

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

BALLAST COMPATIBILITY

KEY

NC	Incompatible
N	Acoustic noise >20dB
S	Can't start up
F	Flickers after >2s start-up
HT	High temperature

P	PF <0.85
T	THD >30%
C	Compatible
/	Not tested
NA	Not applicable

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
1	1	Philips-Advance	ICN-2P32-N	IS	2	N	0.89	Parallel	YES	HT	HT	C	C
2	2	Philips-Advance	IOPA-2P32-N	IS	2	N	0.89	Parallel	YES	C	C	C	C
3	4	Philips-Advance	IOP-2P32-LW-N	IS	2	L	0.77	Parallel	YES	C	C	C	C
4	5	OSRAM SYLVANIA	QTP 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	YES	C	C	C	C
5	6	OSRAM SYLVANIA	QHE 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	YES	C	C	C	C
6	7	OSRAM SYLVANIA	QHE 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	YES	C	C	C	C
7	8	General Electric	GE-232-MV-N	IS	2	N	0.88	Parallel	Yes	C	C	C	C
8	9	General Electric	GE232MAX-N/ULTRA	IS	2	N	0.88	Parallel	YES	C	C	F	F
9	10	Universal Lighting Technologies	B232IUNVHP-N	IS	2	N	0.88	Parallel	YES	N	N	C	C
10	11	Universal Lighting Technologies	B232IUNVEL-A	IS	2	L	0.77	Parallel	YES	C	C	C	C
11	12	Universal Lighting Technologies	B233IUNVHE-A	IS	2	N	0.87	Parallel	YES	C	C	C	C
12	13	ESPEN	VE232MVHIPE	IS	2	N	0.89	Parallel	YES	C	C	C	C
13	14	ESPEN	VE232MVHIPHE	IS	2	H	1.19	Parallel	NO	HT	HT	C	C
14	15	Philips-Advance	IOPA-3P32-LW-N	IS	3	L	0.76	Parallel	Yes	C	C	C	C
15	16	OSRAM SYLVANIA	QHE 3X32T8/UNV ISH-SC	IS	3	H	1.18	Parallel	NO	N	N	N	N
16	17	Philips-Advance	IOPA-4P32-N	IS	4	N	0.87	Parallel	YES	N	N	N	N
17	19	Philips-Advance	IOP-4P32-N	IS	4	N	0.87	Parallel	YES	N	N	N	N
18	20	Philips-Advance	IOP-4P32-LW-N	IS	4	L	0.77	Parallel	YES	C	C	C	C

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NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
19	21	Philips-Advance	ICN-4P32-N	IS	4	N	0.90	Parallel	YES	C	C	C	C
20	22	General Electric	GE432MAX-H/ULTRA	IS	4	H	1.18	Parallel	NO	C	P,T	C	P,T
21	23	General Electric	GE432MAX-L/ULTRA	IS	4	L	0.78	Parallel	YES	C	C	C	C
22	24	OSRAM SYLVANIA	QHE 4X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	YES	C	C	C	C
23	25	OSRAM SYLVANIA	QHE 4X32T8/UNV ISL-SC	IS	4	L	0.78	Parallel	YES	C	C	C	C
24	26	Philips-Advance	IOP-1P32-N	IS	1	N	0.89	n.a	YES	NC	NC	NC	NC
25	27	Philips-Advance	IOP-2P32HL-SC	IS	2	H	1.18	Parallel	NO	NC	NC	NC	NC
26	28	General Electric	GE-232-MAX-H/Ultra	IS	2	H	1.15	Parallel	NO	NC	NC	NC	NC
27	29	HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	NO	NC	NC	NC	NC
28	30	HOWARD INDUSTRIES	EP3/32IS/MV/SC/HE	IS	3	N	0.87	Parallel	YES	C	C	C	C
29	31	HOWARD INDUSTRIES	EPL4/32IS/MV/MC/HE	IS	4	L	0.77	Parallel	YES	C	C	C	C
30	32	ProLume	EP232IS/L/MV/SL	IS	2	L	0.78	Parallel	YES	C	C	C	C
31	33	Prolume	E432IS/120/R/SL	IS	4	N	0.87	Parallel	YES	P,T	NA	P,T	NA
32	34	General Electric	GE432MAX-G-N	IS	4	N	0.88	Parallel	YES	C	C	C	C
33	35	Universal Lighting Technologies	B432IUNVHE L-A	IS	4	L	0.77	Parallel	YES	C	C	C	C
34	36	OSRAM SYLVANIA	QTP 4x32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	YES	NA	NA	NC	NC
35	37	Philips-Advance	ICN-1P32-N	IS	1	N	0.91	n.a	YES	NA	NA	NC	NC
36	38	Philips-Advance	IOPA-1P32-N	IS	1	N	0.88	n.a	YES	NA	NA	NC	NC
37	39	General Electric	GE132MAX-G-N	IS	1	N	0.88	n.a	YES	NA	NA	NC	NC
38	40	General Electric	GE132MAX-H/ULTRA	IS	1	H	1.18	n.a	NO	NA	NA	NC	NC
39	41	General Electric	GE132MAX-L/ULTRA	IS	1	L	0.78	n.a	YES	NA	NA	NC	NC
40	42	General Electric	GE132MAXP-N/ULTRA	IS	1	N	0.88	n.a	YES	NA	NA	C	C

