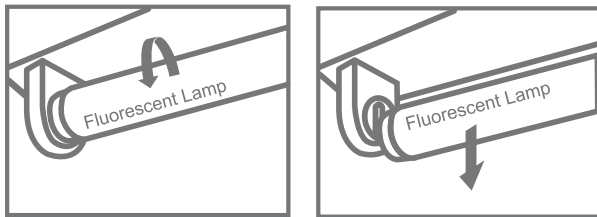
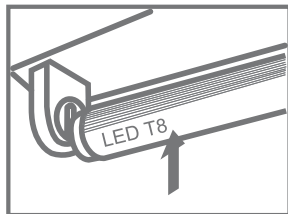


INSTRUCTIONS

- 1) Make Sure Power is OFF
- 2) Remove lens or diffuser (if applicable)
- 3) Remove existing fluorescent lamps from the luminaire.

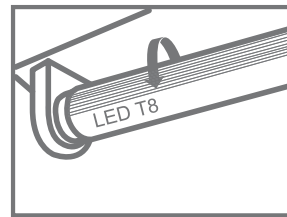


- 4) Bring LED lamp to luminaire and insert lamp pins into luminaire lamp holders.



- 5) Rotate LED lamp until lamp locks in place. Ensure that the LED lamp front points away from the back of the luminaire.

Note: install LED T8 replacement lamp one for each fluorescent lamp removed.



- 6) Place lens or diffuser back in place (if applicable).
- 7) Power ON.
- 8) Check lamp installation after turning power on. If flickering or buzzing is heard turn off power and check that bulb is correctly installed in lamp holders.

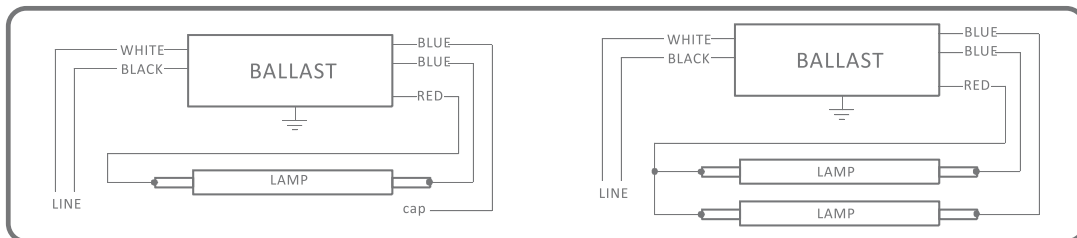
SAFETY

1. Product should be installed by qualified electrician.
2. Switch off the power supply before commencing work, make sure correct connection before power on.
3. **NOT FOR EMERGENCY LIGHTING.**
4. Direct replacement for 32/30/28/25W 48T8 lamps only.
5. **CAUTION: RISK OF FIRE. USE ONLY IN PLACE OF FLUORESCENT LAMPS SPECIFIC ON LABEL.**

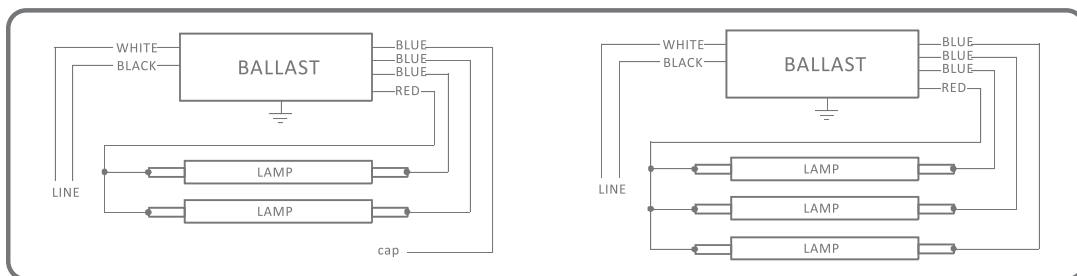
WIRING DIAGRAMS

Instant Start Ballast Wiring Diagram(**Correct**)

