Table 1. Benchmarking results for low-light enhancement. Among unsupervised methods, we highlight the top-ranking scores in red and the second in blue. Additionally, we denote the training set used by each model. "LOL+" indicates a fusion of LOL and other datasets. Datasets Train Set LOL 48 56 MIT-Adobe FiveK [2] Unpaired Sets Metrics PSNR↑ SSIM[↑] **LPIPS**↓ LOE↓ PSNR↑ SSIM↑ LPIPS↓ LOE↓ BRISQUE↓ $NL\downarrow$ Retinex-Net [48] LOL 16.19 0.403 0.534 0.346 12.30 0.687 0.258 0.244 27.10 3.254 KinD 64 0.147 0.700 LOL 20.21 0.814 0.245 14.71 0.756 0.176 0.174 26.89 KinD++ 65 LOL 16.64 0.662 0.410 0.288 15.76 0.650 0.319 0.176 26.16 0.431 Supervised URetinex-Net 49 LOL 20.93 0.854 0.104 0.245 14.10 0.734 0.182 0.187 23.80 1.319 0.877 0.117 14.77 Retinexformer [3] LOL 28.48 0.256 13.87 0.692 0.222 0.224 1.064

0.000

0.281

24.02

18.51

0.007

0.785

0.002

0.163

0.188

14.64

0.684

0.888

1.563

0.779 1.471 0.603 1.962 1.569 1.150 2.091 3.312 3.633 0.853 1.893 1.335

0.423

0265

Retinexformer [3]	MIT	13.02	0.426	0.365	0.280	24.93	0.907	0.063	0.162	24.13
DiffLL [18]	LOL+	28.54	0.870	0.102	0.253	15.81	0.719	0.244	0.213	14.96
ExCNet 62	test images	16.29	0.455	0.380	0.295	14.21	0.719	0.197	0.197	19.03
EnlightenGAN [19]	own data	18.57	0.700	0.302	0.291	13.28	0.738	0.203	0.199	20.65
PairLIE [7]	LOL+	19.70	0.774	0.235	0.278	10.55	0.642	0.273	0.225	29.84
NeRCo 55	LSRW 12	19.67	0.720	0.266	0.310	17.33	0.767	0.208	0.213	22.81
CLIP-LIT [27]	own data	14.82	0.524	0.371	0.320	17.00	0.781	0.159	0.194	23.44
ZeroDCE [10]	own data	17.64	0.572	0.316	0.296	13.53	0.725	0.201	0.191	21.76
ZeroDCE++ 23	own data	17.03	0.445	0.314	0.391	12.33	0.408	0.280	0.417	19.34

0.400

0.808

12.00

20.31

COCO 28

Ours

	EnlightenGAN [19]	own data	18.57	0.700	0.302	0.291	15.28	0.738	0.203	0.199	20.65
	PairLIE 7	LOL+	19.70	0.774	0.235	0.278	10.55	0.642	0.273	0.225	29.84
Unsupervised	NeRCo 55	LSRW 12	19.67	0.720	0.266	0.310	17.33	0.767	0.208	0.213	22.81
	CLIP-LIT [27]	own data	14.82	0.524	0.371	0.320	17.00	0.781	0.159	0.194	23.44
	ZeroDCE [10]	own data	17.64	0.572	0.316	0.296	13.53	0.725	0.201	0.191	21.76
	ZeroDCE++ 23	own data	17.03	0.445	0.314	0.391	12.33	0.408	0.280	0.417	19.34
	RUAS 30	MIT	13.62	0.462	0.346	0.292	9.53	0.610	0.301	0.272	29.91
	RUAS 30	LOL	15.47	0.490	0.305	0.330	5.15	0.373	0.669	0.399	44.70
	RUAS 30	FACE 57	15.05	0.456	0.371	0.292	5.00	0.366	0.685	0.398	46.21
	SCI 34	MIT	11.67	0.395	0.361	0.286	16.29	0.795	0.143	0.165	16.73
	SCI 34	LOL+	16.97	0.532	0.312	0.289	7.83	0.573	0.360	0.187	24.46
	SCI 34	FACE 57	16.80	0.543	0.322	0.297	10.95	0.684	0.272	0.205	18.33

0.202