

**APPENDIX D: DATA TABLES**

Table D1 present the peak *R*-band absolute magnitudes and host galaxy properties used for all analysis in this work, for the three different samples. Table D presents DECam photometry of the DES sample presented in this paper.

Table D1: Supernova peak  $R$ -band absolute magnitudes ( $M_{\max}$ ) and host galaxy properties for the DES, LOSS and ZTF samples presented in this work, along with their associated errors. Please note, objects denoted with \* correspond to two SNe II in ZTF with  $M_{\max}$  less than -16 which have used only for the fits presented in Section 3.3, to help constrain the peak of the luminosity function, and not in the rest of the analysis.

SN	Survey	Class	Source <sup>a</sup>	$z$	$M_{\max}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
DES13C2jtx	DES	II	spec	0.223	-18.61	0.03	1.00	10.63	0.02	1.32	0.01	0.72	0.01
DES13X3fca	DES	II	spec	0.096	-16.92	0.02	1.00	10.02	0.01	1.48	0.01	0.69	0.01
DES14C3aol	DES	II	spec	0.076	-16.21	0.02	1.00	10.83	0.02	1.71	0.02	0.89	0.02
DES14X2cy	DES	II	spec	0.232	-18.99	0.01	1.00	9.22	0.02	0.43	0.02	0.38	0.01
DES14X2nzt	DES	II	spec	0.195	-18.31	0.02	1.00	–	–	–	–	–	–
DES15C2eaz	DES	II	spec	0.062	-17.49	0.03	1.00	8.10	0.01	0.78	0.03	0.39	0.02
DES15C2lna	DES	II	spec	0.069	-16.72	0.02	1.39	10.02	0.03	1.07	0.04	0.62	0.02
DES15C2lpp	DES	II	spec	0.181	-17.12	0.04	1.00	10.47	0.01	1.21	0.02	0.65	0.01
DES15C2npz	DES	II	spec	0.123	-17.18	0.02	1.00	9.13	0.01	0.73	0.02	0.46	0.01
DES15E1iuh	DES	II	spec	0.105	-17.14	0.02	1.00	7.44	0.08	0.68	0.14	0.43	0.06
DES15S1by	DES	II	spec	0.129	-17.13	0.03	1.00	9.33	0.04	0.60	0.06	0.40	0.01
DES15S1cj	DES	II	spec	0.167	-18.16	0.02	1.00	10.17	0.01	1.33	0.02	0.71	0.01
DES15S1lrp	DES	II	spec	0.223	-18.44	0.02	1.00	8.36	0.05	0.71	0.10	0.41	0.05
DES15S2eaq	DES	II	spec	0.068	-16.37	0.03	2.09	9.22	0.01	0.69	0.02	0.44	0.01
DES15X2mku	DES	II	spec	0.09	-16.67	0.02	1.47	8.73	0.04	–	–	0.36	0.02
DES15X3mpq	DES	II	spec	0.188	-17.55	0.02	1.00	10.29	0.01	1.00	0.02	0.56	0.01
DES15X3nad	DES	II	spec	0.10	-18.15	0.03	1.00	–	–	–	–	–	–
DES16C1cbg	DES	II	spec	0.111	-16.99	0.02	1.02	9.07	0.01	0.85	0.03	0.51	0.01
DES16C2cbv	DES	II	spec	0.109	-17.37	0.03	1.00	8.08	0.02	0.10	0.02	0.25	0.01
DES16X2bkr	DES	II	spec	0.159	-17.42	0.02	1.00	8.20	0.02	–	–	0.31	0.02
DES16X3cpl	DES	II	spec	0.205	-17.29	0.01	1.00	9.07	0.03	–	–	0.59	0.03
DES17C2pf	DES	II	spec	0.135	-17.22	0.02	1.00	7.15	0.14	0.39	0.23	0.34	0.09
DES17C3aye	DES	II	spec	0.157	-18.07	0.02	1.00	9.83	0.01	0.89	0.02	0.51	0.01
DES17C3bei	DES	II	spec	0.103	-17.15	0.03	1.00	10.46	0.01	1.12	0.02	0.61	0.01
DES17E2bhj	DES	II	spec	0.186	-17.09	0.03	1.00	10.44	0.01	1.03	0.03	0.57	0.01
DES17S2oo	DES	II	spec	0.23	-17.82	0.03	1.00	7.95	0.16	0.53	0.22	0.39	0.11
DES17X1aow	DES	II	spec	0.139	-17.65	0.04	1.00	10.56	0.06	–	–	0.91	0.01
DES17X1axb	DES	II	spec	0.139	-16.77	0.02	1.30	9.44	0.02	0.39	0.03	0.35	0.01
DES17X1gd	DES	II	spec	0.189	-17.59	0.03	1.00	9.02	0.03	0.31	0.03	0.31	0.01
DES17X2dql	DES	II	spec	0.143	-16.66	0.03	1.48	–	–	–	–	–	–
DES17X3dub	DES	II	spec	0.123	-16.11	0.02	1.00	8.53	0.06	0.45	0.09	0.36	0.02
DES13C1ffj	DES	II	phot	0.218	-17.36	0.02	1.00	9.32	0.04	–	–	0.36	0.02
DES13C1woj	DES	II	phot	0.232	-17.06	0.04	1.00	9.04	0.02	0.47	0.03	0.38	0.02
DES13C3abtm	DES	II	phot	0.195	-16.75	0.08	1.00	9.43	0.02	0.23	0.02	0.27	0.01
DES13C3avns	DES	II	phot	0.242	-17.28	0.02	1.00	9.85	0.02	0.48	0.03	0.36	0.01
DES13E1ackb	DES	II	phot	0.216	-17.55	0.03	1.00	9.04	0.03	–	–	0.37	0.02
DES13E1pat	DES	II	phot	0.223	-18.54	0.03	1.00	10.80	0.06	1.86	0.02	0.95	0.01
DES13X1hxq	DES	II	phot	0.24	-17.22	0.05	1.00	9.31	0.01	0.56	0.02	0.40	0.01
DES14C1lnl	DES	II	phot	0.196	-17.67	0.01	1.00	8.46	0.03	0.38	0.04	0.29	0.02
DES14C2rqo	DES	II	phot	0.216	-18.17	0.02	1.00	7.88	0.06	0.41	0.09	0.34	0.05
DES14C2rso	DES	II	phot	0.223	-17.41	0.02	1.00	10.04	0.02	0.79	0.02	0.47	0.01
DES14C3asy	DES	II	phot	0.174	-16.20	0.02	1.00	9.05	0.01	0.57	0.02	0.40	0.01
DES14C3kzd	DES	II	phot	0.078	-17.33	0.03	1.00	10.59	0.01	1.18	0.02	0.64	0.01
DES14E1bdh	DES	II	phot	0.238	-16.89	0.02	1.13	9.11	0.02	0.49	0.02	0.38	0.01
DES14E2fmi	DES	II	phot	0.21	-17.56	0.03	1.00	9.50	0.01	0.73	0.02	0.44	0.01
DES14E2gvo	DES	II	phot	0.126	-16.44	0.03	1.91	10.06	0.01	–	–	0.79	0.01
DES14S1mkj	DES	II	phot	0.189	-17.23	0.03	1.00	9.93	0.01	–	–	0.71	0.01
DES14S2dbe	DES	II	phot	0.201	-17.81	0.03	1.00	10.67	0.01	0.91	0.02	0.52	0.01
DES14S2obu	DES	II	phot	0.18	-17.49	0.03	1.00	9.59	0.01	–	–	0.45	0.01
DES14X2mqu	DES	II	phot	0.092	-16.93	0.03	1.09	9.85	0.01	0.91	0.02	0.53	0.01
DES14X3ddy	DES	II	phot	0.205	-17.21	0.02	1.00	9.86	0.02	0.56	0.02	0.41	0.01
DES14X3ili	DES	II	phot	0.142	-17.24	0.16	1.00	9.05	0.02	0.56	0.03	0.41	0.01
DES15C1ats	DES	II	phot	0.244	-17.16	0.05	1.00	9.32	0.02	0.54	0.02	0.39	0.01