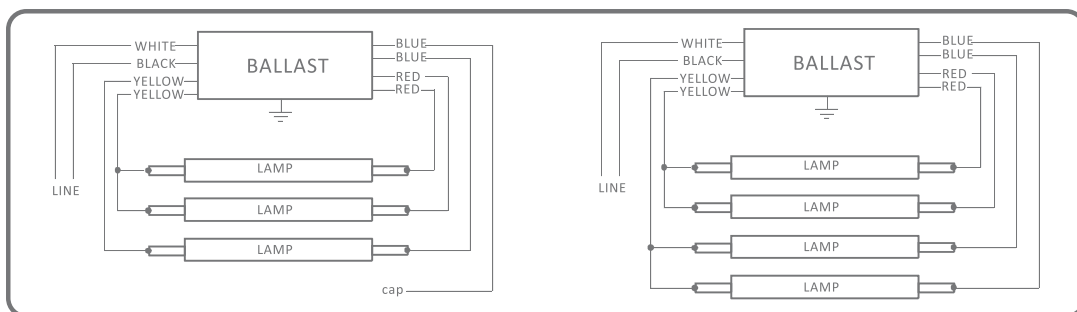
Two Lamps Ballast Correct Wiring



Three Lamps Ballast Correct Wiring

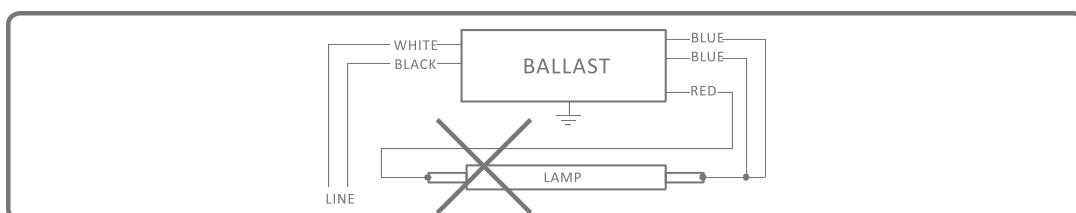


Four Lamps Ballast Correct Wiring



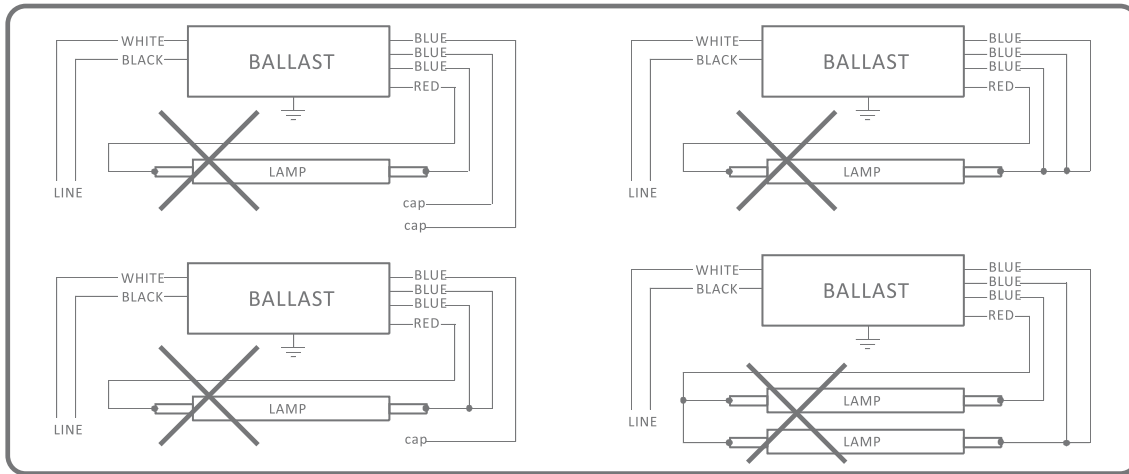
Instant Start Ballast Wiring Diagram(**Incorrect**)

