Fig. 1: LED on−axis photon flux intensity

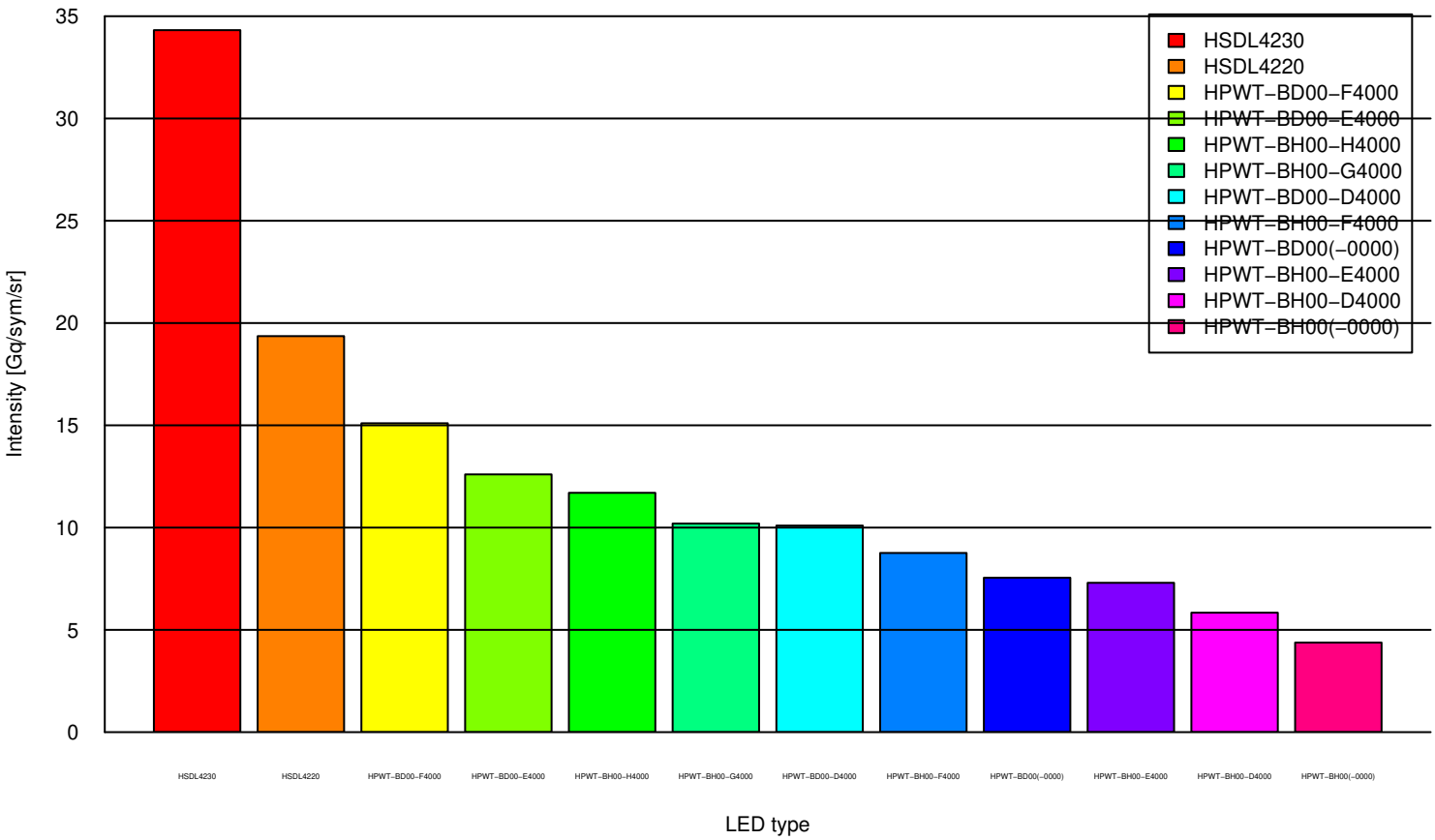


Fig. 2: LED on−axis photon flux intensity [dBTq/sym/sr]