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\text{max}}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
DES15C1lwn	DES	II	phot	0.206	-16.84	0.02	1.20	9.03	0.02	0.28	0.02	0.31	0.01
DES15C2lpm	DES	II	phot	0.19	-17.00	0.04	1.00	10.10	0.01	0.87	0.02	0.50	0.01
DES15X2aso	DES	II	phot	0.207	-17.44	0.04	1.00	9.59	0.02	0.65	0.02	0.43	0.01
DES16C1ftn	DES	II	phot	0.205	-17.27	0.03	1.00	9.62	0.01	1.02	0.02	0.57	0.01
DES16C3ecv	DES	II	phot	0.244	-17.69	0.02	1.00	–	–	–	–	–	–
DES16C3fuk	DES	II	phot	0.25	-17.05	0.04	1.00	–	–	–	–	–	–
DES16E1eab	DES	II	phot	0.179	-16.88	0.02	1.15	8.64	0.03	0.34	0.03	0.34	0.01
DES16E1eke	DES	II	phot	0.081	-17.65	0.09	1.00	8.24	0.01	0.68	0.03	0.43	0.01
DES16S2eam	DES	II	phot	0.181	-16.39	0.02	2.03	10.36	0.01	1.00	0.04	0.55	0.01
DES16X3qx	DES	II	phot	0.187	-16.46	0.02	1.00	10.81	0.02	1.28	0.02	0.70	0.01
DES17C2eoa	DES	II	phot	0.213	-16.64	0.02	1.51	10.06	0.01	0.69	0.02	0.43	0.01
DES17E1dtv	DES	II	phot	0.199	-17.25	0.02	1.00	10.11	0.01	1.21	0.02	0.65	0.01
DES17E2brh	DES	II	phot	0.222	-16.97	0.03	1.04	10.00	0.01	–	–	0.48	0.01
DES17X1gco	DES	II	phot	0.203	-17.59	0.02	1.00	8.84	0.01	0.38	0.02	0.35	0.01
DES17X2ayo	DES	II	phot	0.122	-17.02	0.04	1.00	8.83	0.02	–	–	0.39	0.01
DES17X2bxs	DES	II	phot	0.177	-16.57	0.06	1.65	10.40	0.01	–	–	0.64	0.01
DES13C1feu	DES	Ibc	spec	0.059	-17.68	0.03	1.00	10.42	0.04	1.29	0.04	0.70	0.01
DES14X2fna	DES	Ibc	spec	0.045	-19.37	0.04	1.00	8.17	0.01	0.83	0.02	0.43	0.02
DES15C1mat	DES	Ibc	spec	0.12	-17.48	0.03	1.00	10.54	0.01	0.87	0.02	0.50	0.01
DES15E2mhi	DES	Ibc	spec	0.208	-17.51	0.04	1.00	8.93	0.01	0.64	0.02	0.43	0.01
DES16C1zb	DES	Ibc	spec	0.13	-17.18	0.02	1.00	10.70	0.01	1.18	0.02	0.64	0.01
DES16S1kt	DES	Ibc	spec	0.068	-17.31	0.04	1.00	9.90	0.04	1.02	0.05	0.58	0.02
DES16X2bvf	DES	Ibc	spec	0.135	-17.97	0.02	1.00	8.57	0.02	0.32	0.03	0.32	0.02
DES16X2dqz	DES	Ibc	spec	0.204	-17.55	0.03	1.00	8.75	0.02	0.94	0.06	0.52	0.03
DES16X3bdb	DES	Ibc	spec	0.229	-18.08	0.02	1.00	9.68	0.01	–	–	0.50	0.01
DES17C1bzd	DES	Ibc	spec	0.12	-17.91	0.02	1.00	11.67	0.02	1.28	0.02	0.70	0.01
DES17C1ffz	DES	Ibc	spec	0.09	-17.85	0.02	1.00	9.50	0.01	–	–	0.54	0.01
DES13C1anve	DES	Ibc	phot	0.214	-17.34	0.03	1.00	9.44	0.02	0.57	0.03	0.40	0.01
DES13C1hxx	DES	Ibc	phot	0.161	-17.18	0.03	1.00	9.98	0.01	0.87	0.04	0.50	0.01
DES13C2rgr	DES	Ibc	phot	0.244	-18.20	0.03	1.00	9.44	0.02	–	–	0.24	0.01
DES13C3absw	DES	Ibc	phot	0.069	-18.55	0.03	1.00	9.08	0.04	–	–	0.66	0.02
DES13C3aeiv	DES	Ibc	phot	0.174	-17.76	0.02	1.00	8.36	0.03	–	–	0.28	0.01
DES13C3lex	DES	Ibc	phot	0.109	-16.88	0.02	1.00	8.48	0.01	–	–	0.20	0.01
DES13C3tqe	DES	Ibc	phot	0.217	-17.15	0.03	1.00	9.11	0.02	0.31	0.02	0.33	0.01
DES13S1rww	DES	Ibc	phot	0.201	-17.10	0.03	1.00	9.06	0.04	0.42	0.04	0.37	0.02
DES13S2hxn	DES	Ibc	phot	0.143	-16.82	0.04	1.23	9.53	0.02	–	–	0.39	0.01
DES13X1atuq	DES	Ibc	phot	0.084	-16.28	0.06	2.31	9.98	0.03	1.16	0.04	0.65	0.02
DES14C2bcu	DES	Ibc	phot	0.213	-17.47	0.02	1.00	10.86	0.01	–	–	0.94	0.01
DES14C3dzo	DES	Ibc	phot	0.247	-17.62	0.01	1.00	9.54	0.01	–	–	0.44	0.01
DES14C3guv	DES	Ibc	phot	0.215	-17.25	0.02	1.00	9.86	0.01	–	–	0.44	0.01
DES14C3ouq	DES	Ibc	phot	0.107	-16.74	0.03	1.00	10.03	0.01	1.10	0.02	0.60	0.01
DES14C3qby	DES	Ibc	phot	0.219	-17.65	0.07	1.00	10.50	0.01	1.28	0.01	0.69	0.01
DES14C3sle	DES	Ibc	phot	0.144	-17.25	0.02	1.00	9.48	0.01	–	–	0.58	0.01
DES14E1nyv	DES	Ibc	phot	0.118	-16.65	0.03	1.49	10.39	0.04	1.61	0.03	0.84	0.01
DES14X1mhi	DES	Ibc	phot	0.129	-17.28	0.05	1.00	9.78	0.01	1.50	0.02	0.79	0.01
DES14X1qwn	DES	Ibc	phot	0.151	-18.28	0.02	1.00	10.74	0.02	–	–	0.91	0.01
DES14X1tae	DES	Ibc	phot	0.046	-16.70	0.07	1.42	10.77	0.01	2.02	0.02	1.02	0.02
DES14X3fok	DES	Ibc	phot	0.094	-16.66	0.03	1.00	10.18	0.01	1.08	0.02	0.59	0.02
DES15C3hbo	DES	Ibc	phot	0.16	-16.87	0.02	1.00	9.72	0.01	0.79	0.03	0.47	0.01
DES15C3lrw	DES	Ibc	phot	0.129	-17.46	0.01	1.00	9.40	0.01	–	–	0.61	0.01
DES15C3mbe	DES	Ibc	phot	0.181	-16.41	0.02	1.00	8.94	0.02	0.52	0.03	0.37	0.01
DES15C3mud	DES	Ibc	phot	0.182	-17.85	0.06	1.00	10.02	0.01	1.10	0.01	0.60	0.01
DES15C3nqt	DES	Ibc	phot	0.139	-17.44	0.12	1.00	10.78	0.01	1.25	0.02	0.68	0.01
DES15X2kzu	DES	Ibc	phot	0.136	-17.14	0.04	1.00	9.67	0.01	0.87	0.02	0.51	0.02
DES15X3nso	DES	Ibc	phot	0.238	-17.15	0.02	1.00	9.32	0.01	0.72	0.02	0.44	0.01
DES16C3aky	DES	Ibc	phot	0.239	-16.10	0.04	1.00	8.77	0.02	–	–	0.38	0.02
DES16C3byu	DES	Ibc	phot	0.143	-18.09	0.02	1.00	10.96	0.01	–	–	0.94	0.01
DES16E1bkh	DES	Ibc	phot	0.115	-17.19	0.02	1.00	10.13	0.01	–	–	0.75	0.01
DES16S1bnj	DES	Ibc	phot	0.183	-17.46	0.02	1.00	7.83	0.09	0.23	0.13	0.28	0.05

