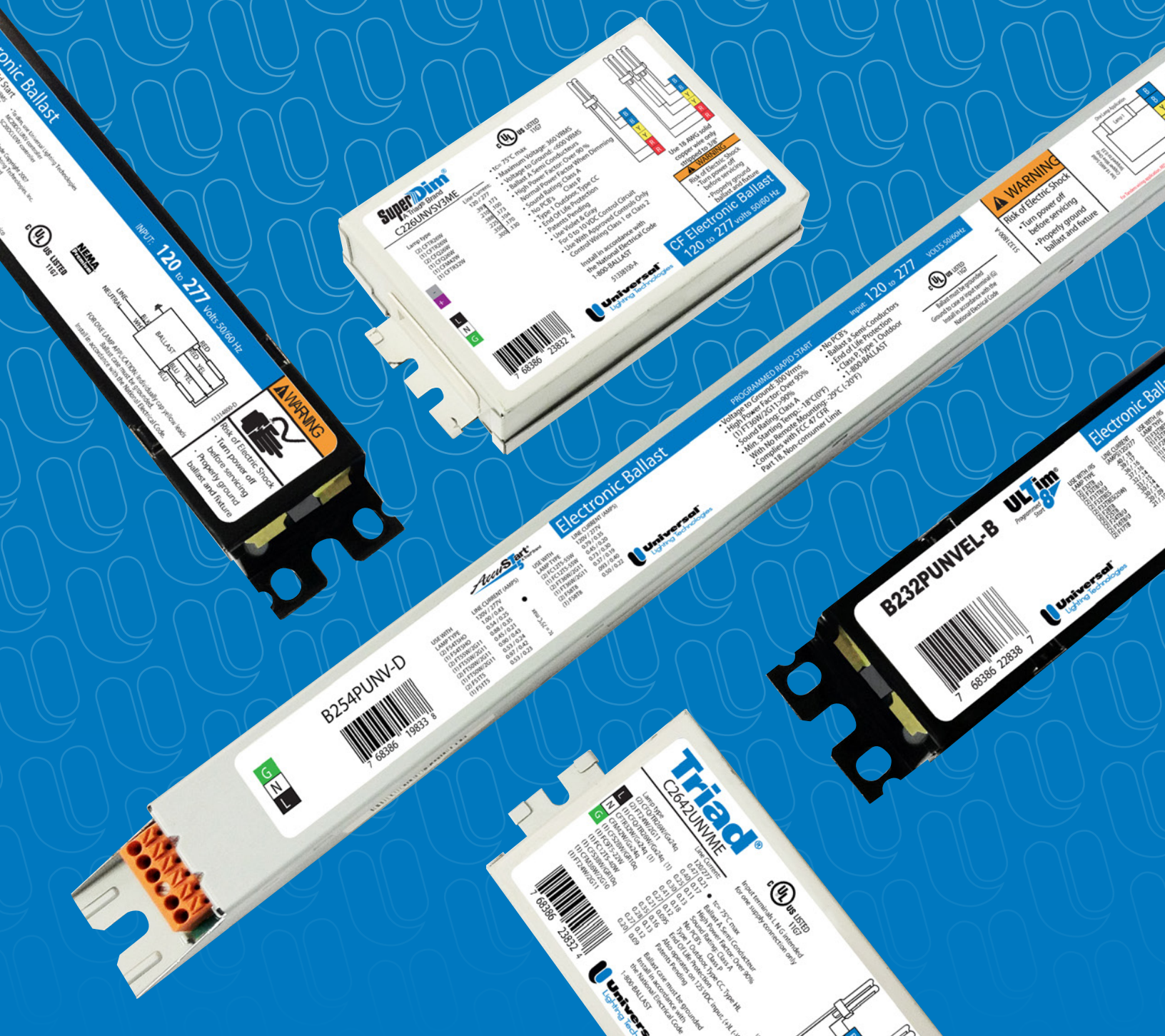


# Master Cross Reference BALLAST CATALOG





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This Cross Reference Guide is provided for informational purposes. It is intended to offer assistance in selecting a Universal ballast which is functionally equivalent to the ballast being replaced. If there is not an equivalent for a particular ballast, please contact us at **1-800-225-5278** to determine an appropriate product substitution. Information is subject to change without notice.

All suggested replacements should be checked against the ballast label to insure compatibility prior to installation.

**UNIVERSAL LIGHTING TECHNOLOGIES**

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For Technical Engineering Services (TES), application support and warranty information, call **1-800-225-5278**  
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Fluorescent Ballasts (Magnetic and Electronic)

Competitive P/N	Universal P/N	Comments	Universal Description
ADM-2E40-S	B2601UNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
ASB-0412-12-BL-TP	USB-0412-12		1-2 LP 4'MIN - 12'MAX T12HO SIGN
ASB-0412-12-E	ESB216-12		SIGNA ESB 1/2/3/4 LAMP 10-40FT UNV 50/60Hz I-PK
ASB-0620-24-BL-TP	USB-0218-16	Check Lamp Footage	1-6 LP 2'MIN - 18'MAX T12HO SIGN
ASB-1224-24-BL-TP	USB-1024-14		1-4 LP 10'MIN - 24'MAX T12HO SIGN
ASB-1232-24-E	ESB432-14		SIGNA ESB, 1/2 LAMP, 6-16 FT, UNV, 50/60 HZ, I-PK
ASB-1240-46-BL-TP	USB-1048-16		1-6 LP 10'MIN - 48'MAX T12HO SIGN
ASB-2040-24-BL-TP	USB-1048-16		1-6 LP 10'MIN - 48'MAX T12HO SIGN
ASB-2048-46-E	ESB848-46		SIGNA ESB, 4/5/6 LAMP, 20-48FT, UNV, 50/60HZ, I-PK
ASB-2432-34-BL-TP	USB-1232-16		1-6 LP 12'MIN - 32'MAX T12HO SIGN
ASB-2448-46-BL-TP	USB-2048-46		4-6 LP 20'MIN - 48' MAX T12HO SIGN
DIM-140-H-TP	No Cross		
DIM-240-H-TP	No Cross		
G-140-TP	No Cross		
G-1S32-TP	No Cross	Magnetic	
G-2C34-TP	No Cross		
G-2E75-S-TP	No Cross		Magnetic FL Ballast (2) F96T12 IS 347V
G-2S110-TP	No Cross		
G-2S32-TP	No Cross		
G-2S40-TP	No Cross		-
G-2S86-TP	No Cross		
GCN-1S32	ES1510A		ES-1-T8-32-347-A-S
GCN-2P32	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
GCN-2P60-S-A	No Cross		
GCN-2S32	ES1329A		ES-2-T8-32-347-A-S
GCN-2TTP40-SC	No Cross		
GCN-3P32-SC	B332I347HP		Electronic FL Ballast 3 F32T8 IS 347V
GCN-3S32	B432I347HP-A		Electronic FL Ballast (4) F32T8 IS 347V
GCN-4P32-SC	B432I347HP-A		Electronic FL Ballast 4 F32T8 IS 347V
GEL-2P32-LW-RH-TP	B232I347HPL		Electronic FL Ballast (2) F32T8 IS 347V LBF
GEL-2P32-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
GEL-2P59	B259I347HP		Electronic FL Ballast (2) F96T8 IS 347V
GEL-2S32-RH-TP	ES1329A		ES-2-T8-32-347-A-S
GEL-2S40-RH-TP	No Cross		
GEL-3P32-RH-TP	B332I347HP-A		Electronic FL Ballast 3 F32T8 IS 347V
GEL-3P32-SC	B432I347HP-A		Electronic FL Ballast 4 F32T8 IS 347V
GEL-4P32-LW	B432I347HPL		Electronic FL Ballast (4) F32T8 IS 347V, Low BF
GEL-4P32-RH-TP	B432I347HP-A		Electronic FL Ballast (4) F32T8 IS 347V
GEL-4P32-SC	No Cross		
GOPA-1P32-LW-SC	B232I347HPL	Delamped	Electronic FL Ballast (2) F32T8 IS 347V LBF
GOPA-1P32-SC	B132I347HP		Electronic FL Ballast 1 F32T8 IS 347V
GOPA-2P32-LW-SC	B232I347HPL		Electronic FL Ballast (2) F32T8 IS 347V LBF
GOPA-2P32-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
GOPA-3P32-LW-SC	B332I347HPL		Electronic FL Ballast 3 F32T8 IS 347V
GOPA-3P32-SC	B332I347HP		Electronic FL Ballast 3 F32T8 IS 347V
GOPA-4P32-LW-SC	B432I347HPL		Electronic FL Ballast 4 F32T8 IS 347V
GOPA-4P32-SC	B432I347HP		Electronic FL Ballast 4 F32T8 IS 347V
H-1B13-TP-BLS	No Cross		
H-1B13-TP-W	No Cross		
H-1B9-TP-BLS	No Cross		
H-1B9-TP-W	No Cross		
H-1Q18-TP-BLS	No Cross		
H-1Q18-TP-W	No Cross		
H-1Q26-TP-BLS	No Cross		
H-1Q26-TP-W	No Cross		
H-2B13-TP-BLS	No Cross		
H-2B13-TP-W	No Cross		
H-2B9-TP-BLS	No Cross		
H-2B9-TP-W	No Cross		
H-2Q18-TP-BLS	No Cross		
H-2Q18-TP-W	No Cross		
H-2Q26-TP-BLS	No Cross		
H-2Q26-TP-W	No Cross		
HCN2S5490CWL	B254PHRVHB-E	ULT ballast is larger, Alt: B254P347-D is 347V only	Electronic FL Ballast 2/1 F54T5HO PRS 347-480V HIGH BAY
HCN4S5490C2LSG	No Cross		
HM-140-TP	No Cross		
HM-1P20-TP	No Cross		
HM-1P30-TP	No Cross		
HM-2SP20-TP	No Cross		
ICF-1D38-H1-LD	C2642UNV		26-42W CFL
ICF-1H120M4LD	No Cross		
ICF-2S13-H1-LD	C213UNVME		2/1X13W CFL
ICF-2S13-M1-BS	C213UNVME		2/1X13W CFL
ICF-2S18-H1-LD	C218UNVME		(2) 18W CFL
ICF-2S18-M1-BS	C218UNVME		(2) 18W CFL
ICF-2S26-H1-LD	C2642UNVME		26-42W CFL
ICF-2S26-M1-BS	C2642UNVME		26-42W 347V
ICF2S13M1BSQS	C213UNV		2/1X13W CFL

Competitive P/N	Universal P/N	Comments	Universal Description
ICF2S18M1BSQS	C218UNV		(2) 18W CFL
ICF2S26M1BSQS	C2642UNV		26-42W CFL
ICF2S4290CM2BS	C242UNVME		
ICF-2S42-M2-BS	C242UNVMES		42W UNV Multi Exit W/Studs
ICF-2S42-M2-LD	C242UNVME		42W UNV Multi Exit
ICF-2S42-M2-LS	C242UNVMES		42W UNV Multi Exit W/Studs
ICF-2S70-M4-LD	No Cross		
ICF2S4290CM2LD	C242UNVME		
ICN-132-MC	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
ICN-1P32-N	B132IUNVHP-N	Also: B132IUNVHE-N (larger can)	Electronic FL Ballast (1) F32T8 IS 120-277V
ICN-1P32-SC	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
ICN-1S80	No Cross		Electronic FL Ballast ES-1-T5-80-UNV-K
ICN-1TTP40-SC	C242UNV		26-42W 347V
ICN-2M32-MC	B232IUNVHP-N	ULT does not support T5 lamps	Electronic FL Ballast (2) F32T8 IS 120-277V
ICN-2P32-N	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 120-277V
ICN-2P60-SC	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
ICN-2S24	B224PUNV-C		Electronic FL Ballast (2) F24T5HO PS 120-277V
ICN-2S28	B228PUNV-C		Electronic FL Ballast (2) F28T5 PS 120-277V
ICN-2S28-N	B228PUNV-N		Y908023 - (2) F28T5 PS UNV 50/60 NOM
ICN-2S39	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
ICN-2S40-N	B234SR277M-A	ULT can is larger, ADV is UNV	Electronic FL Ballast (2) F40T12ES RS 277V
ICN-2S54	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
ICN-2S54-90C	B254PUNVHB-D		Electronic FL Ballast (2) F54T5HO PS 120-277V High Bay
ICN-2S86	B286I277RH or B286I120RH	ULT is instant start and either 120V or 277V	Electronic FL Ballast (2) F96T8HO IS 277V
ICN-2TTP40-SC	C240S1120RH or C240S1277RH	ULT can is larger and available as 120 or 277 model	(1/2) F40W/2G11 or F40WES/2G11 Lamps
ICN-3P32-N	B332IUNVHP-A	ULT can is larger, Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120-277V
ICN-3S14-D	No Cross		
ICN-3TTP40-SC	No Cross		
ICN-4P32-N	B432IUNVHP-A	ULT can is larger, Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120-277V
ICN1P32LWSC	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
ICN1P32SCHAZ	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
ICN2P32LWSC	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
ICN2P32SCHAZ	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 120-277V
ICN3P32LWSC	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
ICN3P32SCHAZ	B332IUNVHP-A		Electronic FL Ballast (3) F32T8 IS 120-277V
ICN4P32LWSC	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF LBF
ICN4P32SCHAZ	B432IUNVHP-A		Electronic FL Ballast (4) F32T8 IS 120-277V
ICN4S5490C2LS	B454PUNVHB-E		
ICN4S5490C2LSG	B454PUNVHB-E		
IIC-132-SC	B132PUNVHP-A		Electronic FL Ballast (1) F32T8 PS 120-277V
IIC-2S32-SC	B232PUNVHE-B	ULT is parallel lamp operation	Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
IIC-3S32-SC	B332PUNVHE-A	ULT is parallel lamp operation	Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL
IOP-1P32-SC	B132IUNVHE-N	ULT lacks Type CC	Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF
IOP-2P32-SC	B232IUNVHE-N	ULT lacks Type CC	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF
IOP-2P59-SC	B259IUNVHE-A	Ait: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
IOP-2PSP32-LWSC	B232PUNVEL-B	For (1) or (2) lamp operation.	Electronic FL Ballast (1) F32T8 PS UNV HI-EFF PARALLEL Low BF
IOP-2PSP32-SC	B232PUNVHE-B	For (1) or (2) lamp operation.	Electronic FL Ballast (1) F32T8 PS UNV HI-EFF PARALLEL
IOP-2PSP32HL-SC	B232PUNVHEH-A		
IOP-2PSP54-SC	B254PUNV-D	ULT is Series Lamp Operation	Electronic FL Ballast (2) F54T5HO PS 120-277V
IOP-2S32-SC	B232PUNVHE-A		Electronic FL Ballast (2) F32T8 120-277V, HI-Eff
IOP-3P32-SC	B332IUNVHE-A	ULT lacks Type CC	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
IOP-3PSP32-SC	B332PUNVHE-A	ULT lacks Type CC	Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL
IOP-3PSP32HL-SC	B332PUNVHEH-A		
IOP-4PSP32-SC	B432PUNVHE-A		
IOP-4PSP32HLG	B432PUNVHEH-E		
IOP-4PSP32LW-SC	B432PUNVEL-A		
IOP-4PSP54-2LS-G	B454PUNV-E		
IOP-4S32-SC	B432PUNVHE-A	ULT is parallel lamp operation	Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL
IOP1P32HLSC	No Cross		
IOP1P32LWSC	B132IUNVEL-N	ULT lacks Type CC	Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
IOP1S32LWSC	No Cross		
IOP2P32HLSC	B232IUNVHEH-A	ULT lacks Type CC	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
IOP2P32LWSC	B232IUNVEL-N	ULT lacks Type CC	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
IOP2S28115SC	B228PUNV115-D		Electronic FL Ballast (2) F28T5 PS UNV 50/60 1.15 BF
IOP2S2895SC	B228PUNV95-D		Electronic FL Ballast (2) F28T5 PS UNV 50/60 .95 BF
IOP2S32LWSC	B232PUNVEL-A		Electronic FL Ballast (2) F32T8 120-277V, Low BF HI-Eff
IOP3P32HL90CSC	B332IUNVHEH-A	ULT lacks Type CC, high-temp	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF HBF
IOP3P32LWSC	B332IUNVEL-A	ULT lacks Type CC	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
IOP3PSP32LWSC	B332PUNVEL-A	ULT is parallel lamp operation	Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL .71 BF
IOPA-1P32-N	B132IUNVHE-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF
IOPA-2P32-N	B232IUNVHE-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF
IOPA-3P32-N	B332IUNVHE-A	ULT can is larger	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
IOPA-4P32-HL-SC	B432I277HEH	ULT is 277V only	
IOPA-4P32-N	B432IUNVHE-A	ULT can is larger	Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF
IOPA1P32HLN	No Cross		
IOPA1P32LWN	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
IOPA2P32HLN	B232IUNVHEH-A	ULT can is larger	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF

Competitive P/N	Universal P/N	Comments	Universal Description
IOPA2P32LWN	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
IOPA3P32HLN	B332IUNVHEH-A	ULT can is larger	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF HBF
IOPA3P32LWN	B332IUNVEL-A	ULT can is larger	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
IOPA4P32LWN	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF LBF
JOP-2S84-G	No Cross		
JOP-2S95-G	No Cross		
L-140F-TP	No Cross		
L-1B13-TP-BLS	No Cross		
L-1B13-TP-W	No Cross		
LC-13-R	No Cross		
LC-14-20-C	No Cross		
LC-14-20-C-TP	No Cross		
LC-25-TP	No Cross		
LC-4-9-C-TP	No Cross		
LO-13-22-TP	No Cross		
LOS-1Q28	No Cross		
LPL-5-9-TP	No Cross		Magnetic FL Ballast (1) F6T5 PH 120V LPF
LPL-7-9	No Cross		
LX-140F-TP	No Cross		
MT-2S110-TP	B295SRUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12HOES RS 120-277V
MTM-140-TP	No Cross		
MTM-2S40-TP	No Cross		
R-140-TP	B134R120M-A		Electronic FL Ballast (1) F34T12 RS 120V
R-1P32-TP	B132IUNVHP-N	Electronic replacement	Electronic FL Ballast (1) F32T8 IS 120V
R-2E60-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
R-2E75-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
R-2P32-TP	B232I120RH-A		Electronic FL Ballast (2) F32T8 RS 120V
R-2S110-TP	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 120-277V
R-2S34-TP	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
R-2S40-TP	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
R-2SP30-TP	B234SR120M-A		Electronic FL Ballast (2) F34/40T12 RS 120V
R-3S34-TP	No Cross		
R4S40-A-TP-AC	No Cross		
RC-2E75-S-TP	B260IUNVHP	Electronic replacement	Electronic FL Ballast (2) F96T12ES IS 120-277V
RC-2S102-FO	No Cross		
RC-2S102-TP	No Cross		
RC-2S110-FO	No Cross		
RC-2S200-TP	No Cross		
RC-2S85-FO	No Cross		
RC-2S85-TP	B295SRUNVHP	Electronic replacement	Electronic FL Ballast (2) F96T12HOES RS 120-277V
RC-2S85-TP-PC	B295SRUNVHP	Electronic replacement	Electronic FL Ballast (2) F96T12HOES RS 120-277V
RC-4S60-TP	No Cross		
RC-4S85-TP	No Cross		
RCF-2S13-H1-LD-QS	C213UNV		2/1X13W 347V
RCF-2S13-M1-BS-QS	C213UNV		2/1X13W 347V
RCF-2S18-H1-LD-QS	C218UNV		(2) 18W CFL
RCF-2S18-M1-BS-QS	C218UNV		(2) 18W CFL
RCF-2S26-H1-LD-QS	C2642UNV		26-42W 347V
RCF-2S26-M1-BS-QS	C2642UNV		26-42W 347V
RCN-1S32-SC	B132PUNVHP-A		Electronic FL Ballast (1) F32T8 PS 120-277V
RCN-2S32-SC	B232PUNVHE-B	ULT is universal voltage & Parallel Lamp	Electronic FL Ballast (2 or 1) F32T8 PS UNV HI-EFF PARALLEL
RCN-2S40-SC	B234SR120M-A		Electronic FL Ballast (2) F40T12ES RS 120V
RCN-3S32-SC	B332PUNVHE-A	ULT is universal voltage & Parallel Lamp	Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL
RCN-4S32-SC	B432PUNVHE-A	ULT is universal voltage & Parallel Lamp	Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL
REB-113-M6-BL	No Cross	RESIDENTIAL BALLAST	
REB-113-M6-BLS	No Cross	RESIDENTIAL BALLAST	
REB-113-M6-EL	No Cross	RESIDENTIAL BALLAST	
REB-118-M6-BL	No Cross	RESIDENTIAL BALLAST	
REB-118-M6-BLS	No Cross	RESIDENTIAL BALLAST	
REB-118-M6-EL	No Cross	RESIDENTIAL BALLAST	
REB-126-M1-BLS	No Cross	RESIDENTIAL BALLAST	
REB-126-M6-BL	No Cross	RESIDENTIAL BALLAST	
REB-126-M6-BLS	No Cross	RESIDENTIAL BALLAST	
REB-126-M6-EL	No Cross	RESIDENTIAL BALLAST	
REB-2P32-N	B232I120RES-A	ULT case is larger	Electronic FL Ballast (2) F32T8 IS 120V RESIDENTIAL
REB-2P32-SC	B232I120RES-A		Electronic FL Ballast (2) F32T8 IS 120V RESIDENTIAL
REB-2S13-M6-EL	No Cross	RESIDENTIAL BALLAST	
REB-2S18-M6-EL	No Cross	RESIDENTIAL BALLAST	
REB-2S26-M1-BS-DIM	No Cross	RESIDENTIAL BALLAST	
REB-2S26-M1-LS-DIM	No Cross	RESIDENTIAL BALLAST	
REB-2S26-M6-EL	No Cross	RESIDENTIAL BALLAST	
REL-4P32-N	B432I120RES-A	ULT case is larger	Electronic FL Ballast (4) F32T8 IS 120V RESIDENTIAL
REL-4P32-SC	B432I120RES-A		Electronic FL Ballast (4) F32T8 IS 120V RESIDENTIAL
REL-1P32-HL-SC	B232IUNVHEH-A	Delamped; consult lamp mfg. BF>1.2	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
REL-1P32-LW-SC	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
REL-1P32-SC	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
REL-1S40-SC	B134R120M-A		Electronic FL Ballast (1) F34T12 RS 120V
REL-2P17-RH-TP	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 120-277V
REL-2P32-HL-SC	B232IUNVHEH-A	ULT is Universal Voltage high efficiency	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
REL-2P32-LW-SC	B232IUNVEL-N	ULT is Universal Voltage high efficiency	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
REL-2P32-SC	B232IUNVHP-N	ULT is Universal Voltage	Electronic FL Ballast (2) F32T8 IS 120-277V

Competitive P/N	Universal P/N	Comments	Universal Description
REL-2P59-HL	No Cross		Electronic FL Ballast (2) F96T8 IS 120V, High BF
REL-2P59-S-RH-TP	B259IUNVHP-A		Electronic FL Ballast (2) F96T8 IS 120-277V
REL-2P59-SC	B259IUNVHP-A		Electronic FL Ballast (2) F96T8 IS 120-277V
REL-2P60-S-A	B260IUNVHP-A	ULT is Universal Voltage	Electronic FL Ballast (2) F96T12 IS 120-277V
REL-2P64IS	No Cross		
REL-2S110	B295SRUNVHP-A	ULT is universal voltage	Electronic FL Ballast (2) F96T12HOES RS 120-277V
REL-2S40-SC	B234SR120M-A		Electronic FL Ballast (2) F40T12ES RS 120V
REL-2S86	B286I120RH	ULT is instant start	Electronic FL Ballast (2) F96T8HO IS 120V
REL-3P32-HL-SC	B332IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF HBF
REL-3P32-LW-SC	B332IUNVEL-A	ULT is universal voltage, high efficiency	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
REL-3P32-SC	B332IUNVHP-A		Electronic FL Ballast (3) F32T8 IS 120-277V
REL-3S40-RH-TP	No Cross		Electronic FL Ballast (3) F40T12ES RS 120V
REL-4P32-2LS	No Cross		
REL-4P32-LW-SC	B432IUNVEL-A	ULT is universal voltage, high efficiency	Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF LBF
REL-4P32-SC	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120V
RELB-1S40-SC	B134R120M-A		1 F40T12 RS 120 60 HBEE
RELB-2S40-SC	B234SR120M-A		Electronic FL Ballast (2) F40T12ES RS 120V
RK-132-TP	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120V
RK-2S32-TP	B232PUNVHE-B	Electronic	Electronic FL Ballast (1) F32T8 PS UNV HI-EFF PARALLEL
RL-117-TP	B132PUNVHP-A	Electronic	Electronic FL Ballast (1) F32T8 PS 120-277V
RL-132-TP	B132PUNVHP-A	Electronic	Electronic FL Ballast (1) F32T8 PS 120-277V
RL-140-TP	No Cross		
RL-2SP20-TP	No Cross		
RLCS-140-TP-W	No Cross		
RLQ-120-TP	No Cross		
RLQS-122-TP-W	No Cross		
RM-2S35-TP	No Cross		
RM-2SP30-TP	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
RMB-1P13-S1	No Cross		
RMB-1P13-S2-H	No Cross		
RMB-1P26-S2	No Cross	Residential CFL	
RMB-2P13-S2	No Cross		
RMB-2P13-S3-H	No Cross		
RQM-2S40-TP	B234SR277M-A		Electronic FL Ballast (2) F34T12 RS 277V
RS-110-TP	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
RS-22-32-TP-W	No Cross		
RS-2S200-FO	No Cross		
RS-2S200-TP	No Cross		
RS-32-40-TP-W	No Cross		
RSC-2S155-TP	No Cross		
RSM-175-S-TP	B260IUNVHP		Electronic FL Ballast (1 or 2) F48 - F96T12/IS 120-277V
SM-140-S-TP	B260IUNVHP	ADV is magnetic	Electronic FL Ballast (1 or 2) F48 - F96T12/IS 120-277V
SM-151-S-TP	No Cross		
SM-2E40-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
SM-2E51-S-TP	No Cross		
SM-2E57-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
TM-2E57-S-TP	No Cross		
V-140-TP	B234SR277M-A		Electronic FL Ballast (2) F34T12 RS 277V
V-1P32-TP	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
V-2E60-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
V-2E75-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
V-2P32-TP	B232PUNVHE-B	ULT is electronic	Electronic FL Ballast (2) F32T8 P-Start 120-277V
V-2S110-TP	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
V-2S34-TP	B234SR277M-A		Electronic FL Ballast (2) F34T12 RS 277V
V-2S40-TP	B234SR277M-A		Electronic FL Ballast (2) F34T12 RS 277V
V-2SP30-TP	No Cross		
V-3S34-TP	No Cross	Use (1) 443-L-SLH-TC-P & (1) 458-L-SLH-TC-P	
VC-2E75-S-TP	B260IUNVHP	Electronic	Electronic FL Ballast (2) F96T12ES IS 120-277V
VC-2S102-FO	No Cross		
VC-2S102-TP	No Cross		
VC-2S110-FO	No Cross		
VC-2S200-TP	No Cross		
VC-2S85-TP	B295SRUNVHP	Confirm lamp applications	Electronic FL Ballast (2) F96, F84, F72, F60, F48T12HO RS 120-277V
VCN-1S32-SC	B132PUNVHP-A		Electronic FL Ballast (1) F32T8 PS 120-277V
VCN-2S32-SC	B232PUNVHE-B	ULT is universal voltage	Electronic FL Ballast (2) F32T8 PS 120-277V
VCN-2S40-SC	B234SR277M-A	ULT is larger case size	Electronic FL Ballast (2) F34T12 RS 277V
VCN-3P32-SC	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V
VCN-3S32-SC	B332PUNVHE-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 PS 120-277V
VCN-4P32-LW-SC	B432IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V .77BF
VCN-4P32-SC	B432IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V
VCN-4S32-SC	B432PUNVHE-A	ULT is universal voltage, parallel lamp	Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL
VEL-1P32-HL-SC	B232IUNVHEH-A	Delamped; consult lamp mfg, BF>1.2	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
VEL-1P32-LW-SC	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
VEL-1P32-SC	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120-277V
VEL-1S40-SC	B234SR277M-A	ULT is larger case size	Electronic FL Ballast (2) F40T12ES RS 277V
VEL-2P17-RH-TP	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 120-277V
VEL-2P32-HL-SC	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 277V HBF
VEL-2P32-LW-SC	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 277V LBF
VEL-2P32-SC	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 277V
VEL-2P59-HL	No Cross		Electronic FL Ballast (2) F96T8 IS 277V HBF

Competitive P/N	Universal P/N	Comments	Universal Description
VEL-2P59-S-RH-TP	B259IUNVHP-A	ULT is Universal Voltage, Also: B259IUNVHE-A	ELF (2) F96T8 IS 120-277V
VEL-2P59-SC	B259IUNVHP-A	ULT is Universal Voltage, Also: B259IUNVHE-A	ELF (2) F96T8 IS 120-277V
VEL-2P75-S	B260IUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12ES IS 120-277V
VEL-2S110	B295SRUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12HOES RS 120-277V
VEL-2S40-SC	B234SR277M-A		Electronic FL Ballast (2) F34T12 RS 277V
VEL-2S86	B286I277RH	ULT is instant start	Electronic FL Ballast (2) F96T8HO IS 277V
VEL-3P32-HL-SC	B332IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V HBF
VEL-3P32-LW-SC	B332IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 277V LBF
VEL-3P32-SC	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 277V
VEL-3S40-RH-TP	No Cross		Electronic FL Ballast (3) F40T12ES RS 277V
VEL-4P32-2LS	No Cross		
VEL-4P32-LW-SC	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120-277V LBF
VEL-4P32-SC	B432IUNVHP-A		Electronic FL Ballast (4) F32T8 IS 120-277V
VH-1B13-TP-BLS	No Cross		
VH-1B13-TP-W	No Cross		
VH-1B9-TP-BLS	No Cross		
VH-1B9-TP-W	No Cross		
VH-1Q18-TP-BLS	C218UNV	Delamped, Electronic Replacement	(2) 18W CFL
VH-1Q18-TP-W	C218UNV	Delamped, Electronic Replacement	(2) 18W CFL
VH-1Q26-TP-BLS	No Cross		
VH-1Q26-TP-W	No Cross	No Cross	
VH-2B13-TP-BLS	C213UNV	Electronic Replacement	2/1X13W 347V
VH-2B13-TP-W	C213UNV	Electronic Replacement	2/1X13W 347V
VH-2B9-TP-BLS	No Cross		
VH-2B9-TP-W	No Cross		
VH-2Q18-TP-BLS	C218UNV	Electronic Replacement	(2) 18W CFL
VH-2Q18-TP-W	C218UNV	Electronic Replacement	(2) 18W CFL
VH-2Q26-TP-BLS	C2642UNV	Electronic Replacement	26-42W 347V
VH-2Q26-TP-W	C2642UNV	Electronic Replacement	26-42W 347V
VK-132-TP	B132PUNVHP-A	Electronic Replacement	Electronic FL Ballast (1) F32T8 PS 120-277V
VK-2S32-TP	B232PUNVHE-B	Electronic Replacement	Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
VLO-13-TP	No Cross		
VLO-2S13-TP	No Cross		
VQM-2S40-TP	B234SR277M-A		Electronic FL Ballast (2) F40T12ES RS 277V
VS-110-TP	No Cross		
VS-2S200-FO	No Cross		
VS-2S200-TP	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
VS-0412-12-BL-TP	277-1048-816	Check Lamp Footage	(6) F96T12HO 277/60 STD HPF MSB
VS-0620-24-BL-TP	277-1048-816	Check Lamp Footage	(6) F96T12HO 277/60 STD HPF MSB
VS-1224-24-BL-TP	277-1048-816		(6) F96T12HO 277/60 STD HPF MSB
VS-1240-46-BL-TP	277-1048-816		(6) F96T12HO 277/60 STD HPF MSB
VS-2040-24-BL-TP	277-1048-816		(6) F96T12HO 277/60 STD HPF MSB
VS-2448-46-BL-TP	277-1048-816		(6) F96T12HO 277/60 STD HPF MSB
VSM-175-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
VSM-2E40-S-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
X-140-TP	No Cross		
XHM-1P20-TP	No Cross		
XM-2SP20-TP	No Cross		
XQM-2S40-TP	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
YHQM-1P40-TP	No Cross		
YQM-2S40-TP	No Cross		
YS-2S110-TP	No Cross		
YS-2S85-TP	No Cross		
YSM-2E75-S-TP	No Cross		

### Dimming Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
IDA-128-D	B128PUNVDV3-D	For 1L 28W & 21W T5 Applications	ELF (1) F28T5 PS UNV DALI DIGITAL DIMMING
IDA-128-D	B114PUNVDV3-D	For 1L 14W T5 Applications	ELF (1) F14T5 PS UNV DALI DIGITAL DIMMING
IDA-132-SC	B132PUNVDV3-A		ELF (1) F32T8 PS UNV DALI DIGITAL DIMMING
IDA-154	B254PUDV3PLD		ELF (1) F54T5HO PV UNV DALI DIGITAL DIMMING
IDA-2S28-D	B228PUNVDV3-D	For 2L 28W & 21W T5 Applications	ELF (2) F28T5 PS UNV DALI DIGITAL DIMMING
IDA-2S28-D	B214PUNVDV3-D	For 2L 14W T5 Applications	ELF (2) F14T5 PS UNV DALI DIGITAL DIMMING
IDA-2S32-SC	B232PUNVDV3-A		ELF (2) F32T8 PS UNV DALI DIGITAL DIMMING
IDA-2S54	B254PUDV3PLD		ELF (2) F54T5HO PS UNV DALI DIGITAL DIMMING
IDA-3S32-G	No Cross		
IDA-4S32	No Cross		
IDL-2S26-M5-BS	No Cross		
IDL-2S26-M5-LD	C226UNVDV3ME	For 1L 18W CFL Applications	ECF (1) CFQ18W/G24Q PS UNV DALI DIGITAL DIMMING
IDL-2S26-M5-LD	C226UNVDV3ME	For 2L 18W CFL Applications	ECF (2) CFQ18W/G24Q PS UNV DALI DIGITAL DIMMING
IDL-2S26-M5-LD	C226UNVDV3ME	For 1L 26W CFL Applications	ECF (1) CFQ26W/G24Q PS UNV DALI DIGITAL DIMMING
IDL-2S26-M5-LD	C226UNVDV3ME	For 2L 26W CFL Applications	ECF (2) CFQ26W/G24Q PS UNV DALI DIGITAL DIMMING
IDL-2S26-M5-LD	C226UNVDV3ME	For 1L 32W CFL Applications	ECF (1) CFTR32W/GX24q PS UNV DALI DIGITAL DIMMING
IDL-2S26-M5-LD	C226UNVDV3ME	For 1L 42W CFL Applications	ECF (1) CFM42W/GX24Q PS UNV DALI DIGITAL DIMMING
IDL-2T42-M5-BS	No Cross		
IDL-2T42-M5-LD	C232PUNVDV3	For 2L 32W CFL Applications	ECF (2) CFTR32W/GX24q PS UNV DALI DIGITAL DIMMING
IDL-2T42-M5-LD	C242PUNVDV3	For 2L 42W CFL Applications	ECF (2) CFM42W/GX24Q PS UNV DALI DIGITAL DIMMING
IEZ-2S24-D	No Cross		
IOP2S28115SCSD	B228PU115S50D		(2) F28T5 PS UNV 50/60 1.15 BF LIGHT LEVEL SWITCHING
IOP2S2895SCSD	B228PU95S50D		(2) F28T5 PS UNV 50/60 0.95 BFLIGHT LEVEL SWITCHING