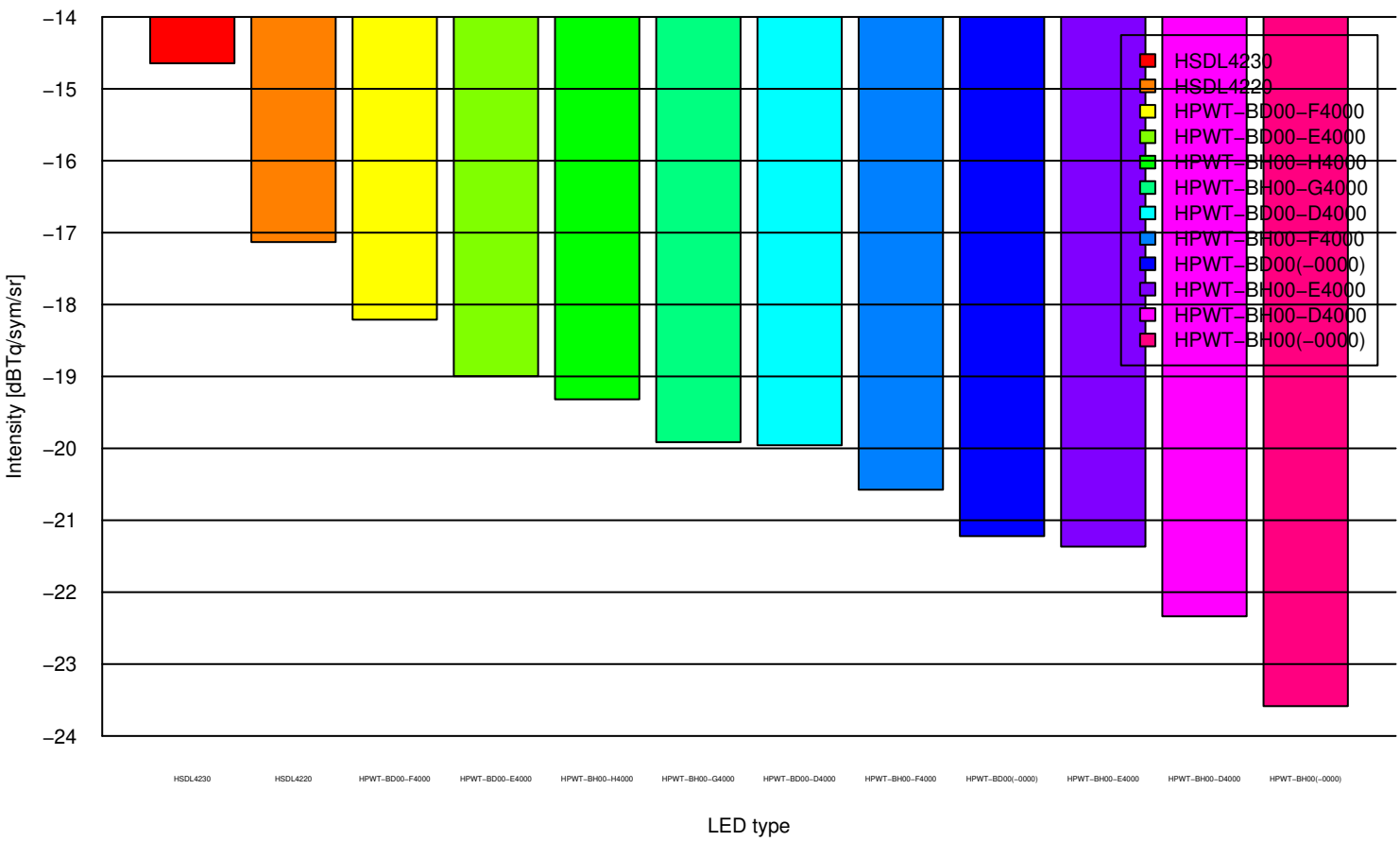
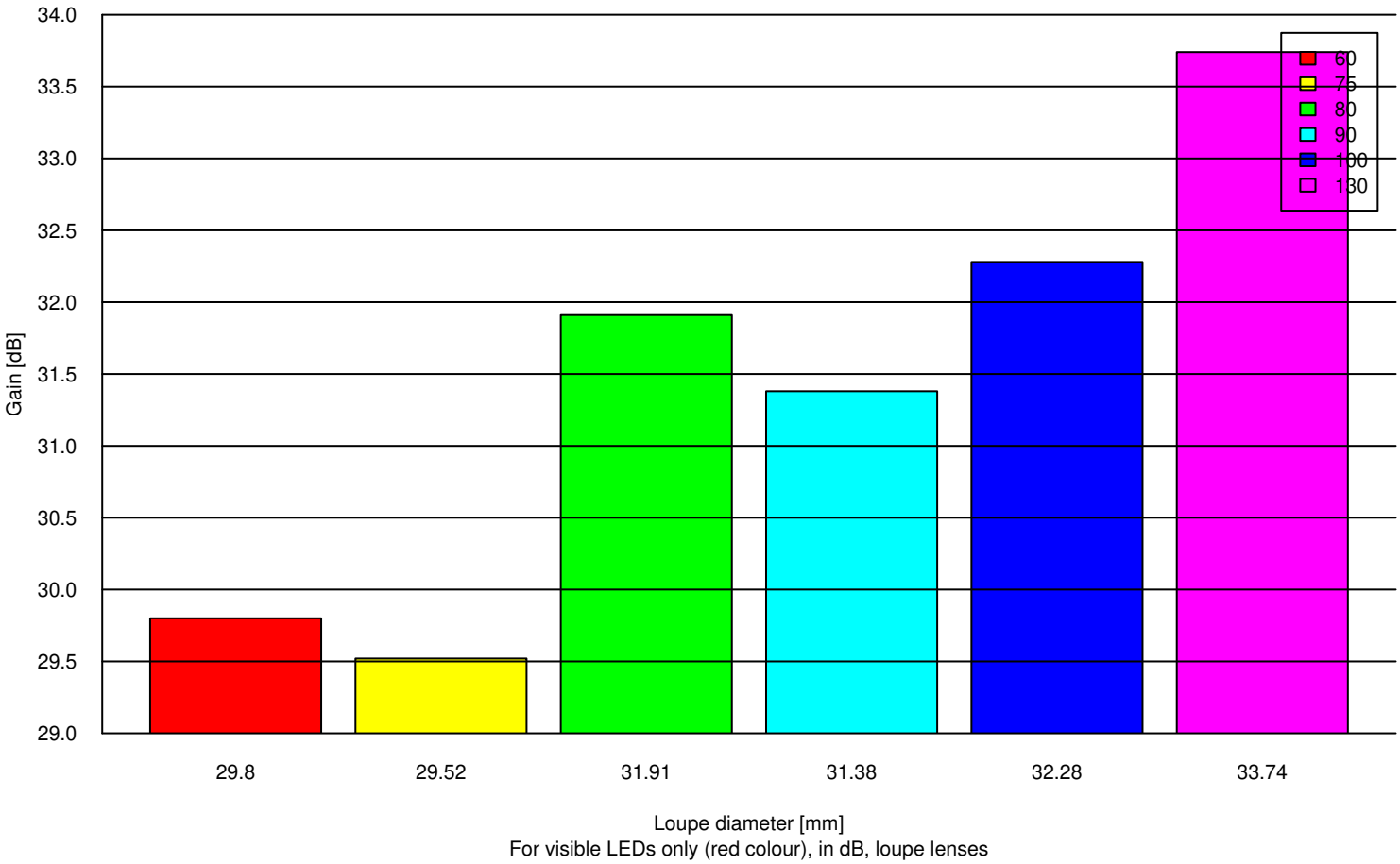


Fig. 3: Lens gain with HPWT−B type LEDs



For visible LEDs only (red colour), in dB, loupe lenses

Fig. 4: Lens gain with HSDL4220 IR LED [dB]