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NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
41	43	OSRAM SYLVANIA	QHE 1X32T8/UNV ISN-SC	IS	1	N	0.88	n.a	YES	NA	NA	C	C
42	44	OSRAM SYLVANIA	QHE 1X32T8/UNV ISL-SC	IS	1	L	0.78	n.a	YES	NA	NA	C	C
43	46	ESPEN	VE232MVHIPLE	IS	2	L	0.77	Parallel	YES	C	C	C	C
44	48	Philips-Advance	REB-2P32-SC	IS	2	N	0.88	Parallel	YES	NC	NA	NC	NA
45	49	General Electric	GE232MV-N-DIY	IS	2	N	0.88	Parallel	YES	C	C	C	C
46	51	General Electric	GE232MAX-L/ULTRA	IS	2	L	0.78	Parallel	YES	NC	NC	NC	NC
47	52	General Electric	GE232MAX347-N	IS	2	H	1.02	Parallel	NO	NA	F(347V)	NA	F(347V)
48	53	Halco	EP232IS/MV/HE	IS	2	N	0.88	Parallel	YES	C	C	C	C
49	54	Universal Lighting Technologies	B232IUNVHEH-A	IS	2	H	1.18	Parallel	NO	HT	HT	HT	HT
50	56	HOWARD INDUSTRIES	EPH2/321S/MV/MC/HE	IS	2	H	1.18	Parallel	NO	HT	HT	C	C
51	58	MAXLITE	SKEU322HEL/SC	IS	2	L	0.77	Parallel	YES	C	C	C	C
52	59	KEYSTONE	KTEB-232-UV-IS-N-P	IS	2	N	0.87	Parallel	YES	C	F	C	C
53	61	Philips-Advance	IOPA-3P32-N	IS	3	N	0.86	Parallel	YES	N	N	N	N
54	62	Philips-Advance	IOP-3P32-N	IS	3	N	0.87	Parallel	YES	N	N	N	N
55	63	General Electric	GE332MV-N	IS	3	N	0.87	Parallel	YES	C	C	C	C
56	64	General Electric	GE332MAX-N/ULTRA	IS	3	N	0.88	Parallel	YES	C	C	C	C
57	66	General Electric	GE332MAX-G-N	IS	3	N	0.87	Parallel	YES	C	C	C	C
58	67	General Electric	GE332MAXP-H/ULTRA	IS	3	H	1.18	Parallel	NO	HT	HT	HT	HT
59	68	OSRAM SYLVANIA	QTP 3X32T8/UNV ISN-SC	IS	3	N	0.88	Parallel	YES	C	C	C	C
60	69	OSRAM SYLVANIA	QHE 3X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	YES	C	C	C	C
61	70	OSRAM SYLVANIA	QHE 3X32T8/UNV ISL-SC	IS	3	L	0.78	Parallel	YES	C	C	C	C
62	71	Universal Lighting Technologies	B332IUNVHP-A	IS	3	N	0.88	Parallel	YES	C	C	C	C

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NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
63	72	MAXLITE	SKEU324HE/SC	IS	4	N	0.88	Parallel	YES	C	C	C	C
64	73	MAXLITE	SKEU323L/SC	IS	3	L	0.78	Parallel	YES	C	C	C	C
65	74	Halco	EP332IS/MV/HE	IS	3	N	0.87	Parallel	YES	C	C	C	C
66	76	Universal Lighting Technologies	B432IUNVHP-A	IS	4	N	0.88	Parallel	YES	C	C	C	C
67	77	Halco	EP432IS/MV/HE	IS	4	N	0.88	Parallel	YES	C	C	C	C
68	78	Halco	EP432IS/L/MV/HE	IS	4	L	0.78	Parallel	YES	C	C	C	C
69	79	Philips-Advance	REB-4P32-SC	IS	4	N	0.81	Parallel	YES	NC	NA	NC	NA
70	80	Philips-Advance	IOP-4P32-HL-SC	IS	4	H	1.18	Parallel	NO	NC	NC	NC	NC
71	82	General Electric	GE432MV-N-42T	IS	4	N	0.93	Parallel	YES	NC	NC	NC	NC
72	83	General Electric	GE432MAX-N/ULTRA	IS	4	N	0.88	Parallel	YES	C	C	C	C
73	84	General Electric	GE432MAX347-N	IS	4	N	0.94	Parallel	YES	NA	C(347V)	NA	C(347V)
74	85	MAXLITE	MLEU322HEL/SC	IS	2	N	0.83	Parallel	YES	C	C	C	C
75	86	MAXLITE	MLEU323H/SC	IS	3	H	1.18	Parallel	NO	NC	NC	NC	NC
76	87	TCP	E2P32ISUNVHE	IS	2	H	1.18	Parallel	NO	NC	F	NC	F
77	88	TCP	E4P32ISUNVLE	IS	4	L	0.78	Parallel	YES	F	F	F	F
78	89	Universal Lighting Technologies	B232I120RES-A	IS	2	N	0.88	Parallel	YES	P,T	NA	P,T	NA
79	91	General Electric	GE232MAXP90-V60	IS	2	H	1.18	Parallel	NO	NC	NC	NC	NC
80	92	HOWARD INDUSTRIES	E2/32IS-120MC	IS	2	N	0.85	Parallel	YES	P,T	NA	C	NA
81	93	HOWARD INDUSTRIES	EPL2/32IS/MV/MC/HE	IS	2	L	0.78	Parallel	YES	F	F	F	F
82	94	PLUSRITE	BAF232IS/MV	IS	2	N	0.89	Parallel	YES	C	C	C	C
83	95	General Electric	GE332MAXP90-V60	IS	3	H	1.18	Parallel	NO	NC	NC	NC	NC