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\max}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
DES16S1ku	DES	Ibc	phot	0.064	-16.19	0.03	2.59	10.20	0.04	1.33	0.04	0.72	0.02
DES16X1bax	DES	Ibc	phot	0.213	-17.76	0.02	1.00	10.14	0.01	0.94	0.02	0.53	0.01
DES16X1fmd	DES	Ibc	phot	0.155	-16.09	0.03	2.92	9.22	0.03	0.54	0.05	0.39	0.01
DES16X2eaw	DES	Ibc	phot	0.151	-17.52	0.05	1.00	10.74	0.02	1.44	0.03	0.77	0.01
DES16X3cpc	DES	Ibc	phot	0.147	-17.51	0.01	1.00	9.58	0.01	–	–	0.66	0.01
DES17C3pt	DES	Ibc	phot	0.187	-16.38	0.04	1.00	9.51	0.02	0.63	0.03	0.41	0.01
DES17X3mr	DES	Ibc	phot	0.166	-16.99	0.02	1.00	9.30	0.02	–	–	0.56	0.01
SN 1999D	LOSS	II	spec	0.01	-16.47	0.16	1.00	10.04	0.01	0.89	0.03	0.51	0.01
SN 1999an	LOSS	II	spec	0.005	-16.09	0.32	1.00	8.83	0.01	0.90	0.02	0.47	0.02
SN 1999el	LOSS	II	spec	0.005	-18.00	0.26	1.00	–	–	–	–	–	–
SN 1999em	LOSS	II	spec	0.002	-16.02	0.62	1.00	–	–	–	–	–	–
SN 1999go	LOSS	II	spec	0.013	-18.32	0.18	1.00	–	–	–	–	–	–
SN 2000cb	LOSS	II	spec	0.006	-16.07	0.23	1.00	9.74	0.07	1.56	0.01	0.83	0.01
SN 2000dc	LOSS	II	spec	0.01	-16.99	0.15	1.00	–	–	–	–	–	–
SN 2000eo	LOSS	II	spec	0.01	-18.16	0.24	1.00	–	–	–	–	–	–
SN 2001K	LOSS	II	spec	0.011	-16.43	0.20	1.00	9.89	0.03	1.52	0.01	0.76	0.01
SN 2001bq	LOSS	II	spec	0.008	-17.11	0.22	1.00	–	–	–	–	–	–
SN 2001bq	LOSS	II	spec	0.008	-17.11	0.22	1.00	–	–	–	–	–	–
SN 2001cm	LOSS	II	spec	0.012	-17.10	0.19	1.00	11.23	0.01	–	0.01	1.17	0.01
SN 2001do	LOSS	II	spec	0.011	-17.46	0.14	1.00	–	–	–	–	–	–
SN 2001hf	LOSS	II	spec	0.014	-16.96	0.32	1.00	–	–	–	–	–	–
SN 2002an	LOSS	II	spec	0.012	-17.65	0.23	1.00	–	–	–	–	–	–
SN 2002ds	LOSS	II	spec	0.007	-16.73	0.24	1.00	–	–	–	–	–	–
SN 2002gw	LOSS	II	spec	0.009	-16.25	0.21	1.00	–	–	–	–	–	–
SN 2003G	LOSS	II	spec	0.011	-18.42	0.23	1.00	10.08	0.03	1.60	0.01	0.85	0.01
SN 2003dv	LOSS	II	spec	0.008	-16.45	0.19	1.00	8.91	0.01	0.87	0.02	0.47	0.02
SN 2003ef	LOSS	II	spec	0.013	-16.55	0.32	1.00	–	–	–	–	–	–
SN 2003hg	LOSS	II	spec	0.014	-17.06	0.14	1.00	10.83	0.01	1.58	0.01	0.82	0.01
SN 2003hl	LOSS	II	spec	0.008	-16.42	0.18	1.00	11.11	0.00	2.14	0.01	1.06	0.01
SN 2003iq	LOSS	II	spec	0.008	-17.02	0.18	1.00	11.11	0.00	2.14	0.01	1.06	0.01
SN 2003ld	LOSS	II	spec	0.013	-16.42	0.41	1.00	10.11	0.01	1.20	0.01	0.67	0.01
SN 2004al	LOSS	II	spec	0.013	-16.55	0.22	1.00	–	–	–	–	–	–
SN 2004ci	LOSS	II	spec	0.013	-16.23	0.18	1.00	10.61	0.13	1.86	0.03	0.94	0.02
SN 2004dd	LOSS	II	spec	0.013	-16.16	0.18	1.00	9.96	0.03	1.29	0.02	0.71	0.02
SN 2004er	LOSS	II	spec	0.014	-16.82	0.18	1.00	10.14	0.01	1.03	0.01	0.60	0.01
SN 2004et	LOSS	II	spec	0.001	-16.39	1.06	1.00	–	–	–	–	–	–
SN 2005H	LOSS	II	spec	0.012	-17.31	0.23	1.00	10.12	0.02	1.02	0.03	0.59	0.02
SN 2005J	LOSS	II	spec	0.013	-16.94	0.18	1.00	10.20	0.14	1.82	0.03	0.89	0.03
SN 2005an	LOSS	II	spec	0.01	-16.62	0.24	1.00	–	–	–	–	–	–
SN 2005aq	LOSS	II	spec	0.012	-16.53	0.51	1.00	–	–	–	–	–	–
SN 2005mg	LOSS	II	spec	0.013	-17.07	0.32	1.00	10.70	0.03	2.16	0.02	1.07	0.01
SN 2006be	LOSS	II	spec	0.007	-16.40	0.27	1.00	9.96	0.01	1.98	0.02	1.00	0.01
SN 2006bp	LOSS	II	spec	0.004	-16.10	0.33	1.00	10.69	0.01	2.32	0.01	1.13	0.01
SN 2006ca	LOSS	II	spec	0.009	-17.25	0.18	1.00	–	–	–	–	–	–
SN 1998dt	LOSS	Ibc	spec	0.014	-16.84	0.51	1.00	–	–	–	–	–	–
SN 1999bu	LOSS	Ibc	spec	0.009	-16.22	0.52	1.00	10.68	0.03	2.02	0.01	1.01	0.01
SN 1999cd	LOSS	Ibc	spec	0.014	-16.13	0.18	1.00	–	–	–	–	–	–
SN 1999dn	LOSS	Ibc	spec	0.009	-16.94	0.16	1.00	–	–	–	–	–	–
SN 2000C	LOSS	Ibc	spec	0.012	-17.64	0.19	1.00	10.03	0.01	0.61	0.01	0.42	0.01
SN 2000H	LOSS	Ibc	spec	0.012	-17.18	0.23	1.00	–	–	–	–	–	–
SN 2000N	LOSS	Ibc	spec	0.013	-16.63	0.23	1.00	–	–	–	–	–	–
SN 2001is	LOSS	Ibc	spec	0.013	-16.07	0.32	1.00	–	–	–	–	–	–
SN 2002J	LOSS	Ibc	spec	0.012	-16.31	0.15	1.00	10.80	0.02	2.02	0.01	1.01	0.01
SN 2002ap	LOSS	Ibc	spec	0.002	-17.43	0.56	1.00	–	–	–	–	–	–
SN 2002jj	LOSS	Ibc	spec	0.013	-17.38	0.23	1.00	10.04	0.05	1.51	0.02	0.80	0.02
SN 2002jz	LOSS	Ibc	spec	0.005	-16.20	0.33	1.00	–	–	–	–	–	–
SN 2003aa	LOSS	Ibc	spec	0.01	-16.91	0.17	1.00	–	–	–	–	–	–
SN 2004al	LOSS	Ibc	spec	0.013	-16.85	0.22	1.00	–	–	–	–	–	–
SN 2004be	LOSS	Ibc	spec	0.007	-16.97	0.36	1.00	–	–	–	–	–	–

