

Image Analysis Report

**Ashley_Tamisha_Rasheda__D01025__D010
25__May 16 2024__Station4leftcamera__9-
38 AM.tif**

10:23:43 AM Thursday, May 16, 2024

Image Science Associates

Table 1: EXIF Data

Tag Name	Tag Value
Image Width	6943
Image Height	9726
Bits Per Sample	16 16 16
Compression	Uncompressed
Photometric Interpretation	RGB
Make	Phase One
Camera Model Name	iXH 150MP
Strip Offsets	(Binary data 488 bytes, use -b option to extract)
Orientation	Horizontal (normal)
Samples Per Pixel	3
Rows Per Strip	192
Strip Byte Counts	(Binary data 407 bytes, use -b option to extract)
X Resolution	600
Y Resolution	600
Planar Configuration	Chunky
Resolution Unit	inches
Software	Capture One Macintosh
Exposure Time	1/6
F Number	8.0
Exposure Program	Program AE
ISO	100
Exif Version	0230

Tag Name	Tag Value
Date/Time Original	2024:05:16 09:27:30
Create Date	2024:05:16 09:27:30
Shutter Speed Value	1/6
Aperture Value	8.0
Exposure Compensation	0
Light Source	Flash
Focal Length	72.0 mm
Exif Image Width	6943
Exif Image Height	9726
Focal Plane X Resolution	2659.574463
Focal Plane Y Resolution	2659.574463
Focal Plane Resolution Unit	cm
Sensing Method	One-chip color area
File Source	Digital Camera
Scene Type	Directly photographed
White Balance	Unknown (4)
Image Unique ID	000000004E4130333030383800000934
Serial Number	NA030088
Lens Info	72mm f/5.599992889-21.99997864
Lens Model	Phase One RS-72mm MkII/iXG
Lens Serial Number	UL001288
Subfile Type	Reduced-resolution image
Image Width	114
Image Height	160
Bits Per Sample	8 8 8
Compression	Uncompressed

Tag Name	Tag Value
Photometric Interpretation	RGB
Strip Offsets	405172882
Samples Per Pixel	3
Rows Per Strip	160
Strip Byte Counts	54720
Planar Configuration	Chunky
Thumbnail TIFF	(Binary data 54936 bytes, use -b option to extract)

Table 2: Image & Profile Data

Golden Thread Version:	10.35.0.0 Cloud
Image Name:	Ashley_Tamisha_Rasheda__D01025__D01025__May 16 2024__Station4leftcamera__9-38 AM.tif
Date & Time:	05/16/2024 10:16:33
Profile Name:	Bound Volumes Rare
Description:	
Target Type:	Device
Images Folder:	images
Production Mode:	Automatic
Operator:	
System Name:	
Location:	
Test Mode:	
Camera:	
Lens:	
Lighting:	d65
Color Model:	Adobe RGB (1998)
Adaptation:	von Kries
Comments:	
Delta E Mask File:	No Delta E mask file specified

Table 3: Lightness / Tone Response

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Lightness / Tone Response	92% ****				8%
Patch No. 10	****		96.00	96.99 (98.00)	100.00
Patch No. 11	****		90.83	92.20 (92.83)	94.83
Patch No. 12	****		86.17	87.74 (88.17)	90.17
Patch No. 13	****		80.97	82.65 (82.97)	84.97
Patch No. 14	****		70.68	72.62 (72.68)	74.68
Patch No. 15	****		60.70	62.44 (62.70)	64.70
Patch No. 16	****		47.31	49.54 (49.31)	51.31
Patch No. 17	****		36.76	39.81 (38.76)	40.76
Patch No. 18	****		26.25	28.24 (28.25)	30.25
Patch No. 19	****		14.53	17.38 (16.53)	18.53
Patch No. 20	***		6.79 (9.79)	8.70 (11.79)	16.79 (13.79)
Patch No. 21	****		3.08	4.70 (5.08)	7.08