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NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
84	96	General Electric	GE432MAXP90-S60	IS	4	H	1.18	Parallel	NO	NC	NC	NC	NC
85	97	EIKO	PM-2X32T8-UNV-IS-L	IS	2	L	0.77	Parallel	YES	C	C	C	C
86	98	EIKO	PM-3X32T8-UNV-IS	IS	3	N	0.87	Parallel	YES	C	C	C	C
87	99	EIKO	PM-3X32T8-UNV-IS-H	IS	3	H	1.18	Parallel	NO	HT	HT	C	C
88	200	EIKO	PM-3X32T8-UNV-IS-L	IS	3	L	0.78	Parallel	YES	C	C	C	C
89	201	HOWARD INDUSTRIES	EPL3/32IS/MV/SC/HE	IS	3	L	0.78	Parallel	YES	C	C	C	C
90	202	PLUSRITE	BAF332IS/MV	IS	3	N	0.88	Parallel	YES	C	C	C	C
91	203	TCP	E3P32ISUNVE	IS	3	N	0.88	Parallel	YES	C	C	C	C
92	204	TCP	E3P32ISUNVLE	IS	3	L	0.78	Parallel	YES	C	F	C	C
93	205	TCP	E4P32ISUNVE	IS	4	N	0.88	Parallel	YES	C	C	C	C
94	206	TCP	E4P32ISUNVHE	IS	4	N	1.18	Parallel	YES	HT	HT	HT	HT
95	207	HOWARD INDUSTRIES	EP4/32IS/MV/MC/HE	IS	4	N	0.88	Parallel	YES	C	C	C	C
184	208	Fulham	WHCG4-120-T8-IS	IS	4	N	0.86	Parallel	YES	NC	NA	NC	NA
185	209	PES	PES120ET8-12SMT-4	IS	4	N	0.88	Parallel	YES	NC	NA	NC	NA
98	210	EIKO	PM-4X32T8-UNV-IS	IS	4	N	0.88	Parallel	YES	C	C	C	C
99	211	EIKO	PM-4X32T8-UNV-IS-L	IS	4	L	0.78	Parallel	YES	C	C	C	C
100	212	Universal Lighting Technologies	B132IUNVHP-N	IS	1	N	0.88	n.a	YES	NA	NA	C	C
101	213	SOLA	E-758-U-232-MC	IS	2	N	0.88	Parallel	YES	NC	F,N	NC	F,N
102	214	HOWARD INDUSTRIES	EP2/32IS/MV/MC/HE	IS	2	N	0.89	Parallel	YES	C	C	C	C
103	215	HOWARD INDUSTRIES	EP3/32IS/MV/MC/HE	IS	3	N	0.88	Parallel	YES	C	C	C	C
104	216	WORK HORSE	WHS3-UNV-T8-IS	IS	3	N	0.99	Parallel	YES	C	C	C	C

