

CalMAN 5 CalMAN Enthusiast for Home Video

Introduction Simulated Meter LCD Direct View Source Direct Display Control Navigation Bar INT Intro

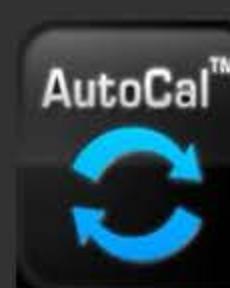
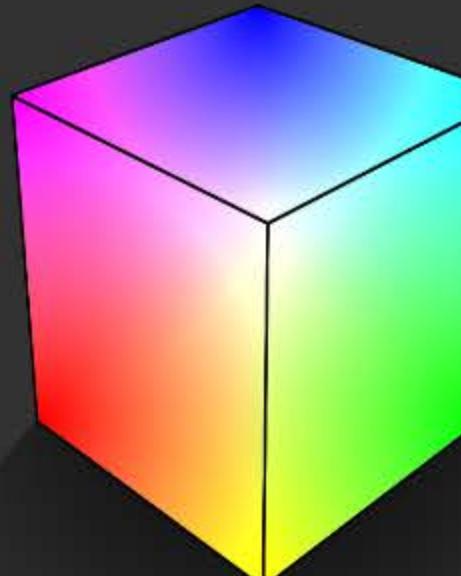
Welcome to the HT Enthusiast Extended Workflow v11.2.0

Featuring ...

- ▶ Home layout outlines the workflow structure with full access
- ▶ Comprehensive notes management
- ▶ Integrated session setup and hardware configuration layout
- ▶ Single layout takes all desired Pre- or Post-calibration readings
- ▶ Expanded Multi-Point Grayscale calibration and pre/post-cal chart & datagrid layouts
- ▶ Detailed Saturation Sweep calibration and pre/post-cal chart & datagrid layouts
- ▶ Detailed Gamut Luminance calibration and pre/post-cal chart & datagrid layouts
- ▶ Detailed Color Check calibration and pre/post-cal chart & datagrid layouts
- ▶ 3D Color Cube LUT calibration chart & datagrid layouts
- ▶ High-count calibration points friendly

Also featuring navigation for the Mouse Lazy ...

- ▶ Navigation bar shows where you are and takes you where you want to go
- ▶ Calibration scheduling function is integrated with the Nav Bar Next/Back buttons
- ▶ Toggle buttons switch between complementary layouts with one click:
 - between the Calibration layouts and their corresponding Datagrid
 - between the Pre-Calibration Readings and Post-Calibration Readings
 - between corresponding Pre-Calibration and Post-Calibration Details
 - between corresponding Post-Calibration Details and Datagrids
 - and more!



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Workflow Description + Simulated Meter LCD Direct View Source Direct Display Control Nav Bar

WORKFLOW OVERVIEW

The HT Enthusiast Extended Workflow aims at providing all the possible calibration options in an accessible user-friendly manner. The workflow is divided into four sections or zones with a corresponding color for the three working zones.

- 1) **Introduction:** Provides general information about the workflow and its features
- 2) ► **Preparation Zone:** Enter session setup information and plan the session calibration strategy, take pre-calibration readings for reference, plan the dynamic aspects of the session (contrast, brightness, etc.)
- 3) ► **Calibration Zone:** Contains the calibration layouts with matching datagrids, and the post-calibration readings layout for all views except the 2-Point Grayscale and 3D Color Cube LUT
- 4) ► **Analysis Zone:** Has detailed charts and datagrids for all views in the pre- and post-calibration states (except the 3D Color Cube LUT which feeds off the calibration layout) and a final check layout for dynamic range fine-tuning with a session summary

ACTIVE CALIBRATION VIEWS

- 2-Point Grayscale
- Full multi-point Grayscale
- Gamut Saturation Sweeps, also used for basic CMS calibration
- Gamut Luminance
- Color Checker
- 3D Color Cube LUT for supported hardware

All active calibration layouts except 2-Point Grayscale have corresponding detail datagrid layouts. You can access them with the ↑ Data buttons.

ANALYSIS CHARTS

Except the 2-Point Grayscale and 3D Color Cube LUT, there are pre-calibration and post-calibration detail chart layouts for each calibration view. You can toggle between them by clicking the ↑ PreCal or ↑ PstCal button in the Nav Bar (they super-impose when the layout switches so just keep clicking to go back and forth). Other ↑ buttons in the Nav Bar perform similar toggling duties.

Unlike in the other color views, the CIE chart in the Color Checker pre- and post-calibration chart layouts is a display option accessible by checking the CIE Chart control.

Except for the 2-Point Grayscale there are Analysis datagrid layouts with both pre- and post-calibration data for each active calibration view. You can access them using the ↑ Data buttons with a similar toggle arrangement as the ↑ PstCal button.

KEY LAYOUTS

Home - has a layout map for getting the lay of the land and a fully loaded navigation matrix for access to all layouts.

Session Setup - Integrates calibration options, initial settings & notes, and hardware/device configuration.

Pre-Calibration Readings, Post-Calibration Readings - these identically configured layouts are master controls for the pre- and post-calibration states with combined and selective reading of all views. They feed all the detail charts and datagrids. You can toggle between the pre- and post-cal reading layouts, and between a reading layout and its corresponding detail layouts, in the Nav Bar (↑ PreCal and ↑ PstCal) and the explicit toolbar buttons.

Final Check - Analyzes and fine-tunes the dynamic range aspect and provides a comprehensive calibration summary.

NAVIGATION BAR

Displays the normal layout sequence with instant access across views and zones

INT

Nav Bar

Go Back

Home

Go Back

Current Layout Context

Next / Back in workflow sequence and / or buttons for navigation to related layouts

Go Back

Intro

Other

ScUni ← Context navigation → **Setup**

Normal workflow sequence

Datagrid **Other**

Gray **2-Pnt** ← Context navigation → **Gray**

Satur **Satur**

Lumi **Lumi**

C Chk **C Chk**

3d Cb **3d Cb**

PostCal Read

Analyze

Datagrid **Pre-Cal**

Gray **Gray** ← Context navigation → **Gray**

Satur **Satur**

Lumi **Lumi**

C Chk **C Chk**

Post-Cal

3d Cb Cal

Final Check

Analysis Nav Bar and Next / Back buttons follow current view:

Post-Cal, Pre-Cal or Datagrid

3D Cube LUT charts from Calibration navigate via Post-Cal

Navigation Bar → ←

PreCal Read **Session Setup**

Home **Notes Mgmt**

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Introduction: Home

Simulated Meter LCD Direct View Source Direct Display Control

Nav Bar INT Home

Back Next Intro

Workflow Layout Structure

– Introduction –

→ Prepare ←
↓ Calibrate ↑
← Analyze →

CalMAN 5

▶ Preparation (PRP)

- 1 ► Session Setup → Screen Uniformity
- 2 ► Pre-Calibration Readings (feeds Pre-Cal charts)
- 3 ► Dynamic Range Analysis

▶ Calibration (CAL)

- 4 ► 2-Point Grayscale Calibration
- 5 ► Multi-Pt Grayscale Calibration → Datagrid
- 6 ► Saturation Sweeps Calibration → Datagrid
- 7 ► Gamut Luminance Calibration → Datagrid
- 8 ► Color Checker Calibration → Datagrid
- 9 ► 3D Color Cube LUT Calibration (feeds Detail Charts 15) → Datagrid
- 10 ► Post-Calibration Readings (feeds Post-Cal charts)

For basic CMS Gamut calibration use
Saturation Sweeps set to 75% or 100% Only

Datagrid	Other
M-Pnt	2-Pnt
Satur	Satur
Lumi	Lumi
C Chk	C Chk
3D Cb	3d Cb
Detail	
PostCal Read	
Datagrid	Pre-Cal
Gray	Gray
Satur	Satur
Lumi	Lumi
C Chk	C Chk
Post-Cal	
3d Cb	Cal
Final Check	
Home	

▶ Analysis (ANL)

- 11 ► Multi-Pt Grayscale Post-Cal Charts → Pre-Cal Charts → Datagrids
- 12 ► Saturation Sweeps Post-Cal Charts → Pre-Cal Charts → Datagrids
- 13 ► Gamut Luminance Post-Cal Charts → Pre-Cal Charts → Datagrids
- 14 ► Color Checker Post-Cal Charts → Pre-Cal Charts → Datagrids
- 15 ► 3D Color Cube LUT Calibration Detail Charts (2 tabs)
- 16 ► Final Check – Fine Tune the Dynamic Range

PreCal Read Session Setup

Back Notes Mgmt

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Session Setup Help +

Session Info More Options

Display • PRO-70X5FD

Setup Notes

(A) Session Options

Calibration Description / Goals

Big ↕

Target Black: 0 Target White: 100 Target Gamma: 1 Luminance Unit: fL DeltaE Formula: d E2000 Stimulus Unit: percent

(B) Display Settings

AV Mode: ISF Day

Color Temp: [] Contrast: 80 Sharpness: [] Brightness: 1 Color: [] Backlight: 17 Tint: [] TV Gamma: -8 Cut: [] Gain: [] Red: [] Green: [] Blue: []

(C) Calibration Plan

For Nav Bar Next / Back, markers

Plan calibrations:

- 2-Pt Grayscale
- Full Grayscale
- Saturation Sweeps
- Gamut Luminance
- Color Checker
- 3D Color Cube LUT

Gamut Coordinates: D65, HD Rec.709

Gamma Formula: ITU BT.1886

Input Level: Video (16-235)

(D) Hardware Configuration

① Meter

Find → Configure

CalMAN Simulated Profile: None

Mode: []

② Source

Find → Configure

Optical player or standalone generator (manual control)

Optical player or standalone generator

Pattern Size: Full 100% Triplet Support: Full Triplets

③ Display / Processor

DDC: None

Find → Configure

Display Slot: [] Data Points: []

(E) Meter Setup

Position the meter as required for (1) projector or (2) flat panel to insure accurate measurements, (3) taking appropriate readings.

③ Readings

Y Max / Min: fL 29.19 / 0

CCT 0 / 6503 Target: 500

① Projector

② Flat Panel

④ Screen Uniformity

Final Check Setup

Notes

Home Next

PRP Setup

Back Next ScUni Prepare ScUni PreCal Read DyRng Calibrate Gray Satur Lumi C Chk 3d Cb PostCal Read Analyze

CalMAN 5 CalMAN Enthusiast for Home Video

Session Setup Help +

Simulated Meter LCD Direct View Source Sharp Elite ISF Day

Nav Bar PRP Setup

Back Next » ↑ ScUni Prepare ↑ ScUni PreCal Read DyRng Calibrate Gray Satur Lumi C Chk 3d Cb PostCal Read Analyze ↓

(A) Session Options

Display • PRO-70X5FD

Session Info More Options

Setup Notes

Calibration Description / Goals

Big ↕

Gamut Coordinates D65, HD Rec.709

Gamma Formula ITU BT.1886

Input Level Video (16-235)

Target Black 0 Target White 100 Target Gamma 1 Luminance Unit fL DeltaE Formula d E2000 Stimulus Unit percent

(B) Display Settings

AV Mode ISF Day

Color Temp Contrast 80 Sharpness Brightness 1 Color Backlight 17 Tint TV Gamma -8 Cut Gain Red Green Blue

(C) Calibration Plan

For Nav Bar Next / Back, markers

Plan calibrations

- 2-Pt Grayscale
- Full Grayscale
- Saturation Sweeps
- Gamut Luminance
- Color Checker
- 3D Color Cube LUT

(D) Hardware Configuration

① Meter

Find → Configure

② Source

Find → Configure

③ Display / Processor

DDC Find → Configure

(E) Meter Setup

Position the meter as required for (1) projector or (2) flat panel to insure accurate measurements, (3) taking appropriate readings.

① Projector

Brightness 1 Contrast 80 Color 0 Tint 0 Sharpness 2

Color Temperature Low

Gamma -8 Backlight 17 Gamut Range Standard Motion Enhancement Off

Precision Color Plus Active Contrast Film Mode Off Digital Noise Reduction Off

Home Next

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Session Setup Help + Simulated Meter LCD Direct View Source Sharp Elite ISF Day DDC Notes

Go Back

Setting Up the Session

(A) Enter the session description & calibration options in the corresponding drop-downs and text boxes

- Click [Session Info] to enter additional information
- Click [More Options] to open the options panel - the red [X] can be used to close it
- Click the checkmark above/below [Big] to expand the note next to it

(B) Enter the initial display settings to use for the calibration in the corresponding boxes - you can provide alternates in the Pre- and Post-Calibration layouts

(C) If convenient define a calibration - the planned layouts will be indicated and followed by the Next / Back buttons of the Navigation Bar

(D) Find and configure the appropriate (1) meter, (2) source and (3) display devices - more info at right →

(E) Position the meter as required. You can now read the Level 0 (Black) and Level 100 (White) luminance and corresponding CCT based on current settings - more info at right →

(D) Hardware Configuration

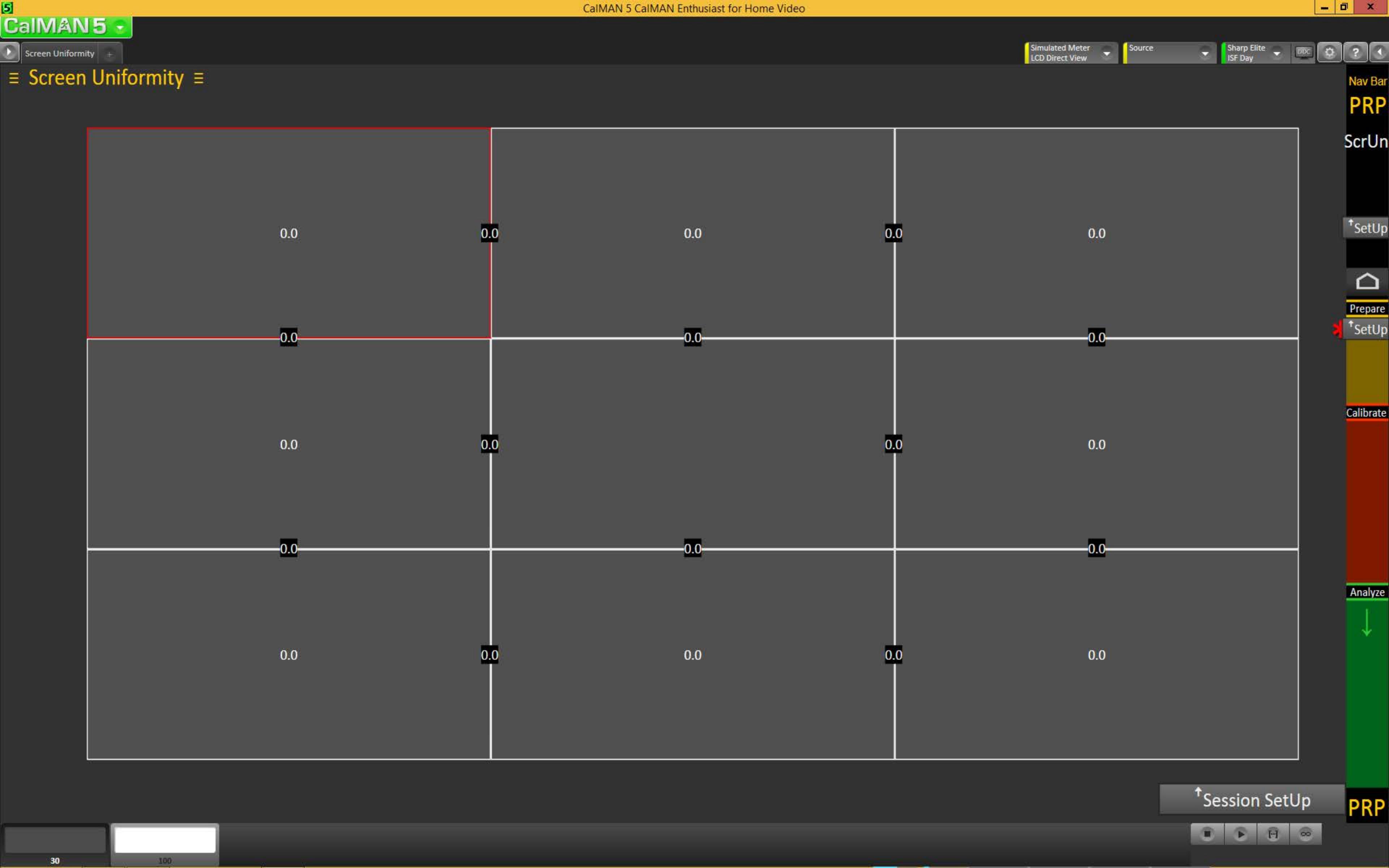
1. To start calibrating your display/processor, first connect your meter.
 - a) Click the meter [Find] button and select your meter.
 - b) Select the Target Display Type.
2. Connect to your reference pattern source generator.
 - a) Click the source [Find] button, and select your Source.
 - b) Select the pattern window size and resolution.
3. Connect to your display/processor.
 - a) Click the display [Find] button and select your display or processor.
 - b) Click [DDC] to show the Direct Display Control panel when appropriate
4. Click the corresponding [Configure] button for more options.

