Phase One NimbusQA Image Analysis Report

Image name: MS_SN_851.tif

NIMBUSQA

PHASEONE

Creation time: 2026 October 23, 19:35

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1 Image Data

Target info:

Target type: Object Level Target

Target serial number: M001655

Image metadata:

Image name: MS_SN_851.tif

Image size: 6022x770

Resolution horizontal: 444

Resolution vertical: 444

Bit depth: 8 8 8-bit

Color space: Adobe RGB (1998), D65, observer CIE 1931, 2°

File size: 14 MB

File format: TIFF

Camera information:

Camera manufacturer: FUJIFILM

Camera model: GFX100S II

Lens model: Fujifilm Fujinon GF63mm F2.8 R WR

ISO: 100

Aperture: 1/11

Exposure time: 1/100

Flash: Fired

2 Analysis results

2.1 Selected Guidelines

FADGI 3.4 - Documents (Unbound): General Collections

2.1.1 Overall scores

	score
Noise	★ ★ ★ ★
SFR10	FAIL
SFR50	FAIL
Bit depth	★ ★
Color mode	★ ★ ★ ★
Resolution	★ ★ ★ ★
Sharpening	★ ★ ★ ★
Color space	★ ★ ★ ★
Tone response	★ ★ ★ ★
White balance	★ ★ ★ ★
Color accuracy 90	★ ★ ★ ★
Master file format	★ ★ ★ ★
Lightness uniformity	★ ★ ★ ★
Reproduction scale accuracy	FAIL
Color channel misregistration	★ ★ ★ ★

Table 1: Scores of selected guideline

2.1.2 Calculated values

	value
SFR 50(max)	0.27
SFR 50(min)	0.18
SFR 10	0.42
Oversharpening	1.00
Color channel misregistration	0.19
Sampling efficiency	45.58
Distortion	0.02
Lightness uniformity	0.00

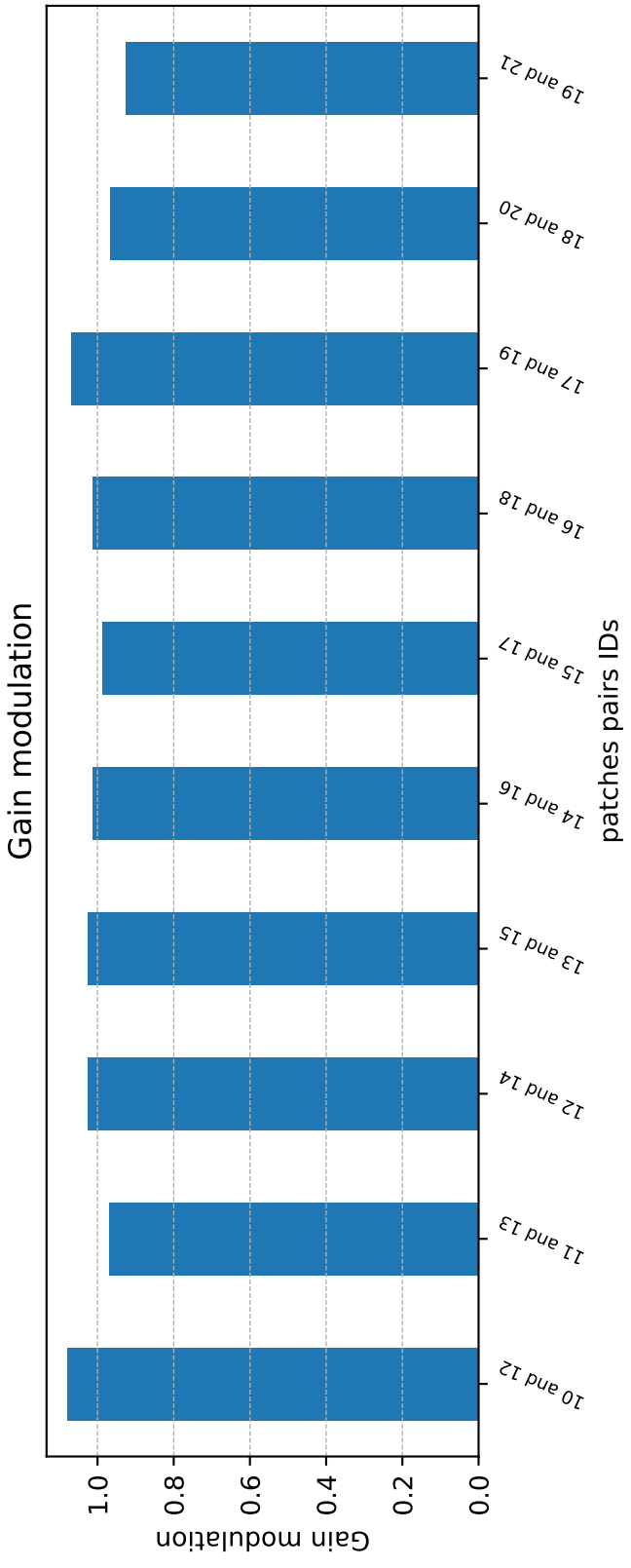
Table 2: Single value parameters

	σ	μ	max	min	90th percentile
Noise	0.14	0.33	0.78	0.23	0.41
Color error	0.93	1.72	3.61	0.17	2.98
Tone response	0.28	0.51	1.13	0.07	0.78
White balance	0.80	1.50	3.39	0.16	2.39

