

Emergence Technologies TLED Compatible Ballast List (2200lm, 15W, 4ft)					NC	Incompatible			P	PF <0.9		
					N	Acoustic noise >20dB			T	THD >25%		
					S	Can't start-up			C	Compatible		
					F	Flicker after >2s start-up			/	Not tested		
					HT	High temperature			NA	Not applicable		
No	Ballast No.	Ballast Brand	Part Number	Start Method	# of Lamps	BF		Lamp Connection	N-1 Lamp		N Lamp	
						Type	Value		DR G5		DR G5	
									120Vac	277Vac	120Vac	277Vac
1	1	Philips-Advance	ICN-2P32-N	IS	2	N	0.89	Parallel	C	C	C	C
3	3	Philips-Advance	IOP-2P32-N	IS	2	N	0.89	Parallel	C	C	C	C
4	4	Philips-Advance	IOP-2P32-LW-N	IS	2	L	0.77	Parallel	C	C	C	C
5	5	OSRAM SYLVANIA	QTP 2X32T8/UNV ISN-SC P	IS	2	N	0.88	Parallel	C	C	C	C
6	6	OSRAM SYLVANIA	QHE 2X32T8/UNV ISN-SC P	IS	2	N	0.88	Parallel	C	C	C	C
7	7	OSRAM SYLVANIA	QHE 2X32T8/UNV ISL-SC P	IS	2	L	0.78	Parallel	C	C	C	C
8	8	General Electric	GE-232-MV-N P	IS	2	N	0.88	Parallel	C	C	C	C
9	9	General Electric	GE232MAX-N/ULTRA P	IS	2	N	0.88	Parallel	C	C	C	C
10	10	Universal Lighting Technologies	B232IUNVHP-N	IS	2	N	0.88	Parallel	C	C	C	C
11	11	Universal Lighting Technologies	B232IUNVEL-A	IS	2	L	0.77	Parallel	C	C	C	C
12	12	Universal Lighting Technologies	B233IUNVHE-A	IS	2	N	0.87	Parallel	C	C	C	C
13	13	ESPEN	VE232MVHIPE	IS	2	N	0.89	Parallel	C	C	C	C
14	14	ESPEN	VE232MVHIPHE	IS	2	H	1.19	Parallel	C	C	C	C
15	15	Philips-Advance	IOPA-3P32-LW-N	IS	3	L	0.76	Parallel	N	N	N	N
16	16	OSRAM SYLVANIA	QHE 3X32T8/UNV ISH-SC	IS	3	H	1.18	Parallel	N	P	N	P
17	17	Philips-Advance	IOPA-4P32-N	IS	4	N	0.87	Parallel	C	C	C	C
18	18	Philips-Advance	IOPA-4P32-HL-SC	IS	4	H	1.18	Parallel	C	C	C	C
19	19	Philips-Advance	IOP-4P32-N	IS	4	N	0.87	Parallel	C	C	C	C
20	20	Philips-Advance	IOP-4P32-LW-N	IS	4	L	0.77	Parallel	C	C	C	C
21	21	Philips-Advance	ICN-4P32-N	IS	4	N	0.90	Parallel	C	C	C	C
23	23	General Electric	GE432MAX-L/ULTRA P	IS	4	L	0.78	Parallel	C	C	C	C
24	24	OSRAM SYLVANIA	QHE 4X32T8/UNV ISN-SC P	IS	4	N	0.88	Parallel	C	C	C	C
25	25	OSRAM SYLVANIA	QHE 4X32T8/UNV ISL-SC P	IS	4	L	0.78	Parallel	C	C	C	C

28	28	General Electric	GE-232-MAX-H/Ultra P	IS	2	H	1.15	Parallel	C	T	C	C
29	29	HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	NC	NC	NC	NC
30	30	HOWARD INDUSTRIES	EP3/32IS/MV/SC/HE	IS	3	N	0.87	Parallel	C	C	C	C
31	31	HOWARD INDUSTRIES	EPL4/32IS/MV/MC/HE	IS	4	L	0.77	Parallel	C	C	C	C
32	32	ProLume	EP232IS/L/MV/SL	IS	2	L	0.78	Parallel	C	C	C	C
33	33	Prolume	E432IS/120/R/SL	IS	4	N	0.87	Parallel	C	NA	C	NA
34	34	General Electric	GE432MAX-G-N	IS	4	N	0.88	Parallel	C	C	C	C