Two Lamps Ballast Incorrect Wiring

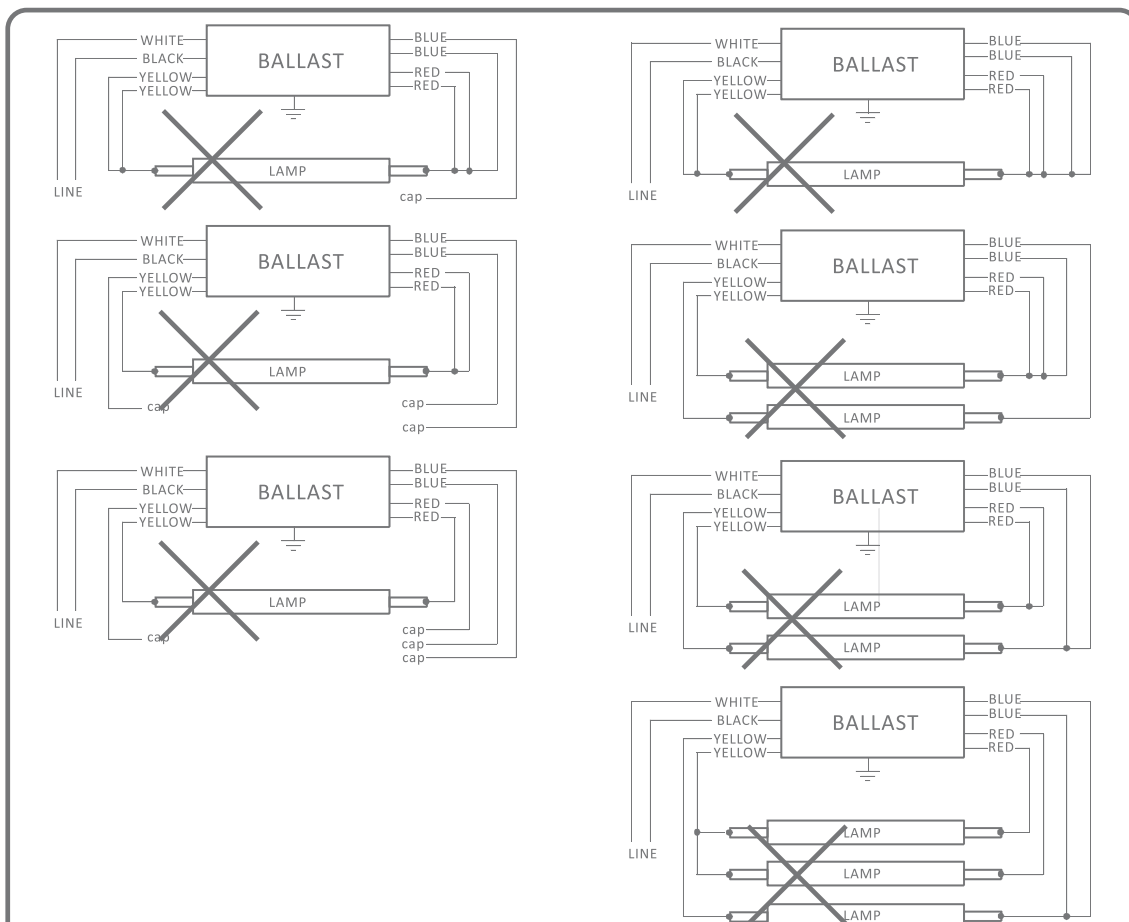


Instant Start Ballast Wiring Diagram(**Incorrect**)