Table 3: Statistical values parameters

2.2 Additional graphs and parameters

2.2.1 Gain modulation graph



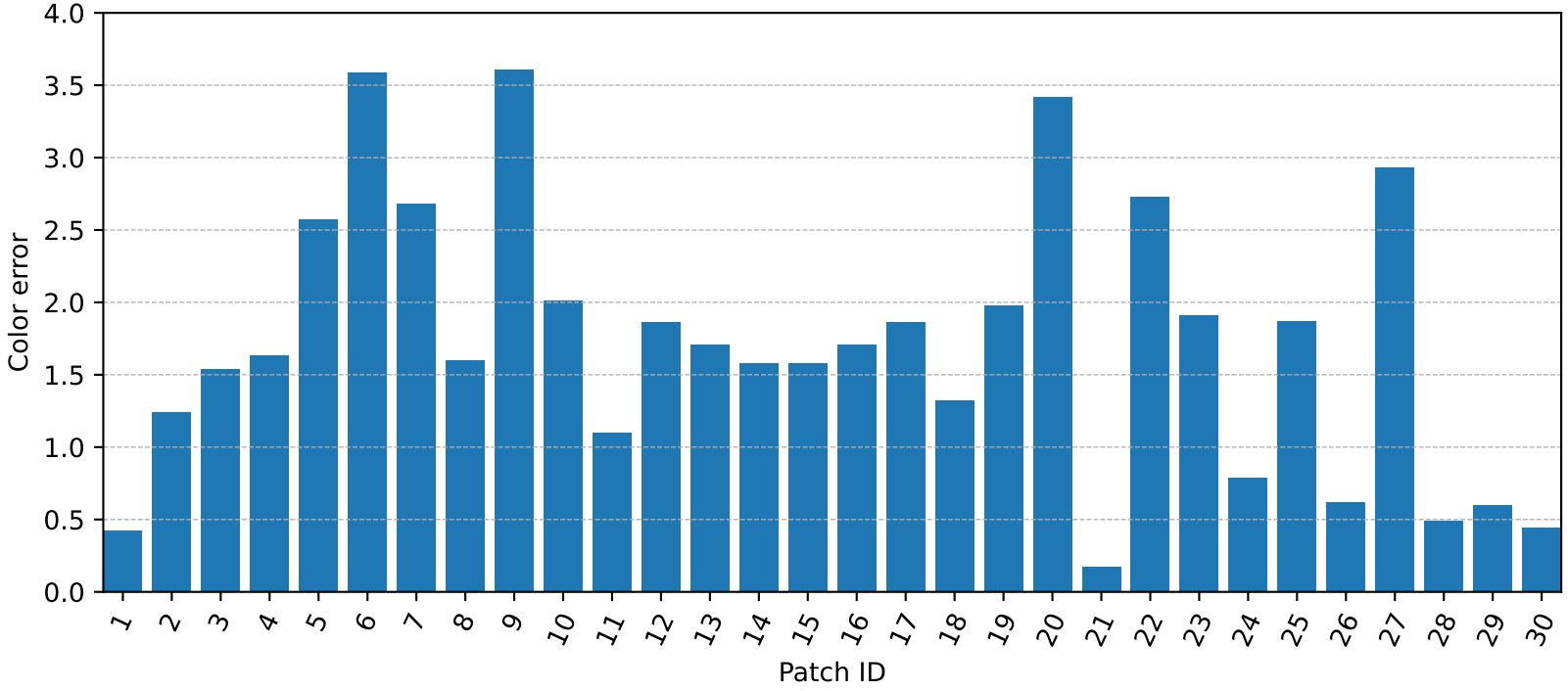
2.2.2 measured and aim values for color patches

	R_{mea}	G_{mea}	B_{mea}	L^*_{mea}	a^*_{mea}	b^*_{mea}	L^*_{aim}	a^*_{aim}	b^*_{aim}	ΔE_{2000}	$\Delta E^{S_L=1}_{2000}$	ΔE_{76}
1	107.75	82.94	69.95	38.44	13.39	14.59	38.76	13.81	14.69	0.42	0.45	0.53
2	181.28	143.33	129.29	64.75	18.27	15.88	65.15	19.21	17.92	1.24	1.26	2.29
3	100.50	122.75	154.27	50.26	-5.69	-22.08	49.61	-4.20	-21.33	1.54	1.54	1.79
4	96.97	105.70	65.21	42.83	-11.27	23.82	43.54	-12.89	22.66	1.63	1.65	2.11
5	135.54	129.40	172.37	56.58	10.64	-22.70	55.52	8.78	-24.31	2.57	2.59	2.68
6	125.90	175.28	163.59	66.83	-27.76	-1.72	70.42	-32.39	-0.48	3.59	4.22	5.99
7	190.50	120.93	58.57	60.57	32.24	52.75	63.13	35.43	57.84	2.68	2.99	6.53
8	78.89	95.63	167.53	41.38	8.51	-44.47	40.08	10.25	-44.77	1.60	1.71	2.19
9	169.87	82.52	103.49	50.50	47.32	10.78	51.75	47.36	16.93	3.61	3.62	6.27
10	244.77	248.01	244.57	97.25	-1.97	1.14	95.34	-0.90	1.90	2.01	2.53	2.32
11	231.60	234.09	230.36	92.60	-1.68	1.43	92.09	-0.92	1.46	1.10	1.17	0.92
12	217.44	221.55	219.84	88.16	-2.21	0.16	86.92	-1.12	0.97	1.86	2.09	1.84
13	203.10	207.19	206.75	83.17	-2.06	-0.49	82.37	-1.12	0.56	1.71	1.81	1.62
14	175.04	178.96	179.16	73.04	-1.96	-0.81	72.17	-1.05	-0.04	1.58	1.68	1.48
15	147.12	151.12	151.37	62.58	-2.09	-0.89	62.32	-1.10	-0.01	1.58	1.59	1.35
16	115.69	119.85	120.32	50.18	-2.28	-1.11	49.61	-1.29	-0.10	1.71	1.71	1.52
17	91.26	93.90	94.85	39.44	-1.42	-1.16	38.89	-0.23	-0.48	1.86	1.88	1.48
18	67.81	70.66	70.93	28.87	-1.81	-0.84	28.60	-1.09	0.07	1.32	1.33	1.19
19	44.97	46.58	46.18	17.08	-1.26	-0.11	17.97	0.04	0.09	1.98	2.08	1.59
20	32.29	34.31	36.68	10.40	-1.01	-2.50	9.50	0.45	0.25	3.42	3.49	3.24
21	22.86	22.56	23.64	4.44	0.36	-0.62	4.33	0.32	-0.47	0.17	0.19	0.19
22	94.90	62.56	107.51	32.55	26.45	-20.42	30.32	22.13	-19.02	2.73	3.06	5.06
23	168.64	183.07	75.48	71.66	-19.52	56.14	72.50	-22.92	56.08	1.91	1.98	3.51
24	212.07	162.02	59.72	72.28	18.04	66.02	72.10	19.51	67.85	0.79	0.80	2.36
25	48.60	68.53	144.99	29.70	12.02	-49.74	29.51	13.42	-47.69	1.87	1.87	2.49
26	99.38	148.72	81.57	55.63	-38.87	30.95	55.60	-38.46	32.19	0.62	0.62	1.31
27	151.20	56.79	64.81	41.95	50.11	24.06	43.48	50.74	29.13	2.93	3.00	5.34
28	227.64	200.09	58.58	82.48	2.69	77.83	82.02	3.28	78.75	0.49	0.60	1.18
29	171.85	88.97	148.68	53.13	48.85	-13.61	52.85	49.90	-12.86	0.60	0.60	1.32
30	62.68	135.24	166.79	51.17	-28.36	-28.31	50.86	-27.78	-27.68	0.44	0.44	0.92