Table 4: Delta E(a*b*) / White Balance

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Delta E(a*b*) / White Balance	<div>58% ****</div> <div>42% ***</div>				
Patch No. 10	***		0.00 (0.00)	2.25	4.00 (2.00)
Patch No. 11	****		0.00	1.72	2.00
Patch No. 12	***		0.00 (0.00)	2.19	4.00 (2.00)
Patch No. 13	***		0.00 (0.00)	2.01	4.00 (2.00)
Patch No. 14	***		0.00 (0.00)	2.33	4.00 (2.00)
Patch No. 15	***		0.00 (0.00)	2.13	4.00 (2.00)
Patch No. 16	****		0.00	1.74	2.00
Patch No. 17	****		0.00	1.76	2.00
Patch No. 18	****		0.00	1.21	2.00
Patch No. 19	****		0.00	1.18	2.00
Patch No. 20	****		0.00	0.91	2.00
Patch No. 21	****		0.00	0.39	2.00

Table 5: Lightness Uniformity

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Lightness Uniformity	100% ****				
Lightness	****		0.00	0.01	0.01

Table 6: Avg & 90% Color Accuracy - DeltaE 2000

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Avg & 90% Color Accuracy - DeltaE 2000	100% ****				
All Patches					
Max	****		0.00	4.73	6.00
Mean	****		0.00	2.09	3.00
90th Percentile	****		0.00	3.70	4.00
Patch No. 1				2.99	
Patch No. 2				2.13	
Patch No. 3				0.81	
Patch No. 4				2.32	
Patch No. 5				1.93	
Patch No. 6				0.97	
Patch No. 7	90%			4.73	
Patch No. 8				1.36	
Patch No. 9				0.81	
Patch No. 10				2.33	
Patch No. 11				1.77	
Patch No. 12				2.20	
Patch No. 13				2.02	
Patch No. 14				2.33	
Patch No. 15				2.14	
Patch No. 16				1.76	
Patch No. 17				1.98	
Patch No. 18				1.21	
Patch No. 19				1.31	
Patch No. 20				2.15	
Patch No. 21				0.46	

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Patch No. 22				2.23	
Patch No. 23				3.42	
Patch No. 24	90%			3.98	
Patch No. 25				2.32	
Patch No. 26				2.74	
Patch No. 27				1.11	
Patch No. 28	90%			4.21	
Patch No. 29				0.98	
Patch No. 30				1.99	

Table 7: Color - Registration

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Color - Registration	93% ****				7%
Horizontal	***				
CC Green-Red	****		-0.33	0.06	0.33
CC Green-Blue	****		-0.33	-0.01	0.33
CC Blue-Red	****		-0.33	0.08	0.33
TL Green-Red	****		-0.33	-0.01	0.33
TL Green-Blue	****		-0.33	0.23	0.33
TL Blue-Red	****		-0.33	-0.24	0.33
TR Green-Red	****		-0.33	0.00	0.33
TR Green-Blue	****		-0.33	0.29	0.33
TR Blue-Red	****		-0.33	-0.29	0.33
BL Green-Red	****		-0.33	0.03	0.33
BL Green-Blue	****		-0.33	-0.30	0.33
BL Blue-Red	***		-0.50 (-0.33)	0.34 (0.00)	0.50 (0.33)
BR Green-Red	****		-0.33	0.06	0.33
BR Green-Blue	****		-0.33	-0.31	0.33
BR Blue-Red	***		-0.50 (-0.33)	0.37 (0.00)	0.50 (0.33)
Vertical	****				
CC Green-Red	****		-0.33	-0.03	0.33
CC Green-Blue	****		-0.33	-0.02	0.33
CC Blue-Red	****		-0.33	-0.01	0.33
TL Green-Red	****		-0.33	-0.03	0.33
TL Green-Blue	****		-0.33	0.14	0.33
TL Blue-Red	****		-0.33	-0.16	0.33
TR Green-Red	****		-0.33	0.01	0.33
TR Green-Blue	****		-0.33	-0.11	0.33

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
TR Blue-Red	****		-0.33	0.11	0.33
BL Green-Red	****		-0.33	-0.03	0.33
BL Green-Blue	****		-0.33	0.05	0.33
BL Blue-Red	****		-0.33	-0.08	0.33
BR Green-Red	****		-0.33	0.01	0.33
BR Green-Blue	****		-0.33	-0.19	0.33
BR Blue-Red	****		-0.33	0.19	0.33