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						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
105	217	WORK HORSE	WHS G4-UNV-T8-IS	IS	4	N	0.96	Parallel	YES	C	C	C	C
106	218	KEYSTONE	KTEB-432RIS-1-TP-SL	IS	4	N	0.80	Parallel	YES	NC	NA	NC	NA
107	219	MAXLITE	MLEU324HE/SC	IS	4	N	0.88	Parallel	YES	C	C	C	C
108	220	SUNPARK	120-1/32IS HPF	IS	1	N	0.88	NA	YES	NA	NA	T	NA
109	221	Superior Life	70201	IS	2	N	0.88	Parallel	YES	C	F	C	C
110	222	SUNPARK	U-2/32IS HBF	IS	2	H	1.18	Parallel	NO	C	C	C	C
111	223	SUNPARK	U-2/32ISE-LBF	IS	2	L	0.78	Parallel	YES	C	C	C	C
112	224	SUNPARK	U-3/32ISE	IS	3	N	0.88	Parallel	YES	C	C	C	C
113	225	SUNPARK	U-3/32ISE-HBF	IS	3	H	1.18	Parallel	NO	HT	HT	C	C
114	226	SUNPARK	120-3/32IS MPF	IS	3	N	0.88	Parallel	YES	NC	NA	NC	NA
115	227	SUNPARK	U-4/32IS HP,F	IS	4	N	0.88	Parallel	YES	C	C	C	C
116	228	SUNPARK	U-4/32IS HBF	IS	4	H	1.18	Parallel	NO	HT	HT	C	C
117	229	SUNPARK	U-4/32ISE-LBF	IS	4	L	0.77	Parallel	YES	C	C	C	C
206	230	Philips-Advance	ICN-4P32-SC	IS	4	N	0.89	Parallel	YES	C	C	C	C
119	231	EIKO	PM-2X32T8-UNV-IS	IS	2	N	0.87	Parallel	YES	C	C	C	C
120	232	KEYSTONE	KTEB-332-UV-IS-N-P	IS	3	N	0.87	Parallel	YES	C	C	C	C
121	233	KEYSTONE	KTEB-432-UV-IS-N-P	IS	4	N	0.87	Parallel	YES	C	C	C	C
122	234	General Electric	GE432MAX-H/ULTRA	IS	4	H	1.18	Parallel	NO	HT	HT	C	C
123	235	Philips-Advance	ICN-3P32-N	IS	3	N	0.88	Parallel	YES	N	N	N	N
124	236	Halco	EP232IS/L/MV/HE	IS	2	L	0.78	Parallel	YES	C	C	C	C
125	237	Halco	EP232IS/H/MV/HE	IS	2	H	1.18	Parallel	NO	HT	HT	C	C
126	238	Halco	EP332IS/L/MV/HE	IS	3	L	0.78	Parallel	YES	C	C	C	C

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						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
127	239	Halco	EP432IS/120/MC	IS	4	N	0.88	Parallel	YES	C	NA	C	NA
128	240	Philips-Advance	VEL-2P32-SC	IS	2	N	0.88	Parallel	YES	NA	T	NA	C
129	241	Universal Lighting Technologies	B232IUNVHP-B	IS	2	N	0.88	Parallel	YES	F	C	F	C
130	242	OSRAM SYLVANIA	QTP2x32T8/277 ISN-D	IS	2	L	0.78	Parallel	YES	NA	C	NA	C
131	243	KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	IS	2	N	0.88	Parallel	YES	S	NA	S	NA
132	244	HATCH	HL232BIS/UV/HE/W	IS	2	N	0.9	Parallel	YES	C	C	C	C
133	245	HATCH	HL432BIS/UV/HE/W	IS	4	N	0.9	Parallel	YES	C	C	C	C
134	246	HOWARD INDUSTRIES	EPH3/32IS/MV/MC/HE	IS	3	N	0.91	Parallel	NO	HT	HT	HT	HT
135	247	ARCATA	ACT 3P32ISUNVLE	IS	3	L	0.78	Parallel	YES	C	C	C	C
136	248	LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	IS	3	L	0.78	Parallel	YES	C	C	C	C
137	251	KEYSTONE	KTEB-332-UV-IS-H-P	IS	3	H	1.18	Parallel	NO	NC	NC	NC	NC
138	252	KEYSTONE	KTEB-432-UV-IS-H-P	IS	4	H	1.18	Parallel	NO	HT	HT	HT	HT
139	253	TOPAZ	B232IUNVHEH/A-TPZ	IS	2	H	1.18	Parallel	NO	C	C	C	C
140	256	DAMAR	EL232-120/277HF(1688B)	IS	2	N	/	Parallel	YES	C	NC	C	C
141	259	DAMAR	EL332HL-120/277HF(3654H)	IS	3	H	/	Parallel	NO	HT	HT	C	C
142	260	DAMAR	EL432-120/277HF(3093B)	IS	4	N	/	Parallel	YES	C	C	C	C
143	261	DAMAR	EL432HL-120/277HF(3093C)	IS	4	H	/	Parallel	NO	C	F	C	C
144	262	Philips-Advance	IOPA-2P32-HL-N	IS	2	H	1.18	Parallel	NO	N	N	N	N
145	263	Plusrite	BAF232IS/MV/L	IS	2	L	0.78	Parallel	YES	C	C	C	C
146	264	Plusrite	BAF332IS/MV/L	IS	3	L	0.78	Parallel	YES	N	N	N	N
147	265	Plusrite	BAF432IS/MV	IS	4	N	0.88	Parallel	YES	C	C	C	C