Competitive P/N	Universal P/N	Comments	Universal Description
I2T-128-D	B128PUNVSV3-D	For 1L 28W & 21W T5 Applications	ELF (1) F28T5 PS UNV ANALOG 0-10V DIMMING
I2T-128-D	B114PUNVSV3-D	For 1L 14W T5 Applications	ELF (1) F14T5 PS UNV ANALOG 0-10V DIMMING
I2T-132-SC	B132PUNVSV3-A		(1) F32T8 UNV ANALOG 0-10V DIMMING
I2T-1T42-M2-BS	No Cross		
I2T-1T42-M2-LD	No Cross		
I2T-2Q26-M2-BS	No Cross		
I2T-2Q26-M2-LD	C226UNVSV3ME		(2) 26W CFL UNV ANALOG 0-10V DIMMING
I2T-2S26-M5-BS	No Cross		
I2T-2S26-M5-LD	C213UNVSV3ME	For 1L & 2L 13W CFL Applications	(2) 13W CFL UNV ANALOG 0-10V DIMMING W/O LEADS
I2T-2S26-M5-LD	C218UNVSV3ME	For 1L & 2L 18W CFL Applications	(2) 18W CFL UNV ANALOG 0-10V DIMMING W/O LEADS
I2T-2S26-M5-LD	C226UNVSV3ME	For 1L & 2L 26W CFL and for 1L 32W & 42W CFL Applications	(2) 26W CFL UNV ANALOG 0-10V DIMMING
I2T-2S28-D	B228PUNVSV3-D	For 2L 28W & 21W T5 Applications	ELF (2) F28T5 PS UNV ANALOG 0-10V DIMMING
I2T-2S28-D	B214PUNVSV3-D	For 2L 14W T5 Applications	ELF (2) F14T5 PS UNV ANALOG 0-10V DIMMING
I2T-2S32-SC	B232PUNVSV3-A		(2) F32T8 UNV ANALOG 0-10V DIMMING
I2T-2T42-M3-BS	No Cross		
I2T-2T42-M3-LD	No Cross		
I2T-2T42-M5-BS	No Cross		
I2T-2T42-M5-LD	No Cross		
I2T-2TTS40-SC	No Cross		
I2T-3S32-SC	B332SR120V5	For 120V Applications	3 F32T8-DIMMING RS 120 60 HBXX
"	B332SR277V5	For 277V Applications	3 F32T8-DIMMING RS 277 60 HBXX
I2T-4S32	B432SR277V5	For 277V Applications	4 F32T8 DIMMING RS 277 60 HBXX
REZ-132-SC	No Cross		
REZ-154	No Cross		
REZ-1Q18-M2-BS	No Cross		
REZ-1Q18-M2-LD	No Cross		
REZ-1T42-M2-BS	No Cross		
REZ-1T42-M2-LD	No Cross		
REZ-1TTS40-SC	No Cross		
REZ-2Q18-M2-BS	No Cross		
REZ-2Q18-M2-LD	No Cross		
REZ-2Q26-M2-BS	No Cross		
REZ-2Q26-M2-LD	No Cross		
REZ-2S32-SC	No Cross		
REZ-2S54	No Cross		
REZ-2T42-M3-BS	No Cross		
REZ-2T42-M3-LD	No Cross		
REZ-2TTS40-SC	No Cross		
REZ-3S32-SC	No Cross		
RZT-132	B132PUNVSV3-A		(1)F32T8 UNV ANALOG 0-10V DIMMING
RZT-154	B254PUSV3PLD		(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
RZT-1TTS40	No Cross		
RZT-2S32	B232PUNVSV3-A		(2)F32T8 UNV ANALOG 0-10V DIMMING
RZT-2S54	B254PUSV3PLD		(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
RZT-2TTS40	No Cross		
RZT-3S32	B332SR120V5		3 F32T8-DIMMING RS 120 60 HBXX
VEZ-132-SC	No Cross		
VEZ-154	No Cross		
VEZ-1Q18-M2-BS	No Cross		
VEZ-1Q18-M2-LD	No Cross		
VEZ-1T42-M2-BS	No Cross		
VEZ-1T42-M2-LD	No Cross		
VEZ-1TTS40-SC	No Cross		
VEZ-2Q18-M2-BS	No Cross		
VEZ-2Q18-M2-LD	No Cross		
VEZ-2Q26-M2-BS	No Cross		
VEZ-2Q26-M2-LD	No Cross		
VEZ-2S32-SC	No Cross		
VEZ-2S54	No Cross		
VEZ-2T42-M3-BS	No Cross		
VEZ-2T42-M3-LD	No Cross		
VEZ-2TTS40-SC	No Cross		
VEZ-3S32-SC	No Cross		
VZT-132	B132PUNVSV3-A		(1) F32T8 UNV ANALOG 0-10V DIMMING
VZT-154	B254PUSV3PLD		(2/1) F54T5HO UNV 0-10V DIM - Parallel lamp
VZT-180	No Cross		
VZT-1TTS40	No Cross		
VZT-2S32	B232PUNVSV3-A		(2) F32T8 UNV ANALOG 0-10V DIMMING

## HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
71A5540	M17548TAC3M	ULT: 120V Tap	(1) 175W M57 480-120V 60HZ
71A5540T	M17548TAC3M		(1) 175W M57 480-120V 60HZ
71A5570	M175MLTAC3M		(1) 175 MH M57 QUAD 60Hz C&C
71A5590	M175MLTAC3M	ADV: NOM	(1) 175 MH M57 QUAD 60Hz C&C
71A55A0	M175TRIAC30		(1) 175W M57 TRIVOLT 60Hz
71A55H0	No Cross		-
71A55N0	M175230AC3M	ULT: 230V only	(1) 175W MH M57 230V 50HZ
71A5701	M250120AC3M		(1) 250W M58 120V 60HZ C&
71A5731	M250277AC3M		(1) 250W M58 277V 60HZ



Competitive P/N	Universal P/N	Comments	Universal Description
71A5740	M25048TAC4M	ULT: 120V Tap	(1) 250W MH M58 480-120V 60HZ
71A5740T	M25048TAC4M		(1) 250W MH M58 480-120V 60HZ
71A5741	M25048TAC3M	ULT: 120V Tap	(1) 250W MH M58 480V 60HZ
71A5750	M250ML5AC4M		(1) 250W MH M58 MULTI-5 60HZ
71A5750-A	M250ML5AC4M	ULT: Cu/Cu ADV: Cu/Al	(1) 250W MH M58 MULTI-5 60HZ
71A5770	M250MLTAC4M	ULT: Al/Al Core ADV: Cu/Cu Core	(1) 250W MH M58 MULTI 60HZ
71A5771	M250MLTAC3M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 250W MH M58 QUAD 60HZ C&C
71A5790A	M250MLTAC4M	ULT: Al/Al Core ADV: Cu/Al Core	(1) 250W MH M58 MULTI 60HZ
71A5791	M250MLTAC3M		(1) 250W MH M58 QUAD 60HZ C&C
71A57A0	M250TRIAC4M		(1) 250W MH M58 TRIVOLT 60HZ
71A57E6	No Cross		-
71A57H0	No Cross		-
71A57H0A	No Cross		-
71A57N0	M250230AC3M	ULT: 230V only	(1) 250W MH M58 230 50HZ C&C
71A6037BEE	No Cross		-
71A6041	M40048TAC4M	ULT: 120V Tap, Cu/Al Core ADV: Cu/Cu Core	(1) 400W M59 480-120V 60HZ
71A6041A	M40048TAC4M	ULT: 120V Tap	(1) 400W M59 480-120V 60HZ
71A6041TA	M40048TAC4M		(1) 400W M59 480-120V 60HZ
71A6051	M400ML5AC4M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 400W MH M59 Multi-5 60HZ C&C
71A6051A	M400ML5AC4M		(1) 400W MH M59 Multi-5 60HZ C&C
71A6071	M400MLTAC4S		(1) 400W MH M59 QUAD 60HZ C&C
71A6091A	M400MLTAC4M	ULT: Al/Al Core ADV: Cu/Al Core	(1) 400W M59 MULTI 60HZ
71A60A1	M400TRIAC4M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 400W M59 TRIVOLT 60HZ
71A60A1A	M400TRIAC4M		(1) 400W M59 TRIVOLT 60HZ
71A60E6	No Cross		-
71A60H1	No Cross		-
71A60N1	M400230AC4M	ULT: 230V only	(1) 400W M59 230V 50HZ C&C
71A6342	No Cross		-
71A6382	No Cross		-
71A6500	M1000120AC5M	ULT: 4.25 x 5.75 Frame ADV: 4.25 x 4.75 Frame	(1) 1000W MH M47 120 60Hz C&C
71A6502	M1000120AC5M		(1) 1000W MH M47 120 60Hz C&C
71A6512	M1000208AC5M		(1) 1000W MH M47 208 60Hz C&C
71A6522	M1000240AC5M		(1) 1000W MH M47 240 60Hz C&C
71A6532	M1000277AC5M		(1) 1000W MH M47 277V 60Hz C&C
71A6542	M100048TAC5M	ULT: 120 Tap Cu/Al Core ADV: Cu/Cu Core	(1) 1000W MH M47 48T 60Hz C&C
71A6542A	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
71A6542T	M100048TAC5M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 1000W MH M47 48T 60Hz C&C
71A6552	M1000ML5AC5M		(1) 1000W MH M47 MULTI-5 60HZ
71A6572	M1000MLTAC5M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 1000W MH M47 QUAD 60HZ C&C
71A6586	No Cross		-
71A6590	No Cross		-
71A6592	M1000MLTAC5M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 1000W MH M47 QUAD 60HZ C&C
71A6592A	M1000MLTAC5M		(1) 1000W MH M47 QUAD 60HZ C&C
71A65A2	M1000TRIAC5M		(1) 1000W MH M47 TRI 60HZ C&C
71A65B2	M1000TRIAC5M	ULT: 120/277/347 ADV: 347 only	(1) 1000W MH M47 TRI 60HZ C&C
71A65E6T	No Cross		-
71A65F0T	No Cross		-
71A65F6	No Cross		-
71A65J0	No Cross		-
71A65J2	No Cross		-
71A65M6	M1000230AC5M	ULT: 230V ADV: 200V	(1) 1000W MH M48 230V 50HZ C&C
71A65N2	M1000230AC5M	ULT: 230V ADV: 120/220/240	(1) 1000W MH M48 230V 50HZ C&C
71A65N3	M1000MLTAC5M		(1) 1000W MH M47 QUAD 60HZ C&C
71A65Y6	No Cross		-
71A65Z6	No Cross		-
71A6702	M1500120AC5M		(1) 1500W MH M48 120 60Hz C&C
71A6712	No Cross		-
71A6722	No Cross		-
71A6732	M1500277AC5M		(1) 1500W MH M48 277 60Hz C&C
71A6742	M1500480AC5M		(1) 1500W MH M48 480 60Hz C&C
71A6742A	M1500480AC5M	ULT: Cu/Cu Core ADV: Cu/Al Core	(1) 1500W MH M48 480 60Hz C&C
71A6742T	M150048TAC5M		(1) 1500W MH 48T 60Hz C&C
71A6753	No Cross		-
71A6772	M1500MLTAC5M		(1) 1500W MH M48 QUAD 60Hz C&C
71A6792	M1500MLTAC5M		(1) 1500W MH M48 QUAD 60Hz C&C
71A6792A	M1500MLTAC5M	ULT: Cu/Cu Core ADV: Cu/Al Core	(1) 1500W MH M48 QUAD 60Hz C&C
71A67A2	M1500TRIAC5M		(1) 1500W M48 TRI 60HZ
71A67J2	No Cross		-
71A67R2	M1500230AC5M	ULT: 230V ADV: 220/240	(1) 1500W MH M48 230V 50Hz C&C
71A67V2	No Cross		-
71A6890	No Cross		-
71A68F0	No Cross		-
71A68J0	No Cross		-
71A69E0	No Cross		-
71A69H0	No Cross		-
71A9804	No Cross		-
<b>Pulse Start Metal Halide</b>			
71A5005P	M35MLTLC3M	ULT: 3x4 core, HX-HPF, 120,208,240,277 ADV: 2x4 core	(1) 35W MH M130 MULTI 60HZ
71A5037BP	No Cross		-
71A5037P	No Cross		-
71A5037PJ	No Cross		-

Competitive P/N	Universal P/N	Comments	Universal Description
71A5081	M35MLTLC3M	ULT: HX-HPF, 120,208,240,277	(1) 35W MH M130 MULTI 60HZ
71A5105P	M50MLTLC3M	ULT: 3x4 core, HX-HPF, 120,208,240,277 ADV: 2x4 core	(1) 50W M110 MULTI 60HZ
71A5137BP	No Cross		-
71A5137J	No Cross		-
71A5137P	No Cross		-
71A5181	M50MLTLC3M	ULT: 120,208,240,277	(1) 50W M110 MULTI 60HZ
71A5191	M50MLTLC3M		(1) 50W M110 MULTI 60HZ
71A5205P	No Cross		-
71A5237BP	No Cross		-
71A5237J	No Cross		-
71A5237P	No Cross		-
71A5280	M70MLTLC3D	ULT: 120,208,240,277	1-70W MH M85 QUAD 60Hz C&C
71A5282	M70MLTLC3M	ULT: 120,208,240,277	(1) 70W MH M98 MULTI 60HZ C&C
71A5283	No Cross		-
71A5292	M70MLTLC3M		(1) 70W MH M98 MULTI 60HZ C&C
71A52A1	No Cross		-
71A52A2	M70TRILC3M		(1) 70W MH M98 TRIVOLT 60HZ
71A52H2	No Cross		-
71A52N2	No Cross		-
71A5337BP	No Cross		-
71A5337J	No Cross		-
71A5337P	No Cross		-
71A5340T	M10048TLC3M		(1) 100W 480V MH
71A5383	No Cross		-
71A5390	M100MLTLC30		(1) 100W MH M90 MULTI 60HZ C&C
71A53A0	M100TRILC3M		(1) 100W MH M90 TRI 60HZ C&C
71A53H0	No Cross		-
71A53N0	No Cross		-
71A5437BP	No Cross		-
71A5437J	No Cross		-
71A5437P	No Cross		-
71A5442T	M15048TLC3M		1-150W MH M102 48T 60Hz C&C
71A5443T	No Cross		-
71A5486	No Cross		-
71A5490	M150MLTLC3D		(1) 150W M81 MULTI 60HZ
71A5492	M150MLTLC3M		(1) 150W MH M102 MULTI 60HZ C&C
71A5493	M150MLTAC3M		(1) 150W MH M102/M142 MULTI 60HZ C&C
71A54A2	M150TRILC3M		(1) 150W MH M102 TRI 60HZ
71A54A3	No Cross		-
71A54C0	No Cross		-
71A54N2	No Cross		-
71A5504	No Cross		-
71A5534T	No Cross		-
71A5541TEE	P17548TAC4L	ULT: 120 Tap	1-175W PS M152 48T 60HZ LOW LOSS C&C - NO STARTER
71A5543TEE	P17548TAC3L	ULT: 120 Tap	(1) 175W PSMH M155 48T 60Hz LOW LOSS C&C
71A5544	No Cross		-
71A5544T	No Cross		-
71A5591EE	P175MLTAC4L		1-175W PS M132 QUAD 60Hz Low Loss C&C - Generic, Ignitor if required
71A5593	P175MLTAC3M		1-175W PS M137 QUAD 60Hz C&C
71A5593EE	P175MLTAC3L		1-175W PS M132 QUAD 60Hz Low Loss C&C - Generic, Dry cap
71A55A3	P175TRIAC3M		1-175W PS M137 TRI 60Hz C&C
71A55B4T	No Cross		-
71A5634T	No Cross		-
71A5637BP	P200277RCEM		(1) 200W PS M136 277V 60Hz
71A5642T	P20048TAC3M		(1) 200W PSMH M136 480-120 60HZ C&C
71A5642TEE	P20048TAC3M	ADV: EISA	(1) 200W PSMH M136 480-120 60HZ C&C
71A5692	P200MLTAC3M		(1) 200W MULTI 60HZ
71A5692EE	P200MLTAC3M	ADV: EISA	(1) 200W MULTI 60HZ
71A5693	P200MLTAC4M		1-200W PSMH M136 QUAD 60HZ 4.75" C&C
71A56A2	P200TRIAC3M		(1) 200W PS M136 TRI 60HZ C&C
71A56A3	P200TRIAC3M	ULT: 3x4 core ADV: 4x4 core	(1) 200W PS M136 TRI 60HZ C&C
71A5704	No Cross		-
71A5724T	No Cross		-
71A5734	No Cross		-
71A5734T	No Cross		-
71A5737BP	P250277RCEM		(1) 250W PS M138 277 60Hz
71A5742T	P25048TAC4L	ULT: EISA	(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
71A5742TEE	P25048TAC4L		(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
71A5744T	No Cross		-
71A5752AEE	P250ML5AC4M	ADV: EISA	(1) 250W PSMH M138 MULTI-5 60HZ C&C
71A5792A	P250MLTAC4L	ULT: EISA	(1) 250W PS M138 QUAD 60Hz C&C, DIST Kit
71A5792EE	P250MLTAC4L		(1) 250W PS M138 QUAD 60Hz Low Loss C&C
71A57A2	P250TRIAC4M		(1) 250W M138 TRIVOLT 60HZ
71A57B4T	No Cross		-
71A57N2	No Cross		-
71A5837BP	P320277RCEM		(1) 320 PSMH M132 277 60HZ REACTOR
71A5842T	P32048TAC4L	ULT: Cu/Al Core EISA ADV: Cu/Cu Core	(1) 320W PS M154 480-120V 60HZ LOW LOSS C&C
71A5842TA	P32048TAC4L	ULT: EISA	(1) 320W PS M154 480-120V 60HZ LOW LOSS C&C
71A5842TAAE	P32048TAC4L		(1) 320W PS M154 480-120V 60HZ LOW LOSS C&C
71A5852AEE	P320ML5AC4L		(1) 320W PSMH M132 MULTI-5 60HZ Low Loss C&C