Three Lamps Ballast Incorrect Wiring



Four Lamps Ballast Incorrect Wiring



AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

BALLAST COMPATIBILITY

KEY

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

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

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
1	Philips-Advance	ICN-2P32-N	IS	2	N	0.89	Parallel	C	C	C	C
3	Philips-Advance	IOP-2P32-N	IS	2	N	0.89	Parallel	C	C	C	C
4	Philips-Advance	IOP-2P32-LW-N	IS	2	L	0.77	Parallel	C	C	C	C
5	OSRAM SYLVANIA	QTP 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	C	C	C	C
6	OSRAM SYLVANIA	QHE 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	C	C	C	C
7	OSRAM SYLVANIA	QHE 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	C	C	C	C
8	General Electric	GE-232-MV-N	IS	2	N	0.88	Parallel	C	C	C	C
9	General Electric	GE232MAX-N/ULTRA	IS	2	N	0.88	Parallel	C	C	F	F
10	Universal Lighting Technologies	B232IUNVHP-N	IS	2	N	0.88	Parallel	C	C	C	C
11	Universal Lighting Technologies	B232IUNVEL-A	IS	2	L	0.77	Parallel	C	C	C	C
12	Universal Lighting Technologies	B233IUNVHE-A	IS	2	N	0.87	Parallel	C	C	C	C
13	ESPEN	VE232MVHIPE	IS	2	N	0.89	Parallel	C	C	C	C
14	ESPEN	VE232MVHIPHE	IS	2	H	1.19	Parallel	C	C	C	C
15	Philips-Advance	IOPA-3P32-LW-N	IS	3	L	0.76	Parallel	N	N	N	N
16	OSRAM SYLVANIA	QHE 3X32T8/UNV ISH-SC	IS	3	H	1.18	Parallel	N	N	N	N
17	Philips-Advance	IOPA-4P32-N	IS	4	N	0.87	Parallel	N	N	N	N
18	Philips-Advance	IOPA-4P32-HL-SC	IS	4	H	1.18	Parallel	C	C	C	C
19	Philips-Advance	IOP-4P32-N	IS	4	N	0.87	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
20	Philips-Advance	IOP-4P32-LW-N	IS	4	L	0.77	Parallel	C	C	C	C
21	Philips-Advance	ICN-4P32-N	IS	4	N	0.90	Parallel	C	C	C	C
22	General Electric	GE432MAX-H/ULTRA	IS	4	H	1.18	Parallel	C	C	C	C
23	General Electric	GE432MAX-L/ULTRA	IS	4	L	0.78	Parallel	F	F	F	F
24	OSRAM SYLVANIA	QHE 4X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	C	C	C	C
25	OSRAM SYLVANIA	QHE 4X32T8/UNV ISL-SC	IS	4	L	0.78	Parallel	C	C	C	C
26	Philips-Advance	IOP-1P32-N	IS	1	N	0.89	NA	NC	NC	NC	NC
27	Philips-Advance	IOP-2P32HL-SC	IS	2	H	1.18	Parallel	NC	NC	NC	NC
28	General Electric	GE-232-MAX-H/ Ultra	IS	2	H	1.15	Parallel	NC	NC	NC	NC
29	HOWARD INDUSTRIES	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	NC	NC	NC	NC
30	HOWARD INDUSTRIES	EP3/32IS/MV/SC/HE	IS	3	N	0.87	Parallel	C	C	C	C
31	HOWARD INDUSTRIES	EPL4/32IS/MV/MC/HE	IS	4	L	0.77	Parallel	C	C	C	C
32	ProLume	EP232IS/L/MV/SL	IS	2	L	0.78	Parallel	F	F	C	C
33	ProLume	E432IS/120/R/SL	IS	4	N	0.87	Parallel	C	NA	C	NA
34	General Electric	GE432MAX-G-N	IS	4	N	0.88	Parallel	C	C	C	C
35	Universal Lighting Technologies	B432IUNVHE L-A	IS	4	L	0.77	Parallel	C	C	C	C
36	OSRAM SYLVANIA	QTP 4x32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	C	PT	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
37	Philips-Advance	ICN-1P32-N	IS	1	N	0.91	NA	NA	NA	NC	NC
38	Philips-Advance	IOPA-1P32-N	IS	1	N	0.88	NA	NC	NC	NC	NC
39	General Electric	GE132MAX-G-N	IS	1	N	0.88	NA	NA	NA	NC	NC
40	General Electric	GE132MAX-H/ULTRA	IS	1	H	1.18	NA	NA	NA	C	C
41	General Electric	GE132MAX-L/ULTRA	IS	1	L	0.78	NA	NA	NA	NC	NC