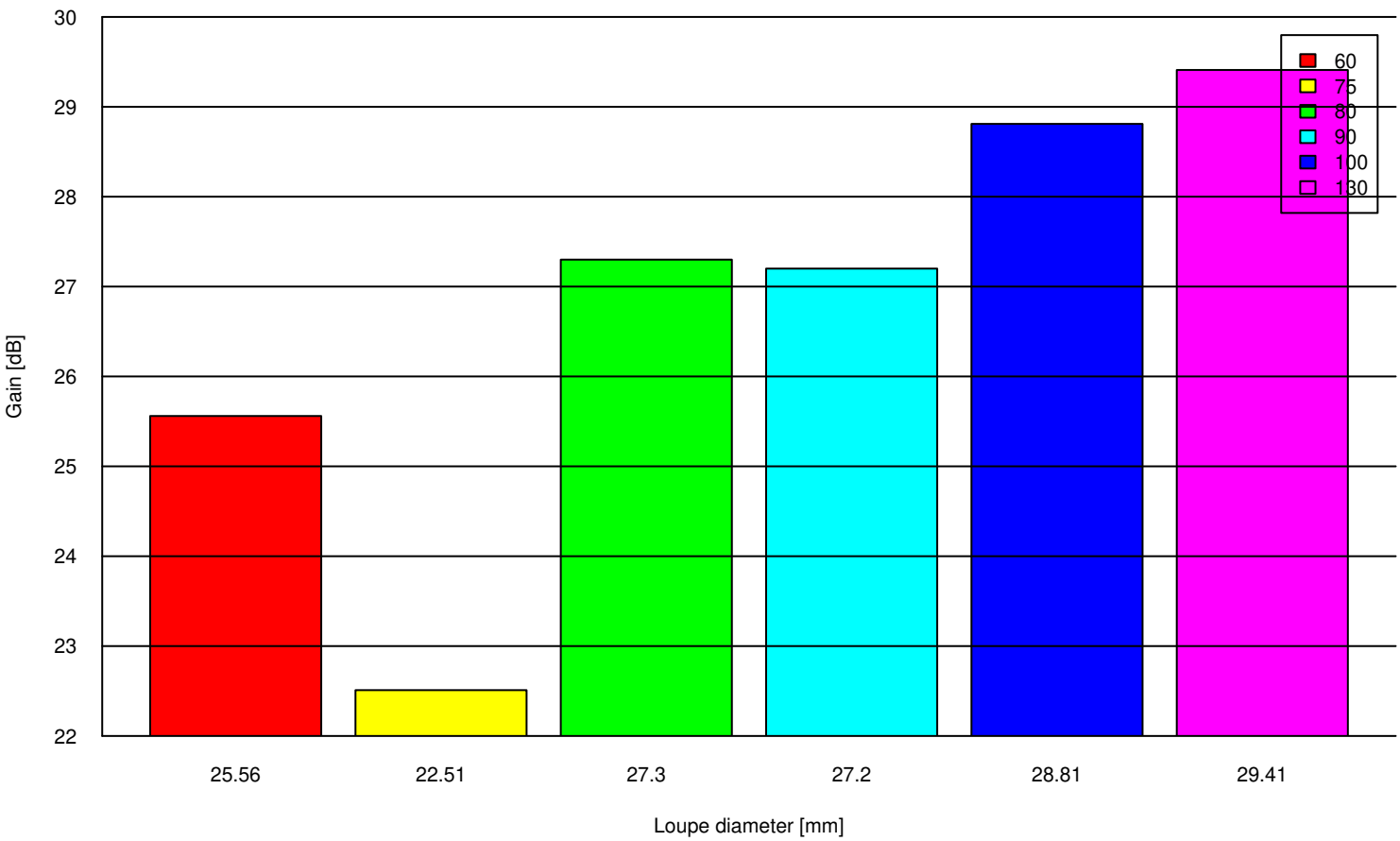


Fig. 5: Lens gain with HSDL4230 IR LED [dB]