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148	266	Plusrite	BAF432IS/MV/L	IS	4	L	0.78	Parallel	YES	C	C	C	C
149	268	Watran	DB-232N-MV-TP-HE	IS	2	N	0.87	Parallel	YES	C	C	C	C
150	269	Watran	DB-332N-MV-TP-HE	IS	3	N	0.87	Parallel	YES	C	C	C	C
151	270	Watran	DB-432N-MV-TP-HE	IS	4	N	0.87	Parallel	YES	F	C	F	C
152	271	Watran	DB-432L-MV-TP-HE	IS	4	L	0.77	Parallel	YES	C	C	C	C
153	272	Watran	DB-232N-MV-TP-HE□SC□	IS	2	N	0.87	Parallel	YES	C	C	C	C
154	273	ACT	ACT 2P32ISUNVE	IS	2	N	0.89	Parallel	YES	C	C	C	C
155	274	ANTRON ELECTRONICS	A32T8MICLO	IS	2	L	0.78	Parallel	YES	C	C	C	C
156	277	EIKO	PM-2x32T8-UNV-IS-H	IS	2	H	1.18	Parallel	NO	HT	HT	C	C
254	278	KEYSTONE	KTLD-2T8LED-UV-IS-VDIM	IS	2	/	/	Parallel	NO	S	S	S	S
158	279	OSRAM SYLVANIA	QHE 3x32T8/UNV ISH HT-SC	IS	3	H	1.18	Parallel	NO	HT	HT	HT	HT
159	280	Philips-Advance	VEL-2P32-RH-TP	IS	2	N	/	Parallel	YES	NA	P,T	NA	P,T
160	281	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH HT-1	IS	4	H	1.18	Parallel	NO	NC	NC	NC	NC
161	282	Philips-Advance	IOP-3P32HL-90C-SC	IS	3	H	1.22	Parallel	NO	NC	NC	NC	NC
162	283	TCP	TCP3P32ISUNVH	IS	3	H	1.18	Parallel	NO	HT	HT	C	C
163	284	Philips-Advance	IOP-4P32-SC	IS	4	N	0.87	Parallel	YES	S	S	S	S
164	286	Philips-Advance	IOPA-4P32-SC	IS	4	N	0.92	Parallel	YES	C	C	C	C
165	287	Universal Lighting Technologies	B432IUNVHE-A	IS	4	N	0.87	Parallel	YES	C	C	C	C
166	288	Universal Lighting Technologies	B432IUNVHEH-E	IS	4	H	1.15	Parallel	NO	C	C	C	C
167	289	General Electric	GE232MAX-G-L	IS	2	L	0.77	Parallel	YES	C	C	C	C
168	291	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH-SC	IS	4	H		Parallel	NO	NC	NC	NC	NC
169	292	General Electric	GE332MAXP-L/ULTRA	IS	3	L	0.77	Parallel	YES	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
170	293	Universal Lighting Technologies	B232I277RH-A	IS	4	H	1.09	Parallel	NO	NA	P,T	NA	C
171	295	Pacific Fluorescent	EB-232IS-120-RES	IS	2	N	/	Parallel	YES	NC	NA	NC	NA
172	296	OSRAM SYLVANIA	QT 2x32/347 ISH-SC	IS	2	H	1.20	Parallel	NO	NA	C(347V)	NA	C(347V)
173	297	OSRAM SYLVANIA	QHE 1X32T8/UNV ISH-SC	IS	1	L	0.77	NA	YES	NA	NA	C	C
174	298	Philips-Advance	ICN-132-MC	IS	1	N	0.88	NA	YES	NA	NA	NC	NC
175	299	Philips-Advance	ICN-2P16-TLED-N	IS	2	N	/	NA	YES	NC	NC	NC	NC
176	1001	Philips-Advance	ICN-4P16-TLED-N	IS	4	N	/	Parallel	YES	NC	NC	NC	NC
177	1002	ESPEN	VE2P32MVHIPE	IS	2	N	0.89	Parallel	YES	C	C	C	C
178	1003	General Electric	GE232MAX-G-N	IS	2	N	0.88	Parallel	YES	C	C	C	C
179	1004	Universal Lighting Technologies	B332IHRVHB-E	IS	3	H	/	Parallel	NO	S	S	S	S
180	1005	General Electric	GE-232-MAX-H-42T	IS	2	H	/	Parallel	NO	HT	HT	HT	HT
181	1006	General Electric	GE432MAX-H-42T	IS	4	H	/	Parallel	NO	HT	HT	HT	HT
182	1007	Cooper Lighting	CL-432ISUNV-R1-B	IS	4	H	1.18	Parallel	NO	C	C	C	C
183	1008	TCP	E3P32ISUNVHE	IS	3	H	/	Parallel	NO	HT	HT	F	NC
184	1009	General Electric	332MAX-H-84TS	IS	3	H	/	Parallel	NO	HT	HT	HT	HT
185	1010	General Electric	332MAX-H-42T	IS	3	H	/	Parallel	NO	HT	HT	HT	HT
186	1011	General Electric	GE432MAX-G-H	IS	4	H	1.18	Parallel	NO	HT	HT	C	C
187	1012	Philips-Advance	ICN-3P32-SC	IS	3	N	0.89	Parallel	YES	C	C	C	C
188	1013	Philips-Advance	VEL-3P32-SC	IS	3	N	0.88	Parallel	YES	NA	C	NA	C
189	1014	Philips-Advance	REL-2P32-RH-TP	IS	2	H	/	Parallel	NO	P,T	NA	P,T	NA
190	1017	KEYSTONE	KTEB-232-UV-IS-L-P	IS	2	L	/	Parallel	YES	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
191	1020	Universal Lighting Technologies	B3321277RH-A	IS	3	N	0.88	Parallel	YES	NA	P,T	NA	C
192	1021	Philips-Advance	IOPA-2P32-LW-N	IS	2	L	0.76	Parallel	YES	C	C	C	C
193	1022	Philips-Advance	IOPA-4P32-LW-N	IS	4	L	0.76	Parallel	YES	C	C	C	C
194	1023	OSRAM SYLVANIA	QHE 4X32T8/UNV ISH	IS	4	H	/	Parallel	NO	C	C	C	C
195	1025	SYLVANIA	QT 4x32 T8/347 ISN-SC	IS	4	N	/	Parallel	YES	NA	N(347V)	NA	N(347V)
196	1026	OSRAM	QHE 2X32T8/347 ISN-SC	IS	2	H	/	Parallel	NO	NA	C(347V)	NA	C(347V)
197	1027	OSRAM	QHE 4X32T8/347 ISN-SC	IS	4	H	/	Parallel	NO	NA	C(347V)	NA	C(347V)
198	1028	Philips-Advance	IOPA-3P32-LW-SC	IS	3	L	0.78	Parallel	YES	C	C	C	C
199	1029	STANDARD	E232T8IS120-277/N/AS	IS	2	N	0.88	Parallel	YES	C	C	C	C
200	1030	General Electric	GE232MAXP-N/ULTRA	IS	2	/	/	Parallel	YES	C	C	C	C
201	1031	General Electric	GE332MAXP-N/ULTRA	IS	3	/	/	Parallel	YES	C	C	C	C
202	1032	SYLVANIA	QT 2x32277 IS-SC	IS	2	/	/	Parallel	YES	NA	P,T	NA	C
203	1033	General Electric	GE332MAX-NSL84T	IS	3	/	/	Parallel	NO	NC	NC	NC	NC
204	1034	General Electric	GE432MV-N	IS	4	/	/	Parallel	YES	C	C	C	C
205	1035	Philips-Advance	IOP-1P32-LW-N	IS	1	L	0.77	Parallel	YES	NA	NA	C	C
206	1036	Philips-Advance	IOP-1P32-SC	IS	1	N	0.87	Parallel	YES	NA	NA	C	C
207	1037	Philips-Advance	IOP-2P32-LW-SC	IS	2	L	0.77	Parallel	YES	C	T	C	F
208	1038	Philips-Advance	IOP-3P32-LW-SC	IS	3	L	0.77	Parallel	YES	C	F	C	F
209	1039	Philips-Advance	IOP-4P32-LW-SC	IS	4	L	0.77	Parallel	YES	NC	NC	NC	NC
210	1040	Universal Lighting Technologies	B1321UNVEL-A	IS	1	L	0.77	Parallel	YES	NA	NA	C	C
211	1042	SYLVANIA	QT 2X32/347LP	IS	2	/	/	Parallel	NO	NA	N(347V)	NA	N(347V)
212	1043	SYLVANIA	QT 4X32/347LP	IS	4	/	/	Parallel	NO	NA	N(347V)	NA	N(347V)