35	35	Universal Lighting Technologies	B432IUNVHE L-A	IS	4	L	0.77	Parallel	C	C	C	C
36	36	OSRAM SYLVANIA	QTP 4×32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	C	T	C	C
37	37	Philips-Advance	ICN-1P32-N	IS	1	H	0.91	n.a	NA	NA	NC	NC
39	39	General Electric	GE132MAX-G-N	IS	1	H	0.88	n.a	NA	NA	NC	NC
40	40	General Electric	GE132MAX-H/ULTRA	IS	1	H	1.18	n.a	NA	NA	C	C
41	41	General Electric	GE132MAX-L/ULTRA	IS	1	H	0.78	n.a	NA	NA	NC	NC
42	42	General Electric	GE132MAXP-N/ULTRA	IS	1	N	0.88	n.a	NA	NA	C	C
43	43	OSRAM SYLVANIA	QHE 1X32T8/UNV ISN-SC	IS	1	N	0.88	n.a	NA	NA	C	C
44	44	OSRAM SYLVANIA	QHE 1X32T8/UNV ISL-SC	IS	1	L	0.78	n.a	NA	NA	C	C
46	46	ESPEN	VE232MVHIPLE	IS	2	L	0.77	Parallel	C	C	C	C
48	48	Philips-Advance	REB-2P32-SC	IS	2	N	0.88	Parallel	F	NA	C	NA
49	49	General Electric	GE232MV-N-DIY	IS	2	N	0.88	Parallel	C	C	C	C
51	51	General Electric	GE232MAX-L/ULTRA	IS	2	L	0.78	Parallel	C	C	C	C
51	52	General Electric	GE232MAX347-N	IS	2	N	1.02	Parallel	NA	P,T(347V)	NA	C,(347V)
52	53	Halco	EP232IS/MV/HE	IS	2	N	0.88	Parallel	C	C	C	C
54	55	OSRAM SYLVANIA	QHE 2X32T8/UNV ISH-SC	IS	2	H	1.20	Parallel	F,P,T,N	F,P,T	P,N	F,P,T,N
55	56	HOWARD INDUSTRIES	EPH2/321S/MV/MC/HE	IS	2	H	1.18	Parallel	C	C	C	C
57	58	MAXLITE	SKEU322HEL/SC	IS	2	H	0.77	Parallel	C	C	C	C
58	59	KEYSTONE	KTEB-232-UV-IS-N-P	IS	2	H	0.87	Parallel	C	C	C	C
60	61	Philips-Advance	IOPA-3P32-N	IS	3	H	0.86	Parallel	C	C	C	C
61	62	Philips-Advance	IOP-3P32-N	IS	3	H	0.87	Parallel	C	C	C	C
62	63	General Electric	GE332MV-N	IS	3	H	0.87	Parallel	C	C	C	C
63	64	General Electric	GE332MAX-N/ULTRA	IS	3	H	0.88	Parallel	C	C	C	C
64	65	General Electric	GE332MAX-L/ULTRA	IS	3	H	0.78	Parallel	C	C	C	C

65	66	General Electric	GE332MAX-G-N	IS	3	H	0.87	Parallel	C	C	C	C
66	67	General Electric	GE332MAXP-H/ULTRA	IS	3	H	1.18	Parallel	C	C	C	C
67	68	OSRAM SYLVANIA	QTP 3X32T8/UNV ISN-SC	IS	3	H	0.88	Parallel	C	C	C	C
69	69	OSRAM SYLVANIA	QHE 3X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	C	C	C	C
69	70	OSRAM SYLVANIA	QHE 3X32T8/UNV ISL-SC	IS	3	L	0.78	Parallel	C	C	C	C
70	71	Universal Lighting Technologies	B332IUNVHP-A	IS	3	H	0.88	Parallel	C	C	C	C
71	72	MAXLITE	SKEU324HE/SC	IS	4	H	0.88	Parallel	C	C	C	C
72	73	MAXLITE	SKEU323L/SC	IS	3	H	0.78	Parallel	C	C	C	C
73	74	Halco	EP332IS/MV/HE	IS	3	H	0.87	Parallel	C	C	C	C
74	76	Universal Lighting Technologies	B432IUNVHP-A	IS	4	H	0.88	Parallel	C	C	C	C
75	77	Halco	EP432IS/MV/HE	IS	4	H	0.88	Parallel	C	C	C	C
76	78	Halco	EP432IS/L/MV/HE	IS	4	H	0.78	Parallel	C	C	C	C
