MacBook Pro Display Profiling - Quick Reference

For Calibrite PROFILER with Display Pro HL / Display Plus HL on Apple built-in displays (XDR and non-XDR).

1) Identify your display and choose Technology Type

If your Mac shows this in About This Mac > More Info...	Choose this Technology Type	Notes
Liquid Retina XDR Display (M1 Max, M2, M3, M4, M5 MacBook Pro)	Mini LED	Mini LED is available only with Display Pro HL and Display Plus HL.
Standard non-XDR Retina Display (e.g., standard M1 MacBook Pro)	PFS Phosphor	Use when the display is not listed as Liquid Retina XDR Display.

2) Pre-flight checklist (do this every time)

■ Connect laptop to power (required for consistent luminance).

■ Apple Menu > System Settings > Displays: turn OFF Automatically adjust brightness, True Tone, and Night Shift.

■ Presets: select the default Apple XDR Display... or Apple Display... preset (avoid custom presets that can lock Brightness).

■ If using multiple monitors: use Extended Desktop (not mirrored) while calibrating. You can re-enable mirroring afterward.

3) Recommended workflow (Advanced + 211 Patches)

1. Plug in Display Pro HL, open calibrite PROFILER.

2. Monitor: select Advanced, click Next.

3. Select Technology Type (Mini LED for Liquid Retina XDR Display; otherwise PFS Phosphor). Preset: Photo. Click Next.

4. Patch Set: click Patch Set icon (top Progress & Review bar) and choose Advanced - 211 Patches. Click Next.

5. Optional: Save Preset and name it 211 Patches for faster setup next time.

6. Start Measurement: check ONLY Brightness. Uncheck RGB and Uncheck Contrast.

7. Adjust Brightness to hit the Luminance target (default 120 cd/m2), then continue patch measurements.

8. Finish, then save the ICC profile. Set Profile Reminder as desired (monthly recommended; choose None to disable).

4) Targets and screen-to-print matching

Standard targets: White Point D65 (6500K), Gamma 2.2, Luminance 120 cd/m2 (Photo preset defaults).

If prints look darker than the screen, lower Brightness for better matching. For future calibrations you can set a lower luminance target (100, 90, or 80 cd/m2) by clicking the Luminance icon in the Progress & Review bar.

Resources

Backlight technology guide: calibrite.com/us/learning-centre/selecting-the-correct-backlight-technology/

Calibrite workflow videos: youtube.com/@Calibrite/videos