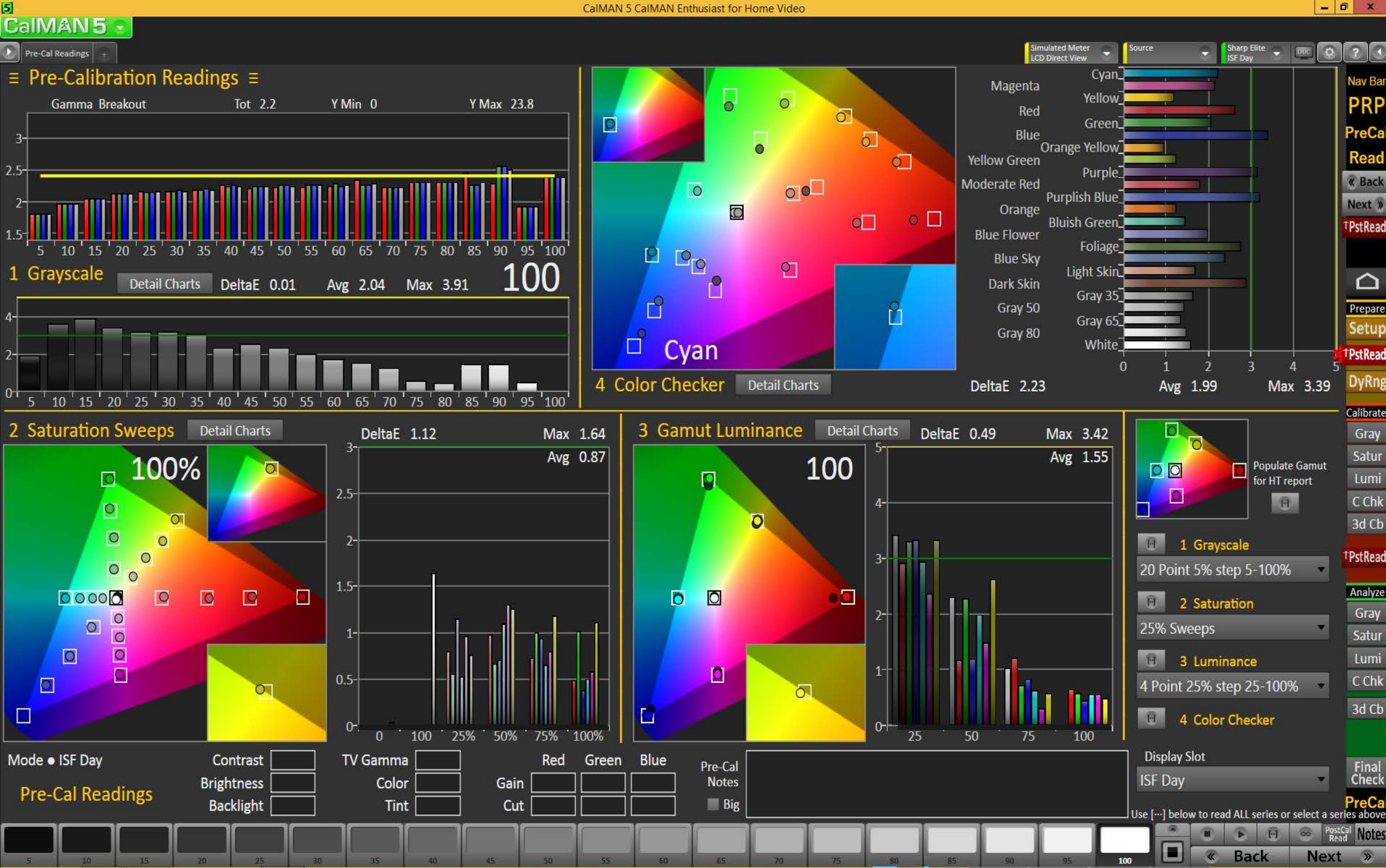
Go Back

(E) Meter Positioning

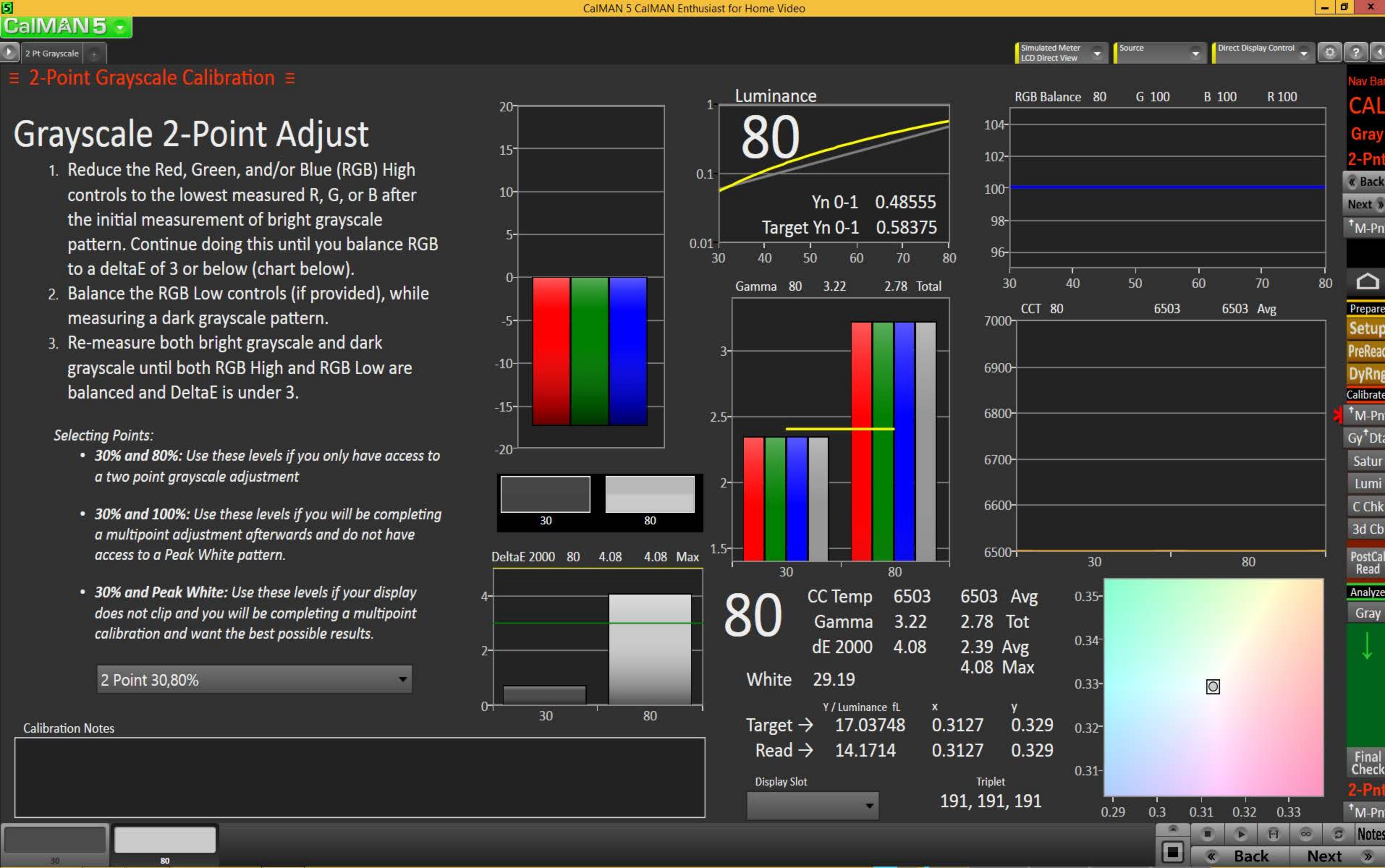
- 1a. For projectors position the meter facing the projection screen, far enough away from the screen to avoid reading the meter's own shadow (see illustration on the left). Continue to take readings.
- 1b. Press the read continuous button to take measurements of a white window while moving the meter up/down/left/right, until the Y Max reading is largest. When Y Max is highest, click Stop.
2. For flat panels position the meter on the center of the screen (see illustration on the right). You do not need to take readings for this placement.
3. You can also read the White level CCT based on the current settings - adjust the display's color temperature to best match the target CCT.

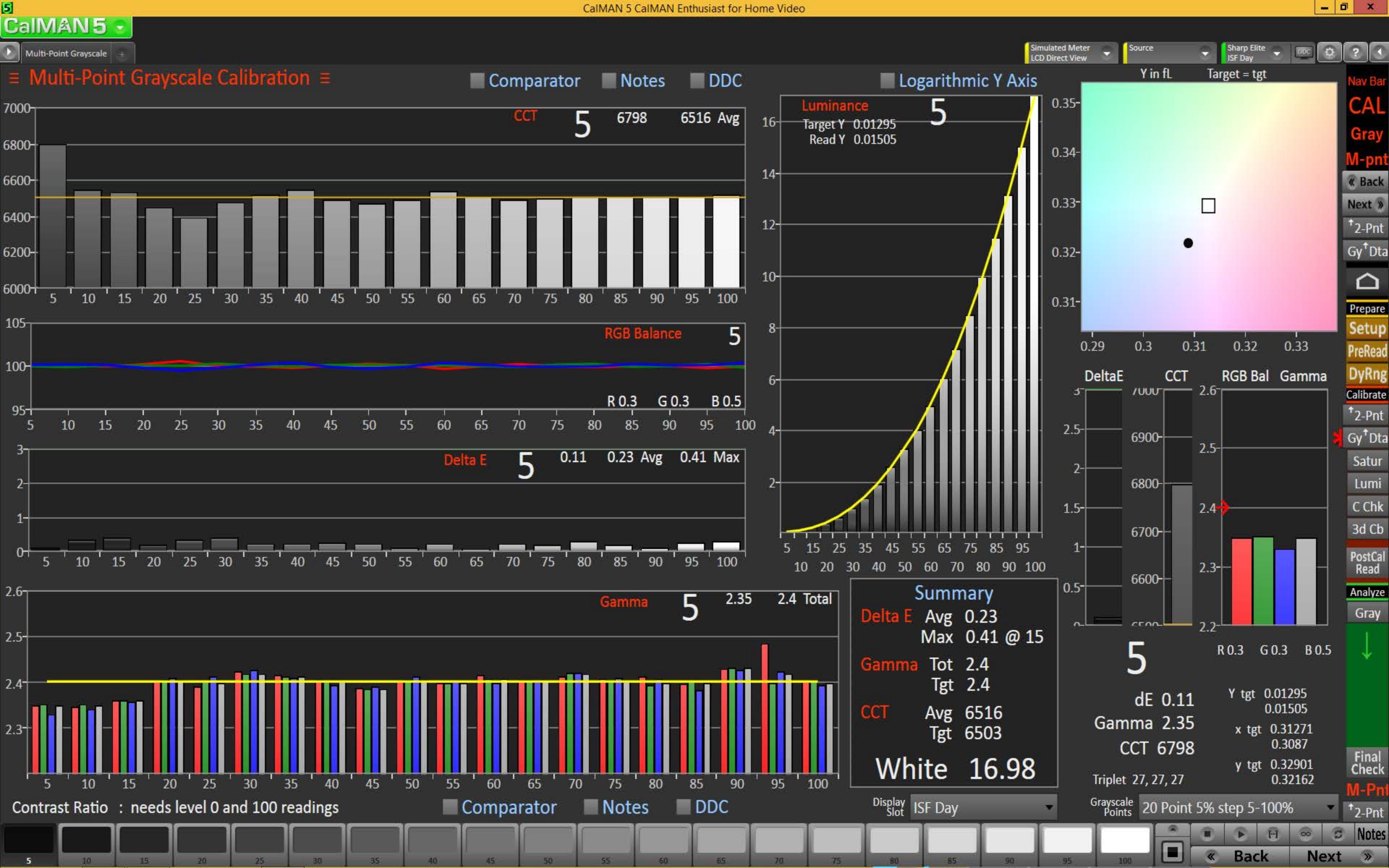
Home Next

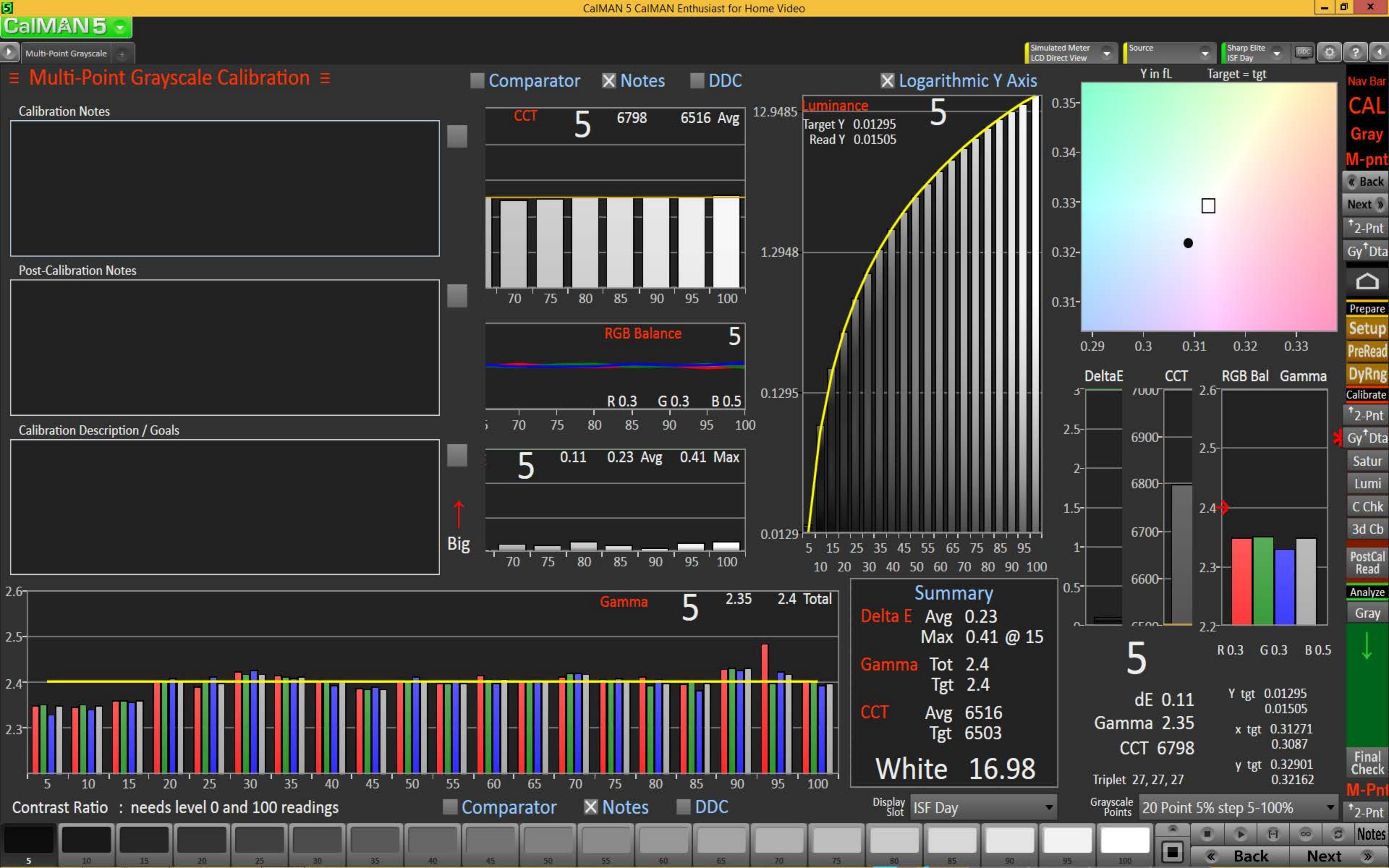












CalMAN 5

Multi-Point Grayscale Calibration

X Comparator X Notes X DDC

CCT 95 6514 6516 Avg

Delta E 95 0.27 0.23 Avg 0.41 Max

Gamma 95 2.42 2.4 Total

Contrast Ratio : needs level 0 and 100 readings

Simulated Meter LCD Direct View

Source Lumagen Radiance 3D LUT CMS 6

Y in fL Target = tgt

Red Green Blue

0	0	0	.35	
5	5.4	5.4	5.4	.34
10	10	10	9.9	.33
15	14.8	15.1	14.7	.32
20	19.9	19.9	19.9	.31
25	24.6	24.7	24.7	.30
30	29.9	29.9	29.9	.29
35	31.0	31.0	31.0	.28
40	31.0	31.0	31.0	.27
45	31.0	31.0	31.0	.26
50	31.0	31.0	31.0	.25
55	31.0	31.0	31.0	.24
60	31.0	31.0	31.0	.23
65	31.0	31.0	31.0	.22
70	31.0	31.0	31.0	.21
75	31.0	31.0	31.0	.20
80	31.0	31.0	31.0	.19
85	31.0	31.0	31.0	.18
90	31.0	31.0	31.0	.17
95	31.0	31.0	31.0	.16
100	31.0	31.0	31.0	.15

Color Bar

Y in fL Target = tgt

Red Green Blue

55	55.9	55.4	55.9	6900
60	60.3	60.2	60	6800
65	65.2	65	65	6700
70	70.2	70.3	70.3	6600
75	75.6	75.5	75.6	6500
80	80.1	80	80.2	6400
85	84.8	84.8	84.4	6300
90	90.8	90.8	90.4	6200
95	95.3	95.3	95.3	6100
100	100	100	100	6000

Color Bar

Y in fL Target = tgt

Red Green Blue

5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

Color Bar

Y in fL Target = tgt

Red Green Blue

5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

Color Bar

Y in fL Target = tgt

Red Green Blue

5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

Color Bar

Y in fL Target = tgt

Red Green Blue

5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

Color Bar

Y in fL Target = tgt

Red Green Blue

5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

Color Bar

Y in fL Target = tgt

Red Green Blue

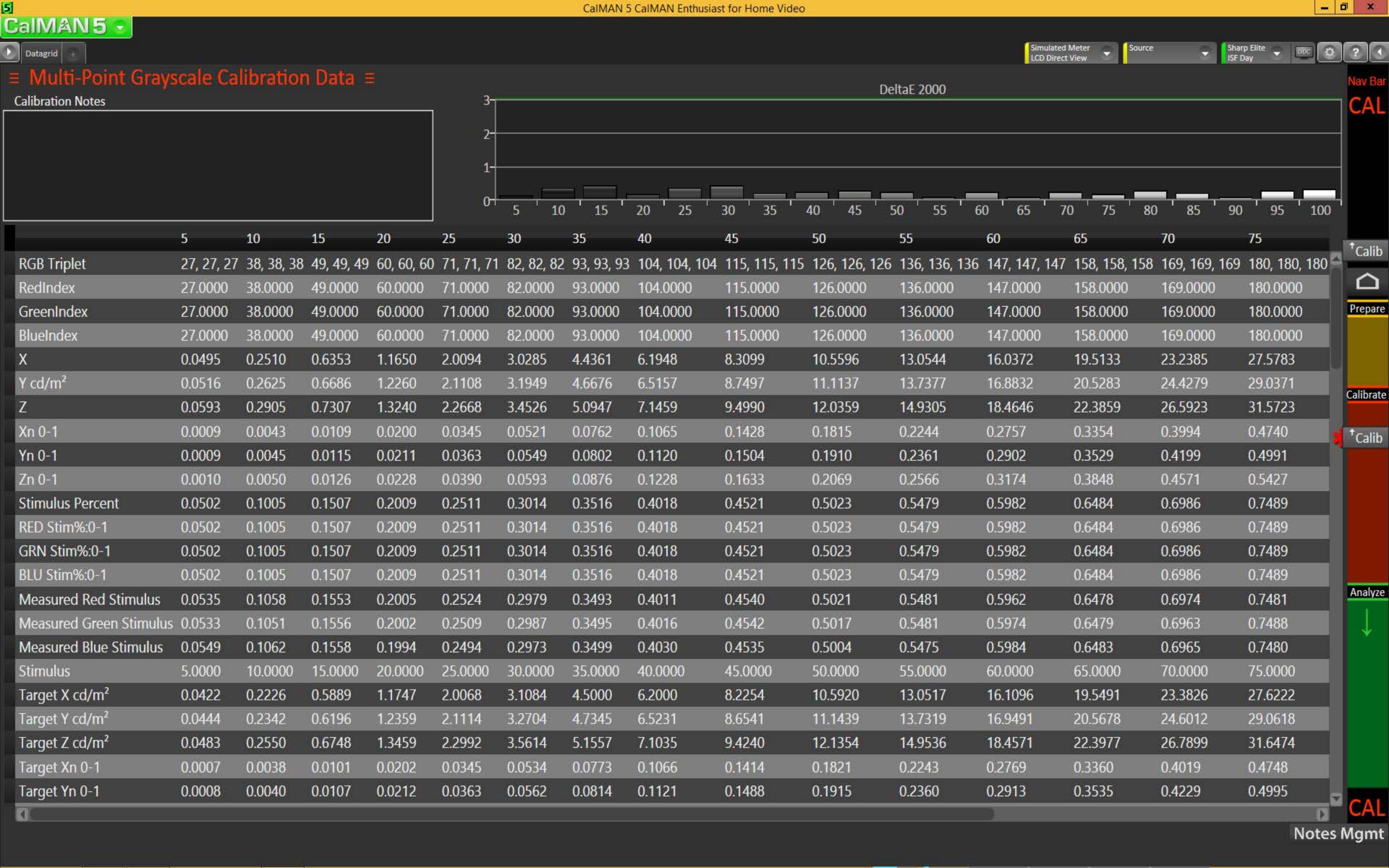
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10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	19.9	2.2
25	24.6	24.7	24.7	2.1
30	29.9	29.9	29.9	2.0
35	31.0	31.0	31.0	1.9
40	31.0	31.0	31.0	1.8
45	31.0	31.0	31.0	1.7
50	31.0	31.0	31.0	1.6
55	31.0	31.0	31.0	1.5
60	31.0	31.0	31.0	1.4
65	31.0	31.0	31.0	1.3
70	31.0	31.0	31.0	1.2
75	31.0	31.0	31.0	1.1
80	31.0	31.0	31.0	1.0
85	31.0	31.0	31.0	0.9
90	31.0	31.0	31.0	0.8
95	31.0	31.0	31.0	0.7
100	31.0	31.0	31.0	0.6