77	79	Philips-Advance	REB-4P32-SC	IS	4	N	0.81	Parallel	C	NA	C	NA
78	80	Philips-Advance	IOP-4P32-HL-SC	IS	4	H	1.18	Parallel	NC	NC	NC	NC
79	81	General Electric	GE432-120-RES	IS	4	N	0.83	Parallel	C	NA	C	NA
80	82	General Electric	GE432MV-N-42T	IS	4	H	0.93	Parallel	C	C	C	C
81	83	General Electric	GE432MAX-N/ULTRA	IS	4	H	0.88	Parallel	C	C	C	C
82	84	General Electric	GE432MAX347-N	IS	4	N	0.94	Parallel	NA	C,(347V)	NA	C,(347V)
83	85	MAXLITE	MLEU322HEL/SC	IS	2	L	0.83	Parallel	N,F	N,F	N,F	N,F
84	86	MAXLITE	MLEU323H/SC	IS	3	H	1.18	Parallel	C	C	C	C
85	87	TCP	E2P32ISUNVHE	IS	2	H	1.18	Parallel	C	F	C	C
86	88	TCP	E4P32ISUNVLE	IS	4	L	0.78	Parallel	C	F	C	C
87	89	Universal Lighting Technologies	B232I120RES-A	IS	2	N	0.88	Parallel	C	NA	C	NA
88	91	General Electric	GE232MAXP90-V60	IS	2	H	1.18	Parallel	C	P,T	C	C
89	92	HOWARD INDUSTRIES	E2/32IS-120MC	IS	2	N	0.85	Parallel	P,T	NA	C	NA
90	93	HOWARD INDUSTRIES	EPL2/32IS/MV/MC/HE	IS	2	L	0.78	Parallel	C	P,T	C	C
91	94	PLUSRITE	BAF232IS/MV	IS	2	N	0.89	Parallel	C	C	C	C
92	95	General Electric	GE332MAXP90-V60	IS	3	H	1.18	Parallel	C	P	C	C
93	96	General Electric	GE432MAXP90-S60	IS	4	H	1.18	Parallel	C	C	C	C

94	97	EIKO	PM-2X32T8-UNV-IS-L	IS	2	L	0.77	Parallel	C	C	C	C
95	98	EIKO	PM-3X32T8-UNV-IS	IS	3	N	0.87	Parallel	C	C	C	C
96	99	EIKO	PM-3X32T8-UNV-IS-H	IS	3	H	1.18	Parallel	C	C	C	C
97	200	EIKO	PM-3X32T8-UNV-IS-L	IS	3	L	0.78	Parallel	C	C	C	C
98	201	HOWARD INDUSTRIES	EPL3/32IS/MV/SC/HE	IS	3	L	0.78	Parallel	C	C	C	C
99	202	PLUSRITE	BAF332IS/MV	IS	3	?	?	?	C	C	C	C
100	203	TCP	E3P32ISUNVE	IS	3	N	0.88	Parallel	C	C	C	C
101	204	TCP	E3P32ISUNVLE	IS	3	L	0.78	Parallel	C	C	C	C
102	205	TCP	E4P32ISUNVE	IS	4	N	0.88	Parallel	C	C	C	C
104	207	HOWARD INDUSTRIES	EP4/32IS/MV/MC/HE	IS	4	N	0.88	Parallel	C	C	C	C
105	210	EIKO	PM-4X32T8-UNV-IS	IS	4	N	0.88	Parallel	C	C	C	C
106	211	EIKO	PM-4X32T8-UNV-IS-L	IS	4	L	0.78	Parallel	C	C	C	C
107	212	Universal Lighting Technologies	B132IUNVHP-N	IS	1	N	0.88	n.a	NA	NA	C	C
108	213	SOLA	E-758-U-232-MC	IS	2	N	0.88	Parallel	C	C	C	F
109	214	HOWARD INDUSTRIES	EP2/32IS/MV/MC/HE	IS	2	N	0.89	Parallel	C	C	C	C
110	215	HOWARD INDUSTRIES	EP3/32IS/MV/MC/HE	IS	3	N	0.88	Parallel	C	C	C	C
111	216	WORK HORSE	WHSG3-UNV-T8-IS	IS	3	N	0.99	Parallel	C	C	C	C
112	217	WORK HORSE	WHSG4-UNV-T8-IS	IS	4	N	0.96	Parallel	C	C	C	C
113	218	KEYSTONE	KTEB-432RIS-1-TP-SL	IS	4	N	0.80	Parallel	C	NA	C	NA
114	219	MAXLITE	MLEU324HE/SC	IS	4	N	0.88	Parallel	C	C	C	C
115	220	SUNPARK	120-1/32IS HPF	IS	1	N	0.88	NA	NA	NA	C	NA
116	221	Superior Life	70201	IS	2	N	0.88	Parallel	C	F	C	C