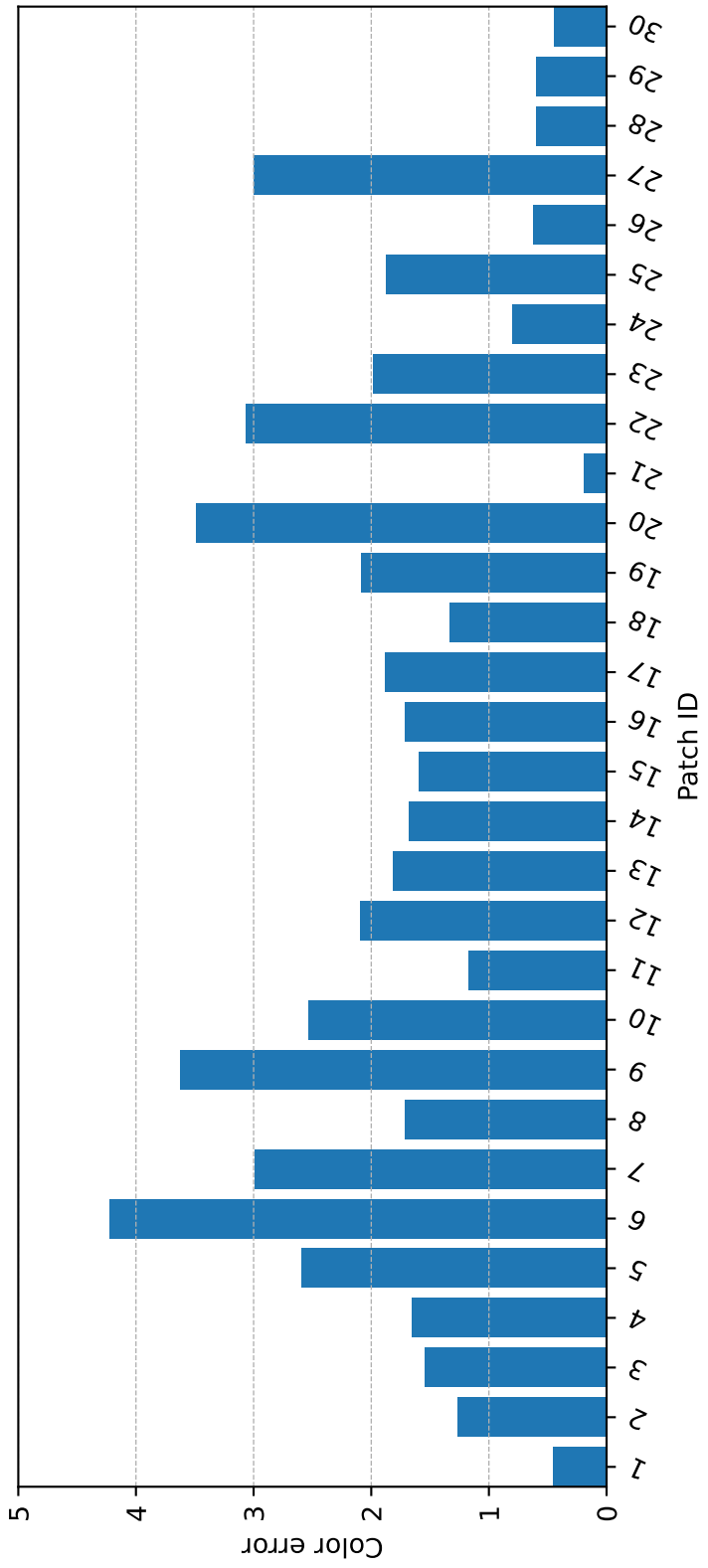
Table 4: Color values for patches

2.2.3 Plots of color error.

2.2.3.1 Plot of ΔE_{2000} for patches