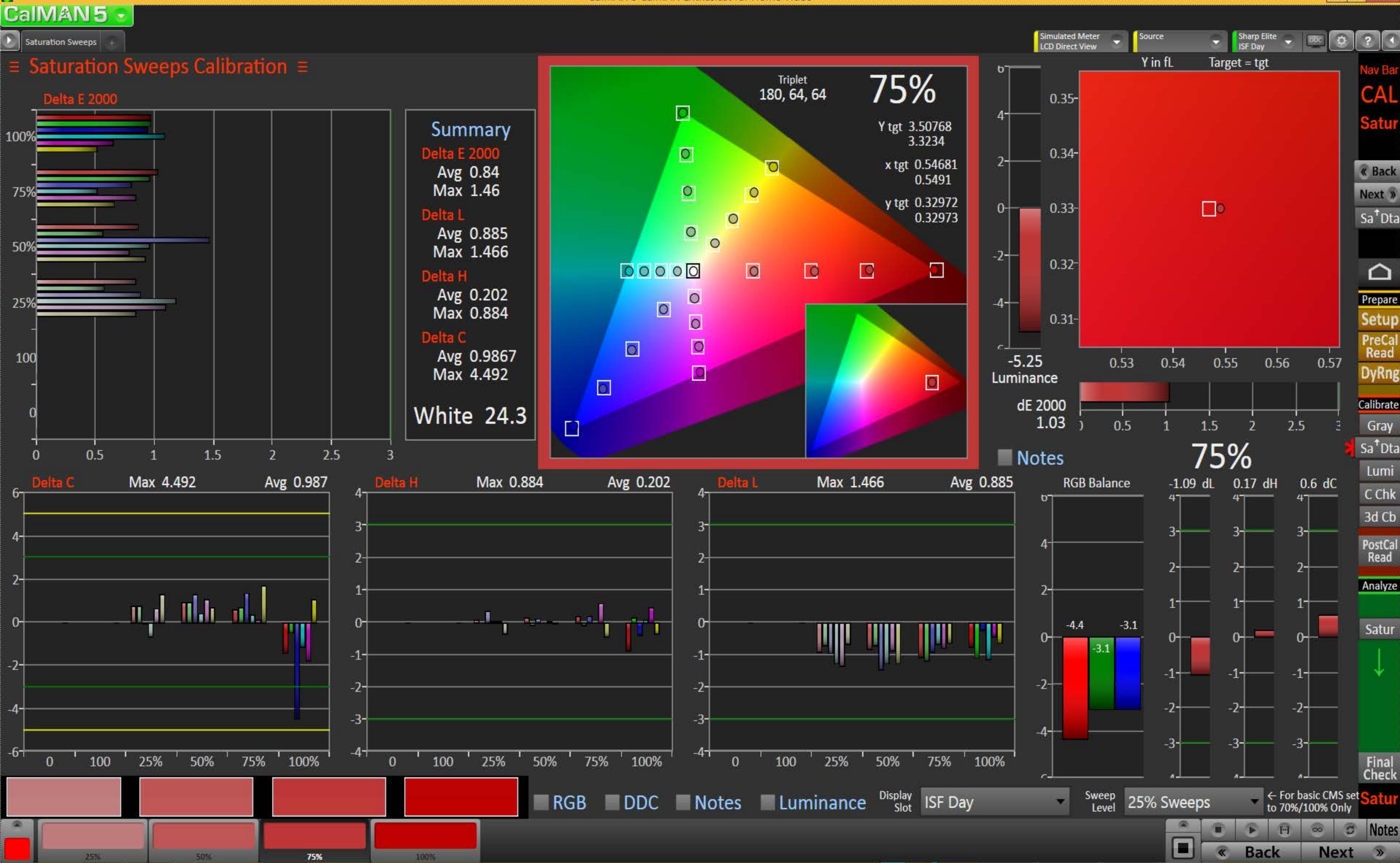
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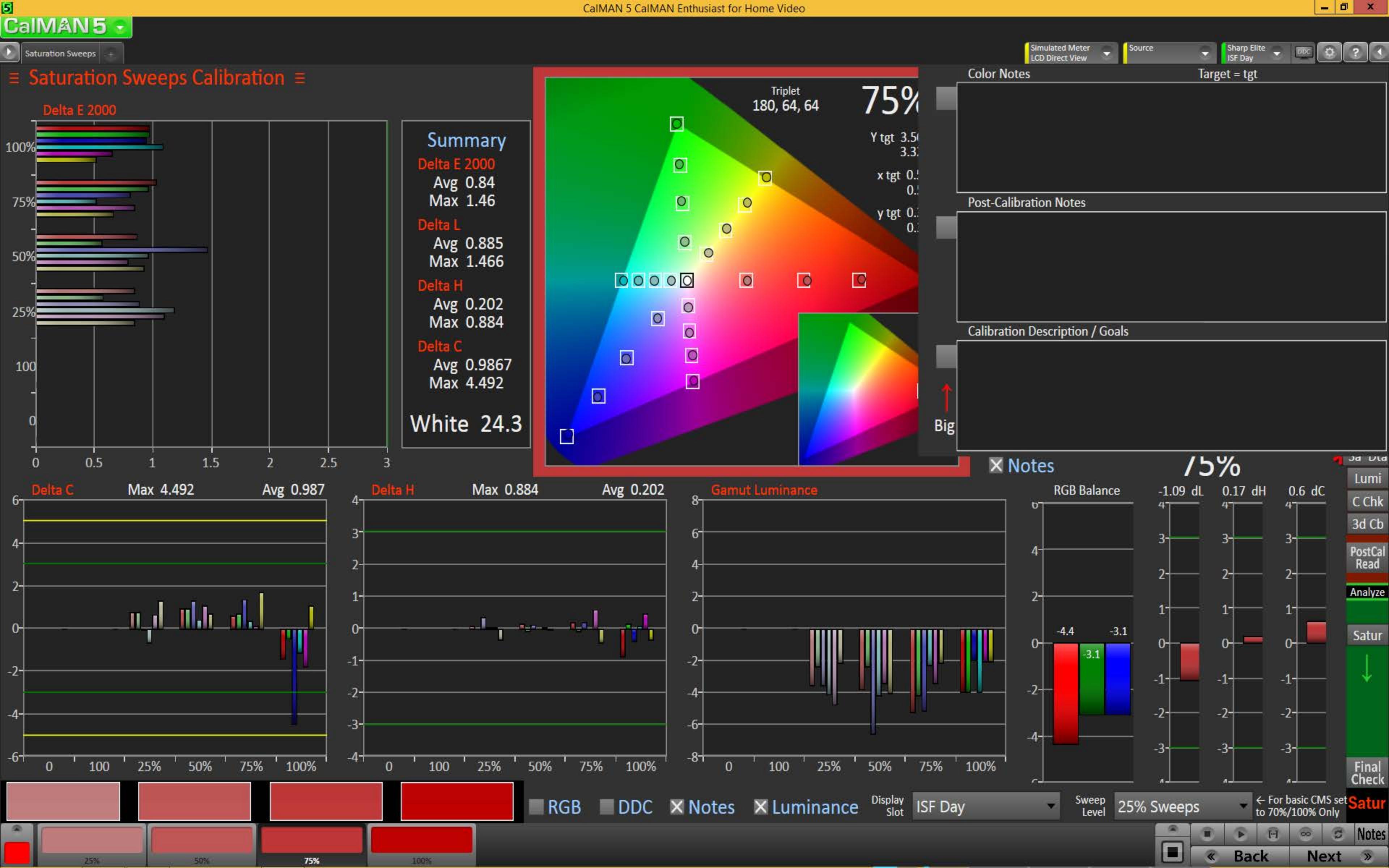
Y in fL Target = tgt

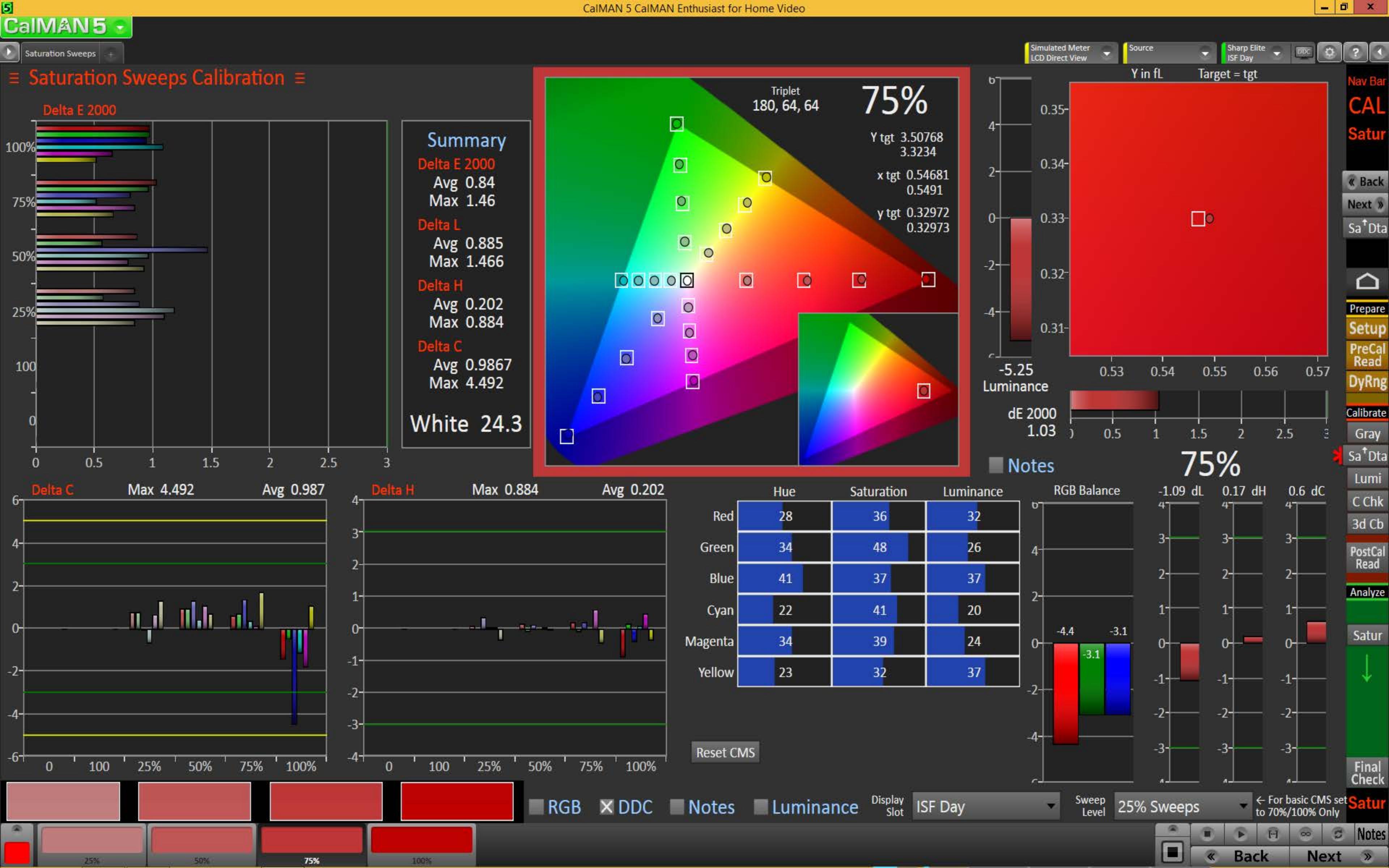
Red Green Blue

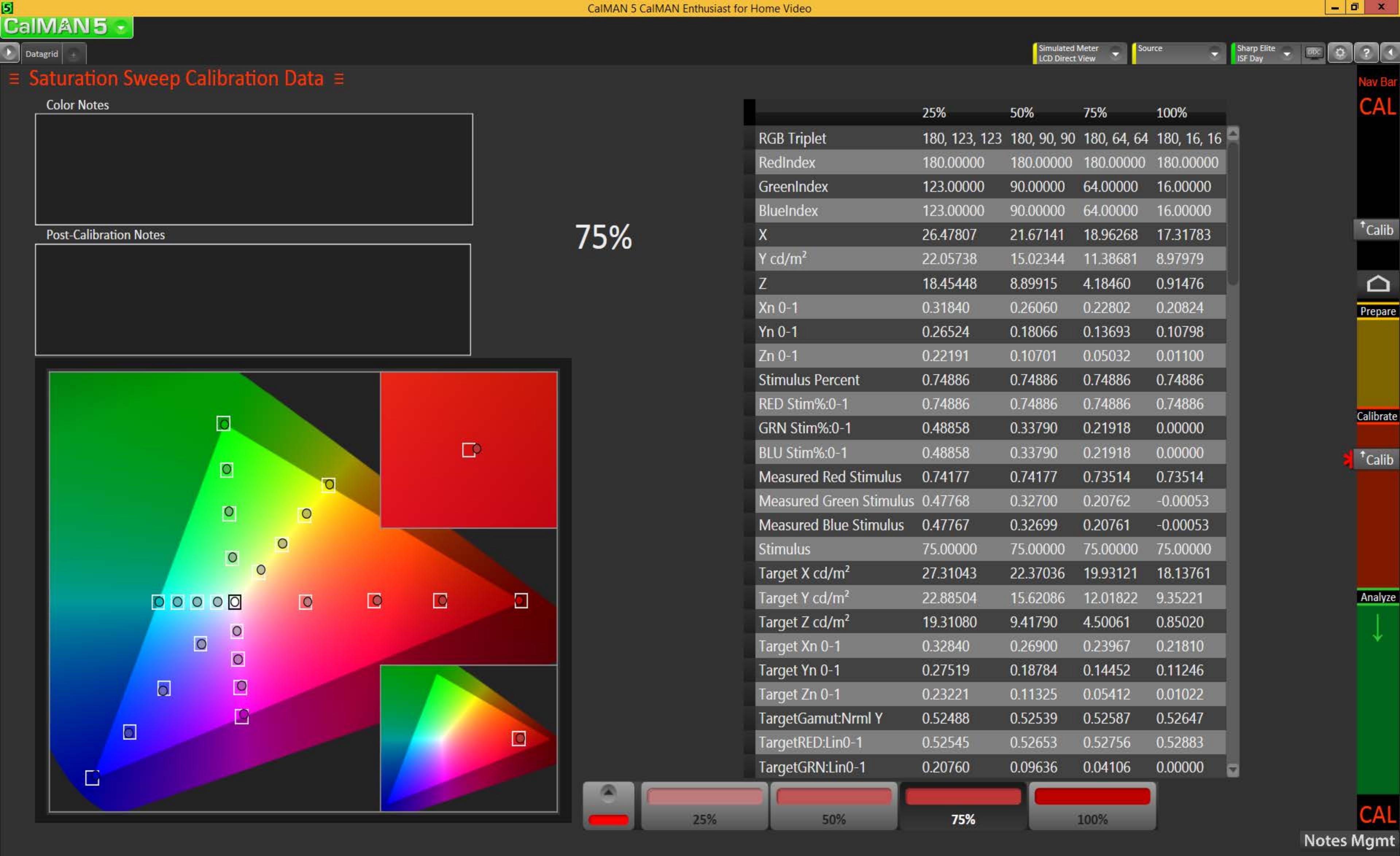
5	5.4	5.4	5.4	2.5
10	10	10	9.9	2.4
15	14.8	15.1	14.7	2.3
20	19.9	19.9	1	

