

<b>Manufacturers' Cross Reference</b>				
<b>ELECTRONIC FLUORESCENT LAMP BALLASTS</b>				
	<b>OSRAM SYLVANIA</b>	<b>ADVANCE</b>	<b>U.L.T. (formerly Magnetek) Universal Lighting Technologies</b>	<b>HOWARD</b>
<b>QUICKTRONIC® 32 T8 INSTANT START</b>				
<b>32 T8 Instant Start - Normal Ballast Factor - Small Can - &lt;20% THD</b>				
49911	QT1x32T8/120ISN-SC	REL-1P32-SC	B132I120RH-A	E1/32IS-120SC
49912	QT1x32T8/277ISN-SC	VEL-1P32-SC	B132I277RH-A	E1/32IS-277SC
49913	QT2x32T8/120ISN-SC	REL-2P32-SC	B232I120RH-A	E2/32IS-120SC
49914	QT2x32T8/277ISN-SC	VEL-2P32-SC	B232I277RH-A	E2/32IS-277SC
49915	QT3x32T8/120ISN-SC	REL-3P32-SC	B332I120RH-A	E3/32IS-120SC
49916	QT3x32T8/277ISN-SC	VEL-3P32-SC	B332I277RH-A	E3/32IS-277SC
49917	QT4x32T8/120ISN-SC	REL-4P32-SC	B432I120RH-A	E4/32IS-120SC
49918	QT4x32T8/277ISN-SC	VEL-4P32-SC	B432I277RH-A	E4/32IS-277SC
49240	QT2x32T8/347ISN-SC	GEL-2P32-SC	B232I347RH (F-Can)	E2/32IS-347 (F-Can)
49994	QT4x32T8/347ISN-SC	GEL-4P32-RH-TP (F-Can)	B432I347RH (F-Can)	E4/32IS-347 (F-Can)
<b>32 T8 Instant Start - Normal Ballast Factor - Standard "F" Can - &lt;20% THD * Gray shaded models below will be replaced by appropriate SC models above.</b>				
49515*	QT3x32/120IS	REL-3P32-RH-TP	B332I120RH	E3/32IS-120
49516*	QT3x32/277IS	VEL-3P32-RH-TP	B332I277RH	E3/32IS-277
49517*	QT4x32/120IS	REL-4P32-RH-TP	B432I120RH	E4/32IS-120
49518*	QT4x32/277IS	VEL-4P32-RH-TP	B432I277RH	E4/32IS-277
49593* (49993)	QT3x32/347IS (new SC model)	GEL-3P32-RH-TP	B332I347RH	E3/32IS-347
49594*	QT4x32/347IS	GEL-4P32-RH-TP	B432I347RH	E4/32IS-347
<b>32 T8 Instant Start - High Ballast Factor - "PLUS" High Light Output Systems - Small Can/Standard "F" Can - &lt;20% THD</b>				
<b>(High Ballast Factor ballasts may vary greatly in ballast factor between manufacturers/models - please refer to actual specs for details)</b>				
49923	QT2x32T8/120ISH-SC	REL-2P32-HL-SC	B232I120RHH	EH2/32IS-120
49924	QT2x32T8/277ISH-SC	VEL-2P32-HL-SC	B232I277RHH	EH2/32IS-277
49525	QT3x32/120PLUS	REL-3P32-HL	B332I120RHH	EH3/32IS-120
49526	QT3x32/277PLUS	VEL-3P32-HL	B332I277RHH	EH3/32IS-277
<b>32 T8 Instant Start - Low Ballast Factor - Low Power(LP/SL) Systems - SmallCan/Standard "F" Can - &lt;20% THD</b>				
49931	QT1x32T8/120ISL-SC	REL-1P32-LW-SC	N/A	EL1/32IS-120
49932	QT1x32T8/277ISL-SC	VEL-1P32-LW-SC	N/A	EL1/32IS-277
49933	QT2x32T8/120ISL-SC	REL-2P32-LW-SC	B232I120L-A	EL2/32IS-120
