applied at full strength.
Tone summary	Name the measured luma profile and its principal midtone behaviour.
Cast summary	Name the practical neutral-grey colour bias.
Chroma summary	Name the overall colour-movement strength and the largest reference-colour shift.