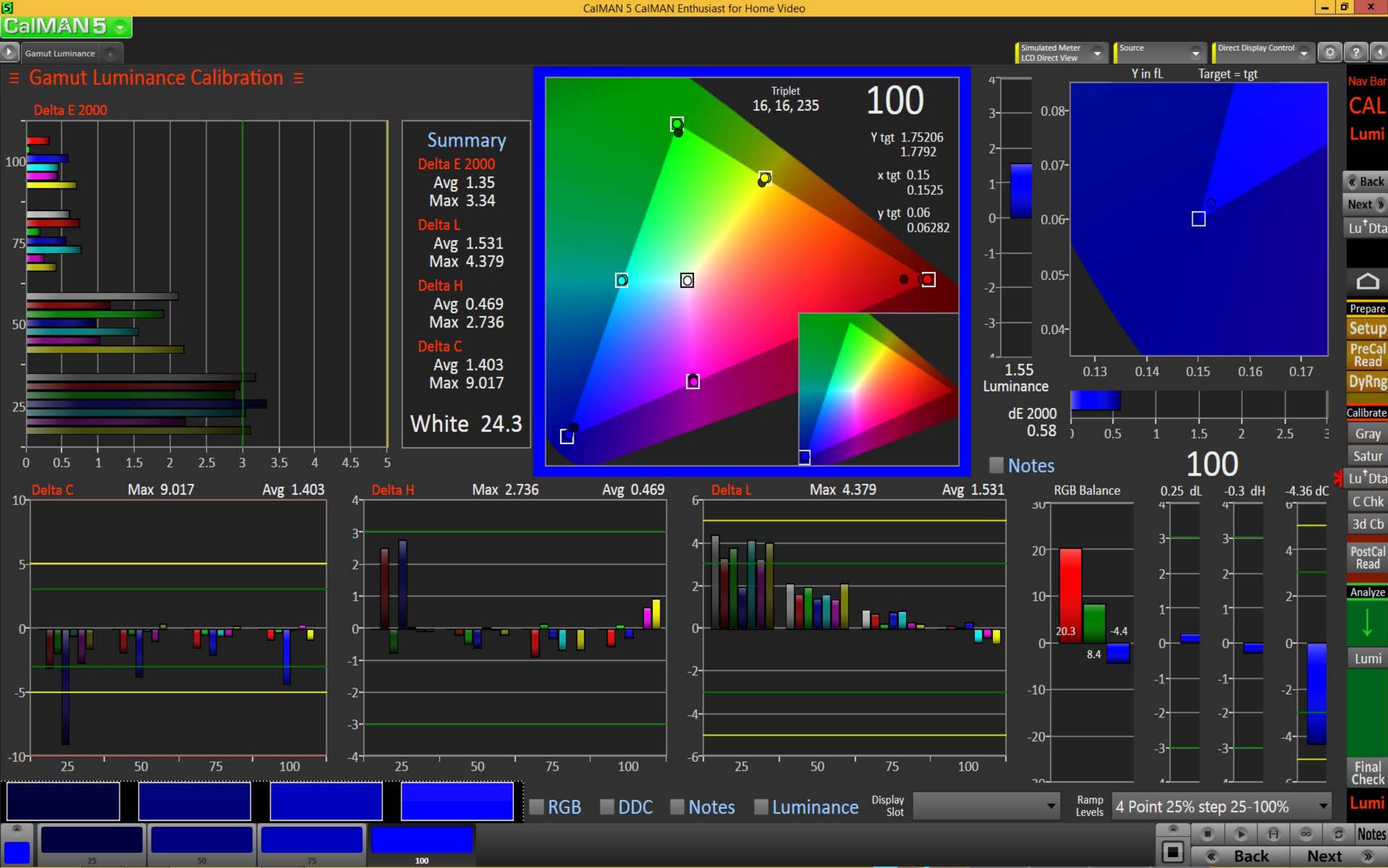


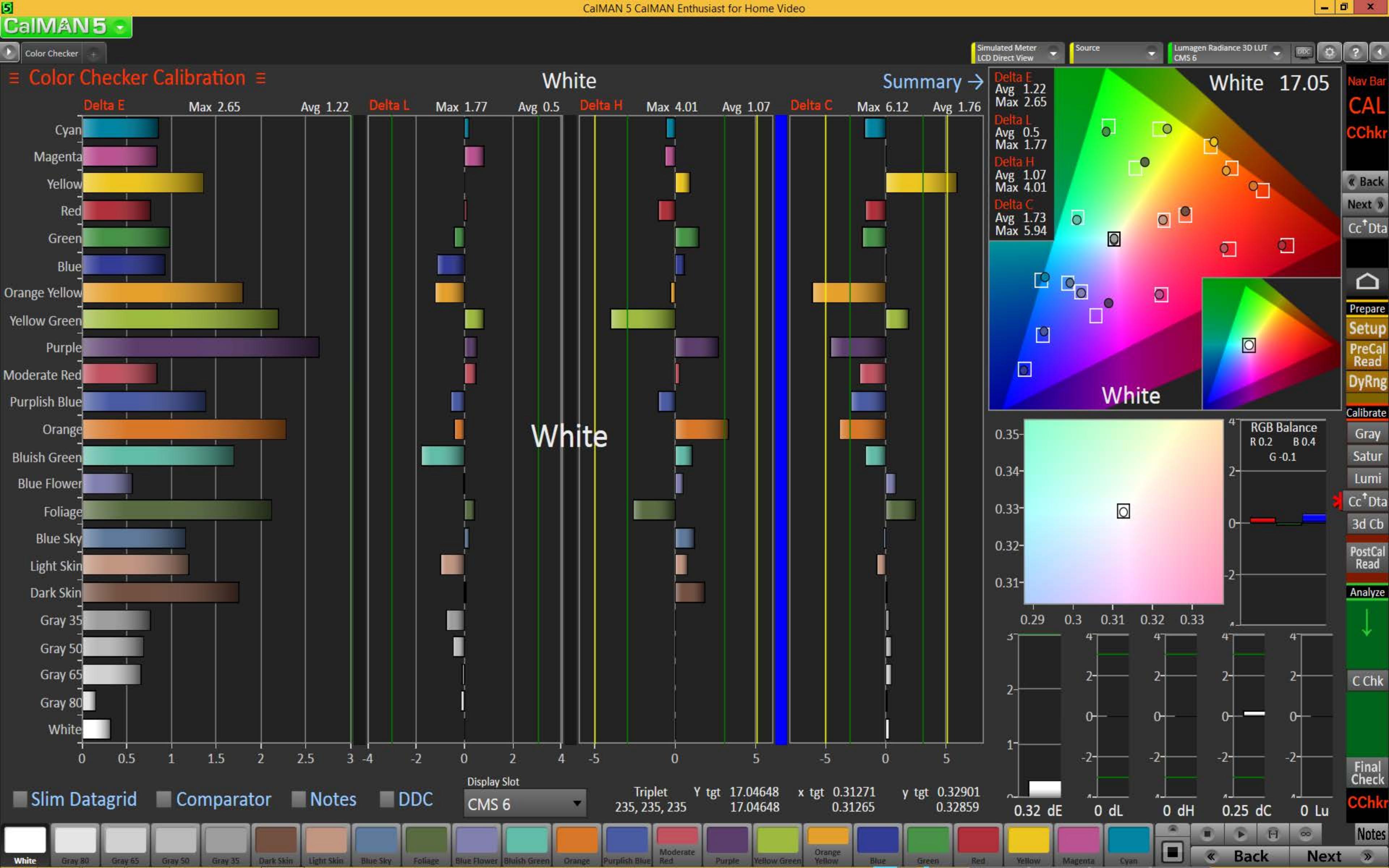






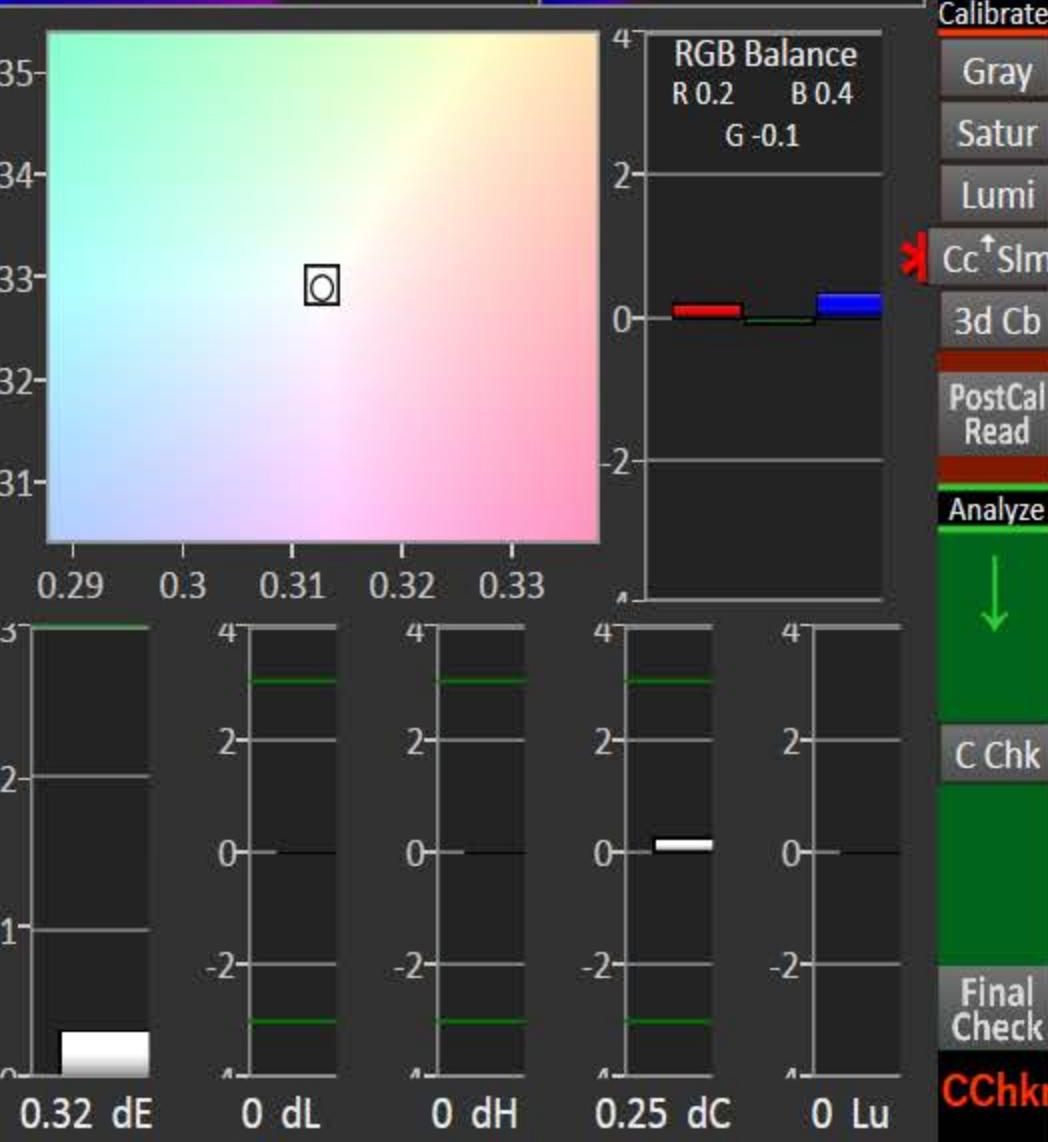
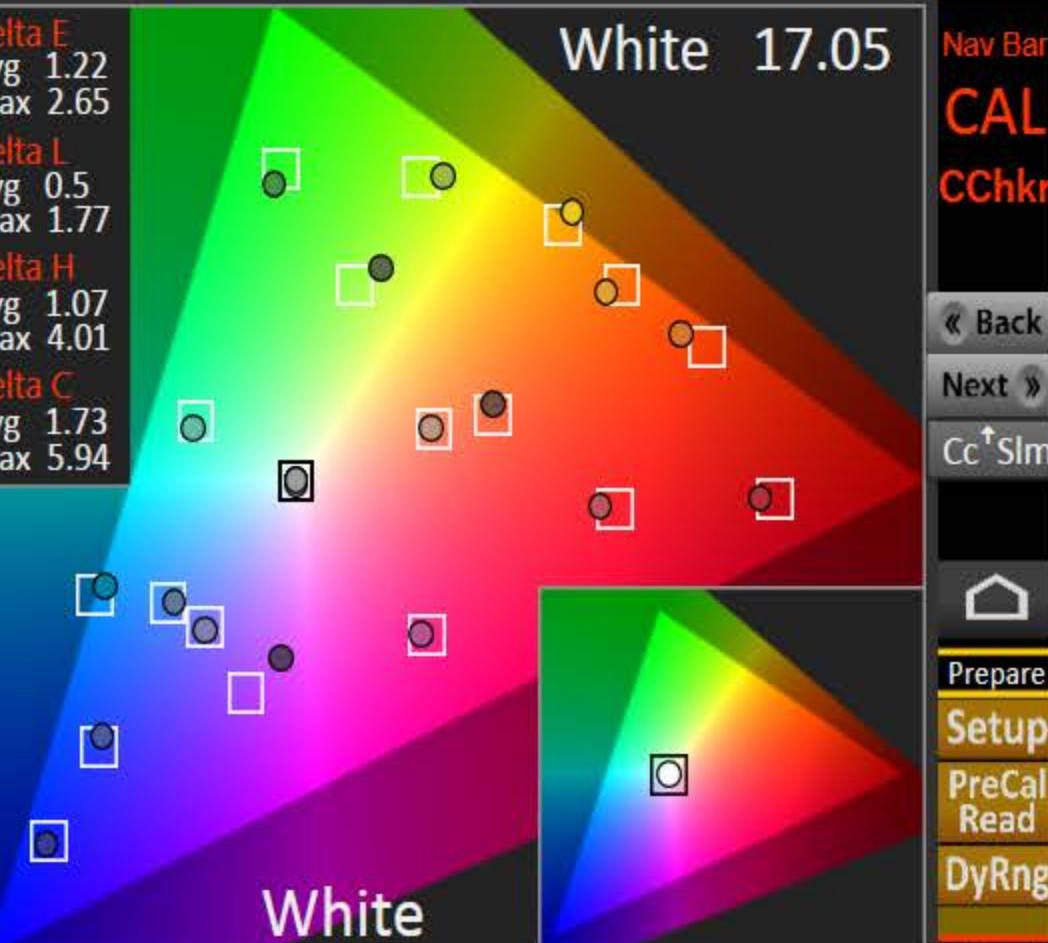
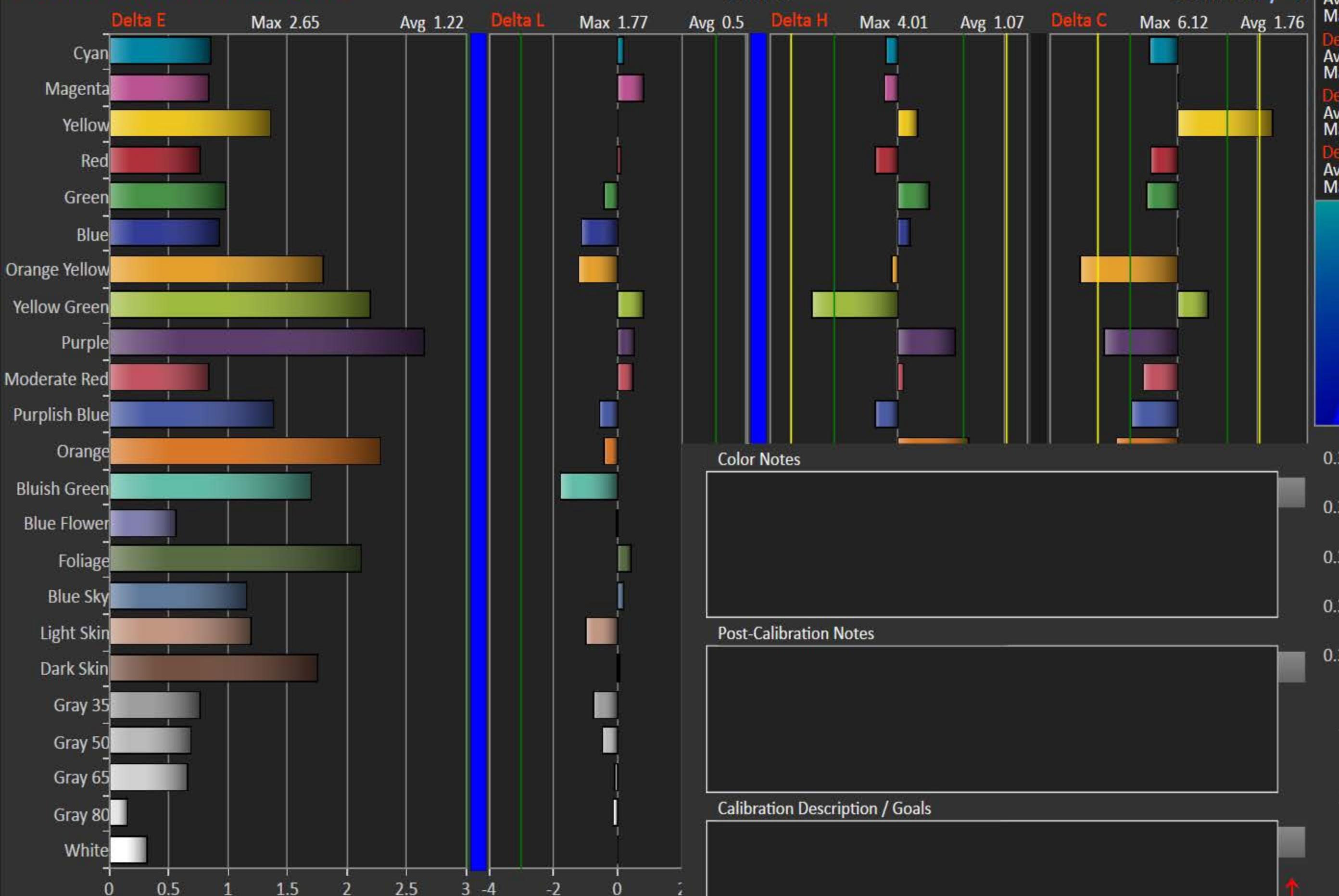