Table 8: Sampling Frequency - Resolution

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Sampling Frequency - Resolution	100%***				
Vert Sampling Freq	***		588.00 (594.00)	593.38 (600.00)	-
Horz Sampling Freq	***		588.00 (594.00)	593.24 (600.00)	-

Table 9: Reproduction Scale Accuracy

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Reproduction Scale Accuracy	100%***				
Vert Sampling Freq	***		588.00 (594.00)	593.38 (600.00)	612.00 (606.00)
Horz Sampling Freq	***		588.00 (594.00)	593.24 (600.00)	612.00 (606.00)

Table 10: 10% SFR - Sampling Efficiency

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
10% SFR - Sampling Efficiency	64%****		36%***		
Center - Vert	****				
Red	****		0.90/534.05 dpi	1.01/601.55 dpi	
Green	****		0.90/534.05 dpi	1.03/611.49 dpi	
Blue	****		0.90/534.05 dpi	1.03/613.38 dpi	
Lightness	****		0.90/534.05 dpi	1.03/610.85 dpi	
Red Nyquist Amp	****			0.10	0.20
Green Nyquist Amp	****			0.12	0.20
Blue Nyquist Amp	****			0.12	0.20
Lightness Nyquist Amp	****			0.12	0.20
Top Left - Vert	***				
Red	****		0.90/534.05 dpi	0.92/543.15 dpi	
Green	****		0.90/534.05 dpi	0.97/572.89 dpi	
Blue	****		0.90/534.05 dpi	0.97/577.70 dpi	
Lightness	****		0.90/534.05 dpi	0.94/555.02 dpi	
Red Nyquist Amp	****			0.06	0.20
Green Nyquist Amp	****			0.08	0.20
Blue Nyquist Amp	****			0.08	0.20
Lightness Nyquist Amp	****			0.07	0.20
Top Right - Vert	***				
Red	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.86/513.02 dpi	

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Green	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.88/522.26 dpi	
Blue	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.88/523.80 dpi	
Lightness	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.88/519.72 dpi	
Red Nyquist Amp	****			0.04	0.20
Green Nyquist Amp	****			0.04	0.20
Blue Nyquist Amp	****			0.05	0.20
Lightness Nyquist Amp	****			0.04	0.20
Bottom Left - Vert	***				
Red	****		0.90/534.05 dpi	0.95/565.79 dpi	
Green	****		0.90/534.05 dpi	1.01/599.65 dpi	
Blue	****		0.90/534.05 dpi	1.01/600.05 dpi	
Lightness	****		0.90/534.05 dpi	0.98/582.02 dpi	
Red Nyquist Amp	****			0.08	0.20
Green Nyquist Amp	****			0.10	0.20
Blue Nyquist Amp	****			0.10	0.20
Lightness Nyquist Amp	****			0.10	0.20
Bottom Right - Vert	***				
Red	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.89/530.28 dpi	
Green	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.90/536.96 dpi	
Blue	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.90/533.43 dpi	

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Lightness	***		0.80/474.71 dpi (0.90/534.05 dpi)	0.90/532.23 dpi	
Red Nyquist Amp	****			0.05	0.20
Green Nyquist Amp	****			0.06	0.20
Blue Nyquist Amp	****			0.05	0.20
Lightness Nyquist Amp	****			0.05	0.20
Center - Horz	****				
Red	****		0.90/533.91 dpi	0.98/579.97 dpi	
Green	****		0.90/533.91 dpi	1.05/625.61 dpi	
Blue	****		0.90/533.91 dpi	1.05/622.53 dpi	
Lightness	****		0.90/533.91 dpi	1.05/622.64 dpi	
Red Nyquist Amp	****			0.10	0.20
Green Nyquist Amp	****			0.11	0.20
Blue Nyquist Amp	****			0.11	0.20
Lightness Nyquist Amp	****			0.11	0.20
Top Left - Horz	***				
Red	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.88/519.15 dpi	
Green	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.89/527.59 dpi	
Blue	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.89/530.90 dpi	
Lightness	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.89/526.24 dpi	
Red Nyquist Amp	****			0.04	0.20
Green Nyquist Amp	****			0.04	0.20