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
213	1047	Philips-Advance	ICN-3P16-TLED-N	IS	3	N	/	Parallel	YES	NC	NC	NC	NC
214	1050	STANDARD	E432T8IS347/N/ BULK	IS	4	/	/	Parallel		C(347V)	/	C(347V)	/
215	1051	MOTOROLA	M2-IN-T8-GP-D-277	IS	2	/	/	Parallel		/	C	/	C
216	1052	MOTOROLA	M3-IN-T8-GP-A-277	IS	3	/	/	Parallel	YES	/	C	/	C
217	1085	OSRAM SYLVANIA	QT3x32T8/277 ISN-A	IS	3	/	/	Parallel		NA	C	NA	C
224	101	Philips-Advance	IOP-2PSP32-N	PS	2	N	0.94	Parallel	YES	S	S	S	S
225	102	Philips-Advance	IOP-3PSP32-SC	PS	3	N	0.88	Parallel	YES	C	C	C	C
220	103	Philips-Advance	IOP-3PSP32-LW-SC	PS	3	L	0.69	Parallel	YES	NC	NC	NC	NC
221	104	Philips-Advance	IOP-4PSP32-SC (REV A)	PS	4	N	0.89	Parallel	YES	C	C	C	C
222	105	Philips-Advance	IOP-4PSP32-LW-SC	PS	4	L	0.69	Parallel	YES	C	C	C	C
223	106	OSRAM SYLVANIA	QHE 4X32T8/UNV PSX-SC	PRS	4	L	0.71	Parallel	YES	S	S	S	S
224	107	OSRAM SYLVANIA	QHE 2X32T8/UNV PSH-HT	PRS	2	H	1.18	Parallel	NO	C	C	C	C
225	108	Philips-Advance	IOP-2S32-SC	PS	2	N	0.87	Series	YES	NC	NC	NC	NC
226	109	Philips-Advance	IZT-2S32-SC	DPS	2	N	1.00	Series	YES	NC	NC	NC	NC
227	110	ESPEN	VE232MVHRPHT3- AB	DPS	2	H	1.20	Series	NO	S	S	S	S
228	111	PES	PES120DET8	PS	2	N	0.95	Parallel	YES	NC	NA	NC	NA
229	112	Universal Lighting Technologies	B432PUNVHE-A	PS	4	N	0.87	Parallel	YES	C	C	C	C
230	113	General Electric	GE232-MVPS-N	PS	2	N	0.88	Parallel	YES	F	F	F	F
231	115	Universal Lighting Technologies	B232PUNVHE-B	PS	2	N	0.88	Parallel	YES	C	P,T	C	C
232	117	Philips-Advance	IOP-2PSP32-LW-N	PS	2	L	0.71	Parallel	YES	C	C	C	C
233	118	Philips-Advance	IZT-2PSP32-SC	DPS	2	N	1.00	Parallel	YES	S	S	S	S