CalMAN 5

| Color Checker +



 Slim Datagrid

Comparator

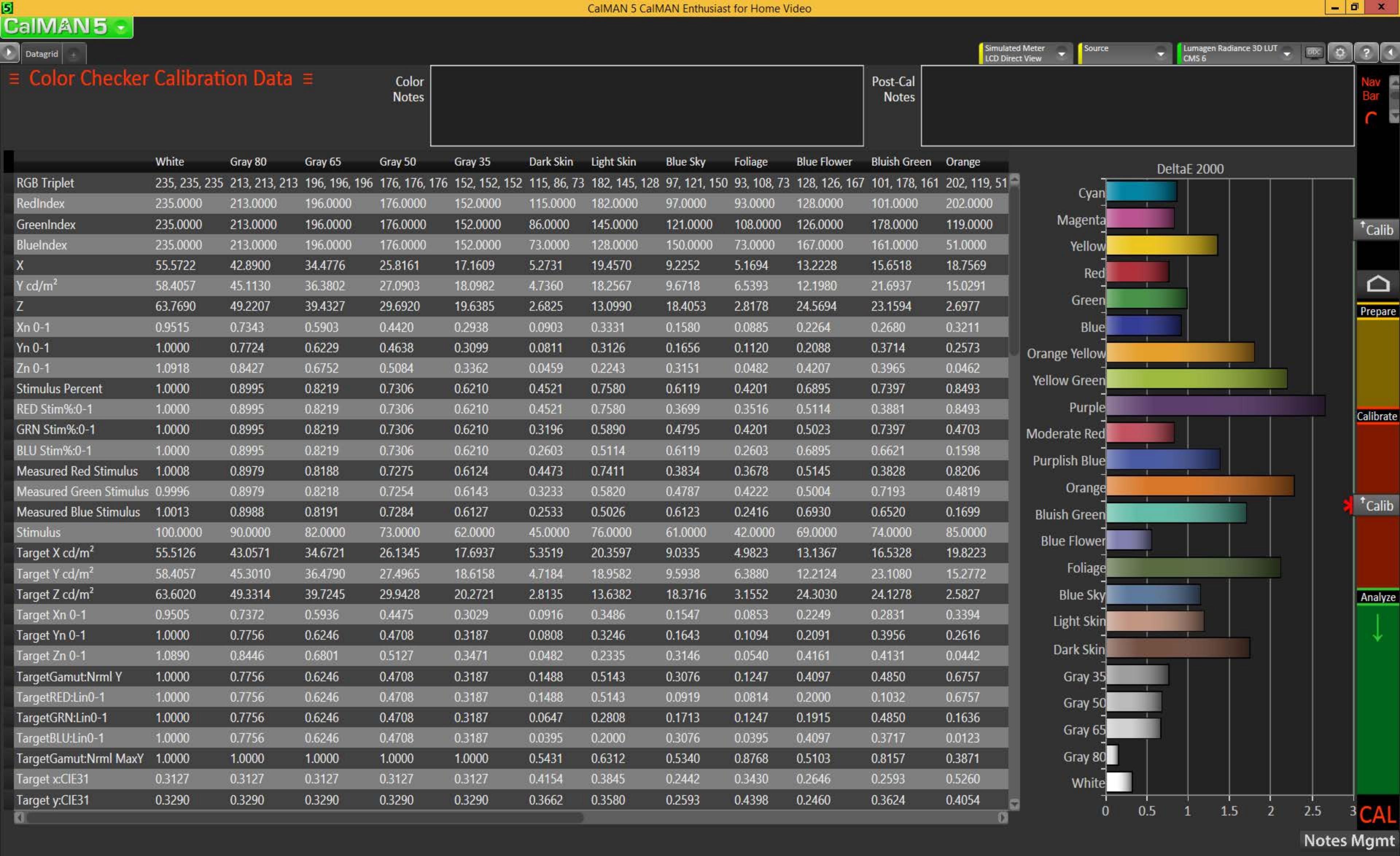
X Notes

DDC

Display SIC

1



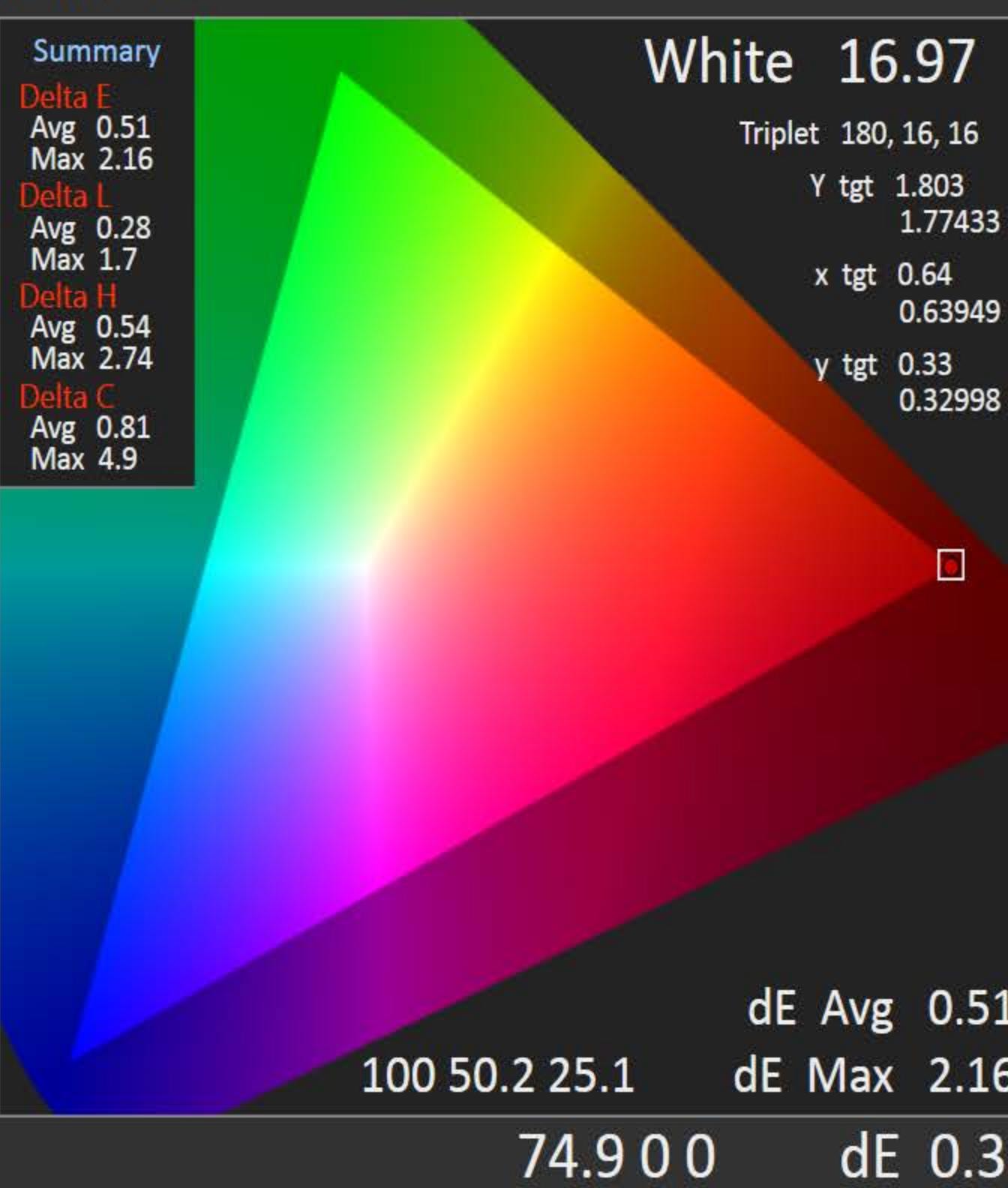
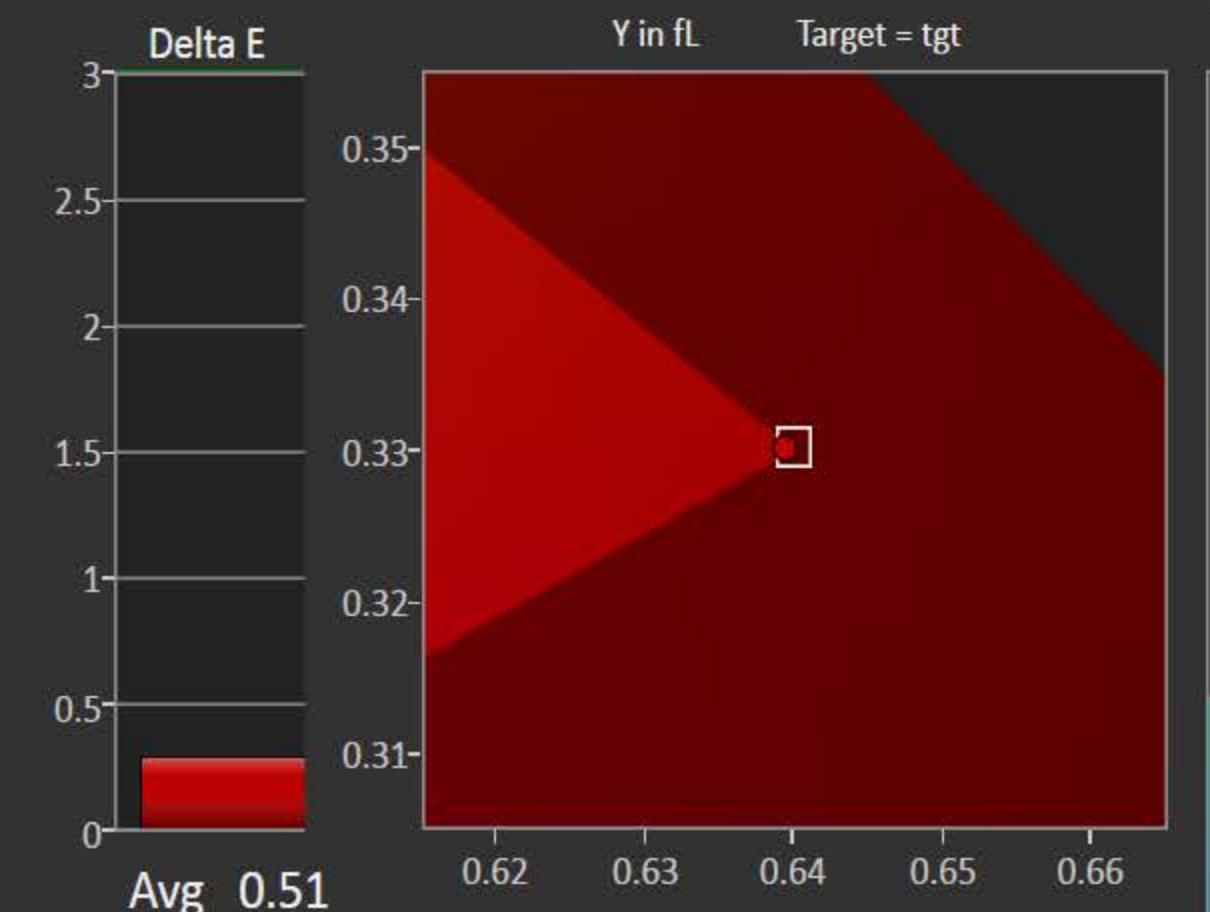
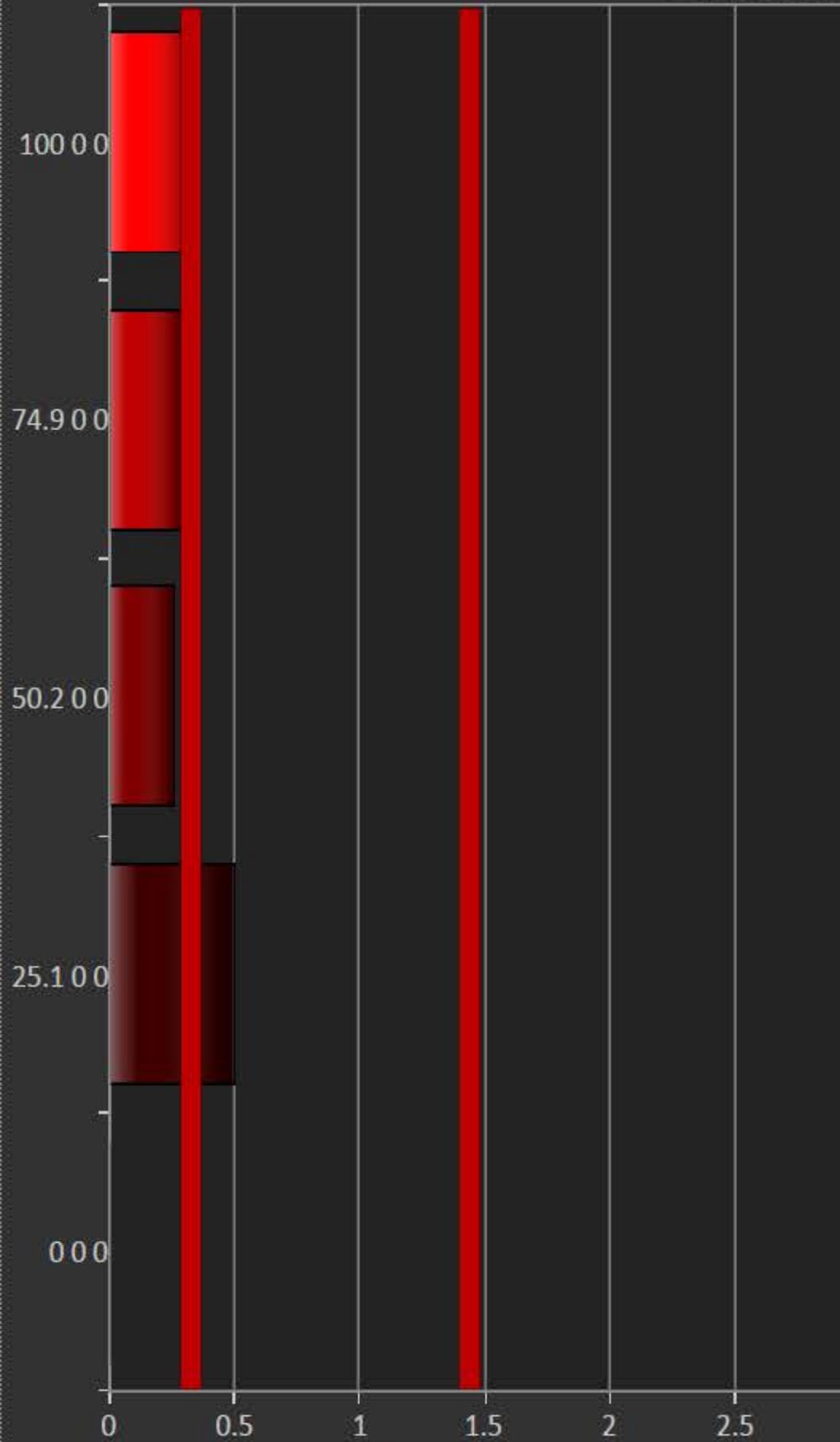


CalMAN 5		CalMAN 5 CalMAN Enthusiast for Home Video																					
		Datagrid 1		Datagrid 2		+		Simulated Meter				Source		Lumagen Radiance 3D LUT				DXO		Settings		?	
≡ Color Checker Calibration Data Slim 1 ≡		Color Notes		Post-Cal Notes										Post-Cal Notes									
		White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red	Yellow	Magenta
X		55.5722	42.8900	34.4776	25.8161	17.1609	5.2731	19.4570	9.2252	5.1694	13.2228	15.6518	18.7569	6.3133	14.8300	4.1210	18.9091	24.4619	3.9179	7.1455	10.4975	31.7103	15.9973
Y cd/m ²		58.4057	45.1130	36.3802	27.0903	18.0982	4.7360	18.2567	9.6718	6.5393	12.1980	21.6937	15.0291	5.5261	9.8987	3.0949	24.4426	22.5089	2.6171	11.8389	6.0305	33.5754	10.2089
Z		63.7690	49.2207	39.4327	29.6920	19.6385	2.6825	13.0990	18.4053	2.8178	24.5694	23.1594	2.6977	18.2243	6.7309	6.3679	5.2971	4.6800	15.0384	4.7808	2.3919	4.2011	16.2029
Target x:CIE31		0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781	0.4831	0.1823	0.3044	0.5631	0.4516	0.3803
x: CIE31		0.3126	0.3126	0.3126	0.3125	0.3126	0.4155	0.3829	0.2473	0.3559	0.2645	0.2587	0.5141	0.2100	0.4714	0.3034	0.3887	0.4736	0.1816	0.3007	0.5548	0.4564	0.3772
Target y:CIE31		0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025	0.4408	0.1241	0.5061	0.3198	0.4749	0.2409
y: CIE31		0.3286	0.3288	0.3299	0.3280	0.3297	0.3732	0.3593	0.2593	0.4502	0.2440	0.3585	0.4119	0.1838	0.3146	0.2278	0.5024	0.4358	0.1213	0.4982	0.3187	0.4832	0.2407
Target Y		17.0465	13.2217	10.6469	8.0252	5.4333	1.3771	5.5332	2.8001	1.8644	3.5644	6.7444	4.4588	1.6648	2.8286	0.8720	6.9394	6.8555	0.8273	3.5228	1.7524	9.7986	2.8714
Y		17.0465	13.1668	10.6181	7.9067	5.2822	1.3823	5.3285	2.8228	1.9086	3.5602	6.3316	4.3864	1.6129	2.8891	0.9033	7.1339	6.5695	0.7638	3.4553	1.7601	9.7994	2.9796
Sat: L*u*v*		0.3379	0.1872	0.6344	0.6133	0.3826	28.4334	36.1678	35.4403	31.0652	42.3047	40.2178	90.4862	59.7343	79.3172	28.1917	73.7962	83.5179	66.3657	58.3914	96.6113	93.8172	67.7368
Hue: L*u*v*		295.8808	265.1658	131.7646	295.5231	134.1760	35.2863	35.3858	247.6726	102.2823	268.2608	170.9065	34.2626	259.6883	7.7905	299.5903	96.7453	48.4336	264.2397	129.0390	10.0058	67.9670	334.236
L*		100.0000	90.4323	83.0668	73.7934	62.4968	34.2085	62.7252	47.7004	39.9092	52.8234	67.3844	57.7820	36.8581	48.1948	27.5703	70.7672	68.4160	25.2014	52.1412	38.4199	80.4525	48.8583
Gamma Point: Flat		2.4000	2.4393	2.4138	2.4474	2.4592	3.1642	4.1969	3.6606	2.5246	4.2124	3.2851	8.3112	5.2700	6.4060	3.3872	2.7751	9.0065	5.8674	2.9291	6.1071	7.8028	5.5564

CalMAN 5		CalMAN 5 CalMAN Enthusiast for Home Video																					
		Datagrid 1		Datagrid 2		+		Simulated Meter LCD Direct View						Source		Lumagen Radiance 3D LUT				DXC		Settings	Help
≡ Color Checker Calibration Data Slim 2 ≡		Color Notes		Post-Cal Notes										Nav Bar									
		White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Green	Orange Yellow	Blue	Green	Red		
Sat: L*a*b*		0.2502	0.1242	0.4923	0.4759	0.3126	20.6063	22.0180	22.4622	29.3735	30.0919	31.5653	64.9266	43.1930	48.0891	28.5292	67.0170	63.9346	60.1137	52.8808	58.81		
Hue: L*a*b*		315.6287	289.4990	147.3961	315.3781	149.1690	55.3360	53.1688	270.8247	119.2592	296.2082	178.2783	62.2547	289.4889	19.5338	321.5307	111.7240	74.9314	298.8834	141.2782	27.01		
ΔE 2000		0.3180	0.1611	0.6689	0.6846	0.7598	1.7452	1.1903	1.1564	2.1207	0.5598	1.6991	2.2850	1.3862	0.8346	2.6499	2.1956	1.8013	0.9233	0.9837	0.76		
dE2000 LuminanceCompensated		0.3180	0.1322	0.6662	0.5999	0.4292	1.7466	0.7711	1.1479	2.0450	0.5626	0.7819	2.2155	1.1877	0.8118	2.7436	2.0850	1.2962	0.6117	0.8213	0.77		
ΔE 1976:L*u*v*		0.3379	0.2385	0.6407	0.7586	0.8342	1.9493	2.0630	1.4829	3.8288	1.1425	3.0734	9.1955	3.8469	4.0288	6.7144	5.4757	5.9988	1.9665	2.4098	2.958		
ΔE 1976:L*a*b*		0.2502	0.1930	0.5004	0.6526	0.8045	1.8607	1.4718	1.2095	3.6080	0.9782	2.6322	5.0447	3.1387	2.2634	5.3085	4.4789	6.2465	1.2599	2.4426	2.00		
ΔE 1994 L*:±		0.0000	-0.1477	-0.0896	-0.4465	-0.7413	0.0625	-0.9957	0.1717	0.4346	-0.0270	-1.7740	-0.4038	-0.5613	0.4511	0.5089	0.7959	-1.2073	-1.1108	-0.4405	0.07		
ΔE 1994 Sat:±		0.2502	0.1242	0.4923	0.4759	0.3126	0.1262	-0.7540	-0.2289	2.4737	0.8617	-1.6556	-3.7928	-2.8905	-2.1985	-4.5747	1.8377	-6.1235	0.0421	-1.9227	-1.69		
ΔE 1994 Hue:±		0.0000	0.0000	0.0000	0.0000	0.0000	1.8554	0.7787	1.1752	-2.5903	0.4622	1.0200	3.3016	-1.0868	0.2931	2.6446	-4.0062	-0.2541	0.5930	1.4407	-1.06		
Signed dE94 L LuminanceCompensated		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Signed dE94 C LuminanceCompensated		0.2502	0.1242	0.4923	0.4759	0.3126	0.1007	-0.4696	-0.2902	2.2629	0.8732	-0.9636	-3.4188	-2.4063	-2.5544	-4.9658	1.2342	-5.1356	1.6191	-1.5707	-1.78		
Signed dE94 H LuminanceCompensated		0.0000	0.0000	0.0000	0.0000	0.0000	1.8565	0.7738	1.1768	-2.6004	0.4621	1.0093	3.2926	-1.0811	0.2941	2.6602	-4.0248	-0.2523	0.5852	1.4360	-1.06		

≡ 3D Color Cube LUT Calibration ≡

DeltaE 2000



CAL

3D Cb

< Back

Next >

3d↑Dta

Prepare

Setup

PreCal Read

DyRng

Calibrate

Gray

Satur

Lumi

C Chk

3d↑Dta

PostCal Read

Analyze

↓

3d Cb

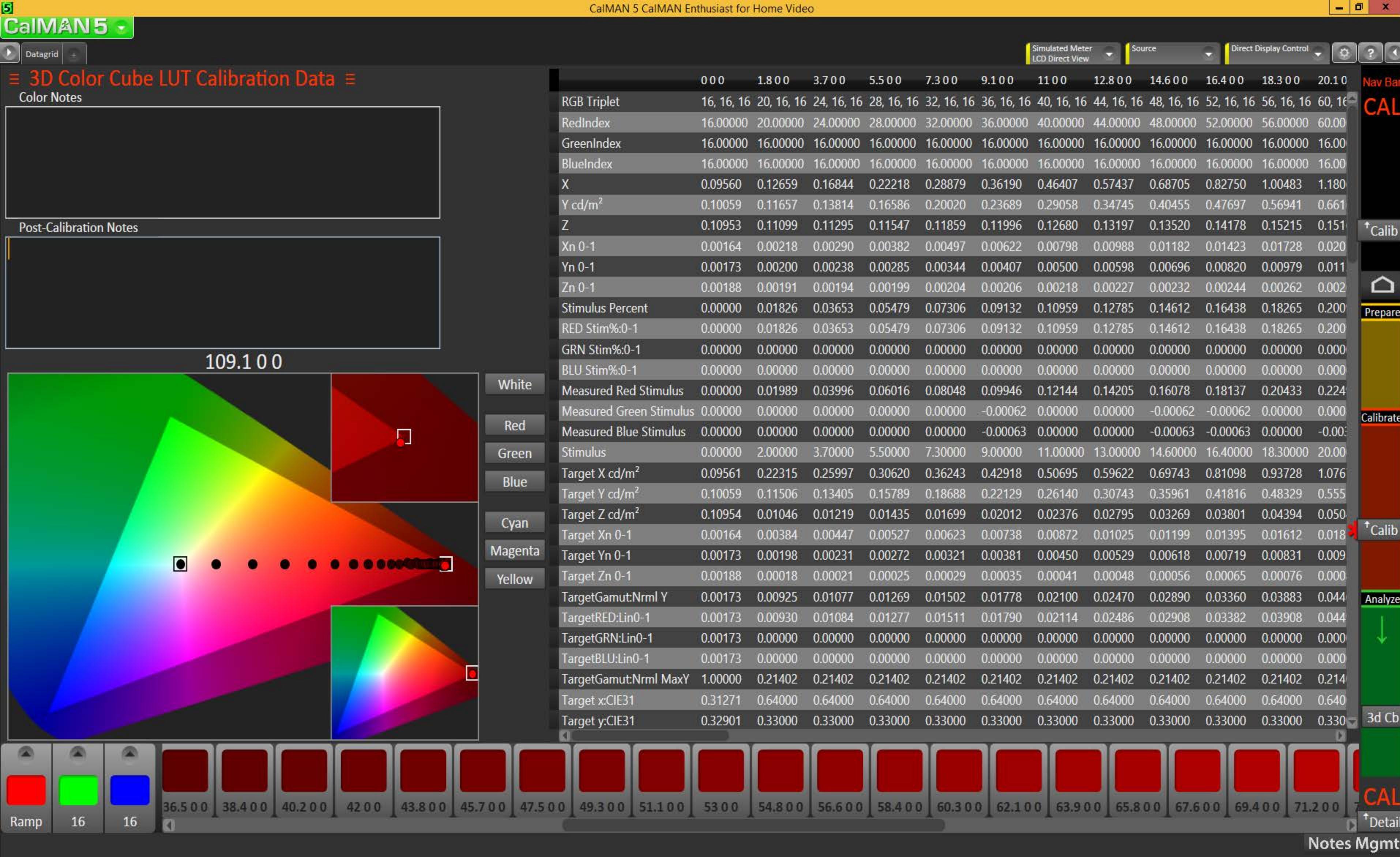
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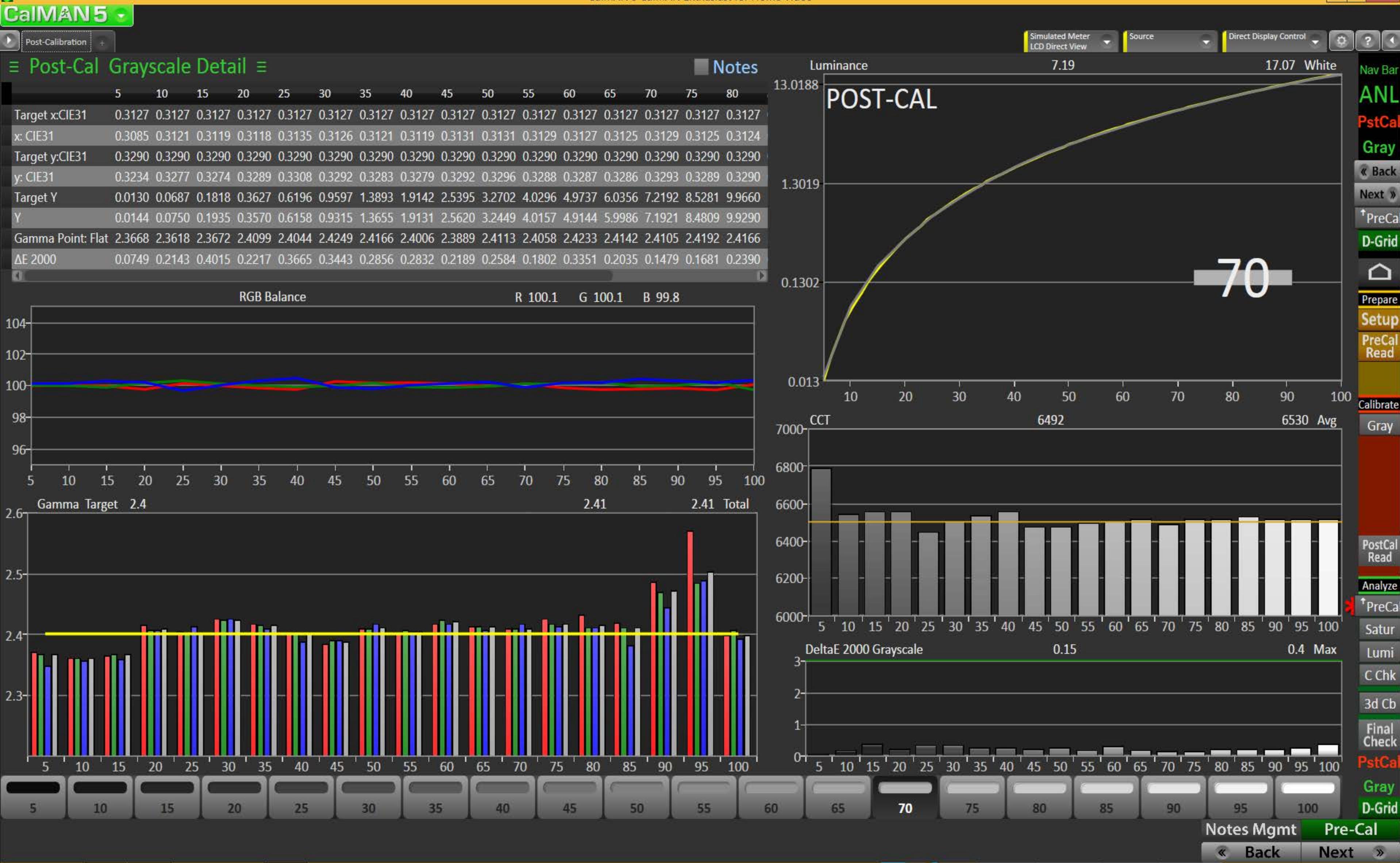
3D Cb