49934	QT2x32T8/277ISL-SC	VEL-2P32-LW-SC	B232I277L-A	EL2/32IS-277
49935	QT3x32T8/120ISL-SC	REL-3P32-LW-SC	B332I120L-A	EL3/32IS-120
49936	QT3x32T8/277ISL-SC	VEL-3P32-LW-SC	B332I277L-A	EL3/32IS-277
49537	QT4x32/120LP	REL-4P32-LW-RH-TP	B432I120L	EL4/32IS-120
49538	QT4x32/277LP	VEL-4P32-LW-RH-TP	B432I277L	EL4/32IS-277
49241	QT2x32T8/347ISL-SC	GEL-2P32-LW-RH-TP	B232I347L	N/A
49225	QT4x32/347LP	GEL-4P32-LW-RH-TP	B432I347L	N/A
<b>QUICKTRONIC® PROFESSIONAL 32 T8 INSTANT START UNIVERSAL VOLTAGE SYSTEMS</b>				
<b>32 T8 Instant Start - Normal Ballast Factor - Small Can - &lt;10% THD</b>				
49941	QTP1x32T8/UNVISN-SC	ICN-1P32-SC	B132IUNVHP-B	EP1/32IS/120-277
49943	QTP2x32T8/UNVISN-SC	ICN-2P32-SC	B232IUNVHP-B	EP2/32IS/120-277
49945	QTP3x32T8/UNVISN-SC	ICN-3P32-SC	B332IUNVHP-A	EP3/32IS/120-277
49947	QTP4x32T8/UNVISN-SC	ICN-4P32-SC	B432IUNVHP-A	EP4/32IS/120-277
	<b>OSRAM SYLVANIA</b>	<b>ADVANCE</b>	<b>U.L.T. (formerly Magnetek) Universal Lighting Technologies</b>	<b>GE</b>
<b>32 T8 High Efficiency Instant Start- Normal Ballast Factor - Small Can - &lt;10% THD</b>				
49851	QHE 1X32T8/UNV ISN-SC	N/A	N/A	GE-132-MAX-N/ULTRA
49853	QHE 2X32T8/UNV ISN-SC	N/A	B232IUNVHE-A	GE-232-MAX-N/ULTRA
49855	QHE 3X32T8/UNV ISN-SC	N/A	B332IUNVHE-A	GE-332-MAX-N/ULTRA
49857	QHE 4X32T8/UNV ISN-SC	N/A	B432IUNVHE-A	GE-432-MAX-N/ULTRA
<b>32 T8 High Efficiency Instant Start- Low Ballast Factor - Small Can - &lt;10% THD</b>				
49861	QHE 1X32T8/UNV ISL-SC	N/A	N/A	GE-132-MAX-L/ULTRA
49863	QHE 2X32T8/UNV ISL-SC	N/A	B232IUNVEL-A	GE-232-MAX-L/ULTRA
49865	QHE 3X32T8/UNV ISL-SC	N/A	B332IUNVEL-A	GE-332-MAX-L/ULTRA
49867	QHE 4X32T8/UNV ISL-SC	N/A	B432IUNVEL-A	GE-432-MAX-L/ULTRA
<b>32 T8 Programmed Rapid Start - Normal Ballast Factor - &lt;10% THD</b>				

51400	QTP1x32T8/UNVPSN-TC	N/A	B132PUNVHP-A	N/A
51405	QTP2x32T8/UNVPSN-TC	IOP-2S32-SC	B232PUNVHP-A	N/A
51410	QTP3x32T8/UNVPSN-SC	N/A	B332PUNVHP-A	N/A
51415	QTP4x32T8/UNVPSN-SC	N/A	B432PUNVHP-A	N/A
<b>QUICKTRONIC® PROFESSIONAL 32 T8 PROStart® DEDICATED VOLTAGE SYSTEMS</b>				
<b>32 T8 Programmed Rapid Start - Normal Ballast Factor - &lt;10% THD</b>				
(Programmed RS, Program RS)				
50804	QTP1x32T8/120PSN-TC	RIC-132, RCN-1S32-SC	B132P120RH	N/A
50806	QTP1x32T8/277PSN-TC	VIC-132, VCN-1S32-SC	B132P277RH	N/A
50814	QTP2x32T8/120PSN-SC	RIC-2S32, RCN-2S32-SC	B232P120RH	N/A
50824	QTP2x32T8/277PSN-SC	VIC-2S32, VCN-2S32-SC	B232P277RH	N/A
50830	QTP3x32T8/120PSN-SC	RIC-3S32, RCN-3S32-SC	B332P120RH	N/A