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
234	119	Universal Lighting Technologies	B332PUNVHE-A	PS	3	N	0.88	Parallel	YES	C	C	C	C
235	120	General Electric	GE-332-MVPS-N	PS	3	N	0.88	Parallel	YES	C	C	C	C
236	121	OSRAM SYLVANIA	QHE 3X32T8/UNV PSN-SC	PRS	3	N	0.88	Parallel	YES	F	F	F	F
237	122	OSRAM SYLVANIA	QTP 3X32T8/UNV PSX-SC	PRS	3	L	0.71	Series	YES	NC	NC	NC	NC
238	123	OSRAM SYLVANIA	QTP3X32T8/UNV PSN-SC	PRS	3	N	0.88	Series	YES	S	S	S	S
239	124	General Electric	GE432-MVPS-N	PS	4	N	0.88	Parallel	YES	NC	NC	NC	NC
240	125	General Electric	GE432MVPS-N-V03	PS	4	N	0.90	Parallel	YES	NC	NC	NC	NC
241	126	OSRAM SYLVANIA	QHE 4X32T8/UNV PSN-SC	PRS	4	N	0.88	Parallel	YES	F	F	F	F
242	127	OSRAM SYLVANIA	QHE 2X32T8/UNV DIM-TC	PRS	2	N	0.88	Series	YES	S	S	S	S
243	128	Watran	DBG32N-MV-TP-PS-HL	PS	3	H	/	Series	NO	S	S	S	S
244	129	General Electric	GE-232-MV-PS-N	PS	2	N	0.88	Parallel	YES	C	C	C	C
245	130	KEYSTONE	KTEB-2C72-1-TP	PS	1	N	0.97	Parallel	YES	NA	NA	NC	NA
246	131	Robertson	RSZ132T8120	PS	1	N	0.80	n.a	YES	NA	NA	NC	NA
247	132	PES	PES120DET8-12SMT	PS	2	N	0.95	Parallel	YES	NC	NA	NC	NA
248	133	SUNPARK	U-1/32PSE	PS	1	N	0.88	n.a	YES	NA	NA	S	S
249	134	SUNPARK	U-2/32PSE	RS	2	N	0.88	Parallel	YES	S	S	S	S
250	135	SUNPARK	U-2/32PSE-HBF	RS	2	H	1.15	Parallel	NO	S	S	S	S
251	136	SUNPARK	U-232PS3	RS	2	N	0.88	Series	YES	S	S	S	S
252	137	SUNPARK	U-232PS3-HBF	RS	2	H	1.15	Series	NO	NC	NC	NC	NC
253	138	Superior Life	70210	PS	2	N	0.88	Parallel	YES	C	C	C	C
254	139	Superior Life	70211	PS	4	N	0.87	Parallel	YES	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
255	140	SUNPARK	SL15T	PS	2	N	0.88	Series	YES	P,T	NA	P,T	NA
256	141	SUNPARK	LC 12011T	PS	1	H	/	NA	NO	NA	NA	S	NA
257	142	SUNPARK	LC 12013T	PS	1	H	/	NA	NO	NA	NA	S	NA
258	143	Ballast Brand	DXE118M8	PRS	1	N	0.92	n.a	YES	NA	NA	NC	NA
259	144	EIKO	PM-3X32T8-UNV-PS	PS	3	N	0.88	Series	YES	S	S	S	S
260	145	EIKO	PM-3X32T8-UNV-PS-H	PS	3	H	1.18	Series	NO	S	S	S	S
261	146	Philips-Advance	REZ-3S32-SC	DPS	3	N	0.97	Series	YES	NC	NA	NC	NA
262	147	LUTRON	EHDT817MU210	DPRS	2	/	/	Series	NO	NC	NC	NC	NC
263	148	General Electric	GE232MVPS-L-S30	DPS	2	N	0.96	Parallel	YES	S	S	S	S
264	149	General Electric	GE132MVPSN-V03	DPS	1	N	0.88	n.a	YES	NA	NA	C	C
265	150	General Electric	GE332MVPSN-V03	DPS	3	N	0.98	Parallel	YES	S	S	S	S
266	151	OSRAM SYLVANIA	QTP2x32T8/UNV DIM-TC	DPS	2	N	0.88	Series	YES	S	S	S	S
267	152	KEYSTONE	KTEB-132-1-TP-FC	RS	1	N	/	NA	YES	NA	NA	P,T	NA
268	153	Universal Lighting Technologies	B332PUNVHEH-A	PS	3	H	1.18	Parallel	NO	C	C	C	C
269	154	Universal Lighting Technologies	B232PU104S50A	PRS	2	H	1.04	Parallel	NO	S	S	S	S
270	155	DAMAR	EL232DIM/120/277HF	DPS	2	L	/	Series	YES	S	S	S	S
271	157	HOWARD INDUSTRIES	EP2/32PRS/MV/MC/HE	PRS	2	N	0.86	Parallel	YES	S	S	S	S
272	158	HOWARD INDUSTRIES	EP4/32PPRS/MV/SC/HE	PRS	4	N	/	Parallel	YES	C	C	C	C
273	159	KEYSTONE	KTEB-126-1-TP-LC	PS	1	N	0.95	n.a	YES	NA	NA	NC	NA
274	160	Philips-Advance	REZ-2S32-SC	DPS	2	N	/	Series	YES	S	NA	S	NA
275	161	OSRAM SYLVANIA	QHE 1X32T8/UNV DIM-TC	DPS	1	N	0.88	na	YES	NA	NA	S	S
276	162	EIKO	PM-2x32T8-UNV-PS-L	PS	2	L	0.78	Series	YES	NC	NC	NC	NC