Notes

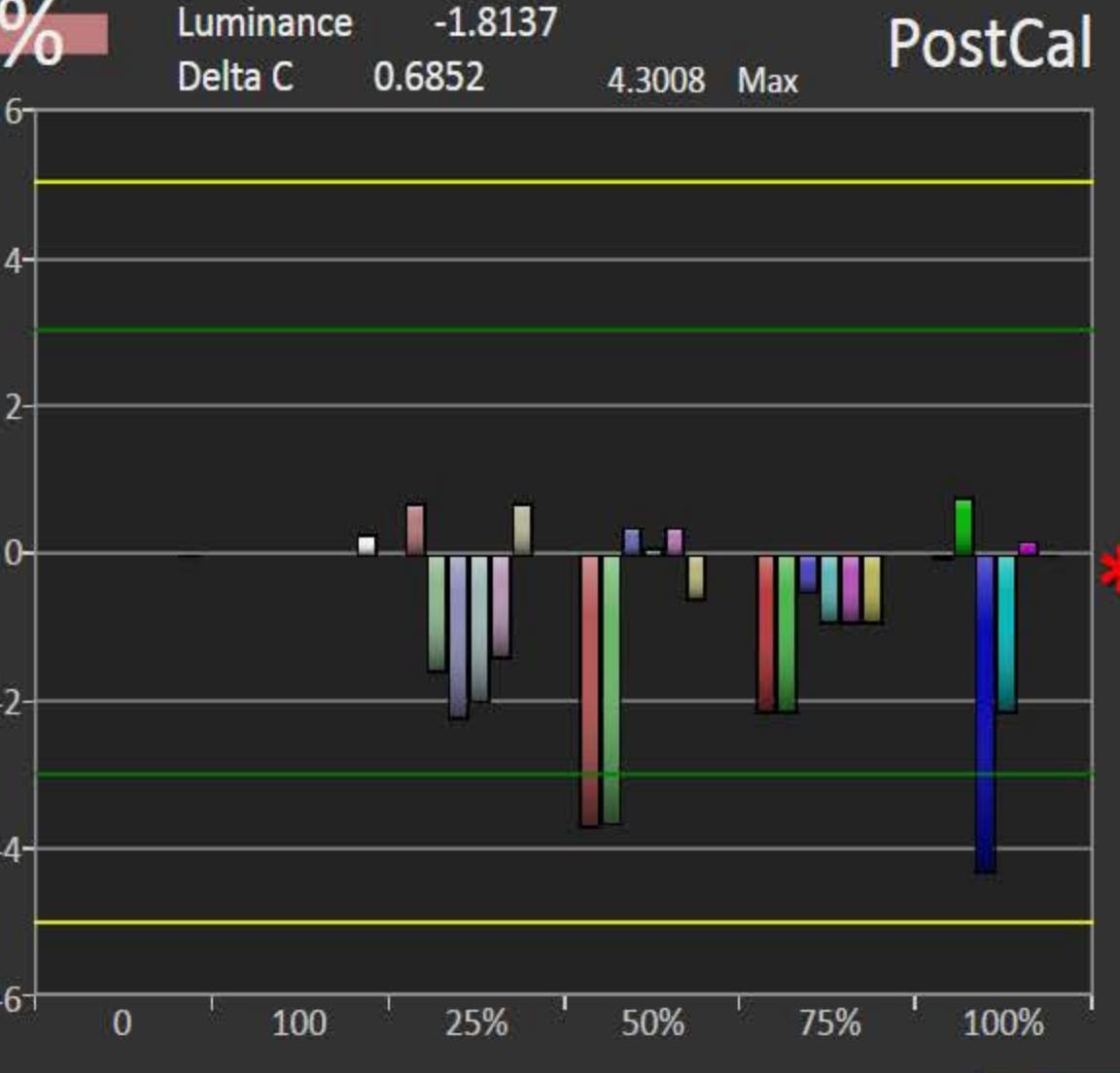
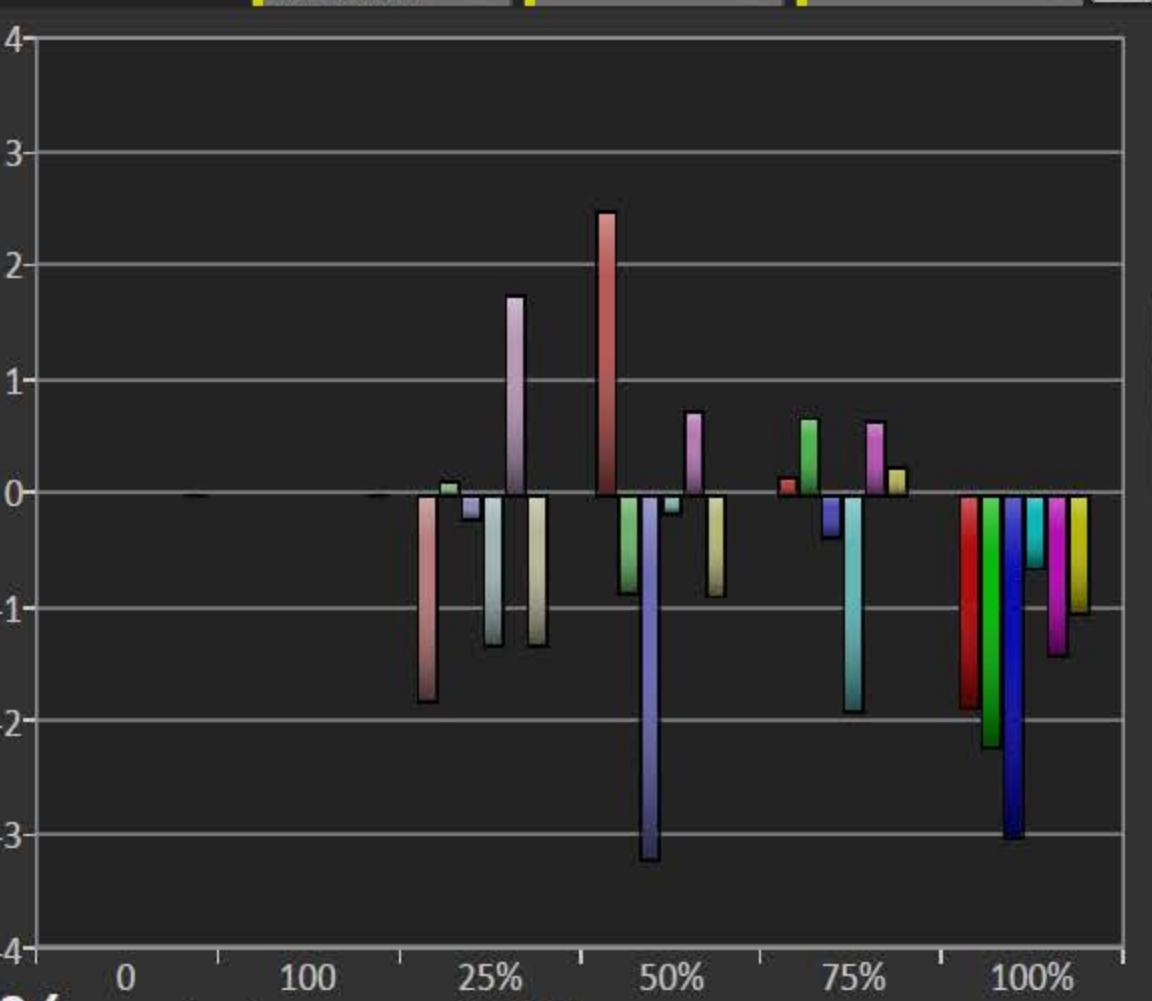
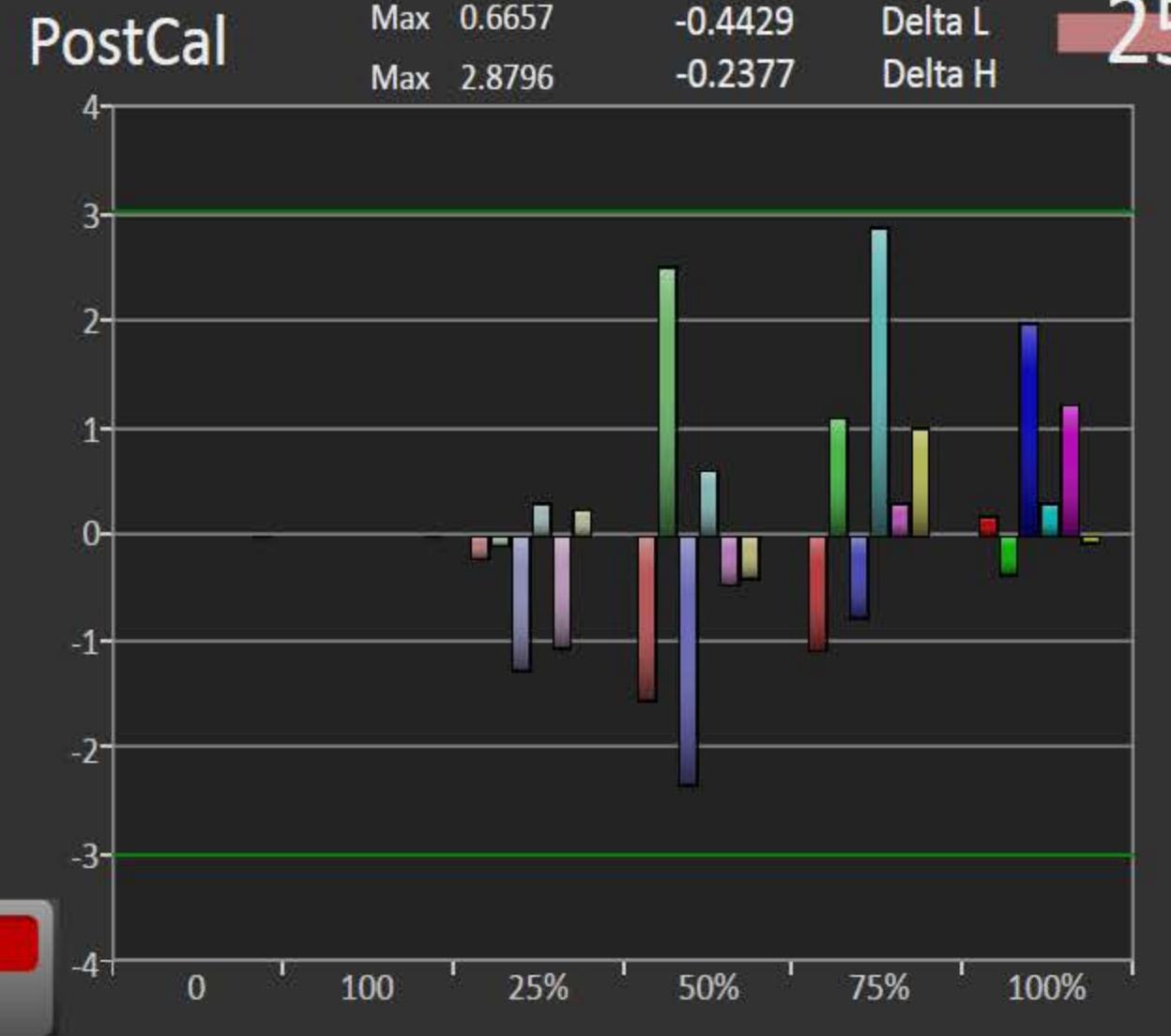
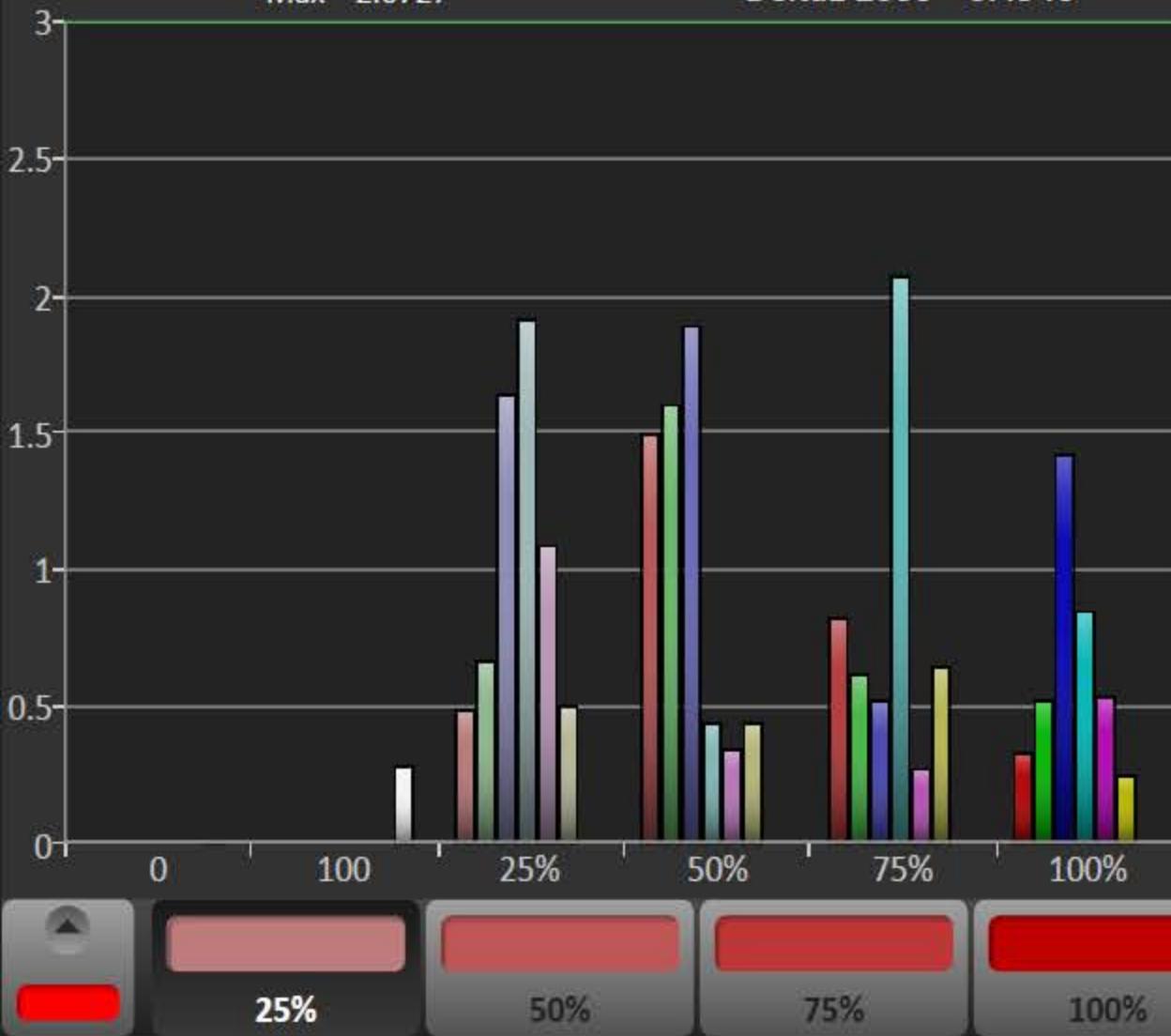
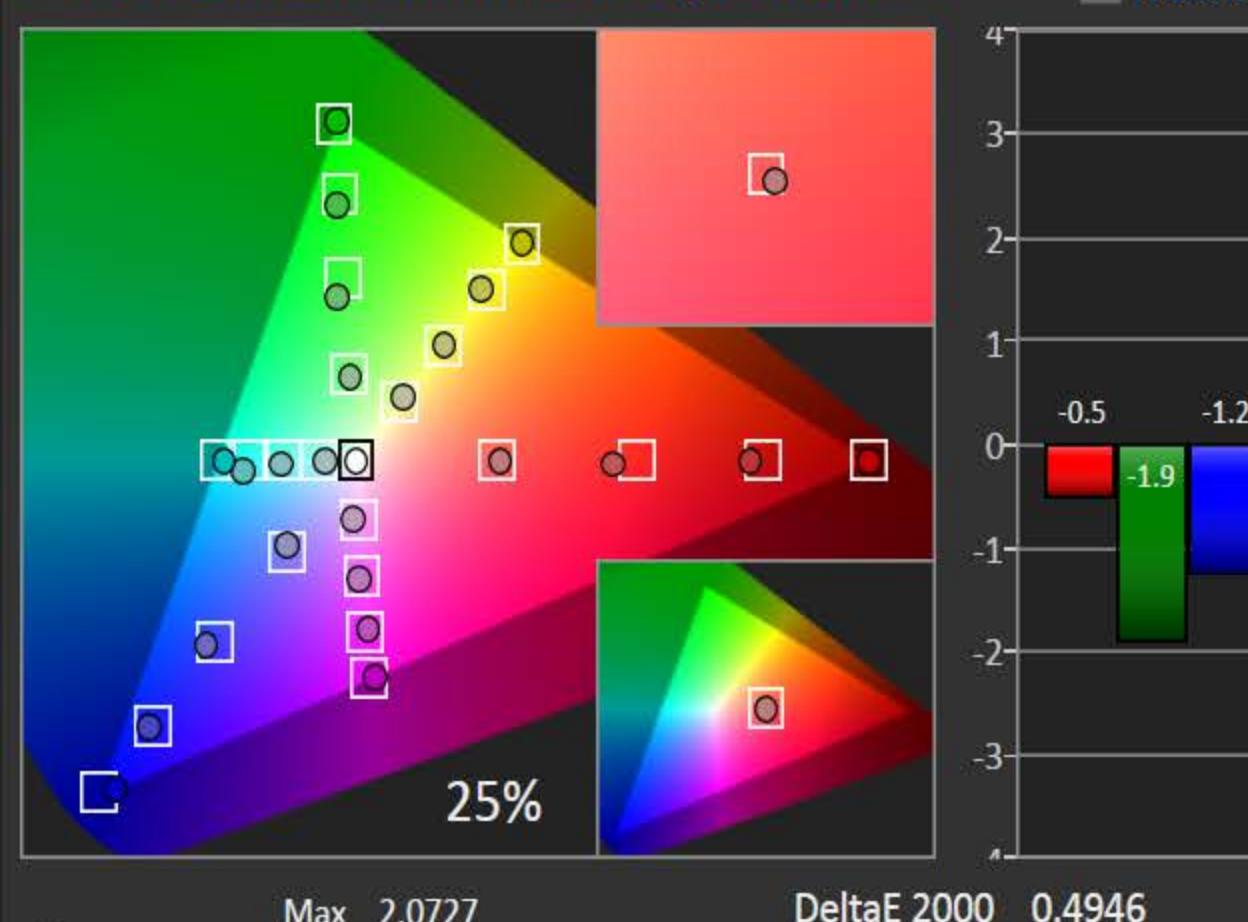
Back