50840	QTP3x32T8/277PSN-SC	VIC-3S32, VCN-3S32-SC	B332P277RH	N/A
50850	QTP4x32T8/120PSN-SC	RCN-4S32-SC	B432P120RH	N/A
50860	QTP4x32T8/277PSN-SC	VCN-4S32-SC	B432P277RH	N/A
<b>QUICKTRONIC® 59 T8, 59 PLUS, and QUICKTRONIC® PROFESSIONAL 8 foot Systems</b>				
<b>59W F96 T8 Instant Start - Normal Ballast Factor - &lt;20% THD</b>				
49581	QT2x59/120IS	REL-2P59-S-RH-TP	B259I120RH	E2/59IS-120
49582	QT2x59/277IS	VEL-2P59-S-RH-TP	B259I277RH	E2/59IS-277
49217	QT2x59/347IS	GEL-2P59	N/A	N/A
<b>59W F96 T8 Instant Start - High Ballast Factor (PLUS) Systems - &lt;20% THD</b>				
49583	QT2x59/120PLUS	REL-2P59-HL	B259I120RHH	N/A
49584	QT2x59/277PLUS	VEL-2P59-HL	B259I277RHH	N/A
<b>59W F96 T8 Instant Start - Normal Ballast Factor - &lt;10% THD - ** QTP2X59T8/UNV ISN-SC model replaces gray shaded models below</b>				
50280	QTP2x59T8/120ISN-A	RCN-2P59	B259I120HE	N/A
50290	QTP2x59T8/277ISN-A	VCN-2P59	B259I277HE	N/A
<b>59W F96 T8 Instant Start - Normal Ballast Factor - &lt;10% THD - Universal Voltage</b>				
49598**	QTP2X59T8/UNV ISN-SC	N/A	B259IUNVHP-A	N/A
<b>QUICKTRONIC® PROFESSIONAL T5 HO PROStart® UNIVERSAL VOLTAGE SYSTEMS</b>				
<b>T5 HO - Normal Ballast Factor - &lt;10% THD</b>				
<b>(Ballast Can Size varies between manufacturers - please refer to specifications for details)</b>				
49101	QTP1x39-24T5HO/UNVPSN (FP39T5HO)	ICN-2S39 (1 Lamp)	B239PUNV-D (1 Lamp)	N/A
49111	QTP2x39-24T5HO/UNVPSN (FP39T5HO)	ICN-2S39	B239PUNV-D	N/A
49101	QTP1x39-24T5HO/UNVPSN (FP24T5HO)	ICN-2S24 (1 Lamp)	B224PUNV-C (1 Lamp)	N/A
49111	QTP2x39-24T5HO/UNVPSN (FP24T5HO)	ICN-2S24	B224PUNV-C	N/A
49121	QTP1x54T5HO/UNVPSN	ICN-2S54 (1 Lamp)	B254PUNV-D (1 Lamp)	N/A
49131	QTP2x54T5HO/UNVPSN	ICN-2S54	B254PUNV-D	N/A
49151	QTP1x80T5HO/UNVPSN	ICN-1S80	N/A	N/A
<b>QUICKTRONIC® PROFESSIONAL T5 PROStart® UNIVERSAL VOLTAGE SYSTEMS</b>				
<b>28W T5 - Normal Ballast Factor - &lt;10% THD</b>				
<b>(Ballast Can Size varies between manufacturers - please refer to specifications for details)</b>				
49171	QTP1x28T5/UNVPSN	ICN-2S28 (1 Lamp)	B228PUNV-C (1 Lamp)	N/A
49181	QTP2x28T5/UNVPSN	ICN-2S28	B228PUNV-C	N/A
<b>QUICKTRONIC® Instant Start DL40</b>				
<b>40W TT5 Instant Start - Normal Ballast Factor - &lt;20% THD</b>				
49641	QT1x40/120DL	N/A	C240I120RH, C240SI120RH (1 LAMP)	E1/40IS-TT-120
49642	QT1x40/277DL	N/A	C240I277RH, C240SI277RH (1 LAMP)	E1/40IS-TT-277
49643	QT2x40/120DL	N/A	C240I120RH, C240SI120RH	E2/40IS-TT-120