Continued on next page

Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\text{max}}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
SN 2004dk	LOSS	Ibc	spec	0.005	-17.23	0.25	1.00	10.23	0.00	2.25	0.00	1.10	0.01
SN 2004gq	LOSS	Ibc	spec	0.006	-16.80	0.24	1.00	–	–	–	–	–	–
SN 2005U	LOSS	Ibc	spec	0.011	-17.76	0.24	1.00	10.28	0.01	1.29	0.01	0.71	0.01
SN 2005az	LOSS	Ibc	spec	0.009	-16.87	0.18	1.00	9.65	0.02	0.90	0.01	0.54	0.01
SN 2006F	LOSS	Ibc	spec	0.013	-16.44	0.41	1.00	–	–	–	–	–	–
SN 2006T	LOSS	Ibc	spec	0.007	-17.34	0.24	1.00	–	–	–	–	–	–
ZTF18aaaibml	ZTF	II	spec	0.035	-17.76	0.04	1.66	9.25	0.01	0.41	0.01	0.36	0.01
ZTF18aavqdyq	ZTF	II	spec	0.026	-16.61	0.06	7.66	8.92	0.02	0.81	0.04	0.42	0.02
ZTF18aawyjjq	ZTF	II	spec	0.04	-17.55	0.04	2.20	10.65	0.02	1.84	0.02	0.90	0.01
ZTF18abceakp	ZTF	II	spec	0.03	-17.50	0.11	2.34	7.52	0.07	0.63	0.15	0.36	0.08
ZTF18abceznh	ZTF	II	spec	0.057	-18.13	0.05	1.02	9.62	0.02	0.57	0.02	0.41	0.01
ZTF18abcpmwh	ZTF	II	spec	0.015	-17.51	0.10	2.31	10.81	0.0	1.74	0.0	0.85	0.01
ZTF18abcptmt	ZTF	II	spec	0.05	-18.10	0.04	1.06	9.15	0.02	0.73	0.03	0.45	0.01
ZTF18abltfho	ZTF	II	spec	0.055	-18.81	0.03	1.0	10.42	0.01	0.72	0.01	0.45	0.01
ZTF18abokyfk	ZTF	II	spec	0.017	-17.11	0.09	3.95	–	–	–	–	–	–
ZTF18abqyvzy	ZTF	II	spec	0.015	-17.90	0.10	1.38	8.96	0.02	0.41	0.02	0.34	0.02
ZTF18abrlljc	ZTF	II	spec	0.05	-18.57	0.03	1.0	–	–	–	–	–	–
ZTF18abvmlow	ZTF	II	spec	0.007	-16.05	0.21	16.22	8.98	0.02	1.17	0.02	0.65	0.01
ZTF18abvmdf	ZTF	II	spec	0.03	-17.08	0.07	4.11	10.34	0.04	1.30	0.02	0.71	0.01
ZTF18abzrgim	ZTF	II	spec	0.021	-17.37	0.08	2.77	10.61	0.05	1.79	0.02	0.91	0.01
ZTF18acebssa	ZTF	II	spec	0.03	-18.35	0.05	1.0	10.20	0.02	1.68	0.02	0.87	0.01
ZTF18acefuhk	ZTF	II	spec	0.057	-18.68	0.03	1.0	9.10	0.02	0.25	0.03	0.30	0.01
ZTF18achtnvk	ZTF	II	spec	0.04	-17.73	0.04	1.72	9.97	0.02	1.58	0.04	0.82	0.03
ZTF18acqwdla	ZTF	II	spec	0.028	-18.72	0.06	1.0	8.76	0.03	0.64	0.04	0.42	0.02
ZTF18acrvtmm	ZTF	II	spec	0.023	-17.57	0.07	2.12	10.90	0.05	2.0	0.02	0.99	0.01
ZTF18acszaiz	ZTF	II	spec	0.03	-17.84	0.05	1.49	10.02	0.06	1.90	0.04	0.96	0.02
ZTF18acuqskr	ZTF	II	spec	0.045	-18.35	0.05	1.0	9.86	0.02	1.42	0.02	0.75	0.01
ZTF18acvwdkk	ZTF	II	spec	0.023	-16.11	0.07	15.01	–	–	–	–	–	–
ZTF18adazblo	ZTF	II	spec	0.027	-16.60	0.06	7.76	9.88	0.02	0.96	0.01	0.57	0.01
ZTF18adbacau	ZTF	II	spec	0.037	-17.36	0.04	2.81	10.57	0.04	1.42	0.02	0.77	0.01
ZTF18adbmrug	ZTF	II	spec	0.024	-17.97	0.08	1.25	–	–	–	–	–	–
ZTF19aadnxog	ZTF	II	spec	0.02	-18.13	0.08	1.02	10.03	0.02	1.23	0.02	0.66	0.02
ZTF19aailepg	ZTF	II	spec	0.03	-17.43	0.05	2.55	8.98	0.01	0.48	0.01	0.39	0.01
ZTF19aakjcxss	ZTF	II	spec	0.038	-19.11	0.05	1.0	9.63	0.01	0.91	0.02	0.52	0.01
ZTF19aaloqmd	ZTF	II	spec	0.034	-17.58	0.05	2.09	9.12	0.02	1.0	0.02	0.58	0.01
ZTF19aamhgwm	ZTF	II	spec	0.034	-17.84	0.05	1.50	10.13	0.02	1.10	0.02	0.62	0.01
ZTF19aamhmsx	ZTF	II	spec	0.047	-18.18	0.04	1.0	9.10	0.03	0.99	0.05	0.47	0.03
ZTF19aamkmxv	ZTF	II	spec	0.014	-17.54	0.11	2.21	9.29	0.01	1.14	0.02	0.64	0.01
ZTF19aamvape	ZTF	II	spec	0.03	-17.96	0.05	1.28	7.16	0.19	1.31	0.30	0.68	0.21
ZTF19aanfnvl	ZTF	II	spec	0.032	-17.72	0.05	1.74	11.24	0.0	2.36	0.0	1.14	0.01
ZTF19aanfqug	ZTF	II	spec	0.046	-17.79	0.04	1.59	6.77	0.19	-0.19	0.25	0.13	0.15
ZTF19aanhhhal	ZTF	II	spec	0.026	-17.15	0.06	3.72	10.96	0.04	1.87	0.01	0.95	0.01
ZTF19aaniore	ZTF	II	spec	0.03	-17.23	0.05	3.35	10.85	0.01	2.03	0.01	1.01	0.01
ZTF19aanpcep	ZTF	II	spec	0.031	-17.74	0.05	1.71	8.99	0.02	0.94	0.05	0.46	0.02
ZTF19aanqzhm	ZTF	II	spec	0.049	-18.33	0.05	1.0	–	–	–	–	–	–
ZTF19aanrrqu	ZTF	II	spec	0.024	-18.01	0.06	1.19	8.80	0.02	0.11	0.02	0.25	0.03
ZTF19aapafit	ZTF	II	spec	0.019	-16.92	0.08	5.05	9.23	0.02	0.90	0.05	0.50	0.02
ZTF19aapafqd	ZTF	II	spec	0.032	-17.56	0.05	2.17	10.73	0.02	1.90	0.01	0.93	0.01
ZTF19aapbfot	ZTF	II	spec	0.03	-16.97	0.05	4.75	8.59	0.03	0.74	0.07	0.40	0.02
ZTF19aapzbjr	ZTF	II	spec	0.03	-17.77	0.05	1.64	9.78	0.02	0.98	0.02	0.57	0.02
ZTF19aaqdkrm	ZTF	II	spec	0.034	-17.83	0.05	1.52	10.13	0.02	1.10	0.02	0.62	0.01
ZTF19aaqxosb	ZTF	II	spec	0.019	-16.56	0.08	8.23	10.48	0.05	1.47	0.01	0.79	0.01
ZTF19aathllr	ZTF	II	spec	0.055	-18.77	0.04	1.0	–	–	–	–	–	–
ZTF19aatqzim	ZTF	II	spec	0.05	-18.22	0.04	1.0	10.65	0.01	1.72	0.02	0.89	0.01
ZTF19aaugaam	ZTF	II	spec	0.05	-18.84	0.03	1.0	10.13	0.01	1.06	0.01	0.61	0.01
ZTF19aauisdr	ZTF	II	spec	0.043	-17.82	0.05	1.53	9.38	0.02	0.66	0.03	0.43	0.01
ZTF19aauishy	ZTF	II	spec	0.023	-16.40	0.07	10.21	9.17	0.02	0.73	0.04	0.46	0.02
ZTF19aauxxgk	ZTF	II	spec	0.026	-18.01	0.06	1.19	–	–	–	–	–	–
ZTF19aavbjfp	ZTF	II	spec	0.028	-17.06	0.05	4.20	8.60	0.03	0.69	0.05	0.45	0.02