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Blue Nyquist Amp	****			0.04	0.20
Lightness Nyquist Amp	****			0.04	0.20
Top Right - Horz	****				
Red	****		0.90/533.91 dpi	0.95/565.73 dpi	
Green	****		0.90/533.91 dpi	1.00/594.71 dpi	
Blue	****		0.90/533.91 dpi	1.00/594.31 dpi	
Lightness	****		0.90/533.91 dpi	0.97/574.92 dpi	
Red Nyquist Amp	****			0.09	0.20
Green Nyquist Amp	****			0.10	0.20
Blue Nyquist Amp	****			0.10	0.20
Lightness Nyquist Amp	****			0.09	0.20
Bottom Left - Horz	***				
Red	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.88/521.83 dpi	
Green	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.89/526.28 dpi	
Blue	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.89/530.14 dpi	
Lightness	***		0.80/474.59 dpi (0.90/533.91 dpi)	0.88/524.43 dpi	
Red Nyquist Amp	****			0.03	0.20
Green Nyquist Amp	****			0.04	0.20
Blue Nyquist Amp	****			0.03	0.20
Lightness Nyquist Amp	****			0.03	0.20
Bottom Right - Horz	****				
Red	****		0.90/533.91 dpi	0.99/586.41 dpi	

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Green	****		0.90/533.91 dpi	1.02/603.72 dpi	
Blue	****		0.90/533.91 dpi	1.01/599.10 dpi	
Lightness	****		0.90/533.91 dpi	1.01/601.90 dpi	
Red Nyquist Amp	****			0.10	0.20
Green Nyquist Amp	****			0.11	0.20
Blue Nyquist Amp	****			0.11	0.20
Lightness Nyquist Amp	****			0.11	0.20
Max SFR Amplitude	****		0.00	1.00	1.00

Table 11: 50% SFR

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
50% SFR	90% ****				10%
Center - Vert	****				
Red	****		0.45	0.59	0.65
Green	****		0.45	0.62	0.65
Blue	****		0.45	0.63	0.65
Lightness	****		0.45	0.61	0.65
Top Left - Vert	****				
Red	****		0.45	0.51	0.65
Green	****		0.45	0.57	0.65
Blue	****		0.45	0.58	0.65
Lightness	****		0.45	0.56	0.65
Top Right - Vert	****				
Red	****		0.45	0.50	0.65
Green	****		0.45	0.54	0.65
Blue	****		0.45	0.56	0.65
Lightness	****		0.45	0.53	0.65
Bottom Left - Vert	****				
Red	****		0.45	0.56	0.65
Green	****		0.45	0.61	0.65
Blue	****		0.45	0.61	0.65
Lightness	****		0.45	0.60	0.65
Bottom Right - Vert	****				
Red	****		0.45	0.56	0.65
Green	****		0.45	0.61	0.65
Blue	****		0.45	0.60	0.65

Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
Lightness	****		0.45	0.60	0.65
Center - Horz	****				
Red	****		0.45	0.59	0.65
Green	****		0.45	0.62	0.65
Blue	****		0.45	0.63	0.65
Lightness	****		0.45	0.61	0.65
Top Left - Horz	****				
Red	****		0.45	0.58	0.65
Green	****		0.45	0.62	0.65
Blue	****		0.45	0.63	0.65
Lightness	****		0.45	0.60	0.65
Top Right - Horz	****				
Red	****		0.45	0.63	0.65
Green	****		0.45	0.65	0.65
Blue	***		0.35 (0.45)	0.66	0.75 (0.65)
Lightness	****		0.45	0.65	0.65
Bottom Left - Horz	****				
Red	****		0.45	0.60	0.65
Green	****		0.45	0.61	0.65
Blue	****		0.45	0.62	0.65
Lightness	****		0.45	0.61	0.65
Bottom Right - Horz	***				
Red	****		0.45	0.65	0.65
Green	***		0.35 (0.45)	0.66	0.75 (0.65)
Blue	***		0.35 (0.45)	0.67	0.75 (0.65)
Lightness	***		0.35 (0.45)	0.66	0.75 (0.65)

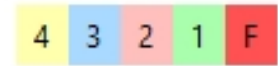
*These values are omitted when determining PASS/FAIL for the owning category