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≡ Post-Cal Saturation Sweeps Detail



Notes Mgmt Pre-Cal

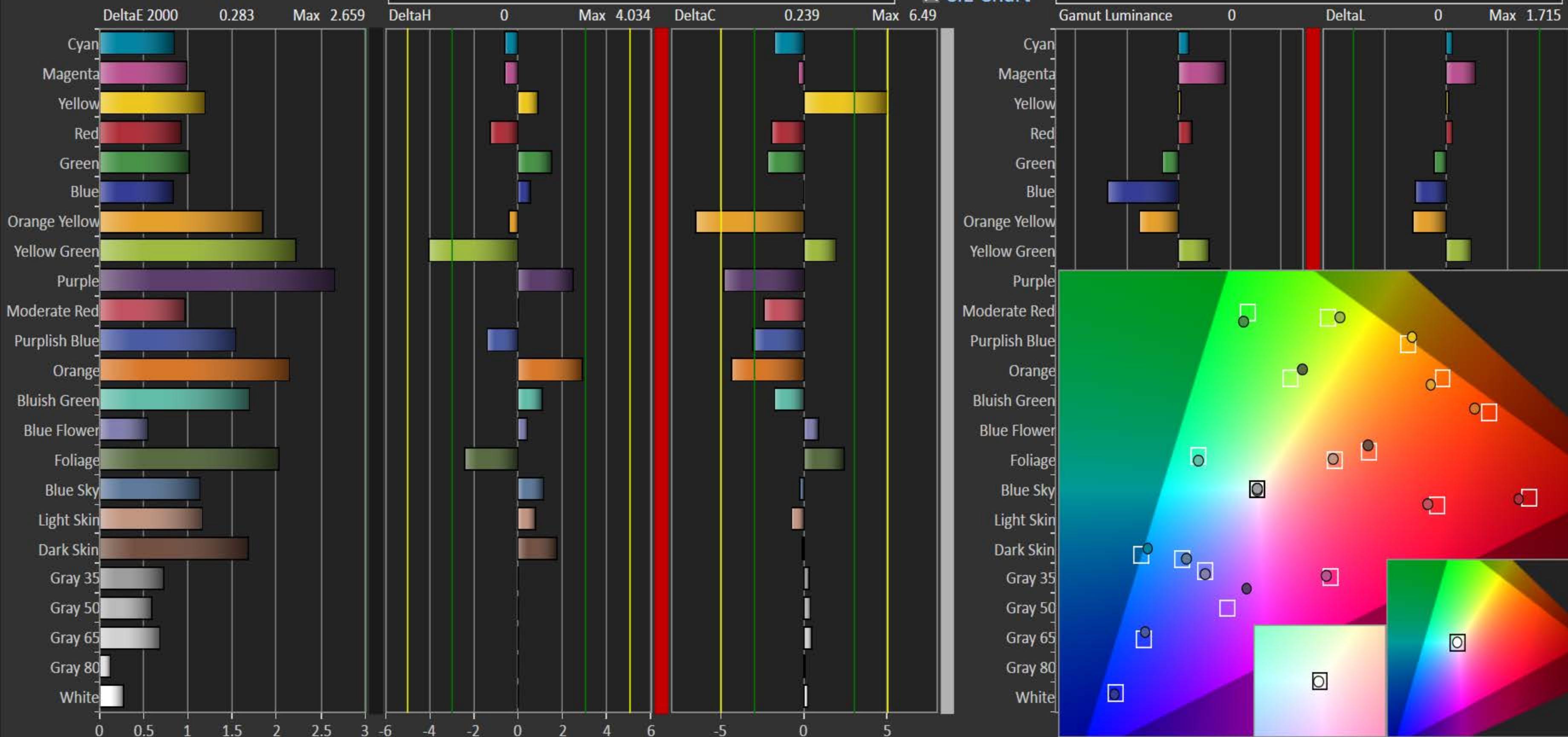
Next >>

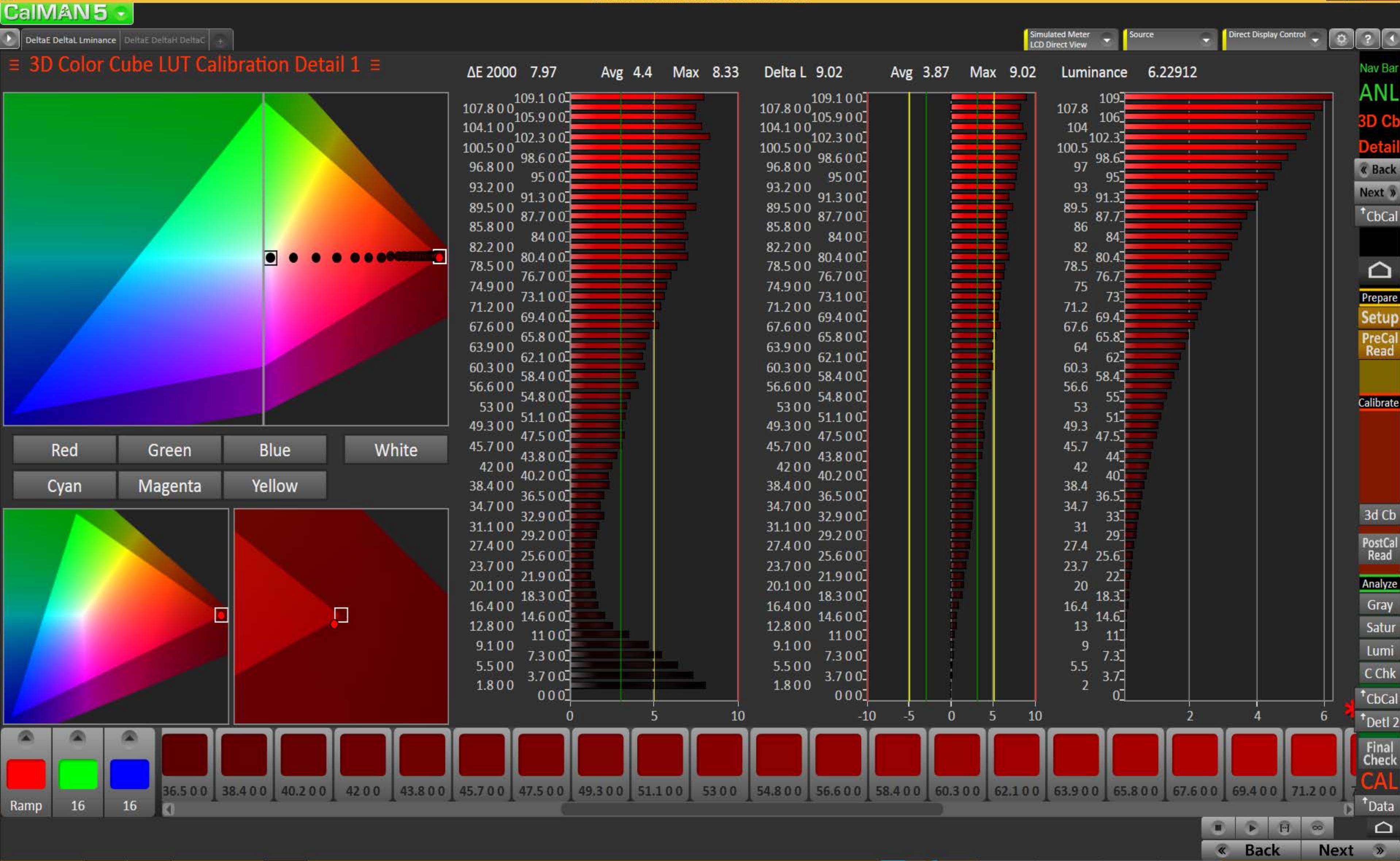
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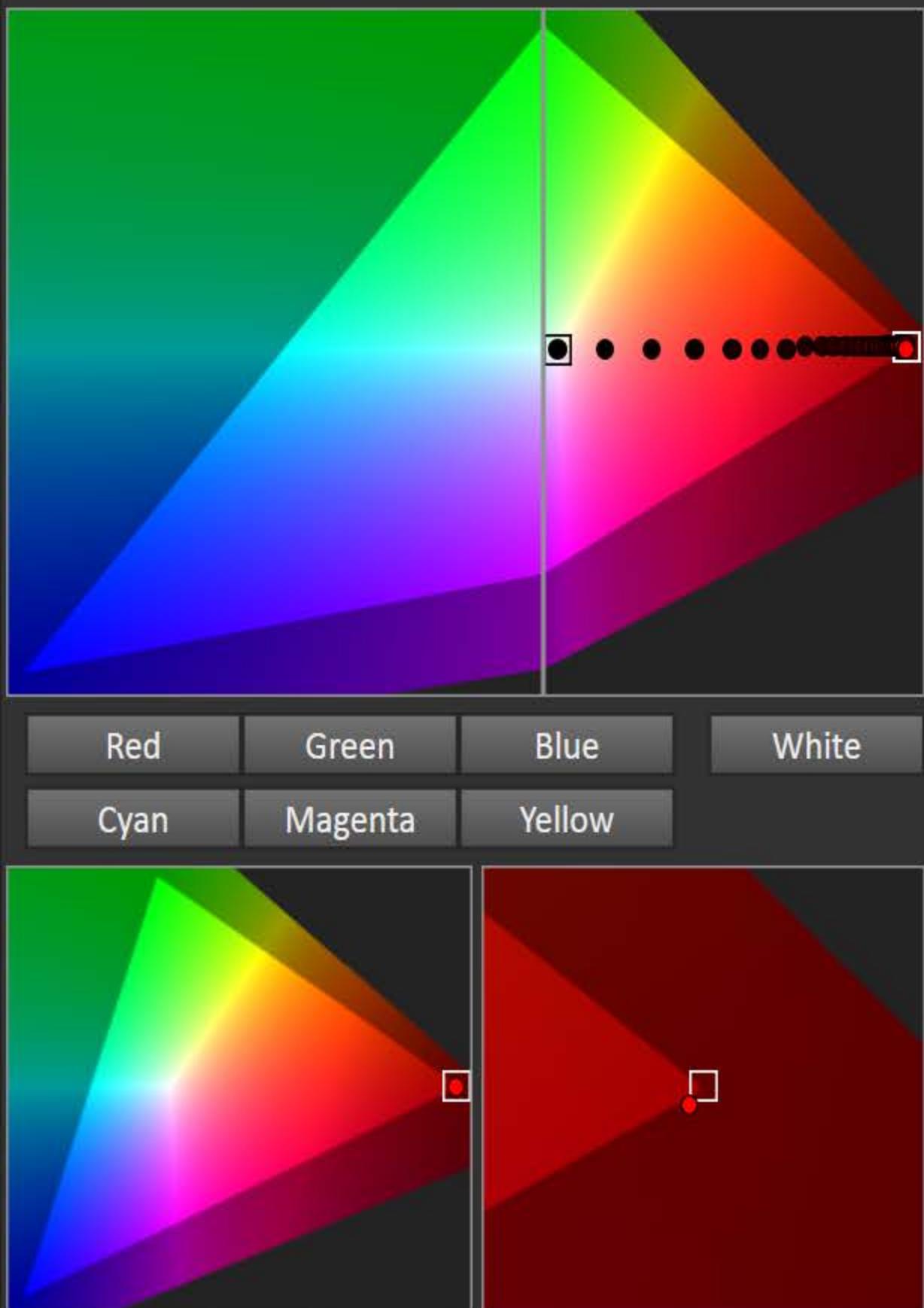
≡ Post-Cal Color Checker Detail ≡

PostCal - White

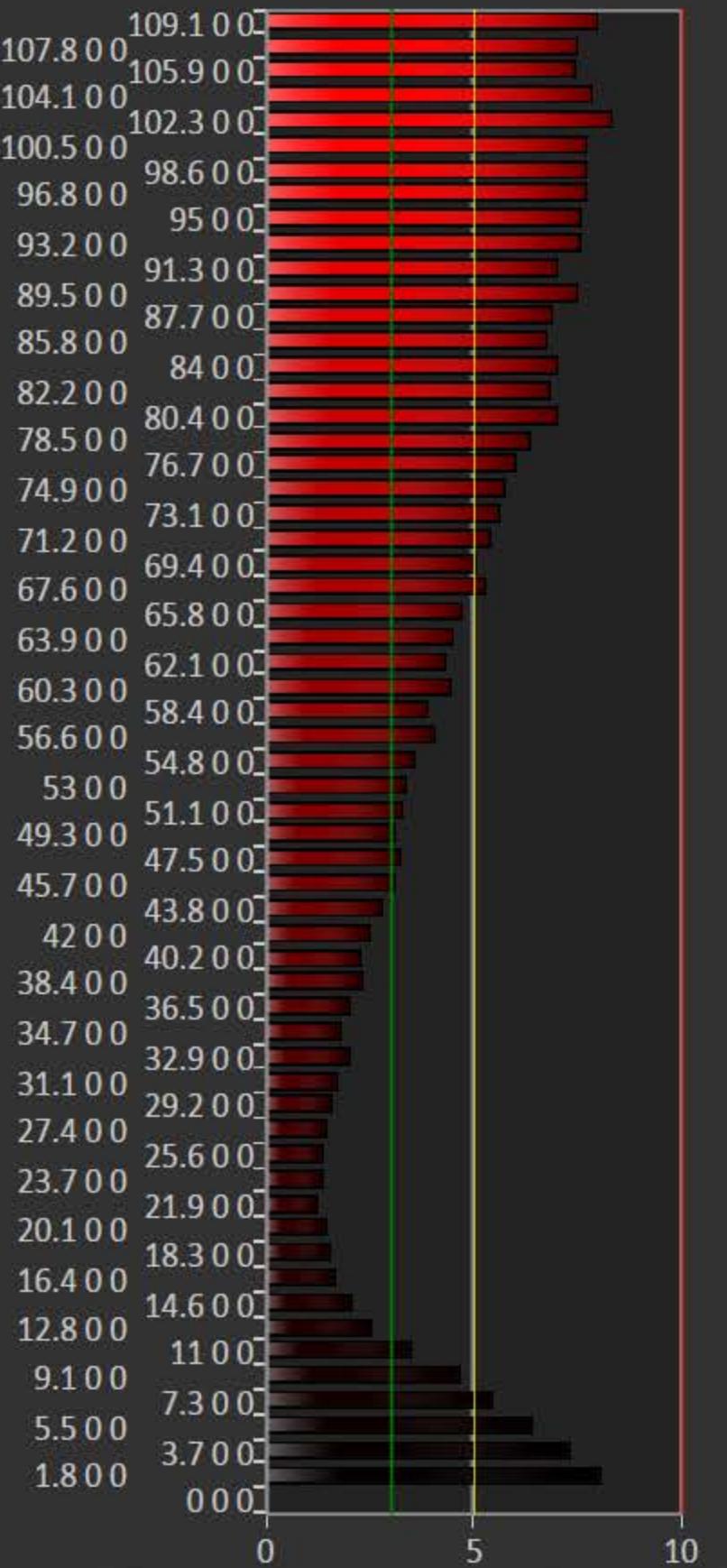




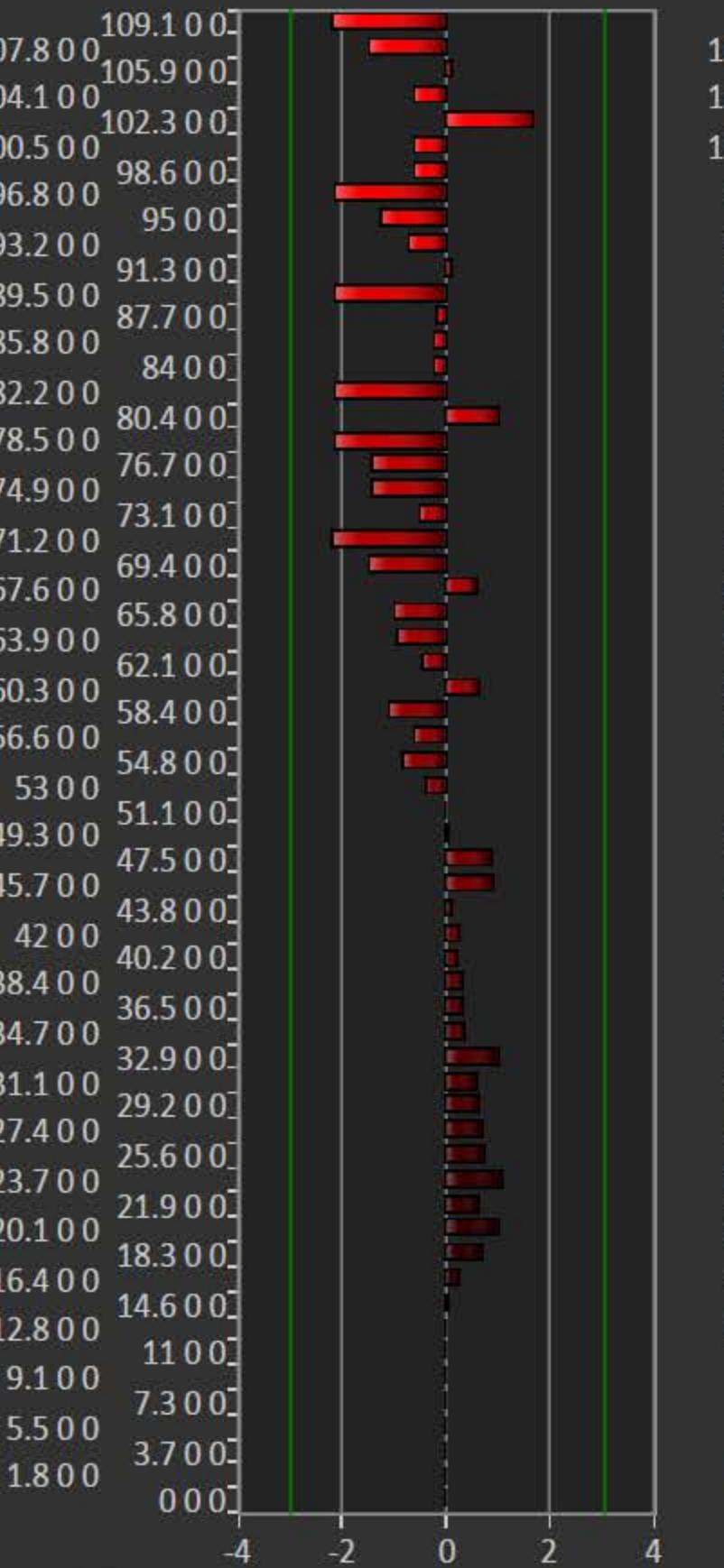
≡ 3D Color Cube LUT Calibration Detail 2 ≡