117	222	SUNPARK	U-2/32IS HBF	IS	2	H	1.18	Parallel	C	C	C	C
118	223	SUNPARK	U-2/32ISE-LBF	IS	2	L	0.78	Parallel	C	C	C	C
119	224	SUNPARK	U-3/32ISE	IS	3	N	0.88	Parallel	C	C	C	C
120	225	SUNPARK	U-3/32ISE-HBF	IS	3	H	1.18	Parallel	C	C	C	C
121	226	SUNPARK	120-3/32IS MPF	IS	3	H	0.88	Parallel	C	NA	C	NA
122	227	SUNPARK	U-4/32IS HP,F	IS	4	N	0.88	Parallel	C	C	C	C
123	228	SUNPARK	U-4/32IS HBF	IS	4	H	1.18	Parallel	C	C	C	C

124	229	SUNPARK	U-4/32ISE-LBF	IS	4	L	0.88	Parallel	C	C	C	C
126	231	EIKO	PM-2X32T8-UNV-IS	IS	2	N	0.87	Parallel	C	C	C	C
127	232	KEYSTONE	KTEB-332-UV-IS-N-P	IS	3	N	0.87	Parallel	C	C	C	C
128	233	KEYSTONE	KTEB-432-UV-IS-N-P	IS	4	N	0.87	Parallel	C	C	C	C
129	234	General Electric	GE432MAX-H/ULTRA P	IS	4	H	1.18	Parallel	C	C	C	C
130	235	Philips-Advance	ICN-3P32-N	IS	3	N	0.88	Parallel	C	C	C	C
131	236	Halco	EP232IS/L/MV/HE	IS	2	L	0.78	Parallel	C	C	C	C
132	237	Halco	EP232IS/H/MV/HE	IS	2	H	1.18	Parallel	C	C	C	C
133	238	Halco	EP332IS/L/MV/HE	IS	3	L	0.78	Parallel	C	C	C	C
135	240	Philips-Advance	VEL-2P32-SC	IS	2	N	0.88	Parallel	C	C	C	C
136	241	Universal Lighting Technologies	B232IUNVHP-B	IS	2	N	0.88	Parallel	C	C	C	C
137	242	OSRAM SYLVANIA	QTP2x32T8/277 ISN-D	IS	2	N	0.78	Parallel	NA	C	NA	C
138	243	KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	IS	2	N	0.88	Parallel	C	NA	C	NA
139	244	HATCH	HL232BIS/UV/HE/W	IS	2	N	0.9	Parallel	C	C	C	C
140	245	HATCH	HL432BIS/UV/HE/W	IS	4	N	0.9	Parallel	C	C	C	C
141	246	HOWARD INDUSTRIES	EPH3/32IS/MV/MC/HE	IS	3	N	0.91	Parallel	C	C	C	C
142	247	ARCATA	ACT 3P32ISUNVLE	IS	3	L	0.78	Parallel	C	C	C	C
143	248	LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	IS	3	L	0.78	Parallel	C	C	C	C
144	249	General Electric	GE432MAX90-S60	IS	4	H	1.18	Parallel	C	C	C	C
145	250	KEYSTONE	KTEB-232-UV-IS-H-P	IS	2	H	1.18	Parallel	C	C	C	C
146	251	KEYSTONE	KTEB-332-UV-IS-H-P	IS	3	H	1.18	Parallel	C	C	C	C
147	252	KEYSTONE	KTEB-432-UV-IS-H-P	IS	4	H	1.18	Parallel	C	C	C	C
148	253	TOPAZ	B232IUNVHEH/A-TPZ	IS	2	H	1.18	Parallel	C	C	C	C
149	254	TOPAZ	B432IUNVHEH/A-TPZ	IS	4	H	1.18	Parallel	C	C	C	C
150	255	Universal Lighting Technologies	B232IUNV-C	IS	2	N	0.88	Parallel	C	C	C	C
151	256	DAMAR	EL232-120/277HF(1688B)	IS	2	N	?	Parallel	C	C	C	C
152	257	DAMAR	EL232HL-120/277HF(1688D)	IS	2	H	?	Parallel	C	C	C	C
153	258	DAMAR	EL332-120/277HF(3654C)	IS	3	N	?	Parallel	C	C	C	C
154	259	DAMAR	EL332HL-120/277HF(3654H)	IS	3	H	?	Parallel	C	C	C	C
155	260	DAMAR	EL432-120/277HF(3093B)	IS	4	N	?	Parallel	C	C	C	C

156	261	DAMAR	EL432HL-120/277HF(3093C)	IS	4	H	?	Parallel	C	C	C	C