42	General Electric	GE132MAXP-N/ ULTRA	IS	1	N	0.88	NA	NA	NA	C	C
43	OSRAM SYLVANIA	QHE 1X32T8/UNV ISN-SC	IS	1	N	0.88	NA	NA	NA	C	C
44	OSRAM SYLVANIA	QHE 1X32T8/UNV ISL-SC	IS	1	L	0.78	NA	NA	NA	C	C
46	ESPEN	VE232MVHIPLE	IS	2	L	0.77	Parallel	C	C	C	C
48	Philips-Advance	REB-2P32-SC	IS	2	N	0.88	Parallel	C	NA	C	NA
49	General Electric	GE232MV-N-DIY	IS	2	N	0.88	Parallel	C	C	C	C
51	General Electric	GE232MAX-L/ULTRA	IS	2	L	0.78	Parallel	C	C	C	C
52	General Electric	GE232MAX347-N	IS	2	H	1.02	Parallel	NA	F,P,T (347V)	NA	F,P,T (347V)
53	Halco	EP232IS/MV/HE	IS	2	N	0.88	Parallel	C	C	C	C
54	Universal Lighting Technologies	B232IUNVHEH-A	IS	2	N	118.00	Parallel	C	C	C	C
55	OSRAM SYLVANIA	QHE 2X32T8/UNV ISH-SC	IS	2	H	1.20	Parallel	P,T	P,T	N,P,T	P,T
56	HOWARD INDUSTRIES	EPH2/321S/MV/MC/ HE	IS	2	H	1.18	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
58	MAXLITE	SKEU322HEL/SC	IS	2	L	0.77	Parallel	C	C	C	C
59	KEYSTONE	KTEB-232-UV-IS-N-P	IS	2	N	0.87	Parallel	C	C	C	C
61	Philips-Advance	IOPA-3P32-N	IS	3	N	0.86	Parallel	C	C	C	C
62	Philips-Advance	IOP-3P32-N	IS	3	N	0.87	Parallel	C	C	C	C
63	General Electric	GE332MV-N	IS	3	N	0.87	Parallel	C	C	C	C
64	General Electric	GE332MAX-N/ULTRA	IS	3	N	0.88	Parallel	C	C	C	C
65	General Electric	GE332MAX-L/ULTRA	IS	3	L	0.78	Parallel	C	C	C	C
66	General Electric	GE332MAX-G-N	IS	3	N	0.87	Parallel	C	C	C	C
67	General Electric	GE332MAXP-H/ ULTRA	IS	3	H	1.18	Parallel	C	C	C	C
68	OSRAM SYLVANIA	QTP 3X32T8/UNV ISN-SC	IS	3	N	0.88	Parallel	C	C	C	C
69	OSRAM SYLVANIA	QHE 3X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	C	C	C	C
70	OSRAM SYLVANIA	QHE 3X32T8/UNV ISL-SC	IS	3	L	0.78	Parallel	C	C	C	C
71	Universal Lighting Technologies	B332IUNVHP-A	IS	3	N	0.88	Parallel	C	C	C	C
72	MAXLITE	SKEU324HE/SC	IS	4	N	0.88	Parallel	C	C	C	C
73	MAXLITE	SKEU323L/SC	IS	3	L	0.78	Parallel	C	C	C	C
74	Halco	EP332IS/MV/HE	IS	3	N	0.87	Parallel	C	C	C	C
76	Universal Lighting Technologies	B432IUNVHP-A	IS	4	N	0.88	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
80	Philips-Advance	IOP-4P32-HL-SC	IS	4	H	1.18	Parallel	NC	NC	NC	NC
81	General Electric	GE432-120-RES	IS	4	N	0.83	Parallel	C	NA	C	NA
82	General Electric	GE432MV-N-42T	IS	4	N	0.93	Parallel	C	C	C	C
83	General Electric	GE432MAX-N/ULTRA	IS	4	N	0.88	Parallel	C	C	C	C
84	General Electric	GE432MAX347-N	IS	4	N	0.94	Parallel	NA	C, (347V)	NA	C, (347V)
85	MAXLITE	MLEU322HEL/SC	IS	2	N	0.83	Parallel	C	C	C	C
86	MAXLITE	MLEU323H/SC	IS	3	H	1.18	Parallel	S	S	S	S
87	TCP	E2P32ISUNVHE	IS	2	H	1.18	Parallel	S	S	S	S
88	TCP	E4P32ISUNVLE	IS	4	L	0.78	Parallel	F	F	F	F
89	Universal Lighting Technologies	B232I120RES-A	IS	2	N	0.88	Parallel	T	NA	T	NA
91	General Electric	GE232MAXP90-V60	IS	2	H	1.18	Parallel	C	P,T	C	P,T
92	HOWARD INDUSTRIES	E2/32IS-120MC	IS	2	N	0.85	Parallel	P,T	NA	C	NA
93	HOWARD INDUSTRIES	EPL2/32IS/MV/MC/HE	IS	2	L	0.78	Parallel	C	P,T	C	C
94	PLUSRITE	BAF232IS/MV	IS	2	N	0.89	Parallel	C	C	C	C
95	General Electric	GE332MAXP90-V60	IS	3	H	1.18	Parallel	C	C	C	C
96	General Electric	GE432MAXP90-S60	IS	4	H	1.18	Parallel	NC	NC	NC	NC
97	EIKO	PM-2X32T8-UNV-IS-L	IS	2	L	0.77	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