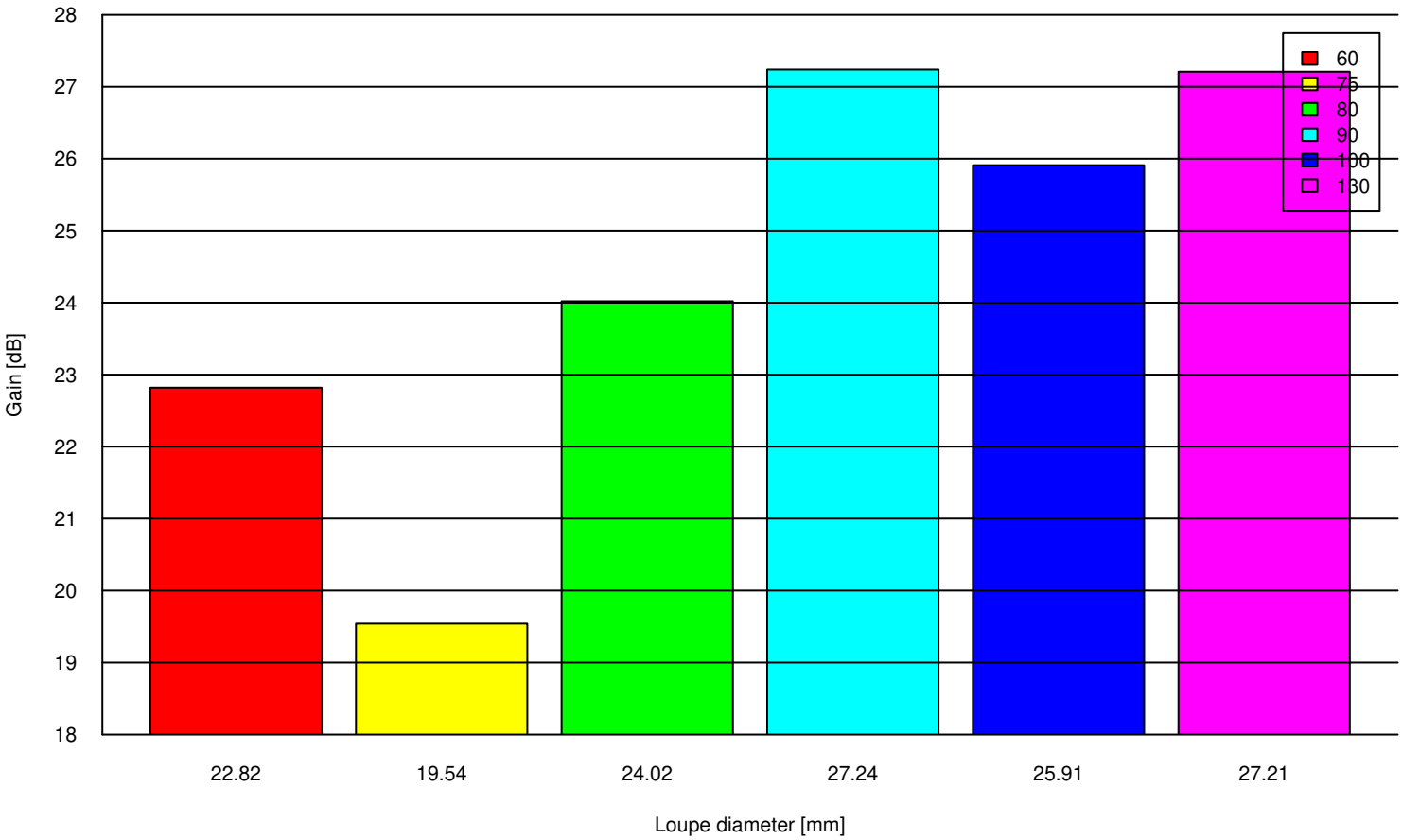


Fig. 6 : Launch intensity vs. diode and lens type

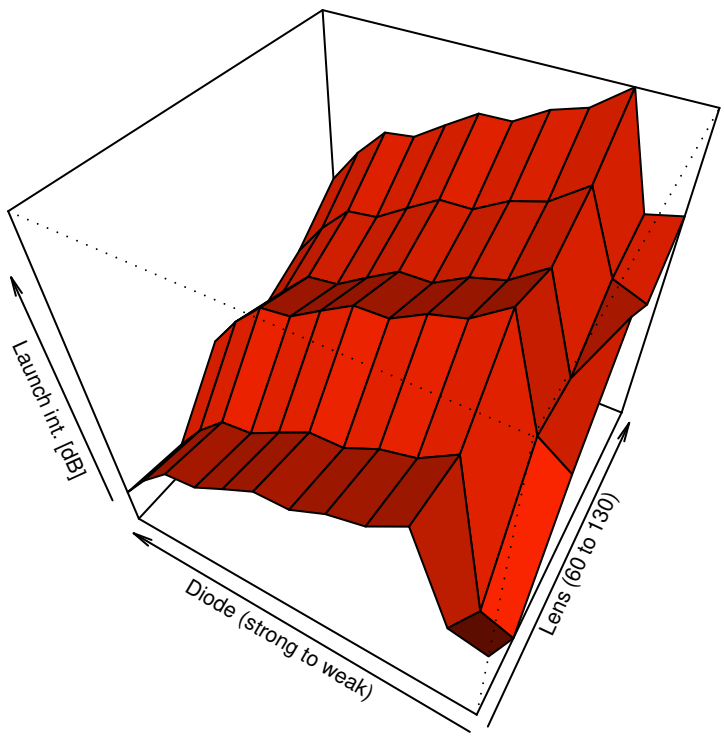


Fig. 7 : Launch intensity vs. diode and lens type

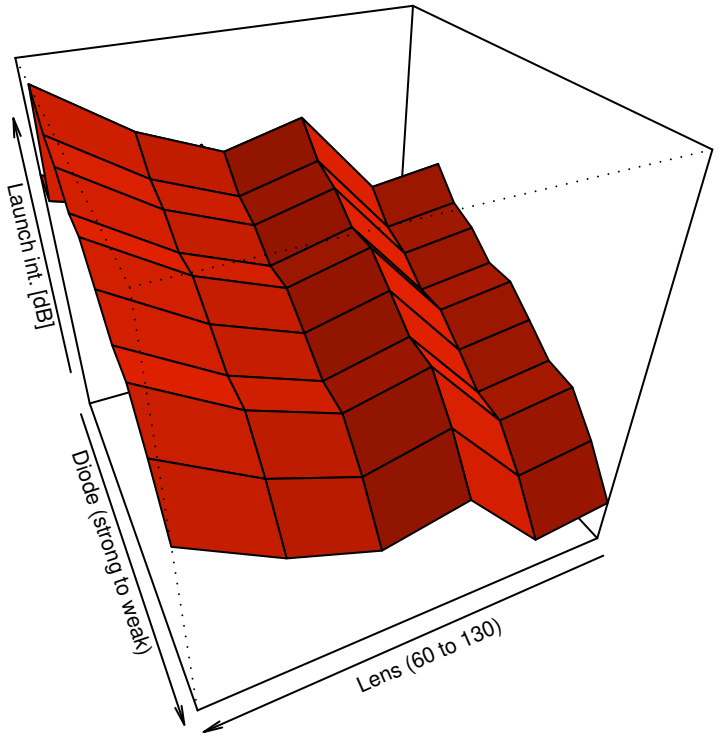


Fig. 8 : Launch intensity vs. diode and lens type

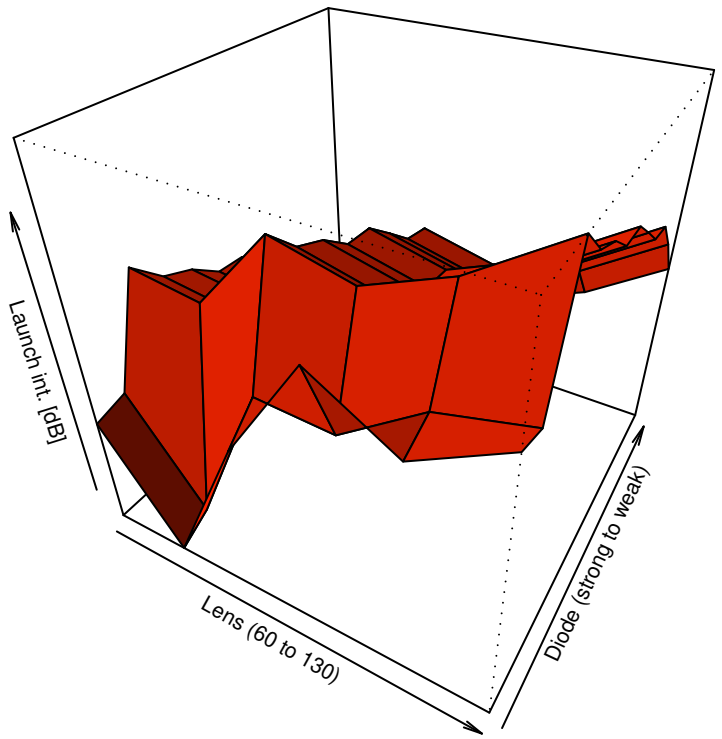


Fig. 9 : Launch intensity of lens+diode combination [dB]

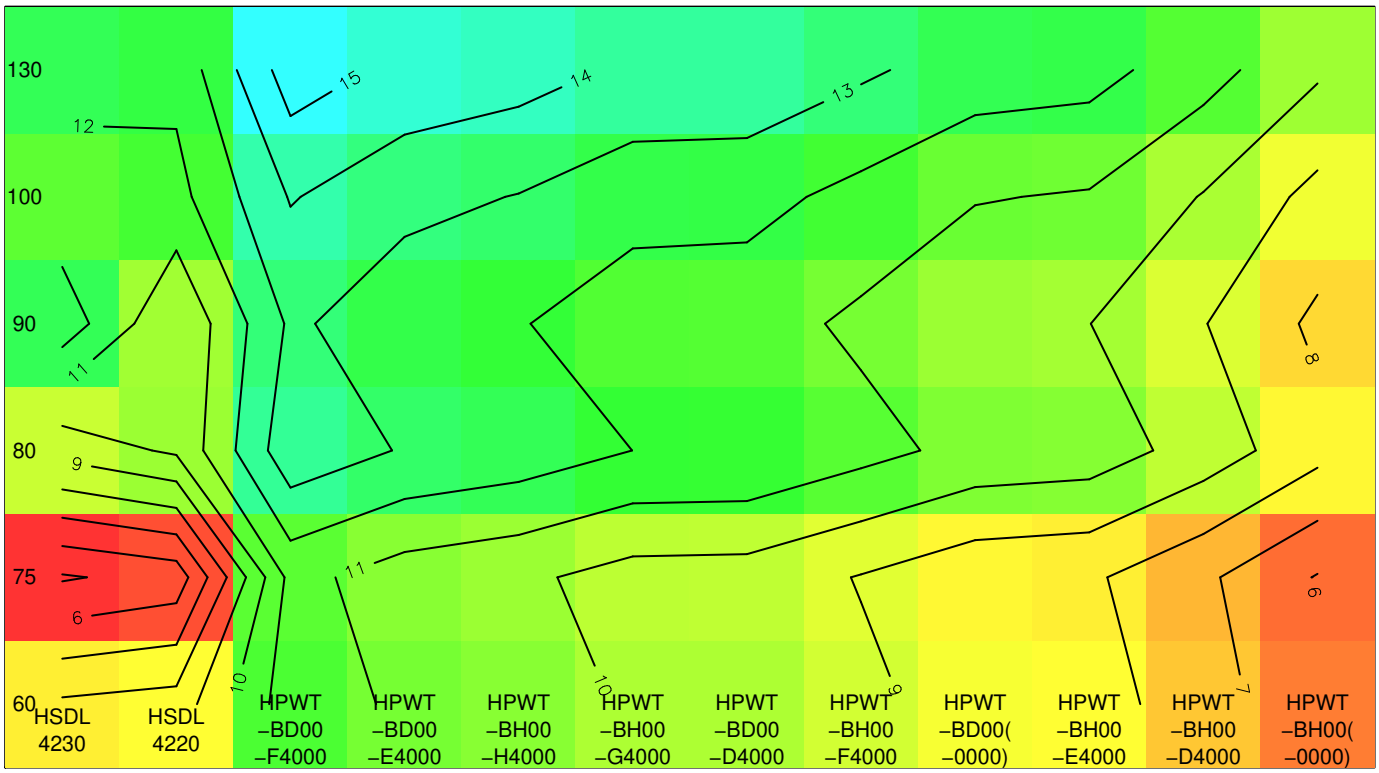


Fig. 10 : Launch intensity of lens+diode combination [dB]