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\text{max}}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
ZTF19aavbkly	ZTF	II	spec	0.041	-17.40	0.04	2.67	10.37	0.01	1.24	0.02	0.65	0.02
ZTF19aavhblr	ZTF	II	spec	0.05	-18.37	0.06	1.0	9.0	0.02	0.93	0.04	0.53	0.02
ZTF19aavjukt	ZTF	II	spec	0.036	-18.43	0.05	1.0	9.10	0.01	0.29	0.01	0.34	0.01
ZTF19aavkptg	ZTF	II	spec	0.038	-17.26	0.04	3.20	9.73	0.05	1.74	0.06	0.87	0.01
ZTF19aawgxdn	ZTF	II	spec	0.031	-17.29	0.05	3.07	10.82	0.02	1.65	0.02	0.82	0.02
ZTF19aazfvhh	ZTF	II	spec	0.034	-17.20	0.05	3.50	–	–	–	–	–	–
ZTF19aazudta	ZTF	II	spec	0.024	-16.88	0.07	5.35	–	–	–	–	–	–
ZTF19aazyvub	ZTF	II	spec	0.023	-17.09	0.07	4.04	9.37	0.02	1.25	0.02	0.62	0.02
ZTF19abacxod	ZTF	II	spec	0.018	-16.85	0.09	5.57	9.81	0.01	0.74	0.02	0.46	0.01
ZTF19abajxet	ZTF	II	spec	0.015	-17.68	0.10	1.84	10.25	0.02	1.05	0.01	0.61	0.01
ZTF19abbnamr	ZTF	II	spec	0.014	-17.30	0.10	3.06	10.88	0.02	1.63	0.01	0.85	0.01
ZTF19abbwfgp	ZTF	II	spec	0.026	-18.10	0.06	1.06	10.71	0.03	1.82	0.01	0.90	0.01
ZTF19abbxykm	ZTF	II	spec	0.047	-18.96	0.03	1.0	9.30	0.02	1.15	0.03	0.64	0.02
ZTF19abcneik	ZTF	II	spec	0.035	-17.35	0.06	2.85	9.25	0.03	1.10	0.05	0.60	0.02
ZTF19abctxhf	ZTF	II	spec	0.05	-18.16	0.04	1.0	9.76	0.02	1.03	0.02	0.59	0.01
ZTF19abddsvk	ZTF	II	spec	0.058	-18.54	0.05	1.0	9.93	0.02	0.86	0.04	0.51	0.02
ZTF19abdviwl	ZTF	II	spec	0.03	-17.50	0.05	2.35	7.30	0.14	0.44	0.20	0.35	0.07
ZTF19abecaca	ZTF	II	spec	0.032	-19.45	0.05	1.0	9.68	0.01	0.78	0.02	0.49	0.01
ZTF19abegizf	ZTF	II	spec	0.037	-17.48	0.05	2.39	–	–	–	–	–	–
ZTF19abfloxk	ZTF	II	spec	0.016	-16.84	0.11	5.61	–	–	–	–	–	–
ZTF19abgndlf	ZTF	II	spec	0.03	-17.65	0.05	1.91	–	–	–	–	–	–
ZTF19abgrmfu	ZTF	II	spec	0.035	-18.46	0.05	1.0	8.73	0.02	0.94	0.03	0.56	0.02
ZTF19abiqfxi	ZTF	II	spec	0.054	-19.44	0.03	1.0	9.48	0.02	0.68	0.04	0.43	0.01
ZTF19abiszoe	ZTF	II	spec	0.043	-18.22	0.10	1.0	10.72	0.02	1.90	0.01	0.93	0.01
ZTF19abjpnjt	ZTF	II	spec	0.055	-18.14	0.03	1.01	10.67	0.02	1.23	0.02	0.67	0.02
ZTF19abjsmmv	ZTF	II	spec	0.02	-17.19	0.08	3.53	10.47	0.08	1.75	0.02	0.90	0.02
ZTF19abkfqqp	ZTF	II	spec	0.03	-19.32	0.05	1.0	11.25	0.02	1.42	0.02	0.75	0.01
ZTF19ablfdwt	ZTF	II	spec	0.026	-17.31	0.06	3.03	9.15	0.03	1.04	0.04	0.58	0.02
ZTF19ablojrw	ZTF	II	spec	0.049	-18.53	0.05	1.0	–	–	–	–	–	–
ZTF19abovstj	ZTF	II	spec	0.045	-18.22	0.06	1.0	9.49	0.01	0.90	0.02	0.53	0.02
ZTF19abpidqn	ZTF	II	spec	0.015	-16.29	0.10	11.72	–	–	–	–	–	–
ZTF19abpxiff	ZTF	II	spec	0.055	-18.19	0.05	1.0	–	–	–	–	–	–
ZTF19abpyqog	ZTF	II	spec	0.031	-17.12	0.05	3.85	–	–	–	–	–	–
ZTF19abqgtqo	ZTF	II	spec	0.036	-17.44	0.04	2.54	9.08	0.03	0.68	0.05	0.44	0.02
ZTF19abqhobb	ZTF	II	spec	0.018	-17.49	0.08	2.38	9.07	0.02	0.71	0.04	0.45	0.01
ZTF19abqrhvt	ZTF	II	spec	0.021	-18.09	0.07	1.08	9.29	0.01	0.87	0.03	0.42	0.02
ZTF19abqrhvy	ZTF	II	spec	0.032	-18.13	0.05	1.02	11.19	0.01	1.58	0.01	0.82	0.01
ZTF19abrbrmvt	ZTF	II	spec	0.039	-17.81	0.04	1.56	11.09	0.08	2.23	0.03	1.09	0.01
ZTF19abuecupg	ZTF	II	spec	0.02	-16.05	0.07	16.29	9.19	0.06	1.25	0.04	0.70	0.02
ZTF19abukakm	ZTF	II	spec	0.057	-18.65	0.03	1.0	–	–	–	–	–	–
ZTF19abuzinv	ZTF	II	spec	0.02	-16.45	0.07	9.46	–	–	–	–	–	–
ZTF19abwsagv	ZTF	II	spec	0.038	-18.18	0.04	1.0	–	–	–	–	–	–
ZTF19abyuzch	ZTF	II	spec	0.024	-18.20	0.07	1.0	–	–	–	–	–	–
ZTF19abzqwpr	ZTF	II	spec	0.037	-18.24	0.08	1.0	9.36	0.02	0.85	0.03	0.50	0.01
ZTF19acanzwg	ZTF	II	spec	0.047	-18.29	0.04	1.0	–	–	–	–	–	–
ZTF19acbhvgi	ZTF	II	spec	0.031	-17.36	0.05	2.81	7.79	0.07	1.06	0.13	0.60	0.08
ZTF19acbmky	ZTF	II	spec	0.048	-18.34	0.04	1.0	9.78	0.02	0.87	0.03	0.52	0.01
ZTF19acbrzrz	ZTF	II	spec	0.03	-17.17	0.05	3.61	7.40	0.06	0.16	0.10	0.20	0.04
ZTF19acbwejj	ZTF	II	spec	0.014	-16.80	0.11	5.95	8.63	0.02	0.39	0.02	0.37	0.01
ZTF19acbwouf	ZTF	II	spec	0.03	-17.03	0.05	4.39	7.14	0.22	-0.04	0.31	0.16	0.15
ZTF19accbeju	ZTF	II	spec	0.055	-18.61	0.05	1.0	10.58	0.01	1.61	0.02	0.84	0.01
ZTF19acchaza	ZTF	II	spec	0.035	-17.79	0.05	1.60	8.16	0.04	0.78	0.06	0.48	0.03
ZTF19acctwpz	ZTF	II	spec	0.017	-16.39	0.09	10.29	7.75	0.10	0.96	0.18	0.56	0.08
ZTF19acshib	ZTF	II	spec	0.048	-18.67	0.04	1.0	9.75	0.01	0.96	0.02	0.56	0.02
ZTF19acfebjb	ZTF	II	spec	0.011	-17.21	0.14	3.44	9.72	0.01	0.92	0.01	0.55	0.01
ZTF19acftude	ZTF	II	spec	0.04	-17.98	0.04	1.24	9.89	0.01	1.12	0.02	0.62	0.01
ZTF19acgbkzr	ZTF	II	spec	0.026	-16.64	0.06	7.34	10.16	0.02	1.20	0.02	0.68	0.01
ZTF19achjqbk	ZTF	II	spec	0.05	-17.93	0.04	1.32	–	–	–	–	–	–
ZTF19acignlo	ZTF	II	spec	0.048	-18.87	0.03	1.0	9.85	0.01	0.98	0.03	0.55	0.01