98	EIKO	PM-3X32T8-UNV-IS	IS	3	N	0.87	Parallel	C	C	C	C
99	EIKO	PM-3X32T8-UNV-IS-H	IS	3	H	1.18	Parallel	C	C	C	C
200	EIKO	PM-3X32T8-UNV-IS-L	IS	3	L	0.78	Parallel	C	C	C	C
201	HOWARD INDUSTRIES	EPL3/32IS/MV/SC/HE	IS	3	L	0.78	Parallel	C	C	C	C
202	PLUSRITE	BAF332IS/MV	IS	3	N	0.88	Parallel	C	C	C	C
203	TCP	E3P32ISUNVE	IS	3	N	0.88	Parallel	C	C	C	C
204	TCP	E3P32ISUNVLE	IS	3	L	0.78	Parallel	C	F	C	C
205	TCP	E4P32ISUNVE	IS	4	N	0.88	Parallel	C	C	C	C
206	TCP	E4P32ISUNVHE	IS	4	N	1.18	Parallel	C	C	C	C
207	HOWARD INDUSTRIES	EP4/32IS/MV/MC/HE	IS	4	N	0.88	Parallel	C	C	C	C
210	EIKO	PM-4X32T8-UNV-IS	IS	4	N	0.88	Parallel	C	C	C	C
211	EIKO	PM-4X32T8-UNV-IS-L	IS	4	L	0.78	Parallel	C	C	C	C
212	Universal Lighting Technologies	B132IUNVHP-N	IS	1	N	0.88	NA	NA	NA	C	C
213	SOLA	E-758-U-232-MC	IS	2	N	0.88	Parallel	C	C	C	C
214	HOWARD INDUSTRIES	EP2/32IS/MV/MC/HE	IS	2	N	0.89	Parallel	C	C	C	C
215	HOWARD INDUSTRIES	EP3 32IS/MV/MC/HE	IS	3	N	0.88	Parallel	C	C	C	C
216	WORK HORSE	WHS3-UNV-T8-IS	IS	3	N	0.99	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
217	WORK HORSE	WHSG4-UNV-T8-IS	IS	4	N	0.96	Parallel	C	C	C	C
218	KEYSTONE	KTEB-432RIS-1-TP-SL	IS	4	N	0.80	Parallel	C	NA	C	NA
219	MAXLITE	MLEU324HE/SC	IS	4	N	0.88	Parallel	C	C	C	C
220	SUNPARK	120-1/32IS HPF	IS	1	N	0.88	NA	NA	NA	C	NA
221	Superior Life	70201	IS	2	N	0.88	Parallel	C	C	C	C
222	SUNPARK	U-2/32IS HBF	IS	2	H	1.18	Parallel	C	C	C	C
223	SUNPARK	U-2/32ISE-LBF	IS	2	L	0.78	Parallel	C	C	C	C
224	SUNPARK	U-3/32ISE	IS	3	N	0.88	Parallel	C	C	C	C
225	SUNPARK	U-3/32ISE-HBF	IS	3	H	1.18	Parallel	C	C	C	C
226	SUNPARK	120-3/32IS MPF	IS	3	N	0.88	Parallel	P,T	NA	P,T	NA
227	SUNPARK	U-4/32IS HP,F	IS	4	N	0.88	Parallel	C	C	C	C
228	SUNPARK	U-4/32IS HBF	IS	4	H	1.18	Parallel	C	C	C	C
229	SUNPARK	U-4/32ISE-LBF	IS	4	L	0.77	Parallel	C	C	C	C
231	EIKO	PM-2X32T8-UNV-IS	IS	2	N	0.87	Parallel	C	C	C	C
232	KEYSTONE	KTEB-332-UV-IS-N-P	IS	3	N	0.87	Parallel	C	C	C	C
233	KEYSTONE	KTEB-432-UV-IS-N-P	IS	4	N	0.87	Parallel	C	C	C	C
234	General Electric	GE432MAX-H/ULTRA	IS	4	H	1.18	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
235	Philips-Advance	ICN-3P32-N	IS	3	N	0.88	Parallel	N	N	N	N
236	Halco	EP232IS/L/MV/HE	IS	2	L	0.78	Parallel	C	C	C	C
237	Halco	EP232IS/H/MV/HE	IS	2	H	1.18	Parallel	C	C	C	C
238	Halco	EP332IS/L/MV/HE	IS	3	L	0.78	Parallel	C	C	C	C
239	Halco	EP432IS/120/MC	IS	4	n	0.88	Parallel	C	C	C	C
240	Philips-Advance	VEL-2P32-SC	IS	2	N	0.88	Parallel	NA	C	NA	C
241	Universal Lighting Technologies	B232IUNVHP-B	IS	2	N	0.88	Parallel	C	C	C	C
242	OSRAM SYLVANIA	QTP2x32T8/277 ISN-D	IS	2	L	0.78	Parallel	NA	C	NA	C
243	KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	IS	2	N	0.88	Parallel	S	NA	S	NA
244	HATCH	HL232BIS/UV/HE/W	IS	2	N	0.9	Parallel	C	C	C	C
245	HATCH	HL432BIS/UV/HE/W	IS	4	N	0.9	Parallel	C	C	C	C
246	HOWARD INDUSTRIES	EPH3/32IS/MV/MC/HE	IS	3	N	0.91	Parallel	C	C	C	C
247	ARCATA	ACT 3P32ISUNVLE	IS	3	L	0.78	Parallel	C	C	C	C
248	LIGHTING PRODUCTS LIMITED	EB-332EBF-UV-TP-HE	IS	3	L	0.78	Parallel	C	C	C	C
249	General Electric	GE432MAX90-S60	IS	4	H	1.18	Parallel	C	C	C	C
250	KEYSTONE	KTEB-232-UV-IS-H-P	IS	2	H	1.18	Parallel	C	C	C	C
251	KEYSTONE	KTEB-332-UV-IS-H-P	IS	3	H	1.18	Parallel	C	C	C	C