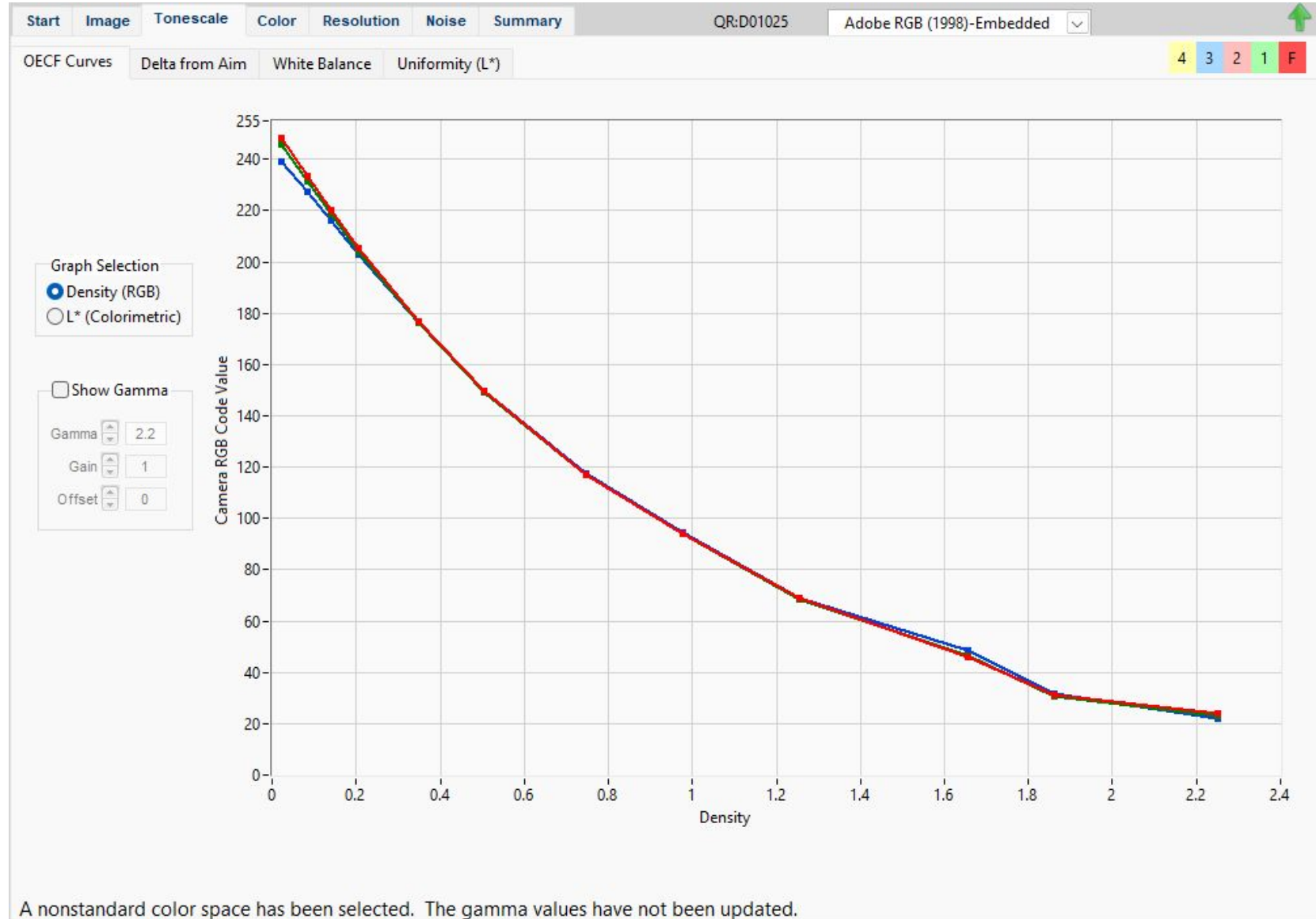
Table 12: L* Noise

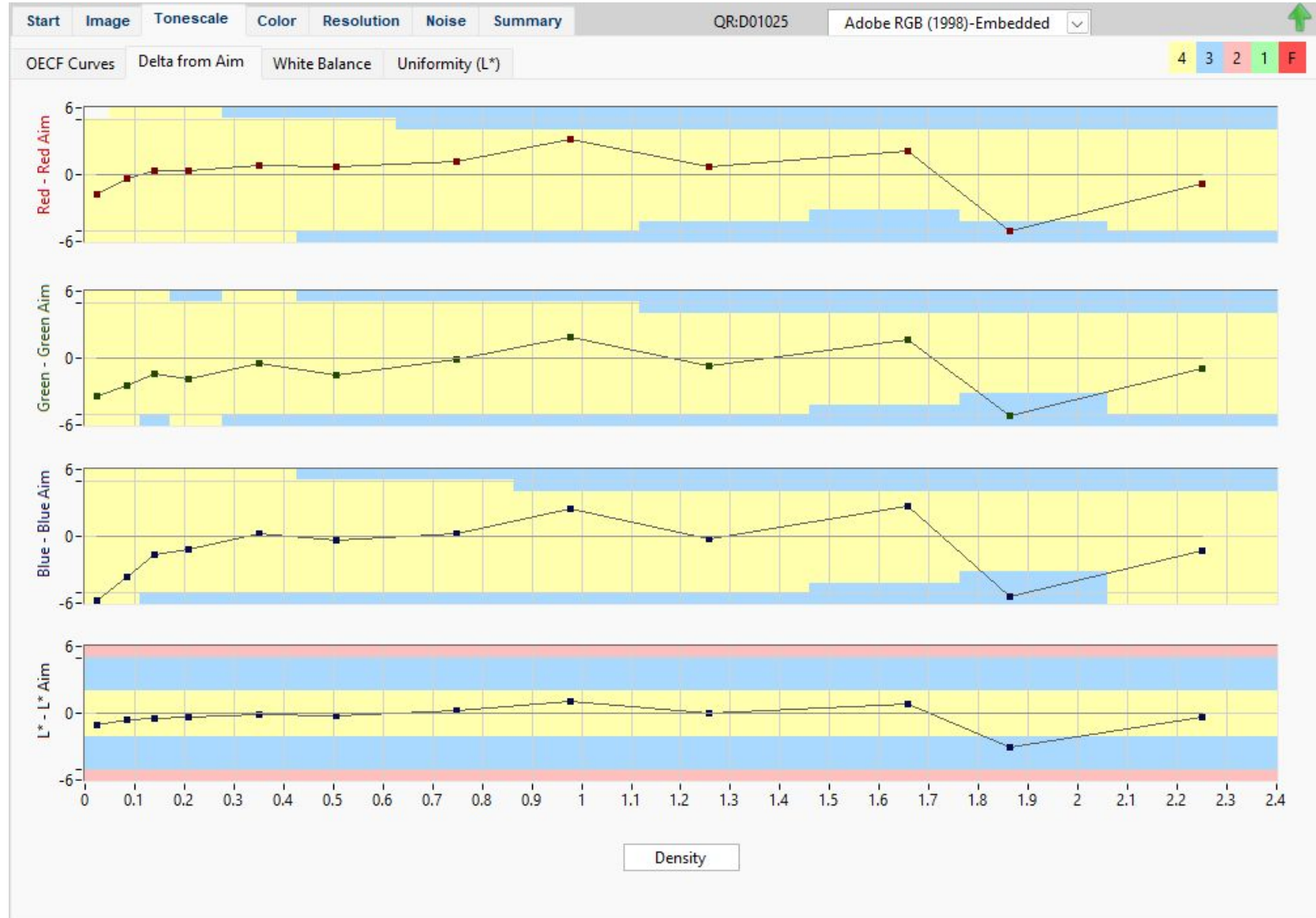
Measurement	Pass Fail	Stars	Lower Limit	Value (Aim)	Upper Limit
L* Noise	100% ****				
Patch No. 10	****		0.00	0.25	1.00
Patch No. 11	****		0.00	0.27	1.00
Patch No. 12	****		0.00	0.28	1.00
Patch No. 13	****		0.00	0.27	1.00
Patch No. 14	****		0.00	0.30	1.00
Patch No. 15	****		0.00	0.30	1.00
Patch No. 16	****		0.00	0.32	1.00
Patch No. 17	****		0.00	0.34	1.00
Patch No. 18	****		0.00	0.40	1.00
Patch No. 19	****		0.00	0.54	1.00
Patch No. 20	****		0.00	0.65	1.00
Patch No. 21	****		0.00	0.45	1.00
79.2% 4 Star Compliant					