Competitive P/N	Universal P/N	Comments	Universal Description
71A5892	P320MLTAC40	ULT: Cu/AI Core ADV: Cu/Cu Core	(1) 320 PSMH M132 MULTI 60HZ C&C
71A5892A	P320MLTAC40	ULT: EISA	(1) 320 PSMH M132 MULTI 60HZ C&C
71A5892AEE	P320MLTAC40		(1) 320 PSMH M132 MULTI 60HZ C&C
71A5892EE	P320MLTAC40	ULT: Cu/AI Core ADV: Cu/Cu Core	(1) 320 PSMH M132 MULTI 60HZ C&C
71A58A2	P320TRIAC4M		(1) 320W PS M132 TRI 60HZ C&C
71A58A2A	P320TRIAC4M	ULT: Cu/Cu Core ADV: Cu/AI Core	(1) 320W PS M132 TRI 60HZ C&C
71A58N2	No Cross		-
71A5934T	No Cross		-
71A5937BP	P350277RC		1-350W PS/MH M131 277V 60HZ C&C
71A5943T	P35048TAC40	ULT: Cu/AI Core EISA ADV: Cu/Cu Core	(1) 350W PS M131 480-120V 60HZ LOW LOSS C&C
71A5943TAEE	P35048TAC40		(1) 350W PS M131 480-120V 60HZ LOW LOSS C&C
71A5953AEE	P350ML5AC40		(1) 320W PSMH M131 MULTI-5 60HZ Low Loss C&C
71A5993	P350MLTAC40	ULT: Cu/AI Core EISA ADV: Cu/Cu Core	(1) 350W PS M131 QUAD 60HZ C&C
71A5993-A	P350MLTAC40	ULT: EISA	(1) 350W PS M131 QUAD 60HZ C&C
71A5993AEE	P350MLTAC40		(1) 350W PS M131 QUAD 60HZ C&C
71A5993EE	P350MLTAC40	ULT: Cu/AI Core ADV: Cu/Cu Core	(1) 350W PS M131 QUAD 60HZ C&C
71A59A3	P350TRIAC4M		(1) 350W PS M131 TRI 60HZ C&C
71A59A3-A	P350TRIAC4M	ULT: Cu/Cu Core ADV: Cu/AI Core	(1) 350W PS M131 TRI 60HZ C&C
71A6004	No Cross		-
71A6034T	No Cross		-
71A6042TA	P40048TAC4M	ULT: Cu/Cu EISA ADV: Cu/AI	(1) 400W PS M135 48T 60Hz C&C
71A6042TAEE	P40048TAC4L	ULT: Cu/Cu ADV: Cu/AI	(1) 400W PS M135 48T 60Hz C&C
71A6044T	No Cross		-
71A6052AEE	P400ML5AC4L		(1) 400W PS/MH M132 MULTI-5 60HZ C&C
71A6092	P400MLTAC4L	ULT: AI/AI EISA ADV: Cu/Cu	(1) 400W PS M135 QUAD 60HZ C&C
71A6092A	P400MLTAC4L	ULT: EISA	(1) 400W PS M135 QUAD 60HZ C&C
71A6092AEE	P400MLTAC4L		(1) 400W PS M135 QUAD 60HZ C&C
71A6092EE	P400MLTAC4L	ULT: AI/AI ADV: Cu/Cu	(1) 400W PS M135 QUAD 60HZ C&C
71A60A2A	P400TRIAC4M		(1) 400W PS M135 TRI 60HZ C&C
71A60B4T	No Cross		-
71A60E4T	No Cross		-
71A60N2	No Cross		-
71A60S4T	No Cross		-
71A6137BP	No Cross	ULT: EISA	(1) 400W PS/MH 277V 60HZ C&C
71A6137BP	No Cross		(1) 400W PS/MH 277V 60HZ C&C
71A61E6	No Cross		-
71A6240	No Cross		-
71A62F0	No Cross		-
71A6334T	No Cross		-
71A6337BP	No Cross		-
71A6337BP	No Cross		-
71A6343T	P45048TAC4L	ULT: EISA	(1) 400W PS M135 48T 60Hz C&C
71A6343TEE	P45048TAC4L		(1) 400W PS M135 48T 60Hz C&C
71A6393	P450MLTAC4L	ULT: EISA	(1) 450 PS M144 QUAD 60HZ C&C
71A6393EE	P450MLTAC4L		(1) 450 PS M144 QUAD 60HZ C&C
71A63A3	P450TRIAC4M		(1) 450W PSMH M144 TRI 60HZ C&C
71A6452	P750ML5AC5M		(1) 750W PSMH M149 MULTI-5 60HZ C&C
71A6490	P750MLTAC5M	ULT: 4.25 x 5.75 Frame ADV: 4.25 x 4.75 Frame	(1) 750W PS MULTI 60HZ C&C
71A6492	P750MLTAC5M		(1) 750W PS MULTI 60HZ C&C
71A6498	No Cross		-
71A64E2	No Cross		-
71A64F0T	No Cross		-
71A64F2	No Cross		-
71A64F8T	No Cross		-
71A6541	No Cross		-
71A6543A	P100048TAC5M		(1) 1000W PS 480V 60HZ C&C
71A6591	No Cross		-
71A6593	P1000MLTAC5M		(1) 1000W MH QUAD 60HZ C&C
71A65F1T	No Cross		-
71A65F3	No Cross		-
71A65F3T	No Cross		-

**High Pressure Sodium**

71A7707	S35120RC		(1) 35W HPS S76 120V 60Hz
71A7707B	1233251W		1-35W HPS S75 120V 60HZ C&C
71A7801	S50MLTLC3M	ULT: 120/208/240/277 ADV: 120/277	(1) 50W HPS S68 MULTI 60HZ C&C
71A7807	S50120RC		(1) 50W HPS S68 120V 60Hz
71A7807B	123335W		1-50W HPS S65 120V 60HZ C&C
71A78H1	No Cross		-
71A78R1	No Cross		-
71A7901	S7027TLC3M		(1) 70W HPS S62 277/120 60HZ C&C
71A7907	S70120RC		(1) 70W HPS S62 120V 60Hz
71A7907B	1233142W		(1) 70W HPS S62 120 60Hz C&C
71A7909	No Cross		-
71A7927	No Cross		-
71A7931	S7027TLC3M	ULT: 120/277 ADV: 277	(1) 70W HPS S62 277/120 60HZ C&C
71A7941	S7048TLC3M		(1) 70W HPS S62 480-120V 60HZ C&C
71A7950	No Cross		-
71A7971	S70MLTLC3M		(1) 100W HPS S54 QUAD 60HZ C&C
71A7980	No Cross		-
71A7988	No Cross		-
71A7991	S70MLTLC3M		(1) 100W HPS S54 QUAD 60HZ C&C

Competitive P/N	Universal P/N	Comments	Universal Description
71A79A1	S70TRILC3M		(1) 70W HPS S62 TRI 60Hz C&C
71A79E6	No Cross		-
71A79H8	No Cross		-
71A79J1	No Cross		-
71A79J9	No Cross		-
71A79N1	S70MLTLC3M	ULT: 120/208/240/277 ADV: 120/220/240	(1) 100W HPS S54 QUAD 60Hz C&C
71A79S1	S70230LC3M		(1) 70W HPS S62 230V 50HZ C&C
71A8001	S10027TLC3M		(1) 100W HPS S54 120/277 60Hz C&C
71A8007	S100120RCEM		(1) 100W HPS S54 120 60Hz
71A8007B	123310W		(1) 100W HPS S54 120 60Hz C&C
71A8011	S100MLTLC3M	ULT: 120/208/240/277 ADV: 208	(1) 100W HPS S45 TRI 60HZ C&C
71A8030	No Cross		-
71A8031	S10027TLC3M	ULT: 120/277 ADV: 277	(1) 100W HPS S54 120/277 60Hz C&C
71A8041	S10048TLC3M		(1) 100W HPS S52 48T 60Hz C&C
71A8048	No Cross		-
71A8050	No Cross		-
71A8056	No Cross		-
71A8071	S100MLTLC3M		(1) 100W HPS S45 TRI 60HZ C&C
71A8080	No Cross		-
71A8085	No Cross		-
71A8088	No Cross		-
71A8091	S100MLTLC3M		(1) 100W HPS S45 TRI 60HZ C&C
71A80A1	S100TRILC3M		(1) 100W HPS S54 TRI 60HZ C&C
71A80B6	No Cross		-
71A80E6	No Cross		-
71A80G7	No Cross		-
71A80H8	No Cross		-
71A80J1	No Cross		-
71A80J9	No Cross		-
71A80N1	No Cross		-
71A80S1	No Cross		-
71A80W1	No Cross		-
71A8100	No Cross		-
71A8102	S15027TLC3M	ULT: 120/277/347 ADV: 120/277	(1) 150W HPS S55 120/277 60Hz C&C
71A8107	S150120RCEM		(1) 150W HPS S50 120V 60HZ
71A8107B	1233154W		(1) 150W HPS S55 120 60Hz C&C
71A8107J	No Cross		-
71A8118	No Cross		-
71A8132	S15027TLC3M	ULT: 120/277 ADV: 277	(1) 150W HPS S55 120/277 60Hz C&C
71A8142	S15048TLC3M	ULT: 120T	(1) 150W HPS S55 48T 60Hz C&C
71A8142T	S15048TLC3M		(1) 150W HPS S55 48T 60Hz C&C
71A8146	No Cross		-
71A8148	No Cross		-
71A8150	No Cross		-
71A8156	No Cross		-
71A8160	No Cross		-
71A8172	S150MLTLC30		(1) 150W HPS S55 MULTI 60HZ C&C
71A8176	No Cross		-
71A8180	No Cross		-
71A8188	No Cross		-
71A8192	S150MLTLC30		(1) 150W HPS S55 MULTI 60HZ C&C
71A8196	No Cross		-
71A81A2	S150TRILC3M		(1) 150W HPS S55 MULTI 60HZ C&C
71A81B6	No Cross		-
71A81E6	No Cross		-
71A81G7	No Cross		-
71A81H8	No Cross		-
71A81J2	No Cross		-
71A81J8	No Cross		-
71A81J9	No Cross		-
71A81N2	No Cross		-
71A81R6	No Cross		-
71A81S2	No Cross		-
71A81W2	No Cross		-
71A8201	S250120AC4M		(1) 250W HPS S50 120 60Hz C&C
71A8211	S250208AC4M		(1) 250W HPS S50 208V 60HZ C&C
71A8220	No Cross		-
71A8221	S250240AC4M		(1) 250W HPS S50 240 60HZ C&C
71A8231	No Cross		-
71A8241	S250480AC4M		(1) 250W HPS S50 480 60Hz C&C
71A8241A	S250480AC4M		(1) 250W HPS S50 480 60Hz C&C
71A8241T	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
71A8250	No Cross		-
71A8251	S250ML5AC40		(1) 250W HPS S50 MULTI-5 60HZ C&C
71A8255	No Cross		-
71A8256	No Cross		-
71A8260	No Cross		-
71A8271	S250MLTAC4M		(1) 250W HPS S50 MULTI 60HZ C&C
71A8280	No Cross		-
71A8281	No Cross		-
71A8291	S250MLTAC4M	ULT: Cu/Al Core ADV: Cu/Cu Core	(1) 250W HPS S50 MULTI 60HZ C&C
71A8291A	S250MLTAC4M		(1) 250W HPS S50 MULTI 60HZ C&C

Competitive P/N	Universal P/N	Comments	Universal Description
71A8296	No Cross		-
71A82A1	S250TRIAC4M		(1) 250W HPS S50 TRI 60Hz C&C
71A82B1	No Cross		-
71A82B6	No Cross		-
71A82E6	No Cross		-
71A82H1	No Cross		-
71A82J1	No Cross		-
71A82J9	S250MLTAC4M	ULT: 120 and 277 tap also	(1) 250W HPS S50 CWA QUAD 60Hz C&C
71A82N1	S250230AC4M	ULT: 220/230/240 ADV: 120/230	(1) 250W HPS S50 230V 50HZ C&C
71A82V1	No Cross		-
71A82W1	No Cross		-
71A8327	No Cross		-
71A8341	No Cross		-
71A8343-250	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
71A8350	No Cross		-
71A8360	No Cross		-
71A8371	No Cross		-
71A8373-250	S250MLTAC4M		(1) 250W HPS S50 MULTI 60Hz C&C
71A8391	No Cross		-
71A8410	No Cross		-
71A8413	No Cross		-
71A8423	No Cross		-
71A8433	S400277AC4M	ULT: S51 only	(1) 400W HPS S51 277 60Hz C&C
71A8440	No Cross		-
71A8440-T	No Cross		-
71A8443	S400480AC4M	ULT: S51 only	(1) 400W HPS S51 480 60Hz C&C
71A8443A	S400480AC4M	ULT: Cu/Cu Core S51 Only ADV: Cu/Al Core	(1) 400W HPS S51 480 60Hz C&C
71A8443T	S40048TAC4M	ULT: S51 only	(1) 400W HPS S51 480 60Hz C&C
71A8450	No Cross		-
71A8453	S400ML5AC4M	ULT: S51 only	(1) 400W HPS S51 MULT-5 60Hz C&C
71A8455	No Cross		-
71A8460	No Cross		-
71A8473	S400MLTAC4M	ULT: S51 only	(1) 400 HPS S51 QUAD 60Hz C&C
71A8476	No Cross		-
71A8480	No Cross		-
71A8490	No Cross		-
71A8493	S400MLTAC4M	ULT: S51 only	(1) 400 HPS S51 QUAD 60Hz C&C
71A8493A	S400MLTAC4M	ULT: Cu/Cu Core ADV: Cu/Al Core	(1) 400 HPS S51 QUAD 60Hz C&C
71A84A3	S400TRIAC4M		(1) 400W HPS S51 TRI 60Hz C&C
71A84B6	No Cross		-
71A84E6	No Cross		-
71A84E7	No Cross		-
71A84H3	No Cross		-
71A84N3	S400230AC4M	ULT: 230 ADV: 120/230	(1) 400W HPS S51 230V 50HZ
71A84W2	No Cross		-
71A8590	No Cross		-
71A85B0	No Cross		-
71A85B7	No Cross		-
71A85E5	S600MLTAC5M	ULT: 120/208/240/277 ADV: 120/208/240	(1) 600W HPS S106 QUAD 60Hz C&C
71A85E6	S430MLTAC4M	ULT: 120/208/240/277 ADV: 120/208/240	(1) 430W HPS SONAGRO QUAD 60Hz C&C
71A85F5	No Cross		-
71A85F6	No Cross		-
71A85F8	No Cross		-
71A86E5	No Cross		-
71A86EX	No Cross		-
71A86F5	No Cross		-
71A86F5T	No Cross		-
71A8703	No Cross		-
71A8733	No Cross		-
71A8743	S1000480AC5M		(1) 1000W HPS S52 480 60Hz C&C
71A8743T	S1000480AC5M		(1) 1000W HPS S52 480 60Hz C&C
71A8753	S1000ML5AC5M		(1) 1000W HPS S52 MULTI-5 60HZ
71A8773	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
71A8793	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
71A87A3	S1000TRIAC5M		(1) 1000W HPS S52 TRI 60Hz C&C
71A87J3	No Cross		-
71A87R3	No Cross		-
71A87V9	No Cross		-
71A8940	S20048TAC4M		(1) 200W HPS S66 480V 60Hz C&C
71A8941	No Cross		-
71A8954	No Cross		-
71A8955	No Cross		-
71A8956	No Cross		-
71A8964	No Cross		-
71A8970	S200MLTAC4M		(1) 200W HPS S66 QUAD 60Hz C&C
71A8990	S200MLTAC4M		(1) 200W HPS S66 QUAD 60Hz C&C
71A8991	No Cross		-
71A9884	No Cross		-
71A9891	S70230LC3M	90V	(1) 70W HPS S62 230V 50Hz C&C
71A9893	No Cross		-
71A9894	No Cross		-
71A9898	S430MLTAC4M	ULT: 120/208/240/277 ADV: 120/208/240	(1) 430W HPS SONAGRO QUAD 60Hz C&C