49644	QT2x40/277DL	N/A	C240I277RH, C240SI277RH	E2/40IS-TT-277
49645	QT3x40/120DL	N/A	C340I120RH, C340SI120RH	E3/40IS-TT-120
49646	QT3x40/277DL	N/A	C340I277RH, C340SI277RH	E3/40IS-TT-277
<b>QUICKTRONIC® PROFESSIONAL PROStart® DL40</b>				
<b>40W TT5 Programmed RapidStart - Normal Ballast Factor - &lt;10% THD</b>				

50320	QTP1x40TT5/120PSN-F	REL-1TTS40	N/A	N/A	
50330	QTP1x40TT5/277PSN-F	VEL-1TTS40	N/A	N/A	
50340	QTP2x40TT5/120PSN-F	REL-2TTS40	N/A	N/A	
50350	QTP2x40TT5/277PSN-F	VEL-2TTS40	N/A	N/A	
50360	QTP3x40TT5/120PSN-B	N/A	N/A	N/A	
50370	QTP3x40TT5/277PSN-B	N/A	N/A	N/A	
<b>QUICKTRONIC® PROFESSIONAL 32 T8 HELIOS™ DIMMING</b> - A list of 0-10V controllers is available from OSRAM SYLVANIA					
<b>32 T8 Dimming Systems (0-10Vdc control) - 100-5% and 100-10% Dimming Range - &lt;10% THD at full output, &lt;20% THD at full dim</b>					
50700	QTP1x32T8/120DIM5-B	RZT-132	B132R120V5	N/A	
50710	QTP1x32T8/277DIM5-B	VZT-132	B132R277V5	N/A	
50720	QTP2x32T8/120DIM5-B	RZT-2S32	B232SR120V5	N/A	
50730	QTP2x32T8/277DIM5-B	VZT-2S32	B232SR277V5	N/A	
50750	QTP3x32T8/120DIM5-Q	RZT-3S32	B332SR120V5	N/A	
50760	QTP3x32T8/277DIM5-Q	VZT-3S32	B332SR277V5	N/A	
50770	QTP4x32T8/120DIM10-Q	N/A	N/A	N/A	
50780	QTP4x32T8/277DIM10-Q	VZT-4S32	N/A	N/A	
<b>QUICKTRONIC® PROFESSIONAL 54 T5 HO HELIOS™ DIMMING</b> - A list of 0-10V controllers is available from OSRAM SYLVANIA					
<b>54 T5 HO Dimming Systems (0-10Vdc control) - 100-1% Dimming Range -&lt;10% THD at full output, &lt;20% THD at full dim</b>					
49671	QT1x54/120PHO-DIM	RZT-154	N/A	N/A	
49672	QT1x54/277PHO-DIM	VZT-154	N/A	N/A	
49673	QT2x54/120PHO-DIM	RZT-2S54	N/A	N/A	
49674	QT2x54/277PHO-DIM	VZT-2S54	N/A	N/A	
<b>QUICKTRONIC® 8 foot T12 Systems</b>					
<b>96 T12 Instant Start - Normal Ballast Factor - Large Can (11.75"long) - &lt;20% THD</b>					
49881	QT2x96/120IS	REL-2P60-S	B260I120RH	N/A	
49882	QT2x96/277IS	VEL-2P75-S	B260I277RH	N/A	
<b>96 T12/HO Rapid Start - Normal Ballast Factor - Large Can (11.75"long) - &lt;20% THD</b>					
49883	QT2x96/120HO	REL-2S110	B295SR120HP	N/A	
49884	QT2x96/277HO	VEL-2S110	B295SR277HP	N/A	
<b>QUICKTRONIC® PROFESSIONAL 40 T12</b>					
<b>40 T12 Rapid Start - Normal Ballast Factor - &lt;10% THD</b>					
50560	QTP1x40T12/120RSN-B	REL-1S40-RH-TP	B140R120HP	N/A	
50570	QTP1x40T12/277RSN-B	VEL-1S40-RH-TP	B140R277HP	N/A	
50580	QTP2x40T12/120RSN-B	RCN-2S40, REL-2S40-RH-TP	B240R120HP	N/A	