157	262	Philips-Advance	IOPA-2P32-HL-N	IS	2	H	1.18	Parallel	C	C	C	C
158	263	Plusrite	BAF232IS/MV/L	IS	2	L	0.78	Parallel	C	C	C	C
159	264	Plusrite	BAF332IS/MV/L	IS	3	L	0.78	Parallel	C	C	C	C
160	265	Plusrite	BAF432IS/MV	IS	4	N	0.88	Parallel	C	C	C	C
161	266	Plusrite	BAF432IS/MV/L	IS	4	L	0.78	Parallel	C	C	C	C
162	267	OSRAM SYLVANIA	QT2X32/120 IS-SC	IS	2	/	/	Parallel	P,T	NA	C	NA
163	268	Watran	DB-232N-MV-TP-HE	IS	2	N	0.87	Parallel	C	C	C	C
164	269	Watran	DB-332N-MV-TP-HE	IS	3	N	0.87	Parallel	C	C	C	C
165	270	Watran	DB-432N-MV-TP-HE	IS	4	N	0.87	Parallel	C	C	C	C
166	271	Watran	DB-432L-MV-TP-HE	IS	4	L	0.77	Parallel	C	C	C	C
167	272	Watran	DB-232N-MV-TP-HE (SC)	IS	2	N	0.87	Parallel	C	C	C	C
168	273	ACT	ACT 2P32ISUNVE	IS	2	N	0.89	Parallel	C	C	C	C
169	274	ANTRON ELECTRONICS	A32T8MICLO	IS	2	L	0.78	Parallel	C	C	C	C
172	277	EIKO	PM-2×32T8-UNV-IS-H	IS	2	H	1.18	Parallel	C	C	C	C
174	279	OSRAM SYLVANIA	QHE 3x32T8/UNV ISH HT-SC	IS	3	H	1.18	Parallel	C	C	C	C
175	280	Philips-Advance	VEL-2P32-RH-TP	IS	2			Parallel	NA	P,T	NA	C
176	281	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH HT-1	IS	4	H	1.18	Parallel	C	C	C	C
177	282	Philips-Advance	IOP-3P32HL-90C-SC	IS	3			Parallel	NC	NC	NC	NC
178	283	TCP	TCP3P32ISUNVH	IS	3			Parallel	C	C	C	C
179	284	Philips-Advance	IOP-4P32-SC	IS	4			Parallel	C	C	S	S
180	285	OSRAM SYLVANIA	QTP 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	C	C	C	C
181	286	Philips-Advance	IOPA-4P32-SC	IS	4			Parallel	C	C	C	C
182	287	Universal Lighting Technologies	B432IUNVHE-A	IS	4			Parallel	C	C	C	C
183	288	Universal Lighting Technologies	B432IUNVHEH-E	IS	4			Parallel	C	C	C	C
184	289	General Electric	GE232MAX-G-L	IS	2			Parallel	C	C	C	C
185	290	OSRAM SYLVANIA	QHE 2X32T8/UNV ISH HT-SC P	IS	2	H		Parallel	C	C	C	C
186	291	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH-SC	IS	4	H		Parallel	C	C	C	C
188	292	General Electric	GE332MAXP-L/ULTRA	IS	3	?	?	Parallel	C	C	C	C
189	293	Universal Lighting Technologies	B232I277RH-A	IS	4	?	?	Parallel	NA	T	NA	C

190	294	General Electric	GE432MAX347-H	IS	2	?	?	Parallel	NA	C,(347V)	NA	C,(347V)
191	295	Pacific Fluorescent	EB-232IS-120-RES	IS	2			Parallel	C	NA	C	NA
192	296	OSRAM SYLVANIA	QT 2X32/347 ISH-SC	IS	2			Parallel	C	NA	C	NA
193	297	OSRAM SYLVANIA	QHE 1X32T8/UNV ISH-SC	IS	1			NA	NA	NA	C	P,T
194	298	Philips-Advance	ICN-132-MC	IS	1	?	?	NA	NA	NA	C	C
195	299	Philips-Advance	ICN-2P16-TLED-N	IS	2			Parallel	C	C	C	C
196	1001	Philips-Advance	ICN-4P16-TLED-N	IS	4			Parallel	C	C	C	C
197	101	Philips-Advance	IOP-2PSP32-N	PS	2	N	0.94	Parallel	N	N	C	C