Competitive P/N	Universal P/N	Comments	Universal Description
71A9907	S100MLTLC3M		(1) 100W HPS S55 HX-HPF QUAD 60Hz C&C
71A9911	No Cross		-
71A9912	No Cross		-
71A9928-100	No Cross		-
71A9928-150	No Cross		-
71A9932	No Cross		-
71A9934	S100MLTLC3M		(1) 100W HPS S55 HX-HPF QUAD 60Hz C&C
71A9935	S100MLTLC3M	ULT: 120/208/240/277 ADV: 120/220/240/277	(1) 100W HPS S45 TRI 60Hz C&C
71A9944	No Cross		-
71A9945	1233183S		(1) 200W HPS S66 240V 60Hz C&C
71A9947	No Cross		-
71A9948	1233183S		(1) 200W HPS S66 240V 60Hz C&C
71A9953	No Cross		-
71A9956	No Cross		-
<b>Low Pressure Sodium</b>			
71A0280	No Cross		-
71A0490	No Cross		-
71A04F0	No Cross		-
71A0590	No Cross		-
71A05F0	No Cross		-
71A0790	No Cross		-
71A07F0	No Cross		-
<b>Mercury Vapor</b>			
71A35J2	No Cross		-
<b>F-Can Ballasts</b>			
72C0732	No Cross		-
72C2584	No Cross		-
72C25C4	No Cross		-
72C29C4	No Cross		-
72C3084	No Cross		-
72C30C4	No Cross		-
72C3584	No Cross		-
72C4083	No Cross		-
72C5005	1120251ATC	ULT: CWA ADV HX-PFC	(1) 35W MH M130 120 60Hz F-CAN
72C5081	No Cross		-
72C5181	11210236CTC		(1) 50W MH M110 120/277 60Hz F-CAN
72C51C1	No Cross		-
72C5280	11210277CTC		(1) 70W MH M85 120/277 60Hz F-CAN
72C5281	No Cross		-
72C5281NP900	No Cross		-
72C5282	11210506CTC		(1) 70W MH M98 120/277 60Hz F-Can
72C5282NP900	11210506CTC		(1) 70W MH M98 120/277 60Hz F-Can
72C52C0	No Cross		-
72C52C1NP900	No Cross		-
72C52C2	11210554CTC		(1) 70W MH M98 120/347 60Hz F-Can
72C5381	11210239CTC	ULT: M90 only	(1) 100W MH M90 120/277 60Hz F-Can
72C5381NP900	11210239CTC	ULT: M90 only	(1) 100W MH M90 120/277 60Hz F-Can
72C53C1	11210606CTC	ULT: M90 only	(1) 100W MH M90 120/347 60Hz F-Can
72C53H1	No Cross		-
72C5481	11210242CTC		(1) 150W MH M81 120/277 60Hz F-CAN
72C5482	11210539CTC	ULT: M102 only	(1) 150W MH M102 120/277 60Hz F-CAN
72C5482NP900	11210539CTC	ULT: M102 only	(1) 150W MH M102 120/277 60Hz F-CAN
72C54C1	No Cross		-
72C54C2NP900	No Cross		-
72C5581	11102455CTC	ULT: M57 only	(1) 175W MH M57 120/277 60Hz F-CAN
72C5582	No Cross		-
72C55C1	1110564CTC	ULT: M57 only	(1) 175W MH M57 120/347 60Hz F-CAN
72C55H1	No Cross		-
72C5782	1110246CTC		(1) 250W MH M58 120/277 60Hz F-Can
72C5783	No Cross		-
72C57C2	1110566CTC		(1) 250W MH M58 120/347 60Hz F-CAN
72C5882	No Cross		-
72C5983	No Cross		-
72C6082	11102475CTC		(1) 400W MH M59 120/277 60Hz F-Can
72C6182	No Cross		-
72C7884	12210236CTC		(1) 50W HPS S68 120/277 60Hz F-Can
72C7984	12210237CTC		(1) 70W HPS S62 120/277 60Hz F-Can
72C79C4	12210552CTC		(1) 70W HPS S62 120/347 60Hz F-Can
72C8084	12210239CTC		(1) 100W HPS S54 120/277 60Hz F-Can
72C80C4	12210606CTC		(1) 100W HPS S54 120/347 60Hz F-Can
72C8185	12210241CTC		(1) 150W HPS S55 120/277 60Hz F-CAN
72C81C5	12210602CTC		(1) 150W HPS S55 120/347 60Hz F-CAN
<b>eHID Ballasts</b>			
IMH-100-A-BLS	M10012-27CK-5EU-J	ULT unit is 100W only	M/C90, M/C140
IMH-100-A-BLS-ID	M10012/27CK-5EU-JT3	ULT unit has different wiring diagram.	M/C90, M/C140
IMH-100-A-LF	M10012-27CK-5EU-F	ULT unit is 100W only	M/C90, M/C140
IMH-100-B-LF	M10012-27CK-5EU-F		M/C90, M/C140
IMH-100-D-LF	M10012-27CK-5EU-F	ULT unit slightly larger	M/C90, M/C140
IMH-239-A-BLS	No Cross		-

Competitive P/N	Universal P/N	Comments	Universal Description
IMH-239-A-LF	No Cross		
IMH-39-A-BLS-ID	M3912-27CK-5EU-JT3 or M3912-27CK-6EU-JT3	ULT unit has different wiring diagram. 188629 is standard case size; 188897 is mini-square size.	M130 or C130
IMH-39-E-LF	M3912CK-6EUN-F	ULT unit 120V only	M130 or C130
IMH-39-G-BLS	M3912-27CK-6EU-J		M130 or C130
IMH-39-G-LF	M3912-27CK-6EU-F		M130 or C130
IMH-39-J-LF	M3912CK-6EUN-F	ULT unit 120V only	M130 or C130
IMH-50-A-BLS	M5012/27CK-5EU-JT3	ULT unit has purple control lead; must be capped off.	M/C 110 or M/C148
IMH-50-A-LF	M5012-27CK-5EU-F		M/C 110 or M/C148
IMH-70-A-BLS-ID	M7012/27CK-5EU-JT3	ULT unit has different wiring diagram.	M/C98, M/C139
IMH-70-A-LF	M7012-27CK-5EU-F		M/C98, M/C139
IMH-70-D-BLS	M7012-27CK-5EU-J	ULT unit slightly larger	M/C98, M/C139
IMH-70-D-LF	M7012-27CK-5EU-F	ULT unit slightly larger	M/C98, M/C139
IMH-70-E-LF	M7012CK-6EUN-F	ULT unit 120V only	M/C98, M/C139
IMH-70-G-BLS	M7012-27CK-6EU-J		M/C98, M/C139
IMH-70-G-LF	M7012-27CK-6EU-F		M/C98, M/C139
IMH-70-J-LF	M7012CK-6EUN-F	ULT unit 120V only	M/C98, M/C139
IMH-G20-E-LF	M2012CK-7EUN-F	Advance unit is 120-277V. ULT unit is 120V ONLY and is smaller; may need spacers to provide tight fit	M156 or C156
IMH-G20-G-BLS	M2012-27CK-6EU-J		M156 or C156
IMH-G20-G-LF	M2012-27CK-6EU-F		M156 or C156
RMH-20-E-BLS	M2212CK-7EUN-J	ULT unit is smaller, may need spacers to provide tight fit	C/M175
RMH-20-E-LF	M2212CK-7EUN-F	ULT unit is smaller, may need spacers to provide tight fit	C/M175
RMH-20-K-LF	M2212CK-7EUN-F	ULT unit is smaller, may need spacers to provide tight fit	C/M175
RMH-20-K-LFS	M2212CK-7EUN-F	Advance unit has leads out one end; ULT units has leads out both ends. ULT unit is smaller, may need spacers to provide tight fit	C/M175
RMH-39-K-BLS	MTm3912CK-7EUN-J		C179
RMH-39-K-LF	MTm3912CK-7EUN-F	ULT unit shorter	C179
RMH-39-K-LFS	MTm3912CK-7EUN-F	Advance unit has leads out one end; ULT unit leads are out either end	C179
RMH-G20-K-LF	M2012CK-7EUN-F	ULT unit is shorter	M156 or C156
RMH-G20-K-LFS	M2012CK-7EUN-F	Advance unit has leads out one end; ULT unit leads are out both ends	M156 or C156
IMH-100-D-BLS	M10012-27CK-5EU-J	ULT unit slightly larger	M/C90, M/C140
IMH-150-H-BLS	M15012-27CK-5EU-J		M/C102 or M/C142
IMH-150-H-LF	M15012-27CK-5EU-F		M/C102 or M/C142

## Aromat to Universal Lighting Technologies

### eHID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
JM7012CK-6EU-F	M7012-27CK-6EU-F		M98, M139, M143
M10012-27CK-5EU	M10012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M90, M140
M10012-27CK-5EU-F	M10012-27CK-5EU-F		M90, M140
M10012-27CK-5EU-J	M10012-27CK-5EU-J		M90, M140
M10012-27CK-5EU-JS6	M10012-27CK-5EU-J or M10012/27CK-JT3S6	The 188302 has 7" long leads; wire nut into existing leads. The 188651 has 36" leads and and extra "purple" lead that should be capped off".	M90, M140
M10012-27CK-5EU-JT	M10012/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M90, M140
M10012-27CK-5EU-JTS6	M10012/27CK-5EU-JT3 or M10012/27CK-5EU-JT3S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188633 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188651 has 36" leads and "purple" lead that must wired per its wiring diagram.	M90, M140
M10012/27CK-5EU-JA2	M10012/27CK-5EU-JA3	WARNING: Verify proper thermal protector wiring differences when installing.	M90, M140
M10012/27CK-5EU-JT2	M10012/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M90, M140
M10012/27CK-5EU-JT2S	M10012/27CK-5EU-JT3 or M10012/27CK-5EU-JT3-S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188633 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188651 has 36" leads and "purple" lead that must wired per its wiring diagram.	M90, M140
M10012CK-3EU	M10012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M90, M140
M10012CK-3EU-F	M10012-27CK-5EU-F		M90, M140
M10012CK-3EU-J	M10012-27CK-5EU-J		M90, M140
M10027CK-3EU	M10012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M90, M140
M10027CK-3EU-F	M10012-27CK-5EU-F		M90, M140
M10027CK-3EU-J	M10012-27CK-5EU-J		M90, M140
M15012-27CK-5EUN-F	M15012-27CK-5EU-F	Warning: Replacement unit for use only in enclosed fixtures on enclosed rated lamps . Replacement case size has different form factor, please check mounting footprint.	M102 or M142
M15012-27CK-5EUN-J	M15012-27CK-5EU-J	Warning: Replacement unit for use only in enclosed fixtures on enclosed rated lamps . Replacement case size has different form factor, please check mounting footprint.	M102 or M142
M15012CK-3EU-F	M15012-27CK-5EU-F	Warning: Replacement unit for use only in enclosed fixtures on enclosed rated lamps . Replacement case size much smaller, check mounting footprint.	M102 or M142
M15012CK-3EU-J	M15012-27CK-5EU-J	Warning: Replacement unit for use only in enclosed fixtures on enclosed rated lamps . Replacement case size much smaller, check mounting footprint.	M102 or M142
M15027CK-3EU-F	M15012-27CK-5EU-F	Case size much smaller, check mounting footprint. Enclosed Rated lamps only!!	M102 or M142
M15027CK-3EU-J	M15012-27CK-5EU-J	Case size much smaller, check mounting footprint. Enclosed Rated lamps only!!	M102 or M142
M2012-27CK-3EU-F	M2012-27CK-5EU-F		M156 or C156
M2012-27CK-3EU-J	M2012/27CK-5EU-JT3	188611 unit has purple control lead; must be capped off.	M156 or C156
M2012CK-3EU-F	M2012-27CK-5EU-F		M156 or C156
M2012CK-3EU-J	M2012/27CK-5EU-JT3	188611 unit has purple control lead; must be capped off.	M156 or C156
M2012CK-6EU-F	M2012-27CK-6EU-F		M156 or C156
M2012CK-6EUN-F	M2012CK-6EUN-F		M156 or C156
M2027CK-3EU-F	M2012-27CK-5EU-F		M156 or C156
M2027CK-3EU-J	M2012/27CK-5EU-JT3	188611 unit has purple control lead; must be capped off.	M156 or C156
M3512CK-3EU	M3912-27CK-5EU		M130 or C130
M3512CK-3EU-F	M3912-27CK-5EU-F		M130 or C130
M3512CK-3EU-J	M3912-27CK-5EU-J		M130 or C130
M3527CK-3EU	M3912-27CK-5EU		M130 or C130
M3527CK-3EU-F	M3912-27CK-5EU-F		M130 or C130
M3527CK-3EU-J	M3912-27CK-5EU-J		M130 or C130
M3912-27CK-3EU	M3912-27CK-5EU		M130 or C130
M3912-27CK-3EU-F	M3912-27CK-5EU-F		M130 or C130
M3912-27CK-3EU-F	M3912-27CK-5EU		M130 or C130
M3912-27CK-3EU-J	M3912-27CK-5EU-F		M130 or C130
M3912-27CK-5EU	M3912-27CK-5EU-J		M130 or C130
M3912-27CK-5EU-F	M3912-27CK-5EU		M130 or C130
M3912-27CK-5EU-J	M3912-27CK-5EU-F		M130 or C130
M3912-27CK-5EU-JS6	M3912-27CK-5EU-J		M130 or C130



Competitive P/N	Universal P/N	Comments	Universal Description
M3912-27CK-5EU-JT	M3912-27CK-5EU-J or M3912/27CK-5EU-JT3-S6	The 188301 has 7" long leads; wire nut into existing leads. 188649 has 36" leads and and extra "purple" lead that should be capped off".	M130 or C130
M3912-27CK-5EU-JTS6	M3912/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M130 or C130
M3912-27CK-5EU-JTS6	M3912/27CK-5EU-JT3 or M3912/27CK-5EU-JT3-S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188629 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188649 has 36" leads and "purple" lead that must wired per its wiring diagram.	M130 or C130
M3912/27CK-5EU-JA2	M3912/27CK-5EU-JA3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M130 or C130
M3912/27CK-5EU-JT2	M3912/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M130 or C130
M3912/27CK-5EU-JT2S6	M3912/27CK-5EU-JT3 or M3912/27CK-5EU-JT3-S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188629 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188649 has 36" leads and "purple" lead that must wired per its wiring diagram.	M130 or C130
M3912CK-3EU	M3912-27CK-5EU		M130 or C130
M3912CK-3EU-F	M3912-27CK-5EU-F		M130 or C130
M3912CK-3EU-J	M3912-27CK-5EU-J		M130 or C130
M3912CK-3EUN-F	M3912CK-6EUN-F	Replacement case size much smaller, check mounting footprint	M130 or C130
M3912CK-3EUN-S3	M3912CK-6EUN-F	Replacement case size much smaller, check mounting footprint	M130 or C130
M3912CK-6EU-F	M3912-27CK-6EU-F		M130 or C130
M3912CK-6EUN-F	M3912CK-6EUN-F		M130 or C130
M3927CK-3EU	M3912-27CK-5EU		M130 or C130
M3927CK-3EU-F	M3912-27CK-5EU-F		M130 or C130
M3927CK-3EU-J	M3912-27CK-5EU-J		M130 or C130
M5012-27CK-3EU-F	M5012-27CK-5EU-F		M5012-27CK-3EU-F
M5012-27CK-3EU-J	M5012/27CK-5EU-JT3	The 188613 has a purple control lead; must be capped off.	M5012-27CK-3EU-J
M5012-27CK-5EU-JS6	M5012/27CK-5EU-JT3 or M5012/27CK-5EU-JT3-S6	The 188613 has 7" long leads; wire nut into existing leads and cap off the extra "purple" lead. The 188671 has 36" leads and and extra "purple" lead that should be capped off".	M5012-27CK-5EU-JS6
M7012-27CK-3EU	M7012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M98, M139, M143
M7012-27CK-3EU-F	M7012-27CK-5EU-F		M98, M139, M143
M7012-27CK-3EU-J	M7012-27CK-5EU-J		M98, M139, M143
M7012-27CK-5EU	M7012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M98, M139, M143
M7012-27CK-5EU-F	M7012-27CK-5EU-F		M98, M139, M143
M7012-27CK-5EU-J	M7012-27CK-5EU-J		M98, M139, M143
M7012-27CK-5EU-JS6	M7012-27CK-5EU-J or M7012-27CK-5EU-JT3-S6	The 188167 has 7" long leads; wire nut into existing leads. The 188650 has 36" leads and and extra "purple" lead that should be capped off".	M98, M139, M143
M7012-27CK-5EU-JT	M7012/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M98, M139, M143
M7012-27CK-5EU-JTS6	M7012/27CK-5EU-JT3 or M7012/27CK-5EU-JT3-S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188631 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188650 has 36" leads and "purple" lead that must wired per its wiring diagram.	M98, M139, M143
M7012/27CK-5EU-JA2	M7012/27CK-5EU-JA3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M98, M139, M143
M7012/27CK-5EU-JT2	M7012/27CK-5EU-JT3	WARNING: Verify proper fixture thermal protector wiring differences when installing.	M98, M139, M143
M7012/27CK-5EU-JT2S6	M7012/27CK-5EU-JT3 or M7012/27CK-5EU-JT3-S6	WARNING: Verify proper fixture thermal protector wiring differences when installing. The 188631 has 7" long leads; wire nut into existing leads; connect the purple lead per its wiring diagram. The 188650 has 36" leads and "purple" lead that must wired per its wiring diagram.	M98, M139, M143
M7012CK-1EU	M7012-27CK-5EU	VS unit case size is smaller, may need spacers to assure tight fit.	M98, M139, M143
M7012CK-1EU-F	M7012-27CK-5EU-F	Replacement case size much smaller, check mounting footprint	M98, M139, M143
M7012CK-2EU-J	M7012-27CK-5EU-J		M98, M139, M143
M7012CK-3EU	M7012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M98, M139, M143
M7012CK-3EU-F	M7012-27CK-5EU-F		M98, M139, M143
M7012CK-3EU-J	M7012-27CK-5EU-J		M98, M139, M143

Competitive P/N	Universal P/N	Comments	Universal Description
M7012CK-3EUN-F	M7012CK-6EUN-F	VS unit case size is smaller, may need spacers to assure tight fit.	M98, M139, M143
M7012CK-6EUN-F	M7012-27CK-6EUN-F		M98, M139, M143
M7027CK-3EU	M7012-27CK-5EU-F	Replacement ballast has feet; remove if necessary.	M98, M139, M143
M7027CK-3EU-F	M7012-27CK-5EU-F		M98, M139, M143
M7027CK-3EU-J	M7012-27CK-5EU-J		M98, M139, M143