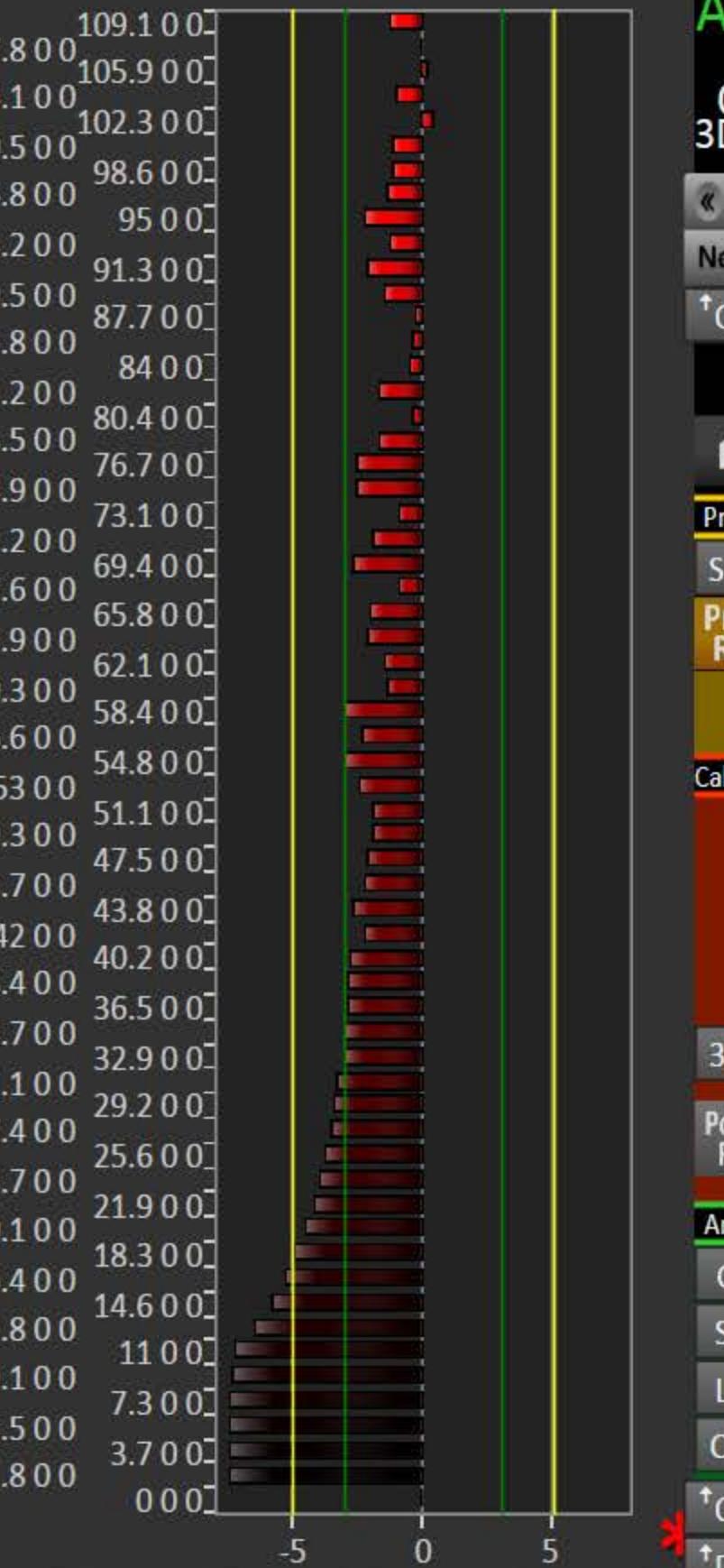
ΔE 2000 7.97 Avg 4.4 Max 8.33



Delta H -2.28 Avg -0.61 Max 2.28



Alta C -1.15 Avg 3.62 7.43 Max



Ramp 16 16 36.5 00 38.4 00 40.2 00 42 00 43.8 00

45.7 0 0 | 47.5 0 0 | 49.3 0 0 | 51.1 0 0 | 53 0 0

56.600 58.400 60.300 62.100 63.000

00 65.8 00 67.6 00 69.4 00 71.2 00 7

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Final
heck
CAL
Data

CalMAN 5 CalMAN Enthusiast for Home Video

Final Check + Simulated Meter LCD Direct View Source Direct Display Control ?

≡ Final Check ≡ Mode ISF Day

Contrast Verification
Data Points: select Clipping or Clipping with Peak White:

① Adjust the Backlight, Brightness and Contrast controls to optimize the white level so it doesn't clip any of the primaries.

Gamma Level Verification
Data Points: select a full set of grayscale points, e.g. 11: 12 Point 10% step 0-109%

② Check / adjust the gamma level across the full grayscale. Use the Backlight, Brightness, Contrast and Gamma controls to make this adjustment.

Luminance

109

29.7700778 fL

①

②

Post-Calibration Summary

	Grayscale dE	Avg	0.25	Saturation dE	Avg	0.87
	Max	0.4		Max	2.07	
Luminance dE	Avg	0.56	Color Checker dE	Avg	1.21	
	Max	1.56		Max	2.66	
3D Color Cube LUT	Avg	4.4	Gamma Total	Avg	2.41	
<small>3D LUT values come from Calibration layout</small>	Max	8.33	CCT Average	Avg	6530	
White	17.07	fL	Contrast Ratio	0		
Black	0					
Gamma Point						

Post-Calibration Notes

Big

Contrast
Brightness
Backlight

TV Gamma
Color
Tint

Red
Gain
Cut

Green
Source
Save

Blue
Direct Display Control
Notes Mgmt

ANL
Final
Check
Back
Setup
PreCal
Read
DyRng
Calibrate
Gray
PostCal
Read
Analyze
Gray
Satur
Lumi
C Chk
3d Cb
Final
Check
Final

CalMAN 5

Notes Management

Simulated Meter
LCD Direct View

Source

Direct Display Control

**Setup Notes****Calibration Notes****Pre-Calibration Notes****Calibration Description / Goals****Color Notes****Post-Calibration Notes**Nav Bar
REF
Notes

Intro



Prepare

Setup

PreCal
Read

DyRng

Calibrate

Gray

Satur

Lumi

C Chk

3d Cb

PostCal
Read

Analyze

Gray

Satur

Lumi

C Chk

3d Cb

Final

Check

PostCal Read Session Setup

Home Final Check

CalMAN 5		CalMAN 5 CalMAN Enthusiast for Home Video																		
Grayscale Datagrids		Simulated Meter LCD Direct View																		
≡ Pre-Cal Multi-Point Grayscale Data ≡		Pre-Cal																		
≡ Post-Cal Multi-Point Grayscale Data ≡		Post-Cal																		
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
RGB Triplet		27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202	213, 213,	
RedIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
GreenIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
BlueIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
X		0.3467	0.8258	1.5692	2.5524	3.8631	5.6866	7.7897	9.8346	13.0645	16.4162	19.8698	24.1279	28.5387	34.6653	39.7887	46.1490	52.7437	59.7754	
Y cd/m ²		0.3648	0.8744	1.6510	2.6855	4.0907	5.9811	8.1933	10.4102	13.6582	17.1623	20.7729	25.2315	30.2198	36.4726	41.8630	48.5549	55.8506	62.4920	
Z		0.3972	0.9575	1.7978	2.9243	4.4793	6.4013	8.7689	11.2044	14.7896	18.5840	22.4937	27.7973	33.0906	39.7156	45.5854	52.8722	61.1562	67.6687	
Xn 0-1		0.0043	0.0101	0.0192	0.0313	0.0474	0.0697	0.0955	0.1206	0.1602	0.2014	0.2437	0.2959	0.3500	0.4252	0.4880	0.5660	0.6469	0.7332	
Yn 0-1		0.0045	0.0107	0.0202	0.0329	0.0502	0.0734	0.1005	0.1277	0.1675	0.2105	0.2548	0.3095	0.3707	0.4473	0.5135	0.5955	0.6850	0.7665	
Zn 0-1		0.0049	0.0117	0.0221	0.0359	0.0549	0.0785	0.1076	0.1374	0.1814	0.2279	0.2759	0.3409	0.4059	0.4871	0.5591	0.6485	0.7501	0.8300	
Stimulus Percent		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
RED Stim%:0-1		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
GRN Stim%:0-1		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
BLU Stim%:0-1		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
≡ Post-Cal Multi-Point Grayscale Data ≡		Post-Cal																		
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
RGB Triplet		27, 27, 27	38, 38, 38	49, 49, 49	60, 60, 60	71, 71, 71	82, 82, 82	93, 93, 93	104, 104, 104	115, 115, 115	126, 126, 126	136, 136, 136	147, 147, 147	158, 158, 158	169, 169, 169	180, 180, 180	191, 191, 191	202, 202, 202	213, 213,	
RedIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
GreenIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
BlueIndex		27.0000	38.0000	49.0000	60.0000	71.0000	82.0000	93.0000	104.0000	115.0000	126.0000	136.0000	147.0000	158.0000	169.0000	180.0000	191.0000	202.0000	213.0000	
X		0.0470	0.2448	0.6316	1.1595	1.9995	3.0307	4.4471	6.2338	8.3504	10.5603	13.0909	16.0218	19.5435	23.4139	27.6047	32.3000	37.5045	42.7889	
Y cd/m ²		0.0493	0.2570	0.6629	1.2231	2.1099	3.1914	4.6784	6.5549	8.7780	11.1178	13.7587	16.8381	20.5529	24.6418	29.0577	34.0192	39.4506	45.0215	
Z		0.0561	0.2825	0.7303	1.3365	2.2694	3.4717	5.1234	7.1996	9.5393	12.0533	14.9911	18.3730	22.4434	26.7765	31.6785	37.0770	43.1336	49.1474	
Xn 0-1		0.0008	0.0042	0.0108	0.0198	0.0342	0.0518	0.0760	0.1066	0.1428	0.1805	0.2238	0.2739	0.3341	0.4003	0.4719	0.5522	0.6412	0.7315	
Yn 0-1		0.0008	0.0044	0.0113	0.0209	0.0361	0.0546	0.0800	0.1121	0.1501	0.1901	0.2352	0.2879	0.3514	0.4213	0.4968	0.5816	0.6744	0.7697	
Zn 0-1		0.0010	0.0048	0.0125	0.0228	0.0388	0.0594	0.0876	0.1231	0.1631	0.2061	0.2563	0.3141	0.3837	0.4578	0.5416	0.6339	0.7374	0.8402	
Stimulus Percent		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
RED Stim%:0-1		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516	0.4018	0.4521	0.5023	0.5479	0.5982	0.6484	0.6986	0.7489	0.7991	0.8493	0.8995	
GRN Stim%:0-1		0.0502	0.1005	0.1507	0.2009	0.2511	0.3014	0.3516</												

CalMAN 5 CalMAN Enthusiast for Home Video

Saturation Datagrids + Simulated Meter LCD Direct View Source Direct Display Control ?

≡ Pre-Cal Saturation Sweeps Data ≡

	25%	50%	75%	100%
RGB Triplet	180, 180, 150	180, 180, 121	180, 180, 88	180, 180, 16
Target x:CIE31	0.3396	0.3657	0.3918	0.4193
x: CIE31	0.3423	0.3647	0.3947	0.4169
Target y:CIE31	0.3734	0.4165	0.4598	0.5053
y: CIE31	0.3766	0.4203	0.4593	0.5066
Target Y	12.1604	11.9248	11.7392	11.5834
Y	12.1334	11.4299	11.2541	11.1117
Gamma Point: Flat	2.5380	2.8287	2.9041	2.9661
ΔE 2000	0.7658	1.2622	1.1850	1.1152
dE2000 LuminanceCompensated	0.7709	0.9284	0.7120	0.5725
ΔE 1994 L*:±	-0.0687	-1.2929	-1.2805	-1.2559
ΔE 1994 Sat:±	1.3092	0.7938	-0.5260	-1.1479
ΔE 1994 Hue:±	-0.3574	1.1332	-1.1667	1.0879
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 C LuminanceCompensated	1.3229	1.2988	0.2361	-0.0721
Signed dE94 H LuminanceCompensated	-0.3572	1.1252	-1.1585	1.0804

≡ Post-Cal Saturation Sweeps Data ≡

	25%	50%	75%	100%
RGB Triplet	180, 123, 123	180, 90, 90	180, 64, 64	180, 16, 16
Target x:CIE31	0.4026	0.4925	0.5723	0.6400
x: CIE31	0.4043	0.4771	0.5639	0.6398
Target y:CIE31	0.3293	0.3296	0.3298	0.3300
y: CIE31	0.3285	0.3273	0.3289	0.3304
Target Y	4.2157	2.8031	2.1617	1.8104
Y	4.1392	2.8725	2.1648	1.7764
Gamma Point: Flat	4.8935	6.1567	7.1348	7.8185
ΔE 2000	0.4946	1.4948	0.8199	0.3349
dE2000 LuminanceCompensated	0.3441	1.5010	0.8247	0.0884
ΔE 1994 L*:±	-0.4429	0.5204	0.0276	-0.3467
ΔE 1994 Sat:±	0.5036	-3.3072	-2.0952	-0.5721
ΔE 1994 Hue:±	-0.2377	-1.5338	-1.0988	0.1644
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000
Signed dE94 C LuminanceCompensated	0.6852	-3.7176	-2.1265	-0.0476
Signed dE94 H LuminanceCompensated	-0.2370	-1.5400	-1.0991	0.1649

Pre-Cal Click Change Selection then right-click on eitherdatagrid chart (ESCAPE the context menu) to show possible selections Post-Cal

Change Selection X

25% 50% 75% 100% 25% 50% 75% 100% Pre-Cal Post-Cal

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ANL

PreCal PostCal Prepare PreCal Read Calibrate Satur PostCal Read Datagrid Gray Sat Lumi C Chk Final Check Notes GRD

CalMAN 5 CalMAN Enthusiast for Home Video

Color Check Datagrids + Simulated Meter LCD Direct View Source Direct Display Control ?

Pre-Cal Color Checker Data

Pre-Cal

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Gre
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	202, 119, 51	80, 95, 156	182, 88, 99	95, 69, 108	152, 176,
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781
x: CIE31	0.3147	0.3107	0.3147	0.3107	0.3147	0.4003	0.3813	0.2495	0.3418	0.2681	0.2638	0.5152	0.2146	0.4653	0.2876	0.3736
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025
y: CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3620	0.3582	0.2634	0.4257	0.2500	0.3622	0.4053	0.1932	0.3131	0.2253	0.4935
Target Y	23.7957	18.4566	14.8623	11.2027	7.5845	1.9224	7.7240	3.9087	2.6026	4.9756	9.4147	6.2242	2.3239	3.9485	1.2173	9.6869
Y	23.7957	18.6114	14.8148	11.5508	8.0064	2.3188	8.2991	4.3504	3.0276	5.4215	9.9731	6.4772	2.6726	4.2426	1.5354	10.0495
Gamma Point: Flat	2.4000	2.3211	2.4163	2.3025	2.2864	2.9327	3.8016	3.4591	2.3772	3.9784	2.8845	7.9671	4.8867	6.2232	3.1601	2.7461
ΔE 2000	1.5767	1.4803	1.3552	1.4299	1.6359	2.8932	1.6956	2.3847	2.7565	1.9794	1.4627	1.2368	3.2085	1.7830	3.1614	1.2387
dE2000 LuminanceCompensated	1.5767	1.4688	1.3533	1.2590	1.1086	1.7862	0.7587	0.9487	1.6432	0.7524	0.9276	1.0791	2.8465	1.2562	2.7472	1.1065
ΔE 1994 L*:±	0.0000	0.2971	-0.1058	0.9252	1.4429	3.2342	1.9314	2.3080	2.8687	1.9981	1.6513	0.9915	2.5478	1.5446	3.4645	1.0596
ΔE 1994 Sat:±	1.1253	1.0437	0.9608	0.8903	0.7827	-1.8896	-0.4606	-0.7768	-2.0630	-0.7095	-1.3215	-3.3674	-4.3089	-2.6492	-3.8759	-2.9558
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0040	0.5508	0.5321	-0.3940	0.3858	-0.6957	0.3116	-2.2576	-0.6475	-0.7839	1.0466
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Post-Cal Color Checker Data

Post-Cal

	White	Gray 80	Gray 65	Gray 50	Gray 35	Dark Skin	Light Skin	Blue Sky	Foliage	Blue Flower	Bluish Green	Orange	Purplish Blue	Moderate Red	Purple	Yellow Gre
RGB Triplet	235, 235, 235	213, 213, 213	196, 196, 196	176, 176, 176	152, 152, 152	115, 86, 73	182, 145, 128	97, 121, 150	93, 108, 73	128, 126, 167	101, 178, 161	202, 119, 51	80, 95, 156	182, 88, 99	95, 69, 108	152, 176,
Target x:CIE31	0.3127	0.3127	0.3127	0.3127	0.3127	0.4154	0.3845	0.2442	0.3430	0.2646	0.2593	0.5260	0.2083	0.4790	0.2855	0.3781
x: CIE31	0.3126	0.3125	0.3125	0.3125	0.3124	0.4143	0.3829	0.2473	0.3551	0.2645	0.2589	0.5132	0.2099	0.4696	0.3028	0.3887
Target y:CIE31	0.3290	0.3290	0.3290	0.3290	0.3290	0.3662	0.3580	0.2593	0.4398	0.2460	0.3624	0.4054	0.1782	0.3124	0.2084	0.5025
y: CIE31	0.3286	0.3288	0.3298	0.3281	0.3295	0.3724	0.3593	0.2593	0.4500	0.2440	0.3583	0.4110	0.1845	0.3141	0.2283	0.5025
Target Y	17.0341	13.2121	10.6392	8.0194	5.4293	1.3761	5.5292	2.7981	1.8631	3.5618	6.7395	4.4556	1.6636	2.8265	0.8714	6.9343
Y	17.0341	13.1748	10.6294	7.9102	5.2870	1.3886	5.3280	2.8261	1.9119	3.5630	6.3405	4.3807	1.6245	2.9107	0.9062	7.1401
Gamma Point: Flat	2.4000	2.4267	2.4047	2.4437	2.4558	3.1576	4.1945	3.6568	2.5218	4.2083	3.2781	8.3148	5.2523	6.3766	3.3827	2.7700
ΔE 2000	0.2833	0.1284	0.6913	0.5932	0.7361	1.6780	1.1710	1.1412	2.0187	0.5482	1.6995	2.1489	1.5473	0.9755	2.6589	2.2125
dE2000 LuminanceCompensated	0.2833	0.1121	0.6910	0.5096	0.4391	1.6811	0.7597	1.1271	1.9259	0.5471	0.8461	2.0652	1.4245	0.9049	2.7652	2.0900
ΔE 1994 L*:±	0.0000	-0.1005	-0.0302	-0.4114	-0.6986	0.1507	-0.9789	0.2115	0.4804	0.0082	-1.7148	-0.4184	-0.4217	0.6261	0.5655	0.8420
ΔE 1994 Sat:±	0.2394	0.1114	0.5001	0.4147	0.3024	-0.0903	-0.7395	-0.2301	2.4496	0.8687	-1.8045	-4.3567	-3.0902	-2.4178	-4.7885	1.8974
ΔE 1994 Hue:±	0.0000	0.0000	0.0000	0.0000	0.0000	1.7605	0.7681	1.1527	-2.4132	0.4422	1.0650	2.9189	-1.3587	-0.0041	2.4898	-4.0145
Signed dE94 L LuminanceCompensated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Click Change Selection then right-click on either datagrid chart (ESCAPE the context menu) to show possible selections

Change Selection X

Simulated Meter LCD Direct View Source Direct Display Control ?

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