50590	QTP2x40T12/277RSN-B	VCN-2S40, VEL-2S40-RH-TP	B240R277HP	N/A	
50600	QTP3x40T12/120RSN-B	REL-3S40-RH-TP	B340R120HP	N/A	
50610	QTP3x40T12/277RSN-B	VEL-3S40-RH-TP	B340R277HP	N/A	
<b>QUICKTRONIC® PROFESSIONAL CF - UNIVERSAL VOLTAGE</b>					
<b>CF T4 PROStart® - Programmed RapidStart - Normal Ballast Factor - &lt;10% THD</b>					
<b>CFL Products run multiple lamp combinations and have various mounting/case sizes. (refer to actual product specs)</b>					
	<b>OSRAM SYLVANIA</b>	<b>ADVANCE</b>	<b>U.L.T. (formerly Magnetek) Universal Lighting Technologies</b>	<b>ESI (Energy Savings Inc is no longer in business)</b>	<b>ROBERTSON</b>
51718	QTP1/2x13CF/UNVBS	ICF-2S13-H1-LD	C213UNV-BE	ES-2/1-CFQ-13/10-UNV-C	PSM213CQMVB
51748	QTP1/2x13CF/UNVTS	ICF-2S13-H1-LD	C213UNV-SE	ES-2/1-CFQ-13/10-UNV-D	PSM213CQMV
51723	QTP1/2x18CF/UNVBS	ICF-2S18-H1-LD	C218UNV-BE	ES-2/1-CFQ-18-UNV-C	PSM218CQMVB
51753	QTP1/2x18CF/UNVTS	ICF-2S18-H1-LD	C218UNV-SE	ES-2/1-CFQ-18-UNV-D	PSM218CQMV

51733	QTP2x26CF/UNVBS	ICF-2S26-H1-LD	C2642UNV-BE	ES-2/1-CFQ-26-UNV-C	PSG242TRMVB
51763	QTP2x26CF/UNVTS	ICF-2S26-H1-LD	C2642UNV-SE	ES-2/1-CFQ-26-UNV-D	PSG242TRMV
51743	QTP2x26/32/42CF/UNVBM	ICF-2S42-M2-LS	C242UNV-BE	ES-2-CFH-42/32/26-UNV-H	PSG242TRMVB
51803	QTP2x26/32/42CF/UNVPM	ICF-2S42-M2-BS	C242UNV-BES	N/A	PSG242TRMVBS
51773	QTP2x26/32/42CF/UNVTM	ICF-2S42-M2-LD	C242UNV-SE	ES-2-CFH-42/32/26-UNV-G	N/A
51740	QTP1x57CF/UNVBM (1X57)	ICF-2S42-M2-LS	C242UNV-BE	N/A	N/A
51740	QTP1x57CF/UNVBM (1X70)	ICF-1Q70-M3-LD	C242UNV-BE	N/A	N/A
51800	QTP1x57CF/UNVPM (1X57)	ICF-2S42-M2-BS	C242UNV-BES	N/A	N/A
51800	QTP1x57CF/UNVPM (1X70)	ICF-1Q70-M3-BS	C242UNV-BES	N/A	N/A
	<i><b>This cross reference guide is intended as an aid for identifying comparable products as a convenience to the user.</b></i>				
	<i><b>OSRAM SYLVANIA does not warrant or guarantee the accuracy or correctness of the content.</b></i>				
	<i><b>Case sizes, wiring diagrams and performance specifications may vary, please refer manufacturers specifications.</b></i>				
	<i><b>Please refer to the OSRAM SYLVANIA catalog for verification of product specifications appropriate for the application.</b></i>				
	<i><b>Information in this cross reference is subject to change at any time without prior notice.</b></i>				
	<i><b>Please contact 1-800-LIGHTBULB or <a href="http://www.sylvania.com">www.sylvania.com</a> for additional information.</b></i>				