## eHID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
MC20-1-F-120U	M2012-27CK-6EU-F		M156 or C156
MC20-1-F-120U	M2012-27CK-6EU-F		M156 or C156
MC20-1-F-120V	M2012CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M156 or C156
MC20-1-F-120V	M2012CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M156 or C156
MC20-1-F-120VN	M2012CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M156 or C156
MC20-1-F-120VN	M2012CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M156 or C156
MC20-1-F-120X	M2012CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M156 or C156
MC20-1-F-277U	M2012-27CK-6EU-F		M156 or C156
MC20-1-F-277U	M2012-27CK-6EU-F		M156 or C156
MC20-1-F-277V	No Cross		
MC20-1-F-277V	No Cross		
MC20-1-F-277VN	No Cross		
MC20-1-F-277VN	No Cross		
MC20-1-F-277X	No Cross		
MC20-1-F-UNNS	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit.	M156 or C156
MC20-1-F-UNNSL	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit. ULT unit has leads out both ends.	M156 or C156
MC20-1-F-UNNSL	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit. ULT unit has leads out both ends.	M156 or C156
MC20-1-F-UNNU	M2012-27CK-6EU-F		M156 or C156
MC20-1-J-120U	M2012-27CK-6EU-J		M156 or C156
MC20-1-J-120U	M2012-27CK-6EU-J		M156 or C156
MC20-1-J-120X	M2012CK-7EUN-J		M156 or C156
MC20-1-J-277U	M2012-27CK-6EU-J		M156 or C156
MC20-1-J-277U	M2012-27CK-6EU-J		M156 or C156
MC20-1-J-277X	No Cross		
MC20-1-J-UNNU	M2012-27CK-6EU-J		M156 or C156
MC20-1-T-UNNS	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit.	M156 or C156
MC20-1-T-UNNSL	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit. ULT unit has leads out both ends.	M156 or C156
MC20-1-T-UNNSL	M2012CK-7EUN-F	ULT unit is 120V only. ULT unit is smaller , may need spacers to assure tight fit. ULT unit has leads out both ends.	M156 or C156
MC39-1-F-120U	M3912-27CK-6EU-F		M130 or C130
MC39-1-F-120V	M3912CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M130 or C130
MC39-1-F-120VN	M3912CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M130 or C130
MC39-1-F-120X	M3912CK-7EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M130 or C130
MC39-1-F-277U	M3912-27CK-6EU-F		M130 or C130
MC39-1-F-277V	M3927CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M130 or C130
MC39-1-F-277VN	M3927CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M130 or C130
MC39-1-F-277X	No Cross		
MC39-1-F-UNNS	M3912CK-6EUN-F	ULT unit is 120V only.	M130 or C130
MC39-1-F-UNNSL	M3912CK-6EUN-F	ULT unit is 120V only with leads out both ends.	M130 or C130
MC39-1-F-UNNU	M3912-27CK-6EU-F		M130 or C130
MC39-1-J-120U	M3912-27CK-6EU-J		M130 or C130
MC39-1-J-120X	M3912CK-7EUN-J		M130 or C130
MC39-1-J-277U	M3912-27CK-6EU-J		M130 or C130
MC39-1-J-277X	No Cross		
MC39-1-J-UNNU	M3912-27CK-6EU-J		M130 or C130
MC39-1-T-UNNS	No Cross		
MC39-1-T-UNNSL	No Cross		
MC50-1-F-120U	M5012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C 110 or M/C148
MC50-1-F-120V	No Cross		
MC50-1-F-120VN	No Cross		
MC50-1-F-240U	M5012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C 110 or M/C148
MC50-1-F-277U	M5012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C 110 or M/C148
MC50-1-F-277V	No Cross		
MC50-1-F-277VN	No Cross		
MC50-1-F-UNNU	No Cross		
MC50-1-J-120U	M5012/27CK-5EU-JT3	ULT unit is slightly larger; check dimensions for fit. Cap off purple control lead.	M/C 110 or M/C148
MC50-1-J-240U	M5012/27CK-5EU-JT3	ULT unit is slightly larger; check dimensions for fit. Cap off purple control lead.	M/C 110 or M/C148

Competitive P/N	Universal P/N	Comments	Universal Description
MC50-1-J-277U	M5012/27CK-5EU-JT3	ULT unit is slightly larger; check dimensions for fit. Cap off purple control lead.	M/C 110 or M/C148
MC50-1-J-UNNU	No Cross		
MC70-1-F-120U	M7012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-F-120V	M7012CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M/C98, M/C139
MC70-1-F-120VN	M7012CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M/C98, M/C139
MC70-1-F-240U	M7012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-F-277U	M7012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-F-277V	M7027CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M/C98, M/C139
MC70-1-F-277VN	M7027CK-6EUN-F	ULT unit is smaller; may need spacers to assure tight fit.	M/C98, M/C139
MC70-1-F-UNNU	M7012-27CK-5EU-F	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-J-120U	M7012-27CK-5EU-J	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-J-240U	M7012-27CK-5EU-J	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-J-277U	M7012-27CK-5EU-J	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC70-1-J-UNNU	M7012-27CK-5EU-J	ULT unit is slightly larger; check dimensions for fit.	M/C98, M/C139
MC100-1-F-120U	M10012-27CK-5EU-F		M/C90, M/C140
MC100-1-F-240U	M10012-27CK-5EU-F		M/C90, M/C140
MC100-1-F-277U	M10012-27CK-5EU-F		M/C90, M/C140
MC100-1-F-UNNU	M10012-27CK-5EU-F		M/C90, M/C140
MC100-1-J-120U	M10012-27CK-5EU-J		M/C90, M/C140
MC100-1-J-240U	M10012-27CK-5EU-J		M/C90, M/C140
MC100-1-J-277U	M10012-27CK-5EU-J		M/C90, M/C140
MC100-1-J-UNNU	M10012-27CK-5EU-J		M/C90, M/C140

eHID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
GEMH20-MC-120	M2012CK-7EUN		M156 or C156
GEMH20-MLF-120	M2012CK-7EUN-F	ULT unit is slightly larger; check dimensions for fit.	M156 or C156
GEMH39-MC-120	M3912CK-7EUN	ULT unit is slightly larger; check dimensions for fit.	M130 or C130
GEMH39-MCM-120	M3912CK-7EUN	ULT unit is slightly larger; check dimensions for fit.	M130 or C130
GEMH39-MSF-120	M3912-27CK-6EU-F		M130 or C130
GEMH50-MSF-120	No Cross	ULT has 50W options in larger 5EU multi-volt units	M/C110 or M/C148
GEMH70-MSF-120	JM7012CK-6EU-F		M/C98, M/C139
GEMH70-SLF-MV	M7012CK-6EUN-F	ULT unit is 120V only. ULT unit is much smaller; may need spacers to assure tight fit.	M/C98, M/C139
GEMH70-SLF-MV	M7027CK-6EUN-F	ULT unit is 277V only. ULT unit is much smaller; may need spacers to assure tight fit.	M/C98, M/C139
GEMH70-SLF-MV	M7012-27CK-5EU-J	ULT unit is wider; check dimensions for fit.	M/C98, M/C139
GEMH100-SLF-MV	M10012-27CK-5EU-J	ULT unit is wider; check dimensions for fit.	M/C90, M/C140
GEMH150-SLF-MV	M15012-27CK-5EU-F		M/C102 or M/C142

Electronic Fluorescent Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
GE-132-120-N	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120V
GE-132-277-N	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120-277V
GE-132-MAX-L/Ultra	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF
GE-132-MAX-N/Ultra	B132IUNVHE-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
GE-132-MV-N	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS UNV 60 HBCC
GE-132-MVPS-H	B232PUNVHEH-A	De-Lamp application	
GE-132-MVPS-L	B232PUNVEL-B	De-Lamp application	Electronic FL Ballast (1) F32T8 PRS 120-277V HI-EFF Low BF
GE-132-MVPS-N	B232PUNVHE-B	Also: B132PUNVHP-A	Electronic FL Ballast (1) F32T8 PRS 120-277V HI-EFF
GE-132-N-347	B132I347HP		
GE-159-MAX-N/Ultra	B259IUNVHE-A	De-Lamp application, BF is different, Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-159-MV-N	B259IUNVHP-A	De-Lamp application, BF is different	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-180-MV-PS-D	No Cross		
GE-228-MV-PS-A	B228PUNV95-D	Alt: B228PUNV-N	Electronic FL Ballast (2) F28T5 PRS 120-277V
GE-228-MV-PS-H-A	B228PUNV115-D		Electronic FL Ballast (2) F28T5 PS UNV 50/60 1.15 BF
GE-232-120-N	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120V
GE-232-120-PS-N	B232PUNVHE-B		Electronic FL Ballast (2) F32T8 PRS 120-277V HI-EFF
GE-232-120-RES	B232I120RES-A	Also: B232I120RES-G	Electronic FL Ballast (2) F32T8 IS 120V RESIDENTIAL
GE-232-277-N	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120-277V
GE-232-277-PS-N	B232PUNVHE-B		Electronic FL Ballast (2) F32T8 PRS 120-277V HI-EFF
GE-232-MAX-H/Ultra	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
GE-232-MAX-L/Ultra	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
GE-232-MAX-N/Ultra	B232IUNVHE-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF
GE-232-MAX-N+	B232IUNVHE-N	Operates at 1.0 BF	
GE-232-MAX347-H	No Cross		
GE-232-MAX347-L	B232I347HPL		
GE-232-MAX347-N	B232I347HP-A		
GE-232-MV-H	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
GE-232-MV-L	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
GE-232-MV-N	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS UNV 50/60 HBXX
GE-232-MVPS-H	B232PUNVHEH-A		
GE-232-MVPS-L	B232PUNVEL-B		Electronic FL Ballast (2) F32T8 PRS 120-277V HI-EFF 0.71BF
GE-232-MVPS-N	B232PUNVHE-B		Electronic FL Ballast (2) F32T8 PRS 120-277V HI-EFF
GE-232-MVPS-XL	No Cross	Operates at 0.60 BF	
GE-232-N-347	B232I347HP-A		
GE-240-RS-120	B234SR120M-A		Electronic FL Ballast 2 F40T12 RS 120 60
GE-240-RS-MV-N	B234SR277M-A	277V Option only	Electronic FL Ballast 2 F40T12 RS 277 60
GE-254-MV-PS-90-F	B254PUNVHB-D	Note: Different can size	Electronic FL Ballast (2) F54T5HO PS UNV 50/60 HIGH BAY
GE-254-MV-PS-D	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS UNV 50/60 HIGH BAY
GE-254-PS347-F	B254P347-D		
GE-254-PS347/480-E	B254PHRVHB-E		
GE-259-120-N	B259IUNVHP-A	Also: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-259-277-N	B259IUNVHP-A	Also: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-259-MAX-L/Ultra	B259IUNVEL-A		
GE-259-MAX-N/Ultra	B259IUNVHE-A	Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-259-MV-N	B259IUNVHP-A	Also: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
GE-259-N-347	B259I347HP		
GE-260-IS-MV-N	B260IUNVHP	Note: Minor dimensional difference	Electronic FL Ballast 2 F96T12ES IS UNV 60HZ
GE-286-HO-MV-N	B286IxxxRH	ULT is dedicated voltage 120 or 277	
GE-296-HO-MV-N	B295SRUNVHP	Note: Minor dimensional difference	Electronic FL Ballast 2 F96T12HOES SRS UNV 60HZ
GE-332-120-N	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120V
GE-332-120-PS-N	B332PUNVHE-A		Electronic FL Ballast (3) F32T8 PRS 120-277V HI-EFF
GE-332-277-N	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120-277V
GE-332-277-PS-N	B332PUNVHE-A		Electronic FL Ballast (3) F32T8 PRS 120-277V HI-EFF
GE-332-MAX-H/Ultra	No Cross	Option: De-lamped B432IUNVHEH-E	
GE-332-MAX-L/Ultra	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
GE-332-MAX-N/Ultra	B332IUNVHE-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
GE-332-MAX-N+	B332IUNVHE-A	Operates at 1.0 BF	
GE-332-MAX347-H	No Cross		

Competitive P/N	Universal P/N	Comments	Universal Description
GE-332-MAX347-L	B332I347HPL		
GE-332-MAX347-N	B332I347HP		
GE-332-MV-H	No Cross	Option: De-lamped B432IUNVHEH-E	
GE-332-MV-L	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
GE-332-MV-N	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS UNV 60HZ HBCC
GE-332-MV-PS-H	B332PUNVHEH-A		
GE-332-MV-PS-L	B332PUNVEL-A		Electronic FL Ballast (3) F32T8 PRS 120-277V HI-EFF 0.71BF
GE-332-MV-PS-N	B332PUNVHE-A	Also: B332PUNVHP-A	Electronic FL Ballast (3) F32T8 PRS UNV HI-EFF
GE-332-MV-PS-XL	No Cross	Operates at 0.60 BF	
GE-332-N-347	B332I347HP		
GE-340-RS-MV-N	No Cross		Electronic FL Ballast 3 F40T12 RS 277 60
GE-432-120-N	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120V
GE-432-120-PS-N	B432PUNVHE-A		Electronic FL Ballast (4) F32T8 PRS 120-277V HI-EFF
GE-432-120-RES	B432I120RES-A		Electronic FL Ballast (4) F32T8 IS 120V RESIDENTIAL
GE-432-277-N	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120-277V
GE-432-277-PS-N	B432PUNVHE-A		Electronic FL Ballast (4) F32T8 PRS 120-277V HI-EFF
GE-432-MAX-H/Ultra	B432I277HEH	277V Option only	Electronic FL Ballast (4) F32T8 IS 277V HI-EFF HBF
GE-432-MAX-L/Ultra	B432IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
GE-432-MAX-N/Ultra	B432IUNVHE-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
GE-432-MAX-N+	B432IUNVHE-A	Operates at 1.0 BF	
GE-432-MAX347-H	No Cross		
GE-432-MAX347-L	B432I347HPL		
GE-432-MAX347-N	B432I347HP		
GE-432-MV-H	B432I277HEH	ULT is 277V only	
GE-432-MV-L	B432IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
GE-432-MV-N	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS UNV 60HZ HBCC
GE-432-MV-PS-H	B432PUNVHEH-E		
GE-432-MV-PS-L	B432PUNVEL-A		Electronic FL Ballast (4) F32T8 PRS 120-277V HI-EFF 0.71BF
GE-432-MV-PS-N	B432PUNVHE-A	Also: B432PUNVHP-A	Electronic FL Ballast (4) F32T8 PRS UNV HI-EFF
GE-432-N-347	B432I347HP		
GE-454-MV-PS-90-E	B454PUNVHB-E	Note: Minor dimensional difference	Electronic FL Ballast 4/3 F54T5HO PS UNV 50/60 HIGH BAY
GE-454-MV-PS-N1	B454PUNV-E	Note: Minor dimensional difference	Electronic FL Ballast 4/3 F54T5HO PS UNV 50/60 HIGH BAY
GE-454-PS347-E	No Cross		
GE-454-PS347/480-E	No Cross		
GE-632-MAX-H90	No Cross		

#### Magnetic Fluorescent Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
GEM196IS120IP	B260IUNVHP		Electronic FL Ballast 2 F96T12ES IS UNV 60HZ
GEM196IS277IP	B260IUNVHP		Electronic FL Ballast 2 F96T12ES IS UNV 60HZ
GEM1FC12T9RS120	B234SR120M-A		Electronic FL Ballast 2 F34T12 RS 120 60 HBXX
GEM1FC16T9RS120	No Cross		Magnetic FL Ballast 1 FC16T9/FC12T9 RS 120 60 LBXX
GEM1FC8T9RS120IP	No Cross		
GEM240RS120IP	B234SR120M-A		Electronic FL Ballast 2 F34T12 RS 120 60 HBXX
GEM240RS277IP	B234SR277M-A		Electronic FL Ballast 2 F34T12 RS 277 60 HBXX
GEM296HORS120IP	B295SRUNVHP		Electronic FL Ballasts (2) F96T12HO RS 120-277V
GEM296HORS277IP	B295SRUNVHP		Electronic FL Ballasts (2) F96T12HO RS 120-277V
GEM296IS120IP	B260IUNVHP		Electronic FL Ballast 2 F96T12ES IS UNV 60HZ
GEM296IS277IP	B260IUNVHP		Electronic FL Ballast 2 F96T12ES IS UNV 60HZ

#### Dimming Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
GE132MVPS-N-V03	B132PUNVSV3-A		(1) F32T8 UNV ANALOG 0-10V DIMMING
GE232MAX90-S60	No Cross		
GE232MAX90-V60	No Cross		
GE232MVPS-H-V03	No Cross		
GE232MVPS-N-V03	B232PUNVSV3-A		(2) F32T8 UNV ANALOG 0-10V DIMMING
GE332MAX90-S60	No Cross		
GE332MAX90-V60	No Cross		
GE332MVPS-H-V03	No Cross		
GE332MVPS-N-V03	B332SR277V5	277V applications only; check dimensions	3 F32T8-DIMMING RS 277 60 HBXX
"	B332SR120V5	120V applications only; check dimensions	3 F32T8-DIMMING RS 120 60 HBXX
GE432MAX90-S60	No Cross		
GE432MAX90-V60	No Cross		
GE432MVPS-H-V03	No Cross		
GE432MVPS-N-V03	B432SR277V5	277V applications only; check dimensions	4 F32T8-DIMMING RS 277 60 HBXX
GE632MAX-H90-s60	No Cross		
GE632MAX-H90-V60	No Cross		

#### HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
GEM175ML5AC3-5	M175ML5AC3M		(1) 175W MH M57 MULTI-5 60HZ
GEM175MLTAC3-5	M175MLTAC3M		(1) 175W MH M48 QUAD 60Hz C&C
GEM250ML5AC3-5	M250ML5AC3M		(1) 250W MH M57 MULTI-5 60HZ
GEM250ML5AC4-5	M250ML5AC4M		(1) 250W MH M58 MULTI-5 60HZ
GEM250MLTAC3-5	M250MLTAC3M		(1) 250W MH M58 QUAD 60Hz C&C
GEM40048TAC4-5	M40048TAC4M		(1) 400W M59 480-120V 60HZ
GEM400ML5AA4-5	M400ML5AC4M		(1) 250W MH M59 Multi-5 60Hz C&C
GEM400MLTAA4-5	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
GEM100048TAC5-5	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
GEM1000ML5AA5-5	M1000ML5AC5M		(1) 1000W MH M47 MULTI-5 60HZ
GEM1000MLTAA5-5	M1000MLTAC5M		(1) 1000W M47 MULTI 60HZ

Competitive P/N	Universal P/N	Comments	Universal Description
GEM150048TAC5M5-5	M150048TAC5M		(1) 1500W MH 48T 60Hz C&C
GEM1500MLTAC5-5	M1500MLTAC5M		(1) 1500W MH M48 QUAD 60Hz C&C
<b>Pulse Start Metal Halide</b>			
GEM50MLTLC3D-5	M50MLTLC3M	ULT: M110	(1) 50W M110 MULTI 60Hz
GEM70MLTLC3D-5	M70MLTLC3M	ULT: M98	(1) 70W HPS S62 MULTI 60Hz C&C
GEM7048TLC3D-5	M7048TLC3M	ULT: M98	(1) 70W MH M98 48T 60Hz C&C
GEM100MLTLC3D-5	M100MLTLC3M	ULT: M90/M92	(1) 100W MH M90 MULTI 60Hz C&C
GEM10048TLC3D-5	M10048TLC3M	ULT: M90/M92	(1) 100W MH M90 480V C&C
GEM150MLTLC3D-5	M150MLTLC3M	ULT: M102	(1) 150W MH M102 MULTI 60Hz C&C
GEM15048TLC3D-5	M15048TLC3M	ULT: M102	(1) 150W MH M102 48T 60Hz C&C
GEP175MLTAC3-5	P175MLTAC3M	No EISA	(1) 175W PS M137 QUAD 60Hz C&C
GEP17548TAC3-5	P17548TAC3M		(1) 175W PS M137 48T 60Hz C&C
GEP250MLTAC4-5	P250MLTAC4M		(1) 250W PS M138 QUAD 60Hz C&C
GEP25048TAC4-5	P25048TAC4L	ULT: EISA Compliant	(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
GEP320MLTAC4-5	P320MLTAC4M	ULT: EISA Compliant	(1) 320 PSMH M132 MULTI 60Hz C&C
GEP32048TAC4M-5	P32048TAC4L	ULT: EISA Compliant	(1) 320W PS M154 480-120V 60Hz LOW LOSS C&C
GEP320TRIAC4-5	P320TRIAC4M		(1) 320W PS M132 TRI 60Hz C&C
GEP350MLTAC4-5	P350MLTAC4M	ULT: EISA Compliant	(1) 350W PS M131 QUAD 60Hz C&C
GEP40048TAC4-5	P40048TAC4L	ULT: EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
GEP400MLTAC4-5	P400MLTAC4L	ULT: EISA Compliant	(1) 400W PS M135 QUAD 60Hz C&C
GEP75048TAC5-5	P75048TAC5M		(1) 750W PS 480-120V 60Hz C&C
GEP750MLTAC5-5	P750MLTAC5M		(1) 750W PS MULTI 60Hz C&C
GEP1000MLTAC5-5	P1000MLTAC5M		(1) 1000W MH QUAD 60Hz C&C
GEP1000ML5AC5-5	P1000ML5AC5M		(1) 1000W MH QUAD 60Hz C&C 480V TAP
<b>F-Can Ballasts</b>			
1110245SCTC000I	1110245SCTC		(1) 175W MH M57 120/277 60Hz F-Can
1110246CTC000C	1110246CTC		(1) 250W MH M58 120/277 60Hz F-Can
1111-247SCTC	1111247SCTC		(1) 400W M59 H33 120 or 277 60Hz F-Can
111247SCTC000I	1110247SCTC		(1) 400W MH M59 120/277 60Hz F-Can
11210239CTC000I	11210239CTC		(1) 100W MH M90 120/277 60Hz F-Can
11210277CTC000C	11210277CTC		(1) 70W MH M85 120/277 60Hz F-CAN
11210506CTC000C	11210506CTC		(1) 70W MH M98 120/277 60Hz F-Can
12210237CTC000I	12210237CTC		(1) 70W HPS S62 120/277 60Hz F-Can
<b>Indoor Enclosed HID Ballasts</b>			
1233142U000I	No Cross		
1233154U000I	No Cross		

## Howard Ind. to Universal Lighting Technologies

### Fluorescent Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
E1/32IS-120	B132IUNVHP-N		1 F32T8 IS 120 60 HBCC
E1/32IS-120HEX	B232IUNVHE-N		2 F32T8 IS 120V High Efficiency
E1/32IS-120SC	B132IUNVHP-N		1 F32T8 IS 120 60 HBCC
E1/32IS-277	B132IUNVHP-N		1 F32T8 IS 277 60 HBCC
E1/32IS-277HEX	B232IUNVHE-N		2 F32T8 IS 277V High Efficiency
E1/32IS-277SC	B132IUNVHP-N		1 F32T8 IS 277 60 HBCC
E1/32IS-347	B132I347HP		1 F32T8 IS 347 60 HBXX
E1/40IS-TT-120	C240SI120RH		2 FT40W/2G11 IS 120 60 HBBX
E1/40IS-TT-277	C240SI277RH		2 FT40W/2G11 IS 277 60 HUBX
E1/59IS-120	B259IUNVHP-A	De-lamped	1 F96T8 IS 120 60 HBXX
E1/59IS-277	B259IUNVHP-A	De-lamped	1 F96T8 IS 277 60 HUXX
E1/72RS-120R	No Cross		
E2/32IS-120	B232IUNVHP-N		2 F32T8 IS 120 60 HBCC
E2/32IS-120HEX	B232IUNVHE-N		2 F32T8 IS 120V High Efficiency
E2/32IS-120SC	B232IUNVHP-N		2 F32T8 IS 120 60 HBCC
E2/32IS-277	B232IUNVHP-N		2 F32T8 IS 277 60 HBCC
E2/32IS-277HEX	B232IUNVHE-N		2 F32T8 IS 277V High Efficiency
E2/32IS-277SC	B232IUNVHP-N		2 F32T8 IS 277 60 HBCC
E2/32IS-347	B232I347HP		2 F32T8 IS 347 60 HCEC
E2/36RS-120R	No Cross		
E2/40IS-TT-120	C240SI120RH		2/1 FT40W/2G11 120V EOLL PROTECT
E2/40IS-TT-277	C240SI277RH		2/1 FT4-W/2G11 277V EOLL PROTECT
E2/59IS-120	B259IUNVHP-A		2 F96T8 IS 120 60 HBXX
E2/59IS-277	B259IUNVHP-A		2 F96T8 IS 277 60 HUXX
E2/72RS-120R	B295SRUNVHP		2 F96T12HOES RS 120 60 HBEB
E3/32IS-120	B332IUNVHP-A		(3) F32T8 IS 120V 60HZ HBCC
E3/32IS-120HEX	B332IUNVHE-A		3 F32T8 IS 120V High Efficiency
E3/32IS-120SC	B332IUNVHP-A		(3) F32T8 IS 120V 60HZ HBCC
E3/32IS-277	B332IUNVHP-A		(3) F32T8 IS 277 60 HBCC
E3/32IS-277HEX	B332IUNVHE-A		3 F32T8 IS 277V High Efficiency
E3/32IS-277SC	B332IUNVHP-A		(3) F32T8 IS 277 60 HBCC
E3/32IS-347	B332I347RH	Also: B332I347RH	3 F32T8 IS 347 60 HCEX
E3/40IS-TT-120	C340SI120RH		3 FT40W/2G11 120V EOLL PROTECT
E3/40IS-TT-277	C340SI277RH		3 FT40W/2G11 277V EOLL PROTECT
E4/32IS-120	B432IUNVHP-A		4 F32T8 IS 120 60 HBCC
E4/32IS-120HEX	B432IUNVHE-A		4 F32T8 IS 120V High Efficiency
E4/32IS-120SC	B432IUNVHP-A		4 F32T8 IS 120 60 HBCC
E4/32IS-277	B432IUNVHP-A		4 F32T8 IS 277 60 HBCC
E4/32IS-277HEX	B432IUNVHE-A		4 F32T8 IS 277V High Efficiency
E4/32IS-277SC	B432IUNVHP-A		4 F32T8 IS 277 60 HBCC
E4/32IS-347	B432I347HP		4 F32T8 IS 347 60 HCEX
EH1/32IS-120	No Cross		
EH1/32IS-277	No Cross		
EH2/32IS-120	B232IUNVHEH-A		ELF (2) F32T8 IS 120
EH2/32IS-120HEX	No Cross		
EH2/32IS-277	B232IUNVHEH-A		ELF (2) F32T8 IS 277
EH2/32IS-277HEX	No Cross		
EH3/32IS-120	B332IUNVHEH-A		3 F32T8 IS 120 60 HBEX
EH3/32IS-277	B332IUNVHEH-A		3 F32T8 IS 277 60 HBEX
EH4/32IS-120	No Cross		
EH4/32IS-277	B432I277HEH		ELF (4) F32T8 IS 277V HIGH EFFICIENCY 1.18 BF
EL1/32IS-120	B132IUNVEL-N		2 F32T8 IS 120 60 HBCC
EL1/32IS-120HEX	B132IUNVEL-N		(2) F32T8 120 High Efficiency
EL1/32IS-277	B132IUNVEL-N		2 F32T8 IS 277 60 HBCC
EL1/32IS-277HEX	B132IUNVEL-N		(2) F32T8 277V High Efficiency
EL1/40IS-TT-120	No Cross		
EL1/40IS-TT-277	No Cross		
EL2/32IS-120	B232IUNVEL-N		2 F32T8 IS 120 60 HBCC
EL2/32IS-120HEX	B232IUNVEL-N		(2) F32T8 120 High Efficiency
EL2/32IS-277	B232IUNVEL-N		2 F32T8 IS 277 60 HBCC
EL2/32IS-277HEX	B232IUNVEL-N		(2) F32T8 277V High Efficiency
EL2/40IS-TT-120	C240SI120RH		2/1 FT40W/2G11 120V EOLL PROTECT
EL2/40IS-TT-277	C240SI277RH		2/1 FT4-W/2G11 277V EOLL PROTECT
EL3/32IS-120	B332IUNVEL-A		3 F32T8 IS 120 60 HBCC
EL3/32IS-120HEX	B332IUNVEL-A		(3) F32T8 120V High Efficiency
EL3/32IS-277	B332IUNVEL-A		3 F32T8 IS 277 60 HBCC
EL3/32IS-277HEX	B332IUNVEL-A		(3) F32T8 277V High Efficiency
EL3/40IS-TT-120	C340SI120RH		3 FT40W/2G11 120V EOLL PROTECT
EL3/40IS-TT-277	C340SI277RH		3 FT40W/2G11 277V EOLL PROTECT
EL4/32IS-120	B432IUNVHP-A		4 F32T8 IS 120 60 HBCC
EL4/32IS-120HEX	B432IUNVEL-A		(4) F32T8 120V High Efficiency
EL4/32IS-277	B432IUNVEL-A		4 F32T8 IS 277 60 HBCC
EL4/32IS-277HEX	B432IUNVEL-A		(2) F32T8 277V High Efficiency
EP1/32IS-120	B132IUNVHP-N		1 F32T8 IS UNV 60 HBCC
EP1/32IS-277	B132IUNVHP-N		1 F32T8 IS UNV 60 HBCC
EP1/32IS/120-277	B132IUNVHP-N		1 F32T8 IS UNV 60 HBCC
EP1/32IS/120-277SC	B132IUNVHP-N		1 F32T8 IS UNV 60 HBCC
EP1/40IS-TT/120-277	C240PUNVHP-B		2/1 FT40W/2G11 PS UNV 60 HBXX



Competitive P/N	Universal P/N	Comments	Universal Description
EP2/32IS-120	B232IUNVHP-N	Also: B232IUNVHE-N	2 F32T8 IS UNV 60 HBCC
EP2/32IS-277	B232IUNVHP-N		2 F32T8 IS 277 60 HUBX
EP2/32IS/120-277	B232IUNVHP-N		2 F32T8 IS UNV 60 HBCC
EP2/32IS/120-277SC	B232IUNVHP-N		2 F32T8 IS UNV 60 HBCC
EP2/40IS-TT/120-277	C240PUNVHP-B		2/1 FT40W2G11 PS UNV 60 HBXX
EP2/40RS-120R	No Cross		
EP2/42CF/120-277	No Cross		
EP2/54HO/PRS/120-277	B254PUNV-D		(2) F54T5HO PS UNV 50/60
EP2/54HO/PRS/MV/75C	B254PUNV-D		(2) F54T5HO PS UNV 50/60
EP2/54HO/PRS/MV/90C	B254PUNV-D		(2) F54T5HO PS UNV 50/60
EP3/32IS-120	B332IUNVHP-A	Also: B332IUNVHE-A	(3) F32T8 IS UNV 60HZ HBCC
EP3/32IS-277	B332IUNVHP-A	Also: B332IUNVHE-A	(3) F32T8 IS UNV 60HZ HBCC
EP3/32IS/120-277	B332IUNVHP-A		(3) F32T8 IS UNV 60HZ HBCC
EP3/32IS/120-277SC	B332IUNVHP-A		(3) F32T8 IS UNV 60HZ HBCC
EP3/40IS-TT/120-277	C340SI277RH		3 FT40W/2G11 277V EOLL PROTECT
EP4/32IS-120	B432IUNVHP-A	Also: B432IUNVHE-A	(4) F32T8 IS UNV 60HZ HBCC
EP4/32IS-277	B432IUNVHP-A		4 F32T8 IS 277 60 HUBX
EP4/32IS/120-277	B432IUNVHP-A		(4) F32T8 IS UNV 60HZ HBCC
EP4/32IS/120-277SC	B432IUNVHP-A		(4) F32T8 IS UNV 60HZ HBCC
EPL1/32IS-120	B132IUNVEL-N		ELF (1) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL1/32IS-277	B132IUNVEL-N		ELF (1) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL1/32IS/120-277	B132IUNVEL-N		ELF (1) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL1/40IS-TT/120-277	C240PUNVHP-B	Howard IS, UNV is PS	2/1 FT40W2G11 PS UNV 60 HBXX
EPL2/32IS-120	B232IUNVEL-N		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL2/32IS-277	B232IUNVEL-N		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL2/32IS/120-277	B232IUNVEL-N		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL2/40IS-TT/120-277	C240PUNVHP-B	Howard IS, UNV is PS	2/1 FT40W2G11 PS UNV 60 HBXX
EPL3/32IS-120	B332IUNVEL-A		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL3/32IS-277	B332IUNVEL-A		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL3/32IS/120-277	B332IUNVEL-A		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL3/40IS-TT/120-277	C340SI277RH	Howard is UNV	3 FT40W/2G11 277V EOLL PROTECT
EPL4/32IS-120	B432IUNVEL-A		ELF (4) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL4/32IS-277	B432IUNVEL-A		ELF (4) F32T8 IS UNV HIGH EFFICIENCY .77 BF
EPL4/32IS/120-277	B432IUNVEL-A		ELF (4) F32T8 IS UNV HIGH EFFICIENCY .77 BF
M1/110RS-120	B295SRUNVHP		2 F96T12HOES RS 120-277V
M1/110RS-277	B295SRUNVHP		2 F96T12HOES RS 120-277V
M1/13CFH-120	No Cross		
M1/13CFN-120	No Cross	Also: 200H2	#N/A
M1/18CFH-120	C218UNV		1 CFQ18W/G24d PH 120 60 HBEX
M1/18CFN-277	C218UNV		1 CFQ18W/G24d PH 277 60 LBXX
M1/20TR-120	No Cross		
M1/22PHC-120	No Cross		
M1/22RSC-120	No Cross		
M1/26CFH-120	No Cross		
M1/26CFN-277	No Cross		
M1/28CFH-120	No Cross		
M1/40RS-120	B234SR120M-A		2 F40T12 RS 120 60 HBCB
M1/40RS-277	No Cross		
M1/75IS-120	B260IUNVHP		1 F96T12 IS 120 60 HBCX
M1/75IS-277	B260IUNVHP		1 F96T12 IS 277 60 HUCX
M1/9CFN-120	No Cross		
M2/110RS-120	B295SRUNVHP		2 F96T12HO RS 120-277V
M2/110RS-277	B295SRUNVHP		2 F96T12HO RS 120-277V
M2/13CFH-120	No Cross		
M2/20TR-120	No Cross		
M2/30RS-120	No Cross		
M2/32RS-120	B232IUNVHP-N	Check size and application	ELF (2) F32T8 120-277V
M2/32RS-277	B232IUNVHP-N	Check size and application	ELF (2) F32T8 120-277V
M2/40RS-120	B234SR120M-A		2 F40T12 RS 120 60 HBCB
M2/40RS-220	No Cross		
M2/40RS-240	No Cross		
M2/40RS-277	No Cross		
M2/40RSCH-120	No Cross		
M2/75IS-120	B26IUNVHP		
M2/75IS-277	B26IUNVHP		
<b>Probe Start Metal Halide</b>			
M0175-02C-212	M175120AC3M		(1) 175W MH M57 CWA 120 60Hz C&C
M0175-08C-212	M175277AC3M		(1) 175W MH M57 CWA 277 60Hz C&C
M0175-11C-211	M17548TAC3M	ULT: 120T	(1) 175W MH M57 CWA 480/120T 60Hz C&C
M0175-59C-212	M175TRIAC30		
M0175-71C-212	M175MLTAC3M	ULT: Cu/Al Core	(1) 175W NH M57 CWA MULTI 60Hz C&C
M0175-71C-213	M175MLTAC3M		(1) 175W NH M57 CWA MULTI 60Hz C&C
M0175-81C-211	M175ML5AC3M		(1) 175W MH M57 CWA MLT-5 60Hz C&C
M0250-08C-213	M250277AC3M		(1) 250W MH M58 277 60Hz C&C
M0250-11C-211	M25048TAC4M	ULT: 120T	(1) 250W MH M58 CWA 480/120T 60Hz C&C
M0250-23C-212	No Cross		-
M0250-29C-212	M25048TAC3M		(1) 250W MH M58 48T 60Hz C&C
M0250-59C-211	M250TRIAC4M		(1) 250W MH M58 TRI 60Hz C&C
M0250-59C-212	M250TRIAC3M		(1) 250W MH M58 TRI 60Hz C&C
M0250-71C-211	M250MLTAC4M	ULT: Al/Al Core HOW: Cu/Cu Core	(1) 250W MH M58 CWA MULTI 60Hz
M0250-71C-212	M250MLTAC3M	ULT: Cu/Al Core	(1) 250W MH M58 CWA MULTI 60Hz