2.2.3.2 Plot of $\Delta E_{2000}(S_L = 1)$ for patches


Color error
0
1
2
3
4
5
Patch ID
1
2
3
4
5
6
7
8
9
10
11
12
13
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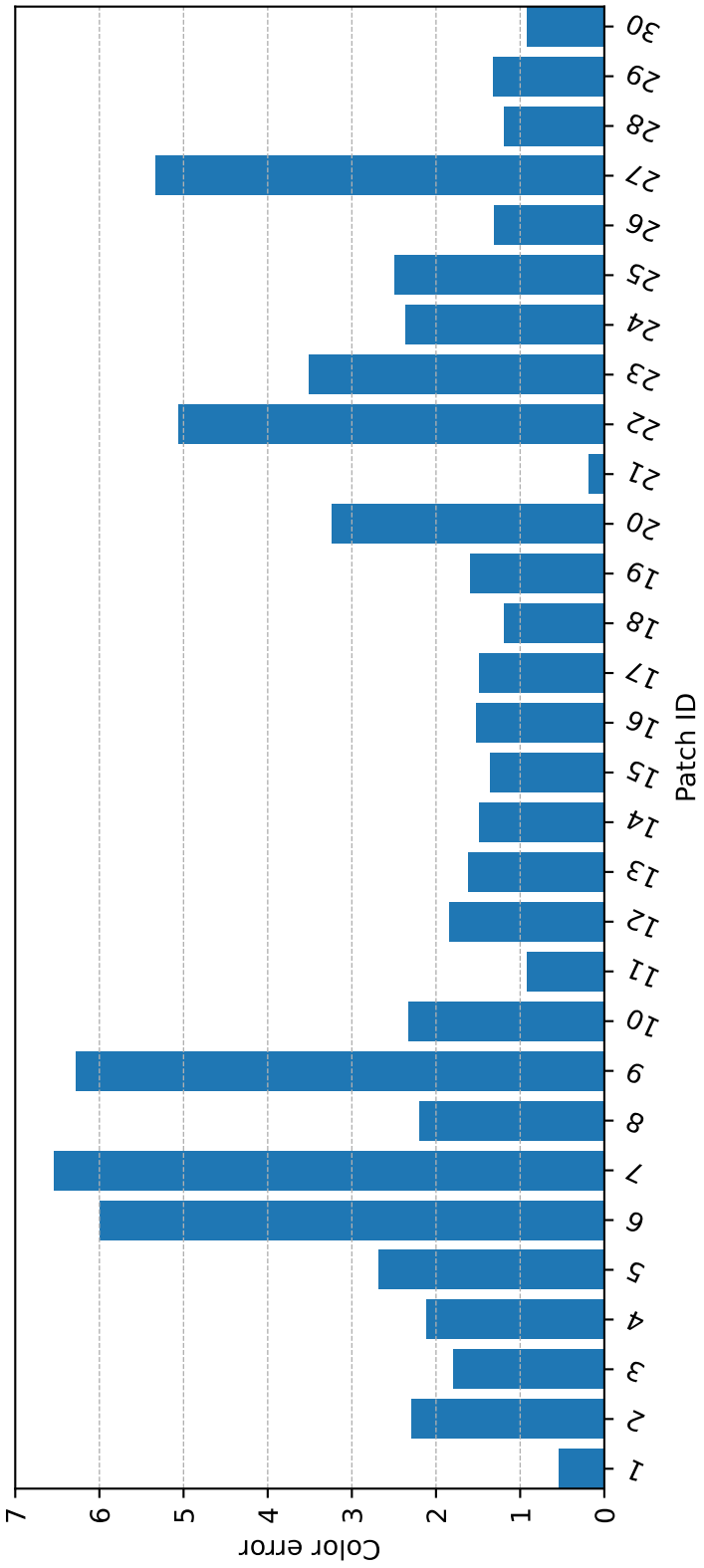
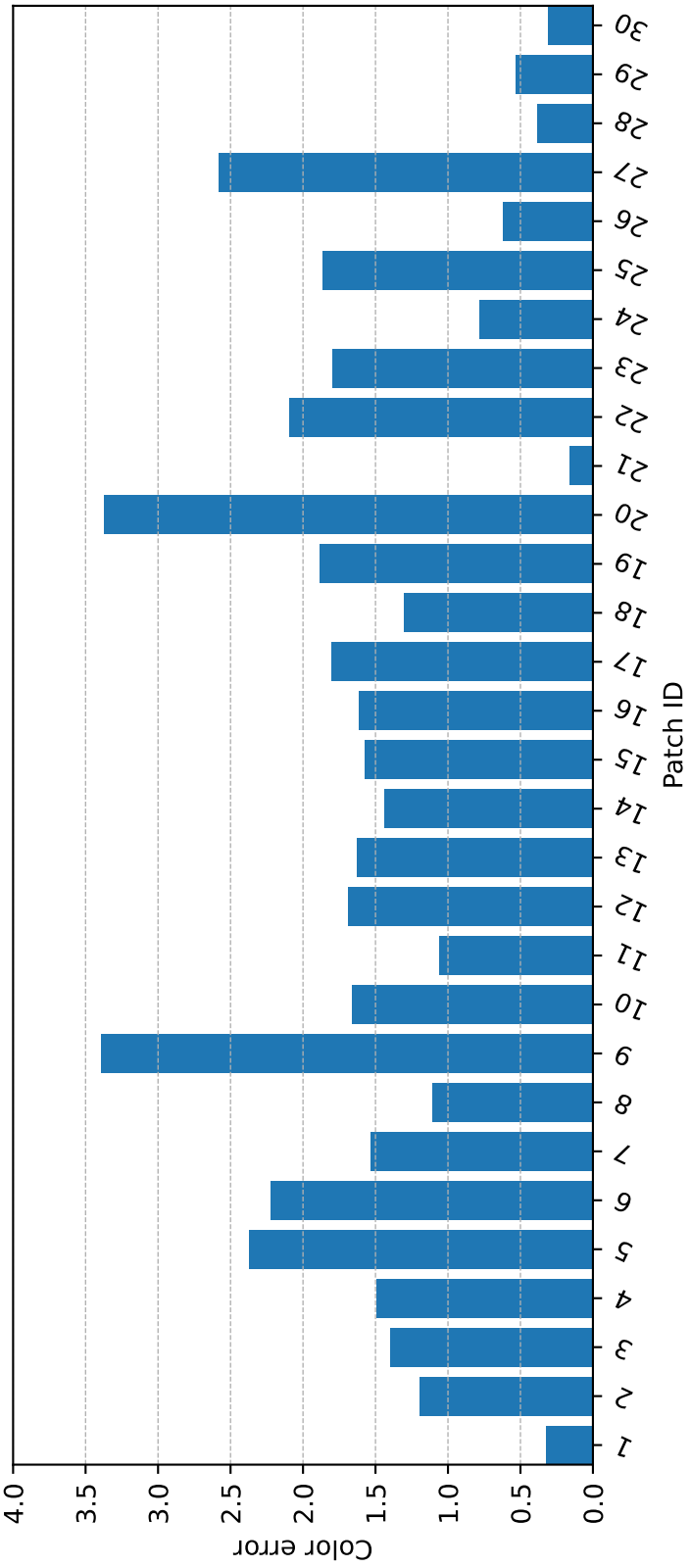
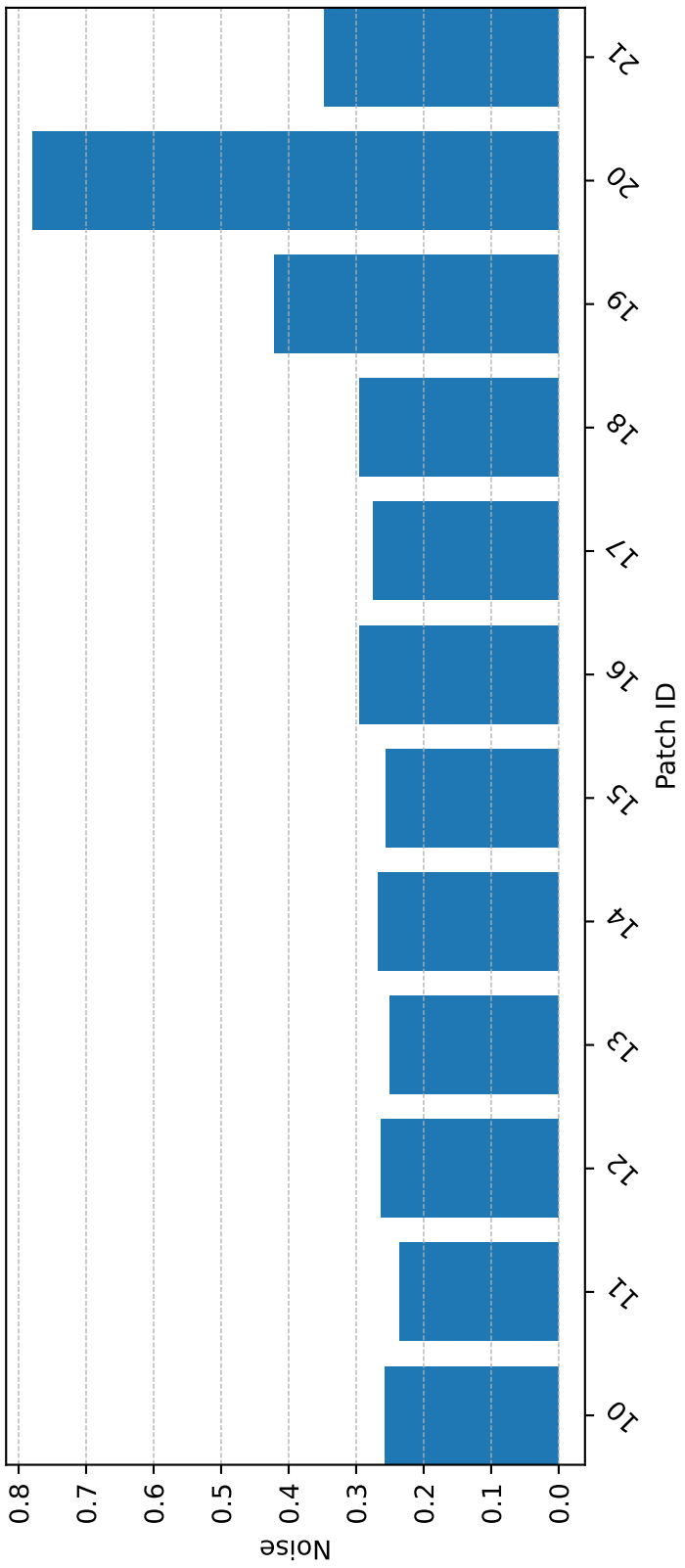
2.2.4 Plot of ΔE_{76} for patches