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\text{max}}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
ZTF19acjwdnu	ZTF	II	spec	0.053	-18.76	0.03	1.0	7.75	0.17	0.85	0.30	0.47	0.15
ZTF19aclobbu	ZTF	II	spec	0.012	-16.68	0.12	7.01	8.29	0.02	0.98	0.02	0.57	0.01
ZTF19acrcxri	ZTF	II	spec	0.027	-18.55	0.06	1.0	8.76	0.01	0.24	0.01	0.32	0.01
ZTF19acryurj	ZTF	II	spec	0.022	-18.08	0.07	1.08	10.53	0.04	1.71	0.02	0.87	0.02
ZTF19acwrrvg	ZTF	II	spec	0.027	-18.59	0.06	1.0	–	–	–	–	–	–
ZTF19acxowrr	ZTF	II	spec	0.051	-18.54	0.03	1.0	10.94	0.02	1.65	0.02	0.85	0.01
ZTF19acyjviz	ZTF	II	spec	0.022	-17.34	0.07	2.88	9.40	0.02	1.01	0.01	0.59	0.01
ZTF19aczlldp	ZTF	II	spec	0.028	-18.0	0.06	1.21	7.96	0.05	0.15	0.05	0.25	0.02
ZTF19adannbl	ZTF	II	spec	0.048	-18.93	0.05	1.0	–	–	–	–	–	–
ZTF19adavzew	ZTF	II	spec	0.04	-17.85	0.04	1.47	9.16	0.01	1.03	0.02	0.57	0.01
ZTF19adccrca	ZTF	II	spec	0.045	-17.82	0.03	1.53	9.20	0.01	0.99	0.02	0.56	0.01
ZTF20aabconi	ZTF	II	spec	0.043	-18.07	0.04	1.11	–	–	–	–	–	–
ZTF20aabqiaiv	ZTF	II	spec	0.05	-18.82	0.04	1.0	8.92	0.03	0.88	0.04	0.52	0.02
ZTF20aacbyec	ZTF	II	spec	0.036	-19.13	0.04	1.0	10.93	0.01	1.31	0.02	0.70	0.01
ZTF20aadchdd	ZTF	II	spec	0.04	-17.92	0.04	1.34	6.50	0.09	-0.63	0.08	0.03	0.09
ZTF20aaeoqqd	ZTF	II	spec	0.05	-18.62	0.05	1.0	10.73	0.06	1.88	0.03	0.94	0.02
ZTF20aaetrle	ZTF	II	spec	0.02	-17.34	0.07	2.91	–	–	–	–	–	–
ZTF20aafckit	ZTF	II	spec	0.031	-17.88	0.05	1.41	9.01	0.02	0.52	0.02	0.39	0.01
ZTF20aahbamv	ZTF	II	spec	0.045	-19.15	0.03	1.0	9.62	0.02	1.21	0.02	0.67	0.01
ZTF20aahqbsr	ZTF	II	spec	0.022	-16.44	0.07	9.59	10.77	0.03	1.54	0.02	0.81	0.02
ZTF20aaieyup	ZTF	II	spec	0.012	-16.91	0.12	5.13	–	–	–	–	–	–
ZTF20aamamnp	ZTF	II	spec	0.05	-18.70	0.04	1.0	8.04	0.05	0.08	0.05	0.28	0.03
ZTF20aamazzl	ZTF	II	spec	0.056	-18.05	0.03	1.14	9.73	0.01	0.88	0.02	0.51	0.01
ZTF20aamoaim	ZTF	II	spec	0.048	-18.06	0.09	1.12	8.31	0.06	0.54	0.13	0.33	0.05
ZTF20aamxuwI	ZTF	II	spec	0.037	-17.99	0.06	1.23	10.43	0.05	1.74	0.03	0.89	0.02
ZTF20aaoldej	ZTF	II	spec	0.026	-16.91	0.06	5.12	9.57	0.02	0.73	0.03	0.46	0.01
ZTF20aaophpu	ZTF	II	spec	0.017	-16.01	0.16	17.11	–	–	–	–	–	–
ZTF20aatqesi	ZTF	II	spec	0.041	-19.03	0.04	1.0	–	–	–	–	–	–
ZTF20aaauqhka	ZTF	II	spec	0.039	-18.29	0.04	1.0	9.64	0.02	0.87	0.04	0.52	0.02
ZTF20aaaurfhs	ZTF	II	spec	0.035	-17.96	0.05	1.27	10.28	0.02	2.05	0.02	1.02	0.01
ZTF20aaaurbjb	ZTF	II	spec	0.043	-18.71	0.04	1.0	8.88	0.01	-0.03	0.02	0.21	0.02
ZTF20aaavhixe	ZTF	II	spec	0.051	-18.98	0.04	1.0	10.07	0.01	0.96	0.02	0.54	0.02
ZTF20aaavptjf	ZTF	II	spec	0.03	-17.58	0.05	2.10	8.54	0.02	-0.04	0.02	0.20	0.03
ZTF20aaavvaup	ZTF	II	spec	0.033	-18.08	0.05	1.10	8.88	0.01	0.52	0.02	0.36	0.02
ZTF20aawgrcu	ZTF	II	spec	0.042	-18.36	0.04	1.0	9.41	0.02	1.48	0.06	0.73	0.02
ZTF20aawijco	ZTF	II	spec	0.025	-17.26	0.06	3.20	–	–	–	–	–	–
ZTF20aawjbsf	ZTF	II	spec	0.022	-16.97	0.08	4.73	8.70	0.02	0.90	0.02	0.54	0.01
ZTF20aaxunbm	ZTF	II	spec	0.055	-18.28	0.03	1.0	10.04	0.01	1.45	0.04	0.73	0.01
ZTF20aaynrhh	ZTF	II	spec	0.005	-17.32	0.29	2.97	–	–	–	–	–	–
ZTF20aazrxef	ZTF	II	spec	0.033	-17.91	0.05	1.36	11.47	0.01	1.63	0.01	0.85	0.01
ZTF20aazswwk	ZTF	II	spec	0.032	-16.89	0.05	5.24	–	–	–	–	–	–
ZTF20aazycgy	ZTF	II	spec	0.03	-18.10	0.06	1.06	10.31	0.02	1.39	0.01	0.75	0.01
ZTF20abbpkpa	ZTF	II	spec	0.033	-16.98	0.05	4.66	9.20	0.01	1.08	0.02	0.60	0.02
ZTF20abccixp	ZTF	II	spec	0.044	-18.78	0.04	1.0	8.94	0.04	0.66	0.05	0.43	0.02
ZTF20abegkom	ZTF	II	spec	0.055	-18.49	0.04	1.0	9.72	0.01	0.45	0.01	0.38	0.01
ZTF20abekbzb	ZTF	II	spec	0.04	-17.43	0.04	2.56	9.24	0.02	0.75	0.02	0.46	0.01
ZTF20abekcdt	ZTF	II	spec	0.049	-17.88	0.04	1.42	10.03	0.01	1.16	0.02	0.64	0.01
ZTF20abjaapj	ZTF	II	spec	0.03	-17.80	0.05	1.57	7.92	0.12	1.71	0.16	0.88	0.11
ZTF20abjatqy	ZTF	II	spec	0.026	-17.75	0.06	1.68	–	–	–	–	–	–
ZTF20abjonjs	ZTF	II	spec	0.016	-16.82	0.10	5.78	–	–	–	–	–	–
ZTF20abjuxoy	ZTF	II	spec	0.027	-17.19	0.06	3.53	–	–	–	–	–	–
ZTF20abliiex	ZTF	II	spec	0.039	-18.62	0.07	1.0	–	–	–	–	–	–
ZTF20ablklei	ZTF	II	spec	0.025	-17.74	0.06	1.71	10.12	0.02	1.45	0.02	0.77	0.01
ZTF20ablygyy	ZTF	II	spec	0.017	-18.11	0.09	1.05	10.07	0.03	1.60	0.02	0.79	0.02
ZTF20abonvte	ZTF	II	spec	0.053	-18.80	0.04	1.0	9.21	0.03	0.62	0.04	0.42	0.01
ZTF20abwdaeo	ZTF	II	spec	0.021	-17.15	0.07	3.71	9.62	0.01	1.37	0.02	0.75	0.01
ZTF20abxmwwd	ZTF	II	spec	0.03	-16.95	0.06	4.88	–	–	–	–	–	–
ZTF20abyylgi	ZTF	II	spec	0.029	-18.44	0.05	1.0	–	–	–	–	–	–
ZTF20abyzomt	ZTF	II	spec	0.022	-17.69	0.07	1.82	9.48	0.01	0.41	0.01	0.36	0.01