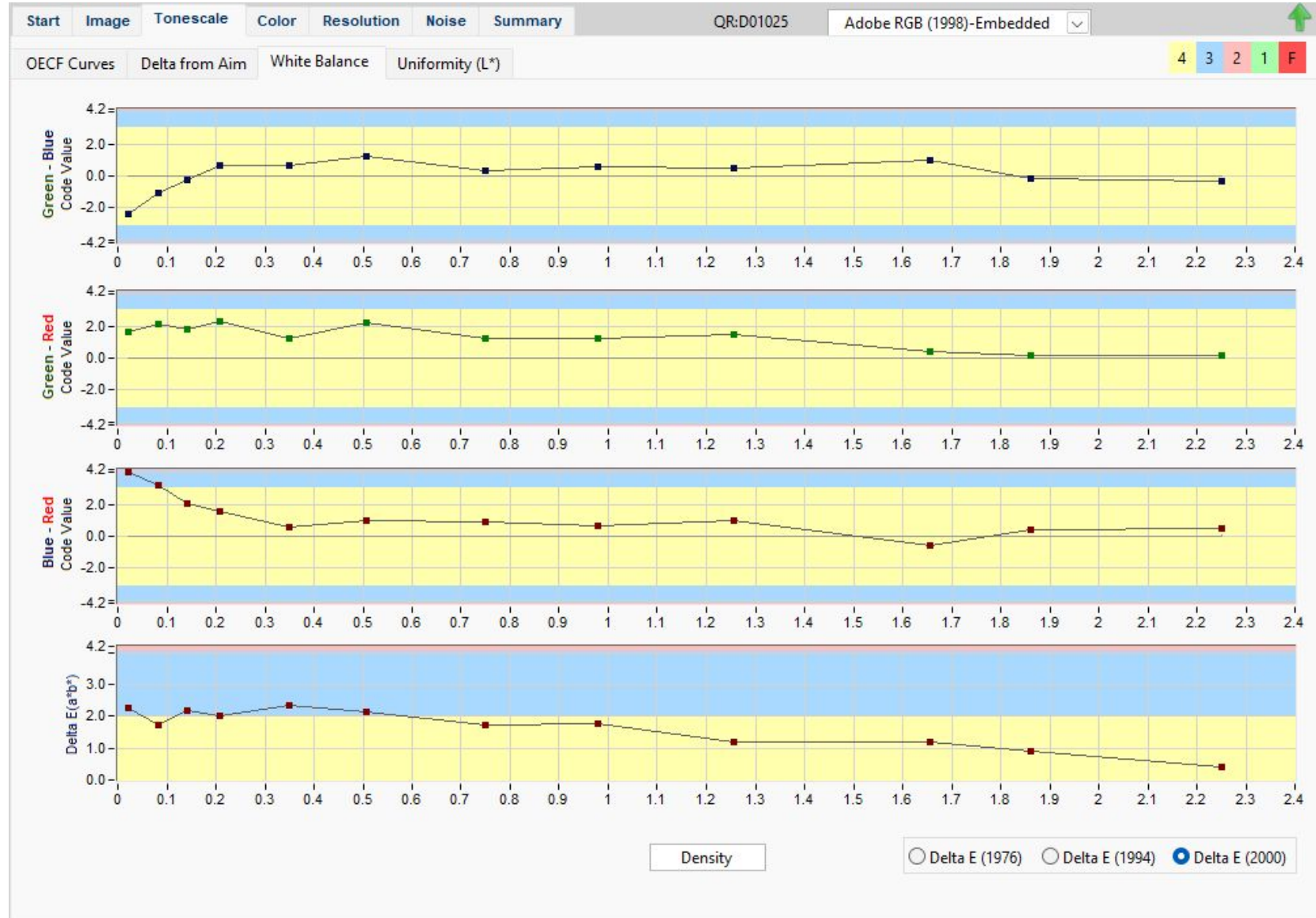
Table 13: RGB & Lab Aim Data

Patch	L Aim (Density)	a Aim	b Aim	L Est.	a Est.	b Est.	R Aim	G Aim	B Aim	R Est.	G Est.	B Est.
1	39.20	13.34	13.89	37.09	16.38	13.86	110.00	85.00	73.00	107.03	78.05	68.19
2	65.86	18.70	18.53	65.24	19.63	15.97	186.00	146.00	128.00	184.11	143.64	130.40
3	49.97	-4.08	-22.87	49.16	-4.14	-22.91	102.00	121.00	155.00	99.23	119.32	152.76
4	43.74	-13.26	22.64	41.30	-14.13	23.64	97.00	109.00	69.00	90.53	103.30	62.18
5	55.67	10.54	-24.71	55.98	7.57	-22.19	132.00	127.00	173.00	130.68	129.72	169.83
6	70.94	-33.69	-0.27	71.04	-32.70	1.05	130.00	189.00	172.00	131.63	189.02	169.97
7	63.05	34.76	57.69	60.29	38.87	52.04	201.00	125.00	55.00	196.09	114.36	59.57
8	41.03	10.11	-45.64	41.41	6.52	-42.09	79.00	94.00	169.00	78.60	96.61	163.69
9	52.24	49.02	17.08	52.23	49.08	15.60	178.00	84.00	98.00	177.39	84.65	100.17
10	98.00 (0.02)	-0.80	2.01	96.99	0.40	3.57	250.00	249.00	245.00	248.24	245.60	239.21
11	92.83 (0.08)	-0.60	1.64	92.20	0.47	2.40	234.00	234.00	231.00	233.62	231.48	227.37
12	88.17 (0.14)	-0.89	0.98	87.74	0.56	1.43	220.00	220.00	218.00	220.33	218.53	216.31
13	82.97 (0.21)	-0.91	0.65	82.65	0.44	0.90	205.00	206.00	204.00	205.39	204.12	202.79
14	72.68 (0.35)	-1.53	0.41	72.62	0.09	0.22	176.00	177.00	176.00	176.81	176.54	176.23