198	102	Philips-Advance	IOP-3PSP32-SC	PS	3	N	0.88	Parallel	C	C	C	C
199	103	Philips-Advance	IOP-3PSP32-LW-SC	PS	3	L	0.69	Parallel	C	C	C	C
201	105	Philips-Advance	IOP-4PSP32-LW-SC	PS	4	L	0.69	Parallel	C	C	C	C
202	106	OSRAM SYLVANIA	QHE 4X32T8/UNV PSX-SC	PRS	4	L	0.71	Parallel	S	S	S	S
203	107	OSRAM SYLVANIA	QHE 2X32T8/UNV PSH-HT	PRS	2	H	1.18	Parallel	C	C	C	C
204	108	Philips-Advance	IOP-2S32-SC	PS	2	N	0.87	Series	S	S	S	S
205	109	Philips-Advance	IZT-2S32-SC	DPS	2	N	1.00	Series	NC	NC	NC	NC
206	110	ESPEN	VE232MVHRPHT3-AB	DPS	2	H	1.20	Series	S	S	S	S
208	113	General Electric	GE232-MVPS-N	PS	2	N	0.88	Parallel	NC	NC	NC	NC
209	115	Universal Lighting Technologies	B232PUNVHE-B	PS	2	N	0.88	Parallel	C	C	C	C
210	116	OSRAM SYLVANIA	QHE 2X32T8/UNV PSN-MC	PRS	2	N	0.88	Parallel	C	C	C	C
211	117	Philips-Advance	IOP-2PSP32-LW-N	PS	2	L	0.71	Parallel	C	C	C	C
212	118	Philips-Advance	IZT-2PSP32-SC	DPS	2	N	1.00	Parallel	NC	NC	NC	NC
214	120	General Electric	GE-332-MVPS-N	PS	3	N	0.88	Parallel	C	C	C	C
215	121	OSRAM SYLVANIA	QHE 3X32T8/UNV PSN-SC	PRS	3	N	0.88	Parallel	C	C	C	C
216	122	OSRAM SYLVANIA	QTP 3X32T8/UNV PSX-SC	PRS	3	L	0.71	Series	S	S	S	S
217	123	OSRAM SYLVANIA	QTP3X32T8/UNV PSN-SC	PRS	3	N	0.88	Series	S	S	S	S
218	124	General Electric	GE432-MVPS-N	PS	4	N	0.88	Parallel	NC	NC	NC	NC
162	125	General Electric	GE432MVPS-N-V03	PS	4	N	0.90	Parallel	NC	NC	NC	NC
220	126	OSRAM SYLVANIA	QHE 4X32T8/UNV PSN-SC	PRS	4	N	0.88	Parallel	C	C	C	C
221	127	OSRAM SYLVANIA	QHE 2X32T8/UNV DIM-TC	PRS	2	N	0.88	Series	NC	NC	NC	NC
222	128	Watran	DBG32N-MV-TP-PS-HL	PS	3	?	?	?	S	S	S	S
223	129	General Electric	GE-232-MV-PS-N	PS	2	N	0.88	Parallel	C	C	C	C

224	133	SUNPARK	U-1/32PSE	PS	1	N	0.88	n.a	NA	NA	S	S
225	134	SUNPARK	U-2/32PSE	RS	2	N	0.88	?	S	S	S	S
226	135	SUNPARK	U-2/32PSE-HBF	RS	2	H	1.15	?	S	S	S	S
227	136	SUNPARK	U-232PS3	RS	2	N	0.88	?	S	S	S	S
228	137	SUNPARK	U-232PS3-HBF	RS	2	H	1.15	?	S	S	S	S
229	138	Superior Life	70210	PS	2	N	0.88	Parallel	NC	NC	NC	NC
230	139	Superior Life	70211	PS	4	N	0.87	Parallel	NC	NC	NC	NC
231	140	SUNPARK	SL15T	PS	2	N	0.88	Series	P,T	NA	P,T	NA
232	141	SUNPARK	LC 12011T	PS	1	?	?	NA	NA	NA	C	NA
233	142	SUNPARK	LC 12013T	PS	1	?	?	NA	NA	NA	NC	NA
234	144	EIKO	PM-3X32T8-UNV-PS	PS	3	N	0.88	Series	S	S	S	S
235	145	EIKO	PM-3X32T8-UNV-PS-H	PS	3	H	1.18	Series	S	S	S	S
236	146	Philips-Advance	REZ-3S32-SC	DPS	3	N	0.97	Series	NC	NA	NC	NA
237	148	General Electric	GE232MVPS-L-S30	DPS	2	N	0.96	Parallel	NC	NC	NC	NC
238	149	General Electric	GE132MVPSN-V03	DPS	1	N	0.88	n.a	NA	NA	NC	NC