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\text{max}}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
ZTF20abyzprl	ZTF	II	spec	0.053	-18.50	0.03	1.0	10.70	0.03	1.66	0.02	0.86	0.01
ZTF20accrlidu	ZTF	II	spec	0.038	-17.56	0.04	2.16	–	–	–	–	–	–
ZTF20acedqis	ZTF	II	spec	0.05	-18.84	0.04	1.0	9.82	0.01	1.41	0.02	0.75	0.01
ZTF19abudlps*	ZTF	II	spec	0.013	-15.87	0.11	20.76	–	–	–	–	–	–
ZTF20aapycrh*	ZTF	II	spec	0.015	-15.60	0.10	29.76	–	–	–	–	–	–
ZTF18aakkrjm	ZTF	Ibc	spec	0.021	-17.01	0.07	4.48	9.44	0.01	1.30	0.01	0.71	0.01
ZTF18aaxiuyp	ZTF	Ibc	spec	0.03	-17.17	0.05	3.61	10.08	0.01	1.17	0.01	0.65	0.01
ZTF18abdkkwa	ZTF	Ibc	spec	0.025	-17.24	0.07	3.29	10.09	0.03	1.28	0.02	0.71	0.01
ZTF18abfzfcv	ZTF	Ibc	spec	0.038	-17.51	0.05	2.31	10.16	0.01	1.02	0.02	0.57	0.02
ZTF18abfzht	ZTF	Ibc	spec	0.04	-18.43	0.04	1.0	9.93	0.03	1.11	0.03	0.63	0.01
ZTF18abojpnr	ZTF	Ibc	spec	0.038	-17.58	0.06	2.11	–	–	–	–	–	–
ZTF18acbzvpq	ZTF	Ibc	spec	0.026	-16.78	0.07	6.08	10.54	0.04	1.42	0.02	0.76	0.01
ZTF18achcpwu	ZTF	Ibc	spec	0.055	-18.45	0.04	1.0	–	–	–	–	–	–
ZTF18acnncve	ZTF	Ibc	spec	0.044	-18.02	0.08	1.18	8.74	0.03	0.86	0.05	0.52	0.03
ZTF18aczqzrj	ZTF	Ibc	spec	0.043	-18.68	0.04	1.0	9.51	0.01	0.97	0.02	0.56	0.02
ZTF18adasisj	ZTF	Ibc	spec	0.034	-18.49	0.05	1.0	–	–	–	–	–	–
ZTF19aaejtof	ZTF	Ibc	spec	0.038	-17.44	0.08	2.54	9.44	0.02	1.36	0.05	0.70	0.02
ZTF19aafmyow	ZTF	Ibc	spec	0.026	-18.37	0.06	1.0	8.06	0.04	0.54	0.06	0.36	0.02
ZTF19aailcgs	ZTF	Ibc	spec	0.02	-16.46	0.08	9.35	10.94	0.17	1.96	0.04	0.98	0.02
ZTF19aailsge	ZTF	Ibc	spec	0.036	-17.34	0.06	2.91	10.63	0.02	1.26	0.02	0.70	0.01
ZTF19aakirwj	ZTF	Ibc	spec	0.032	-17.14	0.05	3.77	10.34	0.03	1.35	0.02	0.73	0.02
ZTF19aaknate	ZTF	Ibc	spec	0.012	-16.53	0.13	8.49	–	–	–	–	–	–
ZTF19aakpcuw	ZTF	Ibc	spec	0.032	-17.77	0.06	1.64	9.79	0.01	0.55	0.01	0.40	0.01
ZTF19aalouag	ZTF	Ibc	spec	0.055	-18.83	0.03	1.0	10.28	0.01	1.22	0.02	0.66	0.01
ZTF19aamgghn	ZTF	Ibc	spec	0.03	-17.91	0.06	1.35	9.09	0.05	1.27	0.05	0.71	0.02
ZTF19aamsetj	ZTF	Ibc	spec	0.028	-18.12	0.06	1.04	10.39	0.02	1.51	0.02	0.74	0.02
ZTF19aanfukh	ZTF	Ibc	spec	0.028	-17.34	0.07	2.90	10.85	0.01	1.54	0.0	0.75	0.01
ZTF19aanijpu	ZTF	Ibc	spec	0.05	-19.33	0.04	1.0	8.86	0.04	0.57	0.08	0.38	0.02
ZTF19aaoxvfe	ZTF	Ibc	spec	0.036	-17.24	0.05	3.30	9.18	0.02	1.04	0.04	0.54	0.02
ZTF19aapadx	ZTF	Ibc	spec	0.035	-17.69	0.05	1.82	–	–	–	–	–	–
ZTF19aaugupw	ZTF	Ibc	spec	0.041	-17.52	0.07	2.26	9.17	0.04	0.64	0.06	0.43	0.02
ZTF19aavoweu	ZTF	Ibc	spec	0.036	-17.66	0.05	1.88	10.65	0.01	1.26	0.01	0.69	0.01
ZTF19aawqcg	ZTF	Ibc	spec	0.021	-16.99	0.07	4.59	–	–	–	–	–	–
ZTF19aaxfcpq	ZTF	Ibc	spec	0.038	-18.41	0.05	1.0	9.84	0.01	1.21	0.02	0.67	0.01
ZTF19aaxzdtw	ZTF	Ibc	spec	0.041	-17.43	0.05	2.55	8.78	0.02	-0.04	0.02	0.20	0.02
ZTF19abafmwj	ZTF	Ibc	spec	0.034	-16.95	0.05	4.89	10.60	0.01	1.76	0.03	0.86	0.02
ZTF19abamqxo	ZTF	Ibc	spec	0.057	-19.10	0.05	1.0	9.18	0.02	0.74	0.03	0.46	0.01
ZTF19abdoior	ZTF	Ibc	spec	0.047	-18.27	0.05	1.0	10.24	0.01	1.47	0.02	0.77	0.01
ZTF19abfsxp	ZTF	Ibc	spec	0.029	-18.08	0.07	1.08	9.48	0.02	0.93	0.02	0.55	0.01
ZTF19abgfuhh	ZTF	Ibc	spec	0.035	-17.60	0.05	2.06	8.17	0.03	0.78	0.10	0.44	0.04
ZTF19ablesob	ZTF	Ibc	spec	0.056	-19.09	0.04	1.0	–	–	–	–	–	–
ZTF19abqmsnk	ZTF	Ibc	spec	0.036	-17.65	0.07	1.91	9.34	0.02	0.89	0.03	0.50	0.02
ZTF19abqrgy	ZTF	Ibc	spec	0.03	-17.59	0.06	2.07	9.43	0.02	1.12	0.03	0.61	0.02
ZTF19abqshry	ZTF	Ibc	spec	0.031	-17.12	0.06	3.89	10.04	0.01	1.07	0.01	0.61	0.01
ZTF19abqwtfu	ZTF	Ibc	spec	0.014	-18.14	0.10	1.01	9.41	0.04	1.86	0.02	0.94	0.02
ZTF19abtsnyy	ZTF	Ibc	spec	0.04	-18.28	0.04	1.0	–	–	–	–	–	–
ZTF19abupned	ZTF	Ibc	spec	0.05	-19.08	0.03	1.0	9.07	0.02	0.74	0.04	0.46	0.01
ZTF19abvdgqo	ZTF	Ibc	spec	0.037	-18.37	0.04	1.0	–	–	–	–	–	–
ZTF19abxjrge	ZTF	Ibc	spec	0.022	-17.39	0.08	2.72	–	–	–	–	–	–
ZTF19abxtcio	ZTF	Ibc	spec	0.016	-16.14	0.10	14.46	8.57	0.03	1.13	0.03	0.65	0.02
ZTF19abztknu	ZTF	Ibc	spec	0.054	-19.05	0.03	1.0	–	–	–	–	–	–
ZTF19acbmojx	ZTF	Ibc	spec	0.027	-16.69	0.07	6.93	9.50	0.02	1.17	0.02	0.66	0.01
ZTF19ackjene	ZTF	Ibc	spec	0.044	-19.12	0.05	1.0	–	–	–	–	–	–
ZTF19ackjjwf	ZTF	Ibc	spec	0.016	-16.86	0.09	5.50	10.26	0.04	1.27	0.02	0.71	0.01
ZTF19acmbekd	ZTF	Ibc	spec	0.05	-18.39	0.08	1.0	8.81	0.06	1.18	0.10	0.64	0.04
ZTF19acmelor	ZTF	Ibc	spec	0.027	-17.40	0.06	2.68	10.32	0.02	1.25	0.01	0.69	0.01
ZTF19acxxwvi	ZTF	Ibc	spec	0.011	-16.59	0.13	7.90	9.75	0.02	1.01	0.02	0.58	0.01
ZTF19acyogrm	ZTF	Ibc	spec	0.02	-17.40	0.08	2.68	9.82	0.16	1.92	0.03	0.96	0.03
ZTF19adcfcsad	ZTF	Ibc	spec	0.025	-17.15	0.07	3.71	10.35	0.02	1.39	0.02	0.76	0.01