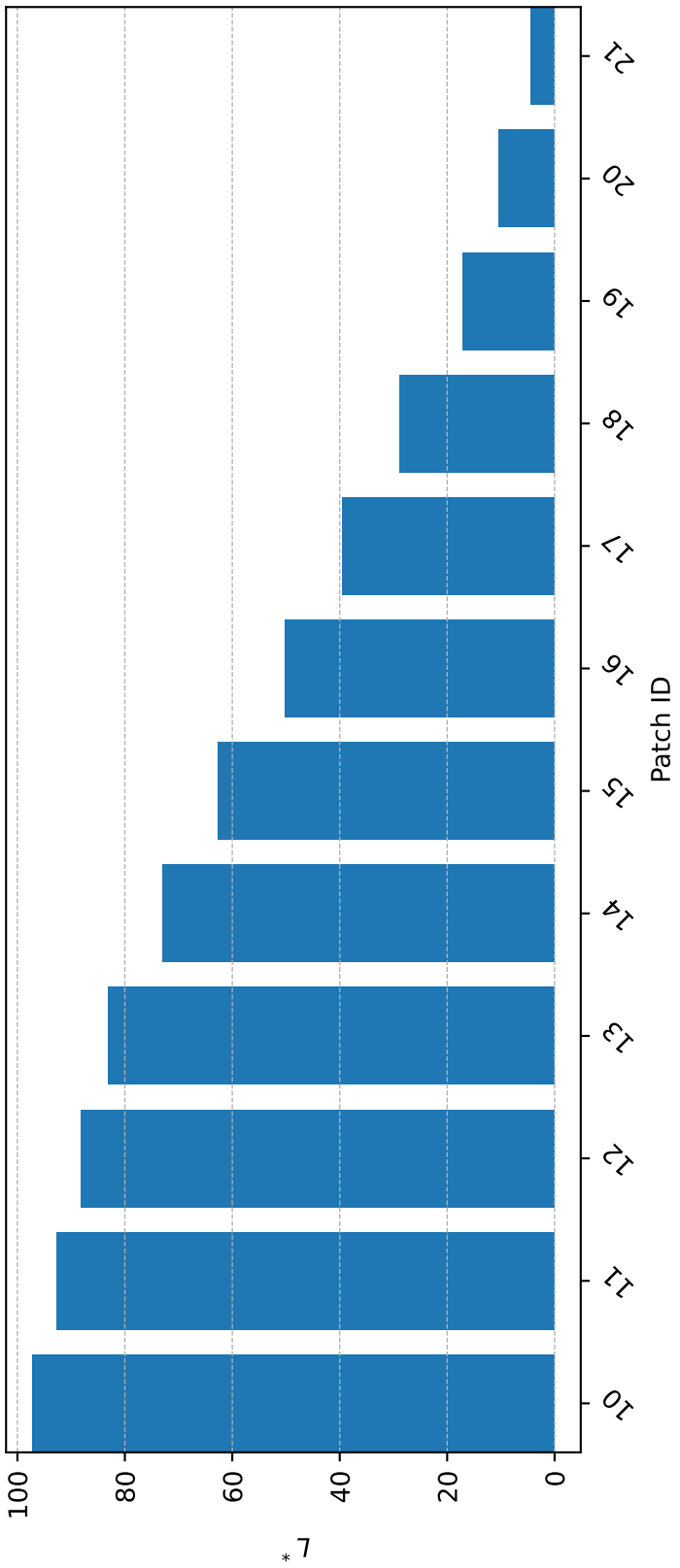
2.2.5 Plot of white balance for patches



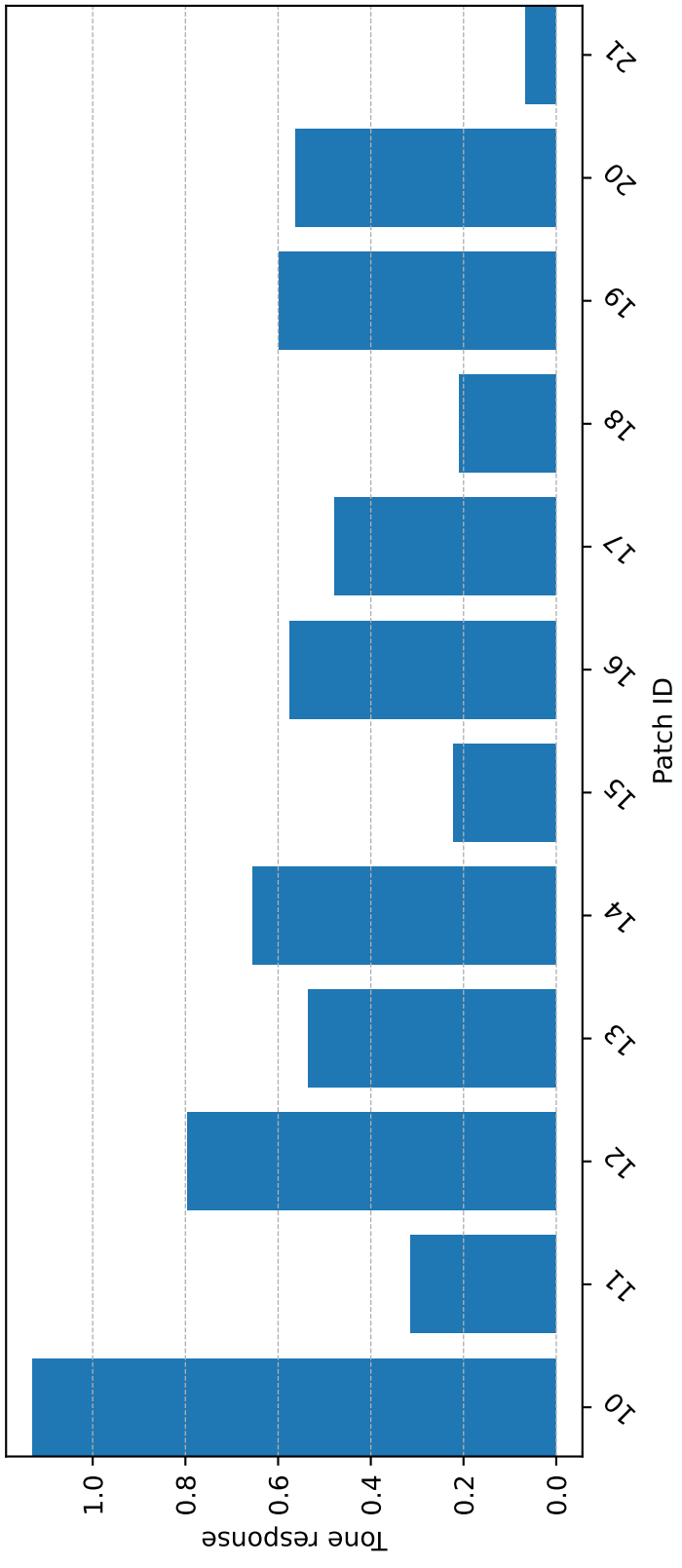
2.2.6 Plot of noise for patches



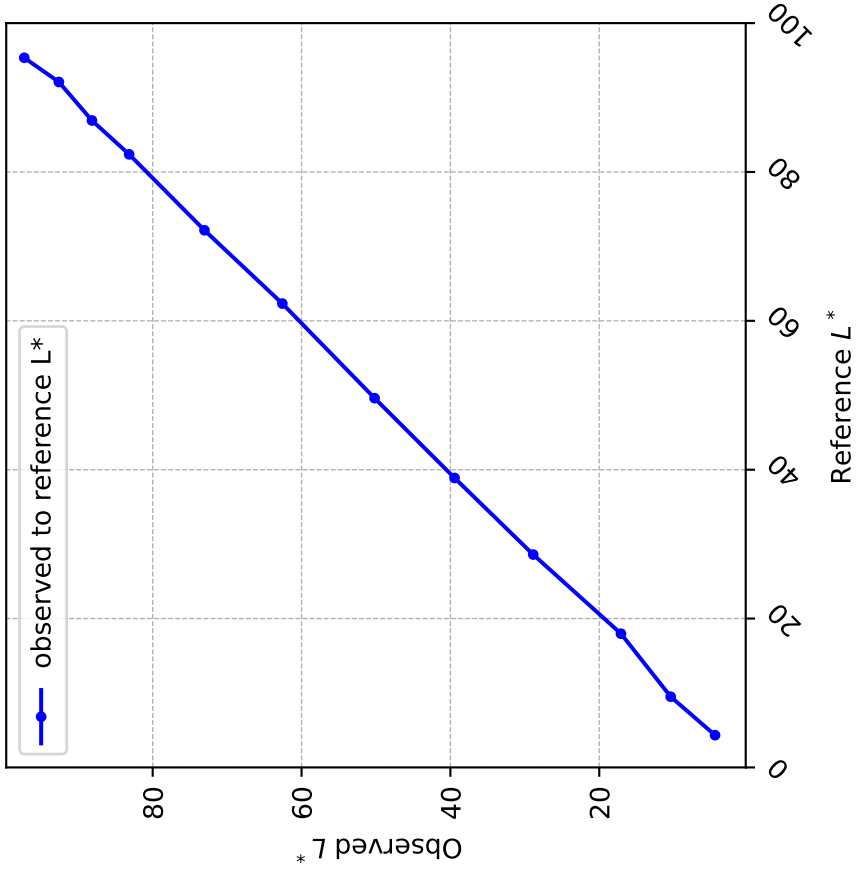
2.2.7 Plot of L^* for grayscale patches



2.2.8 Plot of Tone response

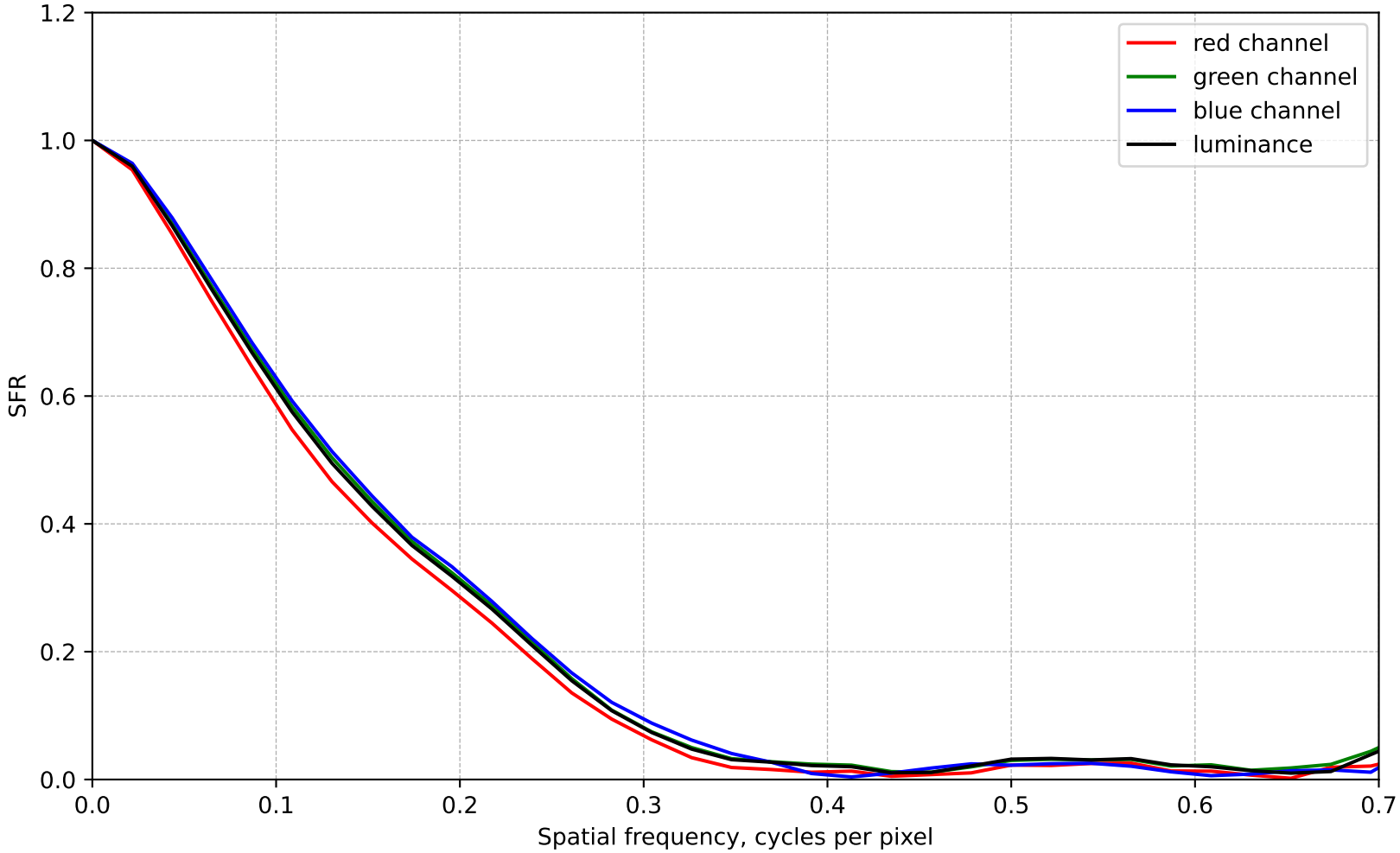


2.2.9 L^* measured to L^* reference plot

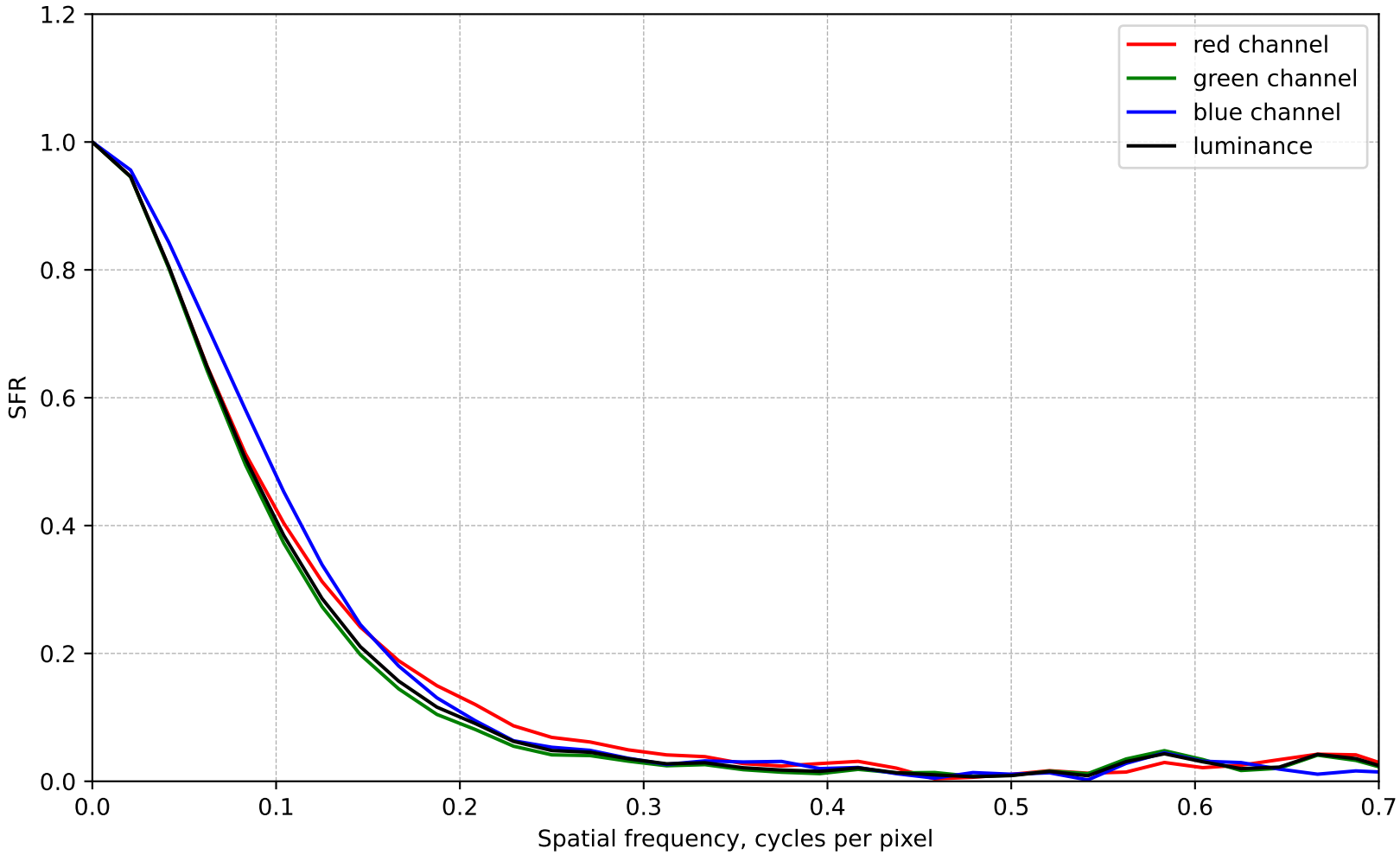


2.3 Plots of SFR for edges