AM CONSERVATION GROUP//COMMERCIAL LIGHTING

LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
252	KEystone	KTEB-432-UV-IS-H-P	IS	4	H	1.18	Parallel	C	C	C	C
253	TOPAZ	B232IUNVHEH/A-TPZ	IS	2	H	1.18	Parallel	C	C	C	C
254	TOPAZ	B432IUNVHEH/A-TPZ	IS	4	H	1.18	Parallel	C	C	C	C
255	Universal Lighting Technologies	B232IUNV-C	IS	2	N	0.88	Parallel	C	C	C	C
256	DAMAR	EL232-120/277HF(1688B)	IS	2	N	/	Parallel	C	C	C	C
257	DAMAR	EL232HL-120/277HF(1688D)	IS	2	H	/	Parallel	C	C	C	C
258	DAMAR	EL332-120/277HF(3654C)	IS	3	N	/	Parallel	C	C	C	C
259	DAMAR	EL332HL-120/277HF(3654H)	IS	3	H	/	Parallel	C	C	C	C
260	DAMAR	EL432-120/277HF(3093B)	IS	4	N	/	Parallel	C	C	C	C
261	DAMAR	EL432HL-120/277HF(3093C)	IS	4	H	/	Parallel	C	C	C	C
262	Philips-Advance	IOPA-2P32-HL-N	IS	2	H	1.18	Parallel	F	F	F	F
263	Plusrite	BAF232IS/MV/L	IS	2	L	0.78	Parallel	C	C	C	C
264	Plusrite	BAF332IS/MV/L	IS	3	L	0.78	Parallel	C	C	C	C
265	Plusrite	BAF432IS/MV	IS	4	N	0.88	Parallel	C	C	C	C
266	Plusrite	BAF432IS/MV/L	IS	4	L	0.78	Parallel	C	C	C	C
267	OSRAM SYLVANIA	QT2X32/120 IS-SC	IS	2	N	0.9	Parallel	P,T	NA	C	NA
268	Watran	DB-232N-MV-TP-HE	IS	2	N	0.87	Parallel	C	C	C	C

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LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
269	Watran	DB-332N-MV-TP-HE	IS	3	N	0.87	Parallel	C	C	C	C
270	Watran	DB-432N-MV-TP-HE	IS	4	N	0.87	Parallel	C	C	C	C
271	Watran	DB-432L-MV-TP-HE	IS	4	L	0.77	Parallel	C	C	C	C
272	Watran	DB-232N-MV-TP-HE SC	IS	2	N	0.87	Parallel	C	C	C	C
273	ACT	ACT 2P32ISUNVE	IS	2	N	0.89	Parallel	C	C	C	C
274	ANTRON ELECTRONICS	A32T8MICLO	IS	2	L	0.78	Parallel	C	C	C	C
277	EIKO	PM-2x32T8-UNV-IS-H	IS	2	H	1.18	Parallel	HT	HT	HT	HT
279	OSRAM SYLVANIA	QHE 3x32T8/UNV ISH HT-SC	IS	3	H	1.18	Parallel	C	C	C	C
280	Philips-Advance	VEL-2P32-RH-TP	IS	2	N	/	Parallel	NA	P,T	NA	C
281	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH HT-1	IS	4	H	1.18	Parallel	C	C	C	C
282	Philips-Advance	IOP-3P32HL-90C-SC	IS	3	H	1.22	Parallel	NC	NC	NC	NC
283	TCP	TCP3P32ISUNVH	IS	3	H	1.18	Parallel	C	C	C	C
284	Philips-Advance	IOP-4P32-SC	IS	4	N	0.87	Parallel	S	S	S	S
286	Philips-Advance	IOPA-4P32-SC	IS	4	N	0.92	Parallel	C	C	C	C
287	Universal Lighting Technologies	B432IUNVHE-A	IS	4	N	0.87	Parallel	C	C	C	C
288	Universal Lighting Technologies	B432IUNVHEH-E	IS	4	H	1.15	Parallel	C	C	C	C
289	General Electric	GE232MAX-G-L	IS	2	L	0.77	Parallel	C	C	C	C