239	150	General Electric	GE332MVPSN-V03	DPS	3	N	0.98	Parallel	NC	NC	NC	NC
240	151	OSRAM SYLVANIA	QTP2×32T8/UNV DIM-TC	DPS	2	N	0.88	?	S	S	S	S
241	152	KEYSTONE	KTEB-132-1-TP-FC	RS	1	N		NA	NA	NA	C	NA
242	153	Universal Lighting Technologies	B332PUNVHEH-A	PS	3	H	1.18	Parallel	C	C	C	C
243	154	Universal Lighting Technologies	B232PU104S50A	PRS	2	H	1.04	Parallel	S	S	S	S
244	155	DAMAR	EL232DIM/120/277HF	DPS	2	?	?	Series	S	S	S	S
245	157	HOWARD INDUSTRIES	EP2/32PRS/MV/MC/HE	PRS	2	N	0.86	Parallel	S	S	S	S
246	158	HOWARD INDUSTRIES	EP4/32PPRS/MV/SC/HE	PRS	4	N	?	Parallel	C	C	C	C
247	160	Philips-Advance	REZ-2S32-SC	DPS	2	N	?	Series	NC	NA	NC	NA
248	161	OSRAM SYLVANIA	QHE 1X32T8/UNV DIM-TC	DPS	1	?	?	na	NA	NA	S	S
250	163	EIKO	PM-2×32T8-UNV-PS	PS	2	N	0.88	Parallel	S	S	S	S
251	165	Philips-Advance	IZT-3PSP32-SC	DPS	3	H	1	Parallel	S	S	S	S
252	166	Philips-Advance	REZ-132-SC	DPS	1	?	?	n.a	NA	NA	NC	NA
253	167	Universal Lighting Technologies	B232PUNVHP-A	PS	2	?	?	Parallel	S	S	S	S

Emergence TLED Incompatible Ballast List (2200lm, 15W, 4ft)						NC	Incompatible		P	PF <0.9		
						N	Acoustic noise >20dB		T	THD >25%		
						S	Can't start-up		C	Compatible		
						F	Flicker after >2s start-up		/ Not tested			
						HT	High temperature		NA Not applicable			
No	Ballast No.	Ballast Brand	Part Number	Start Method	# of Lamps	BF		Lamp Connection	N-1 Lamp		N Lamp	
						Type	Value		DR G5		DR G5	
									120Vac	277Vac	120Vac	277Vac
1	15	Philips-Advance	IOPA-3P32-LW-N	IS	3	L	0.76	Parallel	N	N	N	N
2	16	OSRAM SYLVANIA	QHE 3X32T8/UNV ISH-SC	IS	3	H	1.18	Parallel	N	P	N	P
3	29	HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	NC	NC	NC	NC
4	37	Philips-Advance	ICN-1P32-N	IS	1	H	0.91	n.a	NC	NC	NC	NC
6	39	General Electric	GE132MAX-G-N	IS	1	H	0.88	n.a	NA	NA	NC	NC
7	41	General Electric	GE132MAX-L/ULTRA	IS	1	H	0.78	n.a			NC	NC
48	48	Philips-Advance	REB-2P32-SC	IS	2	N	0.88	Parallel	F	NA	C	NA
10	55	OSRAM SYLVANIA	QHE 2X32T8/UNV ISH-SC	IS	2	H	1.20	Parallel	F,P,T,N	F,P,T	P,N	F,P,T,N
11	80	Philips-Advance	IOP-4P32-HL-SC	IS	4	H	1.18	Parallel	NC	NC	NC	NC
12	85	MAXLITE	MLEU322HEL/SC	IS	2	L	0.83	Parallel	N,F	N,F	N,F	N,F
13	87	TCP	E2P32ISUNVHE	IS	2	H	1.18	Parallel	C	F	C	C
14	88	TCP	E4P32ISUNVLE	IS	4	L	0.78	Parallel	C	F	C	C
15	213	SOLA	E-758-U-232-MC	IS	2	N	0.88	Parallel	C	C	C	F
16	221	Superior Life	70201	IS	2	N	0.88	Parallel	C	F	C	C
17	282	Philips-Advance	IOP-3P32HL-90C-SC	IS	3			Parallel	NC	NC	NC	NC

18	284	Philips-Advance	IOP-4P32-SC	IS	4			Parallel	C	C	S	S