15	62.70 (0.51)	-1.34	0.07	62.44	0.13	-0.09	149.00	151.00	150.00	149.65	149.47	149.69
16	49.31 (0.75)	-0.99	-0.16	49.54	0.20	-0.16	116.00	117.00	117.00	117.19	116.94	117.29
17	38.76 (0.98)	-0.92	-0.04	39.81	0.27	-0.32	91.00	92.00	92.00	94.13	93.86	94.47
18	28.25 (1.26)	-0.43	-0.08	28.24	0.38	-0.21	68.00	69.00	69.00	68.74	68.29	68.74
19	16.53 (1.66)	-0.62	-0.80	17.38	-0.03	-1.65	44.00	45.00	46.00	46.06	46.69	48.65
20	11.79 (1.86)	-0.26	-0.75	8.70	0.35	-0.63	36.00	36.00	37.00	30.99	30.79	31.60
21	5.08 (2.25)	0.25	1.13	4.70	0.51	1.07	25.00	24.00	23.00	24.23	23.05	21.73
22	31.34	23.58	-21.24	29.83	20.12	-20.82	89.00	62.00	106.00	82.42	61.45	101.56
23	72.87	-23.69	57.35	69.31	-21.97	50.32	168.00	188.00	76.00	158.38	177.94	80.51
24	72.90	18.94	68.15	69.47	20.44	60.10	215.00	163.00	57.00	205.52	152.93	64.81
25	31.20	12.95	-48.03	30.22	8.26	-45.20	56.00	71.00	146.00	50.19	71.21	139.18
26	55.87	-39.80	31.22	53.49	-35.97	28.18	99.00	150.00	82.00	96.79	142.10	81.26
27	43.28	51.48	29.34	43.15	49.70	26.81	157.00	58.00	60.00	154.48	60.33	63.30
28	82.55	3.18	79.70	78.59	6.03	68.96	229.00	200.00	54.00	218.48	187.27	68.45
29	52.74	49.54	-13.55	53.49	48.19	-14.42	172.00	87.00	148.00	171.88	90.66	150.93
30	51.24	-27.11	-28.33	51.83	-23.96	-30.11	66.00	135.00	167.00	70.24	135.29	171.63









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