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LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
290	OSRAM SYLVANIA	QHE 2X32T8/UNV ISH HT-SC	IS	2	H	/	Parallel	C	C	C	C
291	OSRAM SYLVANIA	QHE 4x32T8/UNV ISH-SC	IS	4	H	/	Parallel	C	C	C	C
292	General Electric	GE332MAXP-L/ULTRA	IS	3	L	0.77	Parallel	C	C	C	C
293	Universal Lighting Technologies	B232I277RH-A	IS	4	H	1.09	Parallel	NA	HT,T	NA	C
295	Pacific Fluorescent	EB-232IS-120-RES	IS	2	N	/	Parallel	P,T	NA	F	NA
296	OSRAM SYLVANIA	QT 2x32/347 ISH-SC	IS	2	H	1.20	Parallel	NA	NA	NA	C, (347V)
297	OSRAM SYLVANIA	QHE 1X32T8/UNV ISH-SC	IS	1	L	0.77	NA	NA	NA	C	P,T
298	Philips-Advance	ICN-132-MC	IS	1	N	0.88	NA	NA	NA	F	F
299	Philips-Advance	ICN-2P16-TLED-N	IS	2	N	1.18	NA	C	C	C	C
1001	Philips-Advance	ICN-4P16-TLED-N	IS	4	N	/	Parallel	C	C	C	C
1002	ESPEN	VE2P32MVHIPE	IS	2	N	0.89	Parallel	C	C	C	C
1003	General Electric	GE232MAX-G-N	IS	2	N	0.88	Parallel	C	C	C	C
1004	Universal Lighting Technologies	B332IHRVHB-E	IS	3	H	/	Parallel	S	S	S	S
1005	General Electric	GE-232-MAX-H-42T	IS	2	H	/	Parallel	HT	HT	HT	HT
1006	General Electric	GE432MAX-H-42T	IS	4	H	/	Parallel	C	T	C	T
1007	Cooper Lighting	CL-432ISUNV-R1-B	IS	4	H	1.18	Parallel	C	C	C	C
1008	TCP	E3P32ISUNVHE	IS	3	H	/	Parallel	C	C	C	C

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LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
1009	General Electric	332MAX-H-84TS	IS	3	H	/	Parallel	C	C	C	C
1010	General Electric	332MAX-H-42T	IS	3	H	/	Parallel	C	C	C	C
1011	General Electric	GE432MAX-G-H	IS	4	H	1.18	Parallel	C	C	C	C
1012	Philips-Advance	ICN-3P32-SC	IS	3	N	0.89	Parallel	C	C	C	C
1013	Philips-Advance	VEL-3P32-SC	IS	3	N	0.88	Parallel	C	C	C	C
1014	Philips-Advance	REL-2P32-RH-TP	IS	2	H	/	Parallel	C	C	C	C
1015	Philips-Advance	GOPA-2P32-N	IS	2	N	/	Parallel	C	C	C	C
1016	Philips-Advance	IOPA-4P32-HL	IS	4	H	1.18	Parallel	C	C	C	C
1018	SYLVANIA	QT 3x32/277 IS	IS	3		Parallel	Parallel	NA	C	NA	C
102	Philips-Advance	IOP-3PSP32-SC	PS	3	N	0.88	Parallel	C	C	C	C
104	Philips-Advance	IOP-4PSP32-SC	PS	4	N	0.89	Parallel	C	C	C	C
105	Philips-Advance	IOP-4PSP32-LW-SC	PS	4	L	0.69	Parallel	C	C	C	C
112	Universal Lighting Technologies	B432PUNVHE-A	PS	4	N	0.87	Parallel	C	C	C	C
113	General Electric	GE232-MVPS-N	PS	2	N	0.88	Parallel	C	C	C	C
116	OSRAM SYLVANIA	QHE 2X32T8/UNV PSN-MC	PRS	2	N	0.88	Parallel	C	C	C	C
120	General Electric	GE-332-MVPS-N	PS	3	N	0.88	Parallel	C	C	C	C
121	OSRAM SYLVANIA	QHE 3X32T8/UNV PSN-SC	PRS	3	N	0.88	Parallel	C	C	C	C

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LED T8 | UL TYPE A | DIRECT REPLACEMENT L12T8G35A - L12T8G50A SERIES

					BF			N-1 LAMP		N LAMP	
BALLAST #	BRAND	PART #	START METHOD	# OF LAMPS	TYPE	VALUE	LAMP CONNECTION	120 VAC	277 VAC	120 VAC	277 VAC
126	OSRAM SYLVANIA	QHE 4X32T8/UNV PSN-SC	PRS	4	N	0.88	Parallel	C	C	C	C
128	Watran	DBG32N-MV-TP-PS-HL	PS	3	H	/	/	S	S	S	S
129	General Electric	GE-232-MV-PS-N	PS	2	N	0.88	Parallel	C	C	C	C
140	SUNPARK	SL15T	PS	2	N	0.88	Series	S	NA	S	NA