Lens	Diode: HSDL 4230	HSDL 4220	HPWT –BD00 –F4000	HPWT –BD00 –E4000	HPWT –BH00 –H4000	HPWT –BH00 –G4000	HPWT –BD00 –D4000	HPWT –BH00 –F4000	HPWT –BD00(–0000)	HPWT –BH00 –E4000	HPWT –BH00 –D4000	HPWT –BH00(–0000)
130	12.57	12.28	15.53	14.74	14.42	13.83	13.78	13.17	12.52	12.37	11.4	10.15
100	11.27	11.68	14.07	13.28	12.96	12.37	12.32	11.71	11.06	10.91	9.94	8.69
90	12.6	10.07	13.17	12.38	12.06	11.47	11.42	10.81	10.16	10.01	9.04	7.79
80	9.38	10.17	13.7	12.91	12.59	12	11.95	11.34	10.69	10.54	9.57	8.32
75	4.9	5.38	11.31	10.52	10.2	9.61	9.56	8.95	8.3	8.15	7.18	5.93
60	8.18	8.43	11.59	10.8	10.48	9.89	9.84	9.23	8.58	8.43	7.46	6.21

Diode
Single transmitter

Fig. 11 : Launch intensity of lens+diode combination [dB]

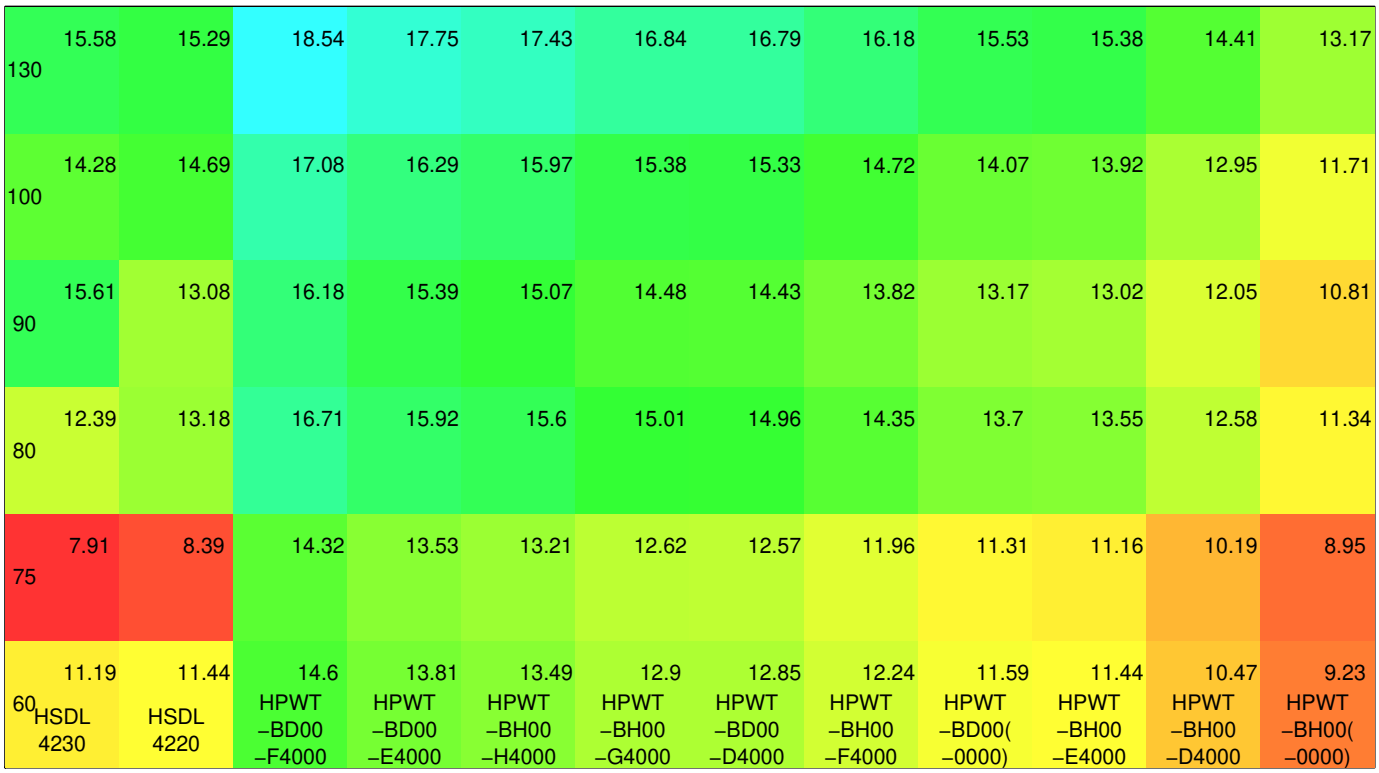


Fig. 12 : Launch intensity of lens+diode combination [dB]