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Table D1 – continued from previous page

SN	Survey	Class	Source <sup>a</sup>	z	$M_{\max}^b$	err	weight <sup>c</sup>	$M^d$	err	$U - R^e$	err	$B - V^f$	err
ZTF20aaekkuv	ZTF	lbc	spec	0.02	-16.43	0.10	9.82	8.29	0.03	0.86	0.04	0.52	0.02
ZTF20aaelulu	ZTF	lbc	spec	0.005	-17.96	0.28	1.27	–	–	–	–	–	–
ZTF20aaertpj	ZTF	lbc	spec	0.029	-17.02	0.06	4.45	9.58	0.01	0.90	0.01	0.54	0.01
ZTF20aaahgejq	ZTF	lbc	spec	0.046	-17.66	0.03	1.90	9.40	0.02	0.79	0.03	0.48	0.02
ZTF20aaiftgi	ZTF	lbc	spec	0.034	-17.85	0.06	1.47	–	–	–	–	–	–
ZTF20aaiqiti	ZTF	lbc	spec	0.025	-16.70	0.07	6.81	10.30	0.02	1.49	0.02	0.78	0.02
ZTF20aaajcdad	ZTF	lbc	spec	0.018	-17.44	0.08	2.54	10.23	0.03	1.52	0.02	0.79	0.02
ZTF20aalcyih	ZTF	lbc	spec	0.027	-17.69	0.06	1.82	7.44	0.0	-0.68	0.0	0.02	0.01
ZTF20aalxlis	ZTF	lbc	spec	0.025	-18.83	0.06	1.0	10.12	0.01	1.34	0.01	0.71	0.01
ZTF20aammtwx	ZTF	lbc	spec	0.027	-17.71	0.06	1.78	–	–	–	–	–	–
ZTF20aamqmjh	ZTF	lbc	spec	0.048	-18.04	0.04	1.15	10.56	0.03	1.95	0.02	0.97	0.02
ZTF20aatzhhl	ZTF	lbc	spec	0.008	-17.17	0.20	3.63	10.88	0.02	1.99	0.02	1.0	0.01
ZTF20aavcvrm	ZTF	lbc	spec	0.055	-18.15	0.03	1.0	6.56	0.14	-0.60	0.14	0.04	0.21
ZTF20aavgcnu	ZTF	lbc	spec	0.018	-16.42	0.10	9.90	–	–	–	–	–	–
ZTF20aavhyel	ZTF	lbc	spec	0.025	-17.45	0.06	2.49	8.72	0.02	0.74	0.03	0.46	0.01
ZTF20aavzffg	ZTF	lbc	spec	0.005	-17.05	0.28	4.24	10.23	0.0	2.25	0.0	1.10	0.01
ZTF20aaxzhzc	ZTF	lbc	spec	0.037	-17.47	0.05	2.43	8.94	0.03	0.69	0.06	0.42	0.02
ZTF20aaxvzja	ZTF	lbc	spec	0.033	-16.95	0.06	4.86	10.64	0.02	1.46	0.02	0.77	0.01
ZTF20aazkfv	ZTF	lbc	spec	0.037	-18.15	0.05	1.0	9.08	0.02	0.35	0.02	0.33	0.01
ZTF20abbpkng	ZTF	lbc	spec	0.037	-17.44	0.05	2.53	10.59	0.01	1.13	0.02	0.63	0.01
ZTF20abbplei	ZTF	lbc	spec	0.031	-18.62	0.05	1.0	10.82	0.02	1.88	0.02	0.92	0.01
ZTF20abfcrzj	ZTF	lbc	spec	0.023	-17.13	0.07	3.80	–	–	–	–	–	–
ZTF20abhlncz	ZTF	lbc	spec	0.031	-17.06	0.05	4.19	9.93	0.02	0.98	0.02	0.56	0.01
ZTF20abjpvce	ZTF	lbc	spec	0.031	-17.36	0.05	2.82	–	–	–	–	–	–
ZTF20abqdkne	ZTF	lbc	spec	0.028	-18.23	0.05	1.0	9.67	0.03	0.73	0.05	0.46	0.02
ZTF20abswdbg	ZTF	lbc	spec	0.03	-17.42	0.05	2.58	–	–	–	–	–	–
ZTF20abtkjfw	ZTF	lbc	spec	0.017	-16.96	0.08	4.80	–	–	–	–	–	–
ZTF20abvquuo	ZTF	lbc	spec	0.03	-17.95	0.06	1.29	8.25	0.03	0.85	0.05	0.50	0.03
ZTF20abvvnqh	ZTF	lbc	spec	0.037	-17.54	0.05	2.23	–	–	–	–	–	–
ZTF20abwxywy	ZTF	lbc	spec	0.017	-17.86	0.09	1.45	9.78	0.02	1.13	0.02	0.64	0.01
ZTF20abwzqzo	ZTF	lbc	spec	0.023	-17.21	0.07	3.42	10.46	0.03	1.78	0.02	0.88	0.02
ZTF20abxpoxd	ZTF	lbc	spec	0.022	-17.77	0.07	1.64	11.04	0.01	–	0.01	–	0.01
ZTF20abywsut	ZTF	lbc	spec	0.031	-17.65	0.05	1.92	10.45	0.02	1.61	0.02	0.79	0.02
ZTF20abyznqs	ZTF	lbc	spec	0.05	-18.22	0.05	1.0	10.25	0.01	1.25	0.03	0.66	0.01
ZTF20abzjcdg	ZTF	lbc	spec	0.046	-18.09	0.06	1.08	–	–	–	–	–	–

Notes:

<sup>a</sup>Source of classification; spectroscopic or photometric. <sup>b</sup>Peak  $R$ -band absolute magnitude. <sup>c</sup>Weight from  $V_{\max}$  correction. <sup>d</sup>Host galaxy stellar mass, expressed as  $\log_{10}(M/M_{\odot})$ . <sup>e</sup>Host galaxy rest-frame  $U - R$  colour. <sup>f</sup>Host galaxy rest-frame  $B - V$  colour.

**Table D2.** DECam photometry of the DES CCSN sample presented in this paper. Values quoted are flux densities in  $f_\lambda$ . A full, machine-readable version of this table can be found in the electronic version of the article.

Notes:

<sup>a</sup>Date of explosion. <sup>b</sup>Phase with respect to explosion date. <sup>c</sup>Values are  $f_\lambda$  quoted in terms of  $10^{-19} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ , can be converted into AB magnitudes with  $m = -2.5 \log(f_\lambda) - ZP$  where  $ZP$  is the zero point 20.802, 21.436, 21.866 and 22.214 for *griz* bands respectively.

SN	UTC	MJD	$t_{\text{exp}}^a$	Phase <sup>b</sup>	$g^c$	err	$r^c$	err	$i^c$	err	$z^c$	err
$(10^{-19} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1})$												
DES13C1anve	20131111	56607.06	56614.59	-6.20	-3.86	6.33	-1.72	3.34	-0.99	2.43	3.34	2.16
DES13C1anve	20131118	56614.07	56614.59	-0.43	2.95	6.92	–	–	–	–	–	–
DES13C1anve	20131118	56614.08	56614.59	-0.42	–	–	6.91	3.21	5.98	1.83	2.08	1.23
DES13C1anve	20131119	56615.10	56614.59	0.42	-4.59	8.37	8.58	3.95	9.66	1.92	0.665	1.51
DES13C1anve	20131202	56628.08	56614.59	11.11	22.8	2.47	17.6	1.67	13.7	1.34	10.7	1.29
DES13C1anve	20131209	56635.13	56614.59	16.92	23.4	3.01	21.9	1.9	18.1	1.5	–	–
DES13C1anve	20131209	56635.14	56614.59	16.93	–	–	–	–	–	–	11.3	1.2
DES13C1anve	20131216	56642.09	56614.59	22.65	–	–	–	–	19	6.24	8.7	2.27
DES13C1anve	20131219	56645.08	56614.59	25.12	17.4	5.12	15.1	2.77	16.6	1.65	11.6	1.11
DES13C1anve	20131223	56649.17	56614.59	28.49	6.82	4.36	16.6	2.46	12.3	1.73	10.3	1.4

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