2.3.1 Plot for edge no. 1



2.3.2 Plot for edge no. 2



3 Reference values for selected target

3.1 User target name:\

Target name: Object Level Target

3.2 Aim values for target:

	L^*_{aim}	a^*_{aim}	b^*_{aim}
1	38.76	13.81	14.69
2	65.15	19.21	17.92
3	49.61	-4.20	-21.33
4	43.54	-12.89	22.66
5	55.52	8.78	-24.31
6	70.42	-32.39	-0.48
7	63.13	35.43	57.84
8	40.08	10.25	-44.77
9	51.75	47.36	16.93
10	95.34	-0.90	1.90
11	92.09	-0.92	1.46
12	86.92	-1.12	0.97
13	82.37	-1.12	0.56
14	72.17	-1.05	-0.04
15	62.32	-1.10	-0.01
16	49.61	-1.29	-0.10
17	38.89	-0.23	-0.48
18	28.60	-1.09	0.07
19	17.97	0.04	0.09
20	9.50	0.45	0.25
21	4.33	0.32	-0.47
22	30.32	22.13	-19.02
23	72.50	-22.92	56.08
24	72.10	19.51	67.85
25	29.51	13.42	-47.69
26	55.60	-38.46	32.19
27	43.48	50.74	29.13
28	82.02	3.28	78.75
29	52.85	49.90	-12.86
30	50.86	-27.78	-27.68

Table 5: User aim values