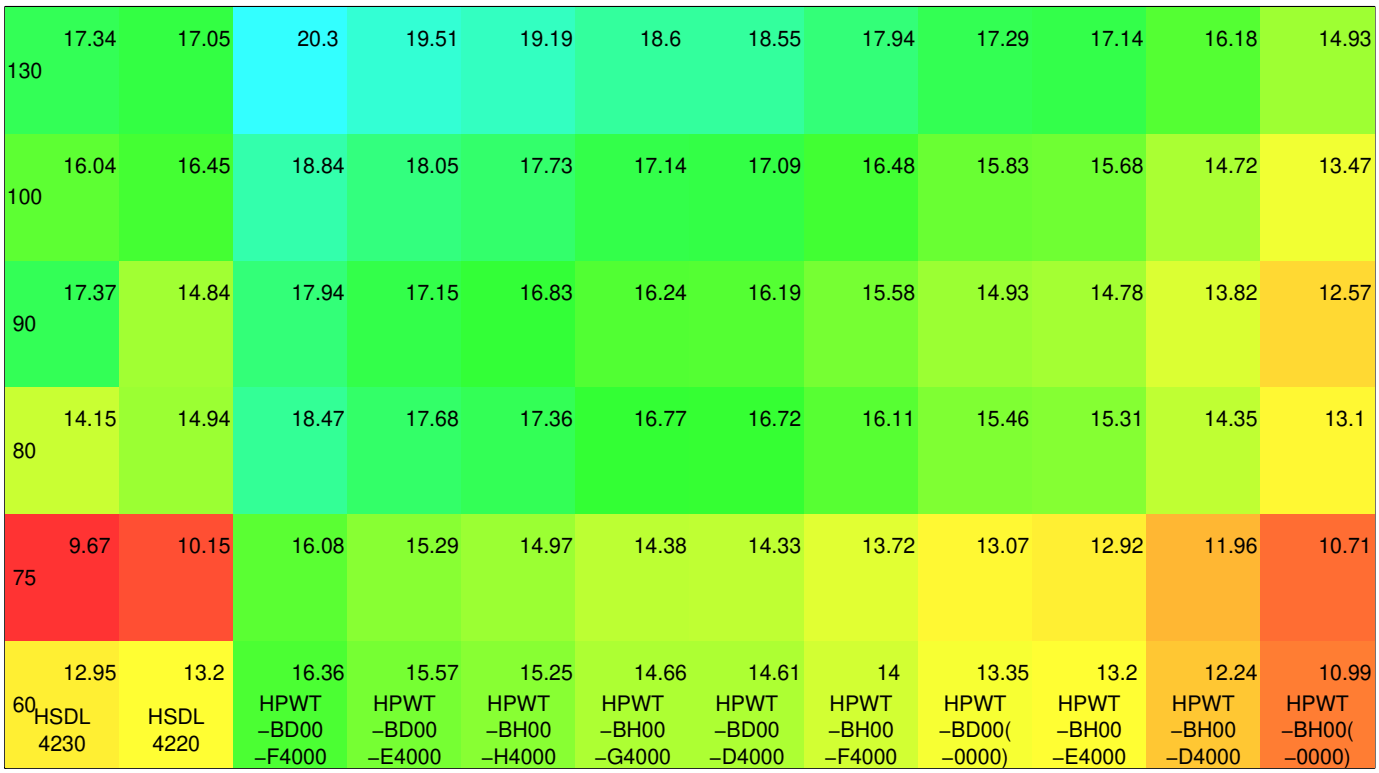


Fig. 13: Launch intensity with HSDL4230 IR LED

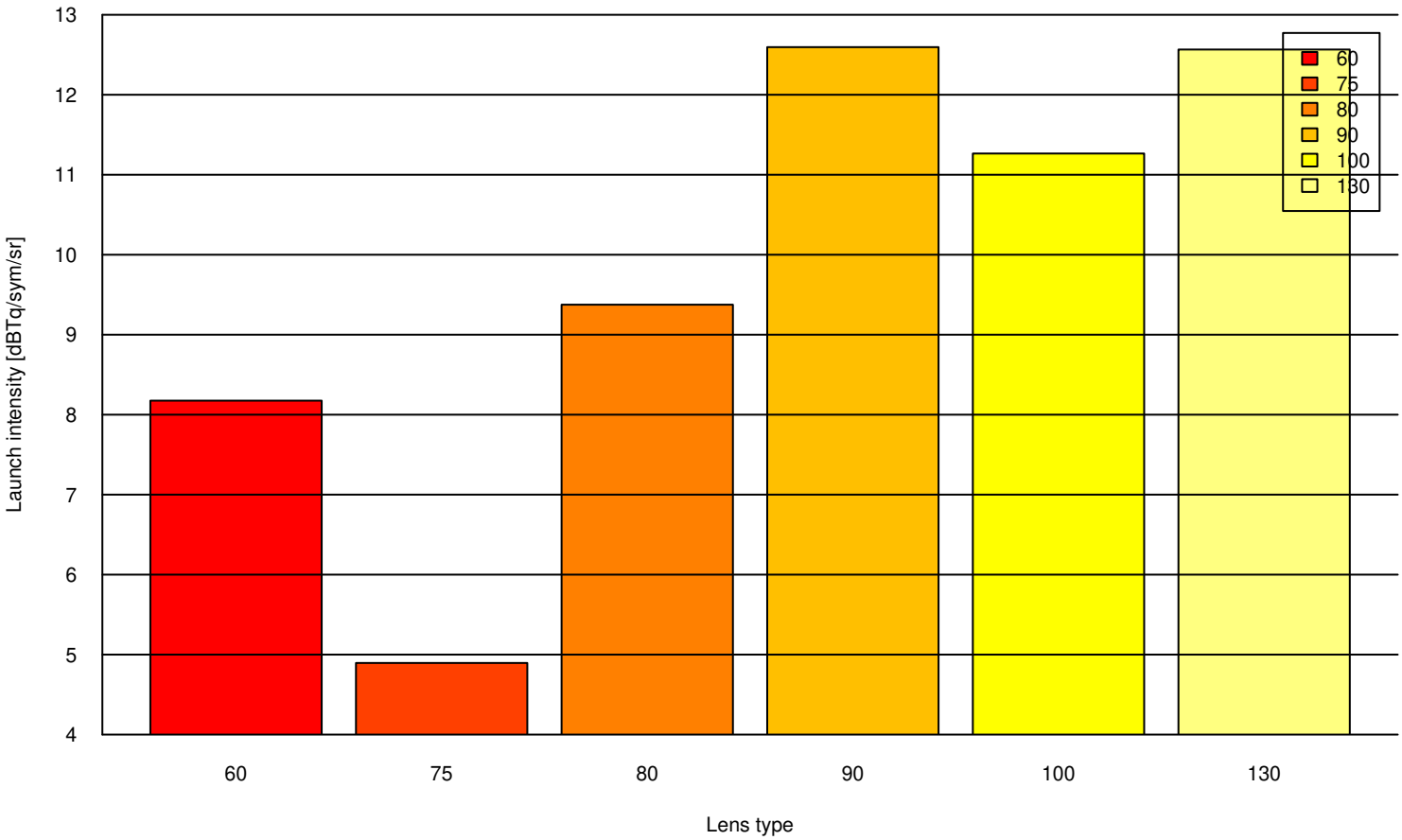


Fig. 14: Launch intensity with HSDL4220 IR LED