19	101	Philips-Advance	IOP-2PSP32-N	PS	2	N	0.94	Parallel	N	N	C	C
20	106	OSRAM SYLVANIA	QHE 4X32T8/UNV PSX-SC	PRS	4	L	0.71	Parallel	S	S	S	S
21	108	Philips-Advance	IOP-2S32-SC	PS	2	N	0.87	Series	S	S	S	S
22	109	Philips-Advance	IZT-2S32-SC	DPS	2	N	1.00	Series	NC	NC	NC	NC
20 6	110	ESPEN	VE232MVHRPHT3-AB	DPS	2	H	1.20	Series	S	S	S	S
25	113	General Electric	GE232-MVPS-N	PS	2	N	0.88	Parallel	NC	NC	NC	NC
26	118	Philips-Advance	IZT-2PSP32-SC	DPS	2	N	1.00	Parallel	NC	NC	NC	NC
28	122	OSRAM SYLVANIA	QTP 3X32T8/UNV PSX-SC	PRS	3	L	0.71	Series	S	S	S	S
29	123	OSRAM SYLVANIA	QTP3X32T8/UNV PSN-SC	PRS	3	N	0.88	Series	S	S	S	S
30	124	General Electric	GE432-MVPS-N	PS	4	N	0.88	Parallel	NC	NC	NC	NC
16 2	125	General Electric	GE432MVPS-N-V03	PS	4	N	0.90	Parallel	NC	NC	NC	NC
32	127	OSRAM SYLVANIA	QHE 2X32T8/UNV DIM-TC	PRS	2	N	0.88	Series	NC	NC	NC	NC
33	128	Watran	DBG32N-MV-TP-PS-HL	PS	3	?	?	?	S	S	S	S
34	133	SUNPARK	U-1/32PSE	PS	1	N	0.88	n.a	NA	NA	S	S
35	134	SUNPARK	U-2/32PSE	RS	2	N	0.88	?	S	S	S	S
36	135	SUNPARK	U-2/32PSE-HBF	RS	2	H	1.15	?	S	S	S	S
37	136	SUNPARK	U-232PS3	RS	2	N	0.88	?	S	S	S	S
38	137	SUNPARK	U-232PS3-HBF	RS	2	H	1.15	?	S	S	S	S
39	138	Superior Life	70210	PS	2	N	0.88	Parallel	NC	NC	NC	NC
40	139	Superior Life	70211	PS	4	N	0.87	Parallel	NC	NC	NC	NC
41	142	SUNPARK	LC 12013T	PS	1	?	?	NA	NA	NA	NC	NA
42	144	EIKO	PM-3X32T8-UNV-PS	PS	3	N	0.88	Series	S	S	S	S

43	145	EIKO	PM-3X32T8-UNV-PS-H	PS	3	H	1.18	Series	S	S	S	S
44	146	Philips-Advance	REZ-3S32-SC	DPS	3	N	0.97	Series	NC	NA	NC	NA
45	148	General Electric	GE232MVPS-L-S30	DPS	2	N	0.96	Parallel	NC	NC	NC	NC
46	149	General Electric	GE132MVPSN-V03	DPS	1	N	0.88	n.a	NA	NA	NC	NC
47	150	General Electric	GE332MVPSN-V03	DPS	3	N	0.98	Parallel	NC	NC	NC	NC
48	151	OSRAM SYLVANIA	QTP2×32T8/UNV DIM-TC	DPS	2	N	0.88	?	S	S	S	S
49	154	Universal Lighting Technologies	B232PU104S50A	PRS	2	H	1.04	Parallel	S	S	S	S
50	155	DAMAR	EL232DIM/120/277HF	DPS	2	?	?	Series	S	S	S	S
51	157	HOWARD INDUSTRIES	EP2/32PRS/MV/MC/HE	PRS	2	N	0.86	Parallel	S	S	S	S
52	160	Philips-Advance	REZ-2S32-SC	DPS	2	N	?	Series	NC	NA	NC	NA
53	161	OSRAM SYLVANIA	QHE 1X32T8/UNV DIM-TC	DPS	1	?	?	na	NA	NA	S	S
55	163	EIKO	PM-2×32T8-UNV-PS	PS	2	N	0.88	Parallel	S	S	S	S
56	165	Philips-Advance	IZT-3PSP32-SC	DPS	3	H	1	Parallel	S	S	S	S
57	166	Philips-Advance	REZ-132-SC	DPS	1	?	?	n.a	NA	NA	NC	NA
58	167	Universal Lighting Technologies	B232PUNVHP-A	PS	2	?	?	Parallel	S	S	S	S
61	171	OSRAM	QHE 2x32T8/347 PSN-SC	PRS	2	?	?	Parallel	NC	NC	NC	NC
62	172	OSRAM SYLVANIA	QHEs 2x32T8/UNV PSL-SC	PRS	2	?	?	Parallel	NC	NC	NC	NC