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT | L15T8G40A, L15T8G50A

						BF				1 LAMP		2 LAMP	
NO.	BALLAST NO.	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	ENCLOSED FIXTURES?	120 VAC	277 VAC	120 VAC	277 VAC
277	163	EIKO	PM-2x32T8-UNV-PS	PS	2	N	0.88	Parallel	YES	S	S	S	S
278	164	EIKO	PM-2x32T8-UNV-PS-H	PS	2	H	1.18	Series	NO	NC	NC	NC	NC
279	165	Philips-Advance	IZT-3PSP32-SC	DPS	3	H	1	Parallel	NO	S	S	S	S
280	166	Philips-Advance	REZ-132-SC	DPS	1	H	1	n.a	NO	NA	NA	S	NA
281	167	Universal Lighting Technologies	B232PUNVHP-A	PS	2	N	0.88	Parallel	YES	NC	NC	NC	NC
282	168	OSRAM SYLVANIA	QHE 3X32T8/UNV PSH-HT-SC	DPS	3	H	1.15	Parallel	NO	C	C	C	C
283	169	OSRAM SYLVANIA	QHE 4X32T8/UNV DIM-TCL	DPS	4	N	0.88	Series	YES	NC	NC	NC	NC
284	170	OSRAM SYLVANIA	QHE 3X32T8/UNV DIM-TCL	DPS	3	N	0.88	Series	YES	NC	NC	NC	NC
285	171	OSRAM	QHE 2x32T8/347 PSN-SC	PRS	2	N	0.88	Parallel	YES	NA	C(347V)	NA	C(347V)
286	172	OSRAM SYLVANIA	QHES 2x32T8/UNV PSL-SC	PRS	2	L	0.71	Parallel	YES	S	S	S	S
287	173	EcoSystem	EC5T832GUNV3L	PRS	3	/	/	Parallel	NO	NC	NC	NC	NC
288	174	Philips-Advance	VZT-4S32-HL	DPS	4	/	/	Parallel	NO	NC	NC	NC	NC
289	175	LUTRON	H3DT832CU210	PRS	2	/	/	Parallel	NO	NC	NC	NC	NC
290	177	Universal Lighting Technologies	B232PUS50-A	PRS	2	/	/	Parallel	NO	NC	NC	NC	NC
291	178	Philips-Advance	IOP-1S32-SC	PS	1	N	0.87	Parallel	YES	NA	NA	NC	NC
292	180	General Electric	GE-332-MVPS-H	PS	3	H	/	Parallel	NO	NC	NC	NC	NC