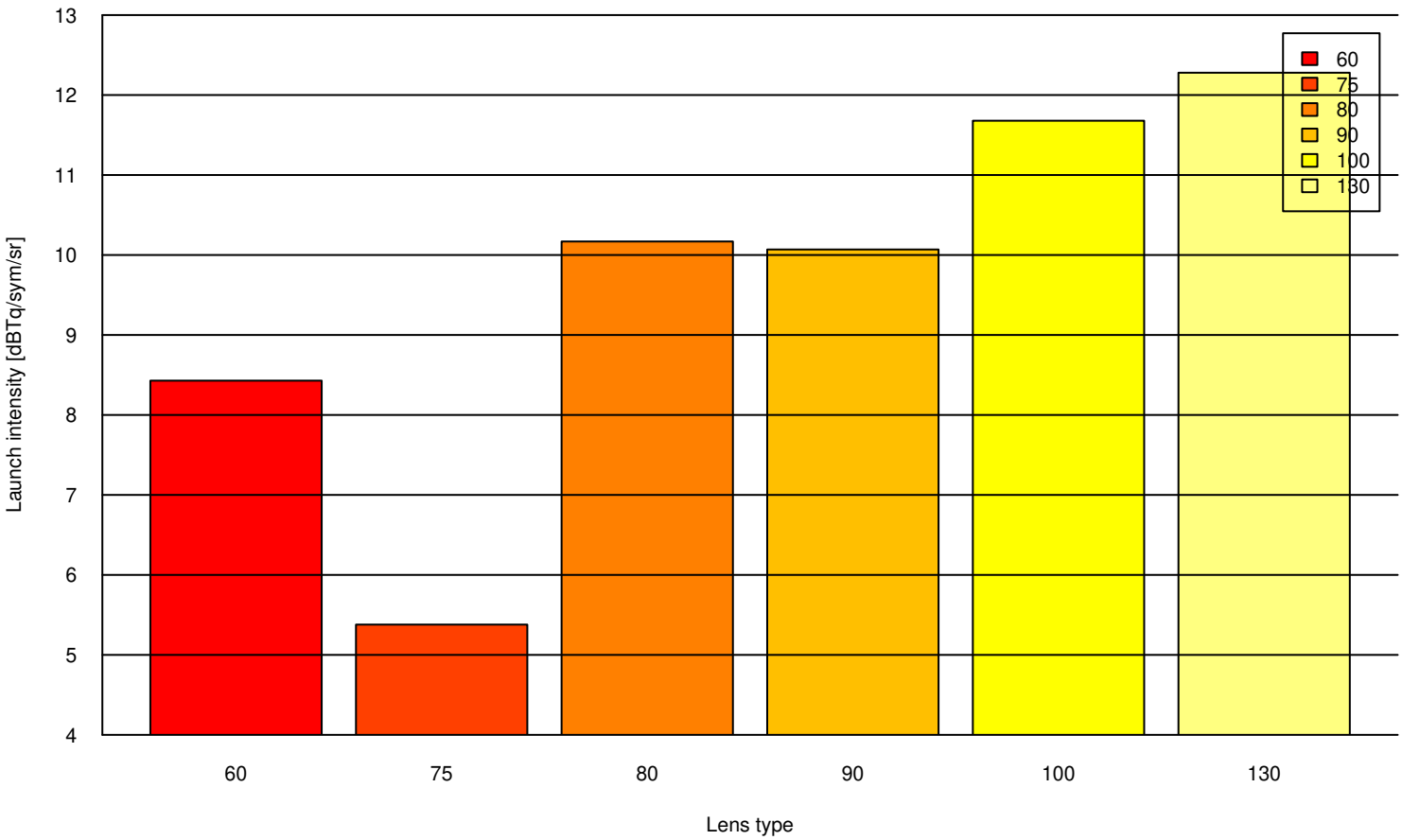


Fig. 15: Launch intensity with HPWT−BD00−F4000 LED

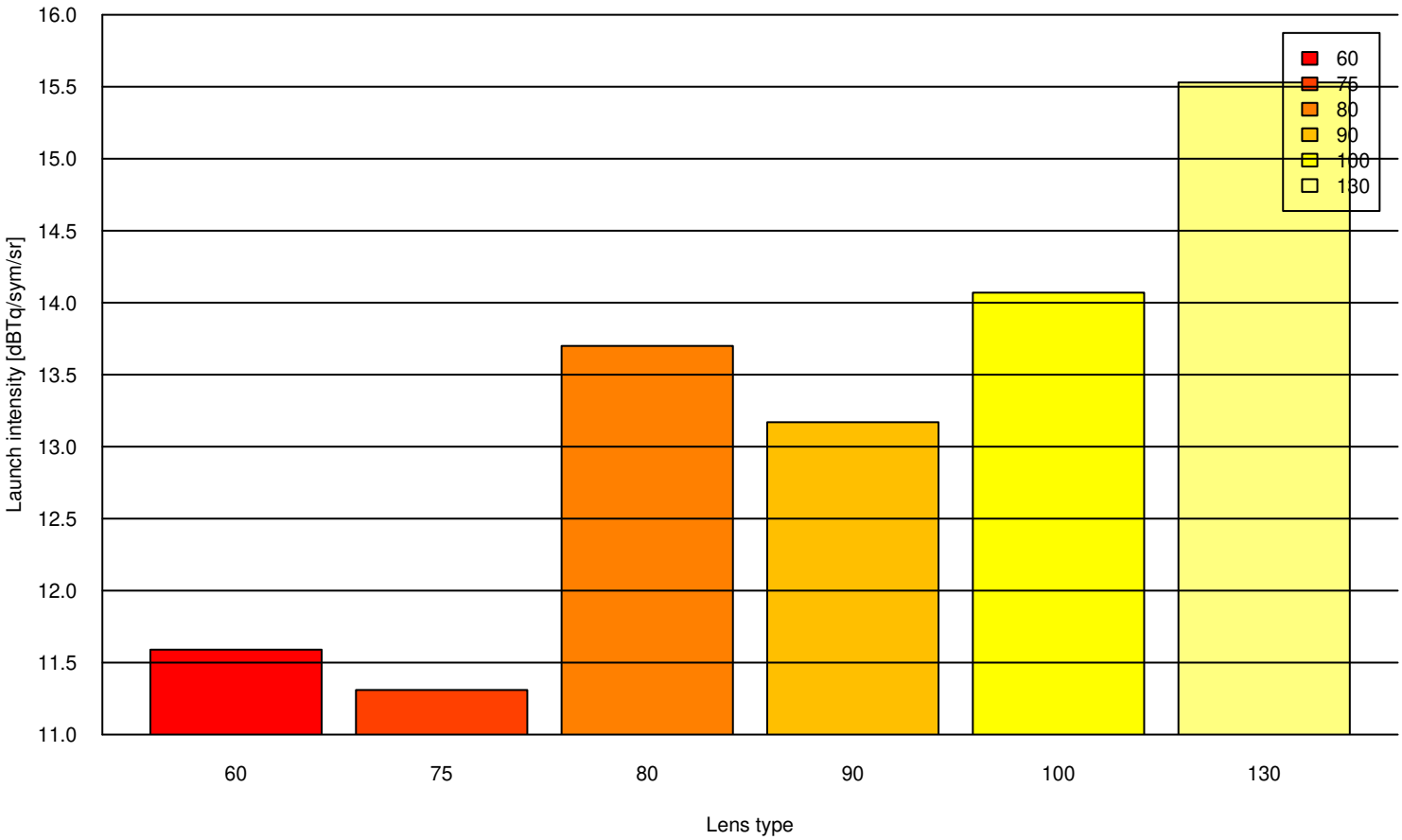


Fig. 16: Launch intensity with HPWT−BD00−E4000 LED

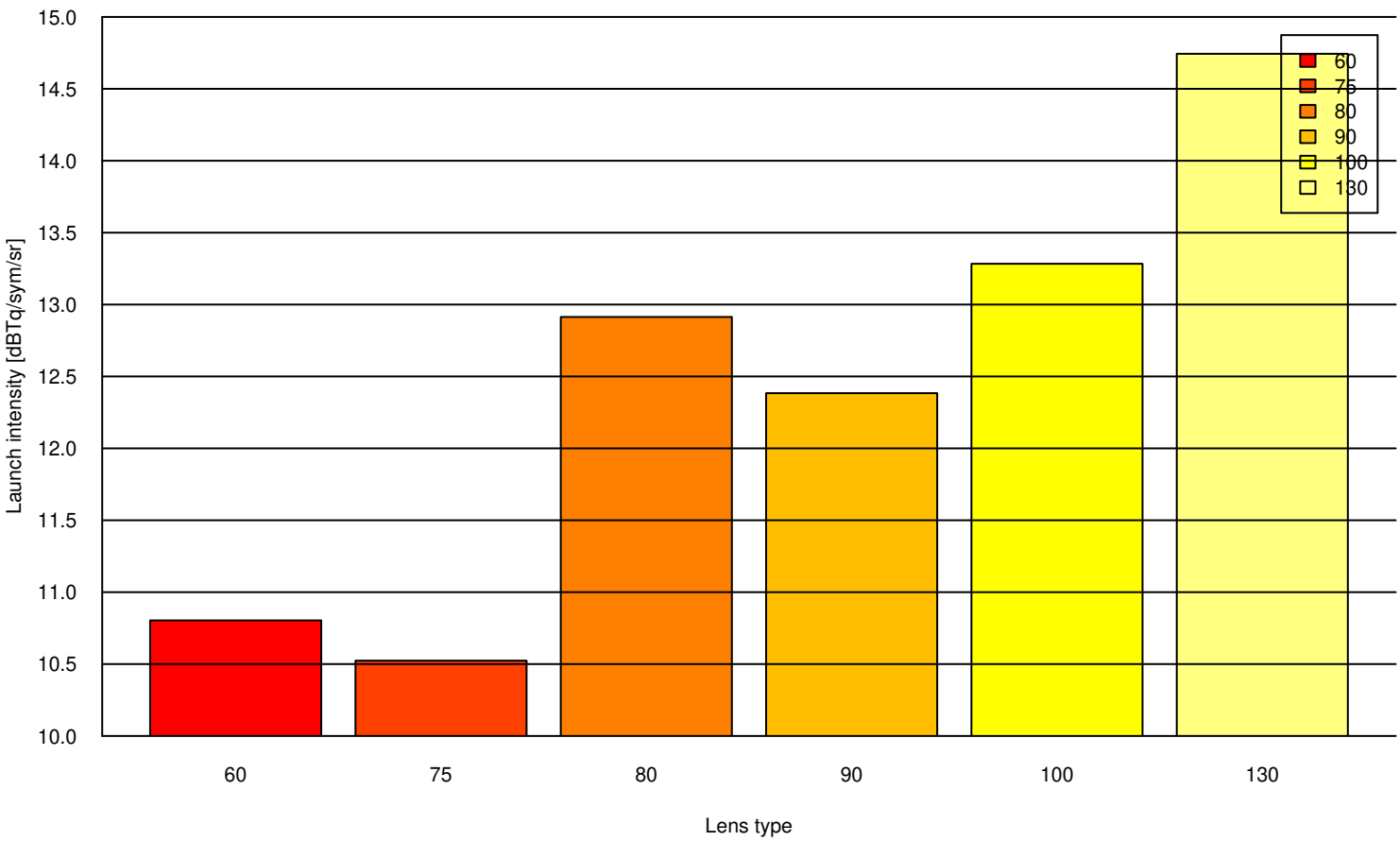
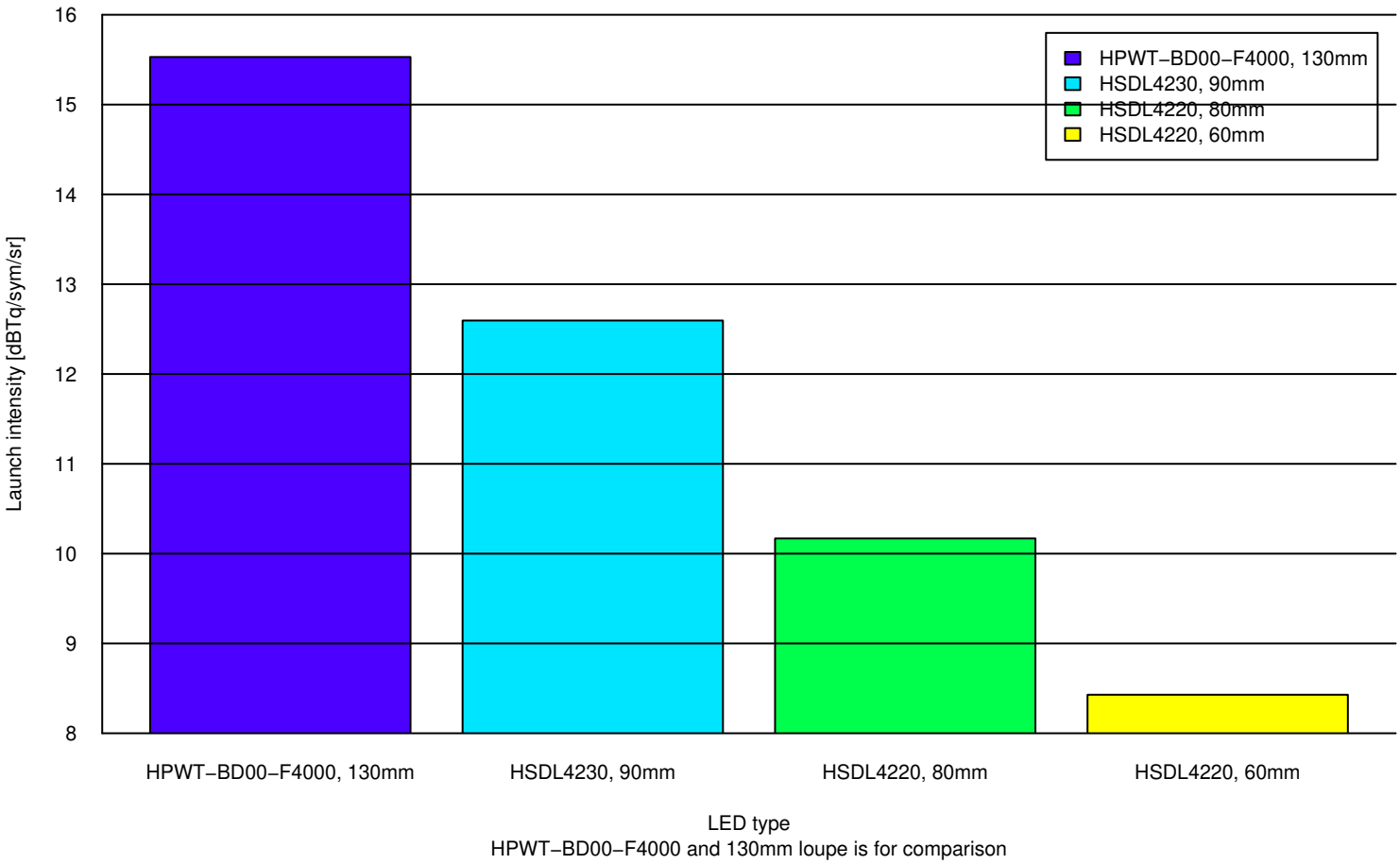



Fig. 17: Launch intensity of recommended IR diode + loupe combos