Competitive P/N	Universal P/N	Comments	Universal Description
M0250-71C-213	M250MLTAC4M	ULT: Al/Al Core HOW: Cu/Al Core	(1) 250W MH M58 CWA MULTI 60HZ
M0250-71C-215	M250MLTAC4M	ULT: Al/Al Core HOW: Cu/Al Core	(1) 250W MH M58 CWA MULTI 60HZ
M0250-81C-211	M250ML5AC4M		(1) 250W MH M58 CWA MLT-5 60Hz C&C
M0250-81C-212	M250ML5AC3M		(1) 250W MH M58 CWA MLT-5 60Hz C&C
M0250-81C-213	M250ML5AC4M		(1) 250W MH M58 CWA MLT-5 60Hz C&C
M0250-81C-214	M250ML5AC4M		(1) 250W MH M58 CWA MLT-5 60Hz C&C
M0400-08C-211	No Cross		
M0400-08C-212	No Cross		
M0400-11C-211	M40048TAC4M	ULT: 120T	(1) 400W MH M59 CWA 48T 60Hz C&C
M0400-29C-211	M40048TAC4M		(1) 400W MH M59 CWA 48T 60Hz C&C
M0400-59C-211	M400TRIAC4M		(1) 400W MH M59 CWA TRI 60Hz C&C
M0400-71C-211	M400MLTAC4S	ULT: 4S model is Cu/Cu Core	(1) 400W MH M59 CWA QUAD 60Hz C&C
M0400-71C-212	M400MLTAC4M	ULT: Al/Al Core HOW: Cu/Al Core	(1) 400W MH M59 CWA QUAD 60Hz C&C
M0400-71C-213	M400MLTAC4M		(1) 400W MH M59 CWA QUAD 60Hz C&C
M0400-81C-211	M400ML5AC4M	ULT: Cu/Al Core	(1) 400W MH M59 CWA MLT5 60Hz C&C
M0400-81C-212	M400ML5AC4M		(1) 400W MH M59 CWA MLT5 60Hz C&C
M1000-11C-212	M1000480AC5M	ULT: Cu/Al Core	(1) 1000W MH M47 CWA 480 60Hz C&C
M1000-11C-213	M1000480AC5M		(1) 1000W MH M47 CWA 480 60Hz C&C
M1000-11C-223	M100048TAN5M	ULT: 120T	(1) 1000W MH M47 CWA 480/120T 60Hz C&C - N Class Insulation
M1000-29C-212	M100048TAC5M	ULT: Cu/Al Core	(1) 1000W MH M47 CWA 480/120T 60Hz C&C
M1000-29C-223	M100048TAN5M		(1) 1000W MH M47 CWA 480/120T 60Hz C&C - N Class Insulation
M1000-71C-212	M1000MLTAC5M	ULT: Cu/Al Core	(1) 1000W MH M48 CWA QUAD 60Hz C&C
M1000-71C-213	M1000MLTAC5M		(1) 1000W MH M48 CWA QUAD 60Hz C&C
M1000-71C-214	M1000MLTAC5M	ULT: Cu/Al Core HOW: Al/Al Core	(1) 1000W MH M48 CWA QUAD 60Hz C&C
M1000-81C-211	M1000ML5AC5M	ULT: Cu/Al/Cu Core HOW: Cu/Cu	(1) 1000W MH M47 CWA MLT5 60Hz C&C
M1000-81C-212	M1000ML5AC5M	ULT: Cu/Al/Cu Core HOW: Cu/Al	(1) 1000W MH M47 CWA MLT5 60Hz C&C
M1000-81C-213	M1000ML5AC5M	ULT: Cu/Al/Cu Core HOW: Cu/Al	(1) 1000W MH M47 CWA MLT5 60Hz C&C
M1500-11C-212	M1500480AC5M		(1) 1500W MH M48 CWA 480 60Hz C&C
M1500-11C-222	No Cross		
M1500-71C-212	M1500MLTAC5M		(1) 1500W MH M48 CWA QUAD 60Hz C&C
M1500-71C-222	No Cross		
<b>Pulse Start Metal Halide</b>			
M0050-08C-111	No Cross		
M0050-23C-511	No Cross		
M0070-08C-111	No Cross		
M0070-71C-511	M70MLTLC3M		(1) 70W PSMH M98 HX-HPF QUAD 60Hz C&C
M0100-23C-511	No Cross		
M0100-71C-511	M100MLTLC30		(1) 100W MH M90 HX-HPF QUAD 60Hz C&C
M0100-71C-512	M100MLTLC30		(1) 100W MH M90 HX-HPF QUAD 60Hz C&C
M0100-71C-513	M100MLTLC30	ULT: Cu/Cu Core HOW: Al/Al	(1) 100W MH M90 HX-HPF QUAD 60Hz C&C
M0150-71C-511	M150MLTLC3M		(1) 150W MH M102 HX-HPFQUAD 60Hz C&C
M0150-71C-512	M150MLTLC3M		(1) 150W MH M102 HX-HPFQUAD 60Hz C&C
M0175-02C-411	No Cross		
M0175-29C-411	No Cross		
M0200-11C-611	No Cross		
M0200-23C-611	No Cross		
M0200-71C-611	No Cross		
M0250-02C-411	No Cross		
M0250-27C-411	No Cross		
M0250-29C-411	No Cross		
M0250-11C-6E1	P25048TAC4L	ULT: 120T	(1) 250W PSMH M153 CWA 480/120T 60Hz LOW LOSS C&C
M0250-71C-6E1	P250MLTAC4L		(1) 250W PSMH M138 CWA QUAD 60Hz LOW LOSS C&C
M0320-08C-711	P320277RCEM		(1) 320W PSMH M132 277V 60Hz C&C
M0320-11C-6E1	P32048TAC4L		(1) 320W PSMH M132 CWA 480/120T 60Hz Low Loss C&C
M0320-71C-6E1	P320MLTAC40	ULT: Cu/Al Core	(1) 320W PSMH M132 CWA MULTI 60Hz C&C
M0320-71C-612	P320MLTAC40	ULT: EISA	(1) 320W PSMH M132 CWA MULTI 60Hz C&C
M0320-71C-6E4	P320MLTAC40	ULT: Cu/Al Core HOW: Al/Al Core	(1) 320W PSMH M132 CWA MULTI 60Hz C&C
M0350-02C-411	No Cross		
M0350-23C-411	No Cross		
M0350-28C-411	No Cross		
M0350-29C-411	No Cross		
M0350-30C-411	No Cross		
M0350-08C-7E1	P350277RCEM		(1) 350W PS/MH M131 277V 60Hz C&C
M0350-71C-6E1	P350MLTAC40	ULT: Cu/Al Core	(1) 350W PS M131 QUAD 60Hz C&C
M0350-71C-612	P350MLTAC40	ULT: EISA	(1) 350W PS M131 QUAD 60Hz C&C
M0350-71C-6E4	P350MLTAC40		(1) 350W PS M131 QUAD 60Hz C&C
M0400-02C-411	No Cross		
M0400-27C-411	No Cross		
M0400-28C-411	No Cross		
M0400-29C-411	No Cross		
M0400-62C-411	No Cross		
M0400-08C-7E1	P400277RCEM		(1) 400W PSMH M135 277V 60Hz REACTOR
M0400-11C-6E1	P40048TAC4L	ULT: 120T	(1) 400W PSMH M135 CWA 480/120T 60Hz C&C
M0400-29C-6E1	P40048TAC4L		(1) 400W PSMH M135 CWA 480/120T 60Hz C&C
M0400-71C-6E1	P400MLTAC4L	ULT: Al/Cu Core HOW: Cu/Cu Core	(1) 400W PSMH M135 CWA QUAD 60Hz C&C
M0400-71C-6E2	P400MLTAC4L	ULT: Al/Cu Core HOW: Cu/Al Core	(1) 400W PSMH M135 CWA QUAD 60Hz C&C
M0400-71C-6E3	P400MLTAC4L	ULT: Al/Cu Core HOW: Al/Al Core	(1) 400W PSMH M135 CWA QUAD 60Hz C&C
M0750-11C-611	P75048TAC5M		(1) 750W PSMH M149 CWA 480/120T 60Hz C&C
M0750-71C-611	P750MLTAC5M		(1) 750W PSMH M149 CWA MULTI 60Hz C&C

Competitive P/N	Universal P/N	Comments	Universal Description
M0750-71C-612	P750MLTAC5M	ULT: M149	(1) 750W PSMH M149 CWA MULTI 60HZ C&C
M0750-81C-611	P750ML5AC5M		(1) 750W PSMH M149 CWA MLT-5 60HZ C&C
M0875-71C-611	P875MLTAC5M		(1) 875W PSMH M166 CWA MULTI 60HZ C&C
M0875-81C-611	P875ML5AC5M		(1) 875W PSMH M166 CWA MLT-5 66HZ C&C
M1000-11C-611	P100048TAC5M	ULT: 120T	(1) 1000W PSMH M141 CWA 480/120T 60HZ C&C
M1000-11C-612	P100048TAC5M	ULT: 120T	(1) 1000W PSMH M141 CWA 480/120T 60HZ C&C
M1000-11C-622	No Cross		
M1000-29C-612	P100048TAC5M		(1) 1000W PSMH M141 CWA 480/120T 60HZ C&C
M1000-71C-611	P1000MLTAC5M	ULT: Cu/Al Core	(1) 1000W PSMH M141 CWA MULTI 60HZ C&C
M1000-71C-612	P1000MLTAC5M		(1) 1000W PSMH M141 CWA MULTI 60HZ C&C
M1000-81C-611	P1000ML5AC5M		(1) 1000W PSMH M141 CWA MLT-5 60HZ C&C
<b>High Pressure Sodium</b>			
S0035-02C-111	1233251W		(1) 35W HPS S76 R-HPF 120 60Hz C&C
S0050-02C-111	123335W		(1) 50W HPS S68 R-HPF 120V 60Hz C&C
S0070-02C-111	1233142W		(1) 70W HPS S62 R-HPF 120V 60Hz C&C
S0070-71C-611	S70MLTLC3M		(1) 70W HPS S62 HX-HPF QUAD 60Hz C&C
S0100-02C-111	123310W		(1) 100W HPS S54 R-HPF 120V 60Hz C&C
S0100-71C-611	S100MLTLC3M		(1) 100W HPS S54 HX-HPF MULTI 60Hz C&C
S0100-71C-612	S100MLTLC3M		(1) 100W HPS S54 HX-HPF MULTI 60Hz C&C
S0150-02C-111	1233154W		(1) 150W HPS S55 R-HPF 120V 60Hz C&C
S0150-71C-611	S150MLTLC30		(1) 150W HPS S55 HX-HPF QUAD 60Hz C&C
S0200-71U-211	S200MLTAC4M		(1) 200W HPS S66 CWA QUAD 60HZ C&C
S0250-02C-211	S250120AC4M		(1) 250W HPS S50 CWA 120V 60HZ C&C
S0250-11C-211	S250480AC4M		(1) 250W HPS S50 CWA 480 60Hz C&C
S0250-29C-211	S25048TAC4M		(1) 250W HPS S50 CWA 480/120T 60Hz C&C
S0250-71C-211	S250MLTAC4M		(1) 250W HPS S50 CWA MULTI 60HZ C&C
S0250-81C-211	S250ML5AC40		(1) 250W HPS S50 CWA MLT-5 60HZ C&C
S0310-71U-211	No Cross		
S0400-02C-211	No Cross		
S0400-11C-211	S400480AC4M		(1) 400W HPS S51 CWA 480 60Hz C&C
S0400-11C-221	No Cross		
S0400-59C-211	S400TRIAC4M		(1) 400W HPS S51 CWA TRI 60Hz C&C
S0400-71C-211	S400MLTAC4M		(1) 400W HPS S51 CWA MULTI 60HZ C&C
S0400-71C-212	S400MLTAC4M		(1) 400W HPS S51 CWA MULTI 60HZ C&C
S0400-81C-211	S400ML5AC4M		(1) 400W HPS S51 CWA MLT-5 60Hz C&C
S1000-11C-211	S1000480AC5M		(1) 1000W HPS S52 CWA 480 60Hz C&C
S1000-29C-211	S100048TAC5M		(1) 1000W HPS S52 CWA 480/120T 60HZ C&C
S1000-29C-XC	No Cross		-
S1000-71C-211	S1000MLTAC5M		(1) 1000W HPS S52 CWA QUAD 60Hz C&C
S1000-71C-XC	No Cross		-

## Osram/Sylvania to Universal Lighting Technologies (and former Motorola)

### Fluorescent Ballasts (Magnetic & Electronic)

Competitive P/N	Universal P/N	Comments	Universal Description
MB1X15/120PH/TP	No Cross		
MB1X20/120PH/TP	No Cross		
MB1X22/120CIRC	No Cross		
MB1X32/120CIRC	No Cross		
MB1X40/120RES	B134SR120M-A	Electronic Replacement	Electronic FL Ballast (1) F40T12ES RS 120V
MB1X40/120RS	B134SR120M-A	Electronic Replacement	Electronic FL Ballast (1) F40T12ES RS 120V
MB1X40/277RS	B234SR277M-A		Electronic FL Ballast (1) F40T12ES RS 277V
MB1X96/120IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB1X96/277IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB1X96/HO/120RS	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 120-277V
MB1X96/HO/277RS	No Cross		
MB1X96/VHO/120RS	No Cross		
MB1X96/VHO/277RS	No Cross		
MB2X20/120/PH/TP	No Cross		
MB2X40/120RS	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
MB2X40/277RS	B234SR277M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 277V
MB2X48/120IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB2X48/277IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB2X96/120IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB2X96/277IS	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277V
MB2X96/HO/120RS	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 120-277V
MB2X96/HO/277RS	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 120-277V
MB2X96/VHO/120RS	No Cross		
MB2X96/VHO/277RS	No Cross		
QHE1X32T8/347ISL-SC	B232I347HPL	Note: delamped, BF not same	Electronic FL Ballast 2 F32T8 IS 347V
QHE1X32T8/347ISN-SC	B132I347HP		Electronic FL Ballast 1 F32T8 IS 347V
QHE1x32T8/UNVISH-SC	B232IUNVHEH-A	De-lamped, Different BF	
QHE1x32T8/UNVISL-SC	B132IUNVEL-N	ULT model lacks Type CC	Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
QHE1x32T8/UNVISN-SC	B132IUNVHE-N	ULT model lacks Type CC	Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF
QHE1x32T8/UNVPSN-MC	B232PUNVHE-B	De-lamped	Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
QHE1X40DL/UNVISN-SC	No Cross		
QHE2X32T8/347ISL-SC	B232I347HPL	Also: B232I347L-A	Electronic FL Ballast 2 F32T8 IS 347V
QHE2X32T8/347ISN-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
QHE2x32T8/UNVISH-SC	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
QHE2x32T8/UNVISL-SC	B232IUNVEL-N	ULT model lacks Type CC	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
QHE2x32T8/UNVISM-SC	B232IUNVHE-N	Different BF	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF
QHE2x32T8/UNVISN-SC	B232IUNVHE-N	ULT model lacks Type CC	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF
QHE2x32T8/UNVPSH-HT	B232PUNVHEH-A		Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
QHE2x32T8/UNVPSN-MC	B232PUNVHE-B		Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
QHE2X39/24T5HO/UNVPSN	B239PUNV-D		
QHE2X40DL/UNVISN-SC	C240SI120RH or C240SI277RH	ULT is dedicated voltage 120V or 277V.	
QHE2X59T8/UNV-ISH	No Cross		Electronic FL Ballast (2) F96T8 IS 277V, High BF
QHE2X59T8/UNV-ISL-SC	B259IUNVEL-A		Electronic FL Ballast 2 F96T8 IS 277 60 HUEX
QHE2X59T8/UNV-ISN-SC	B259IUNVHE-A	Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
QHE2X86T8HO/UNV-PSN-HT-SCL	B286I120RH or B286I277RH	ULT is dedicated voltage 120V or 277V. ULT is instant start, not rated for 90°C	
QHE3X32T8/347ISL-SC	B332I347HPL	Also: B332I347L	Electronic FL Ballast 3 F32T8 IS 347V
QHE3X32T8/347ISN-SC	B332I347HP	Also: B332IHRVHB-E	Electronic FL Ballast 3 F32T8 IS 347V
QHE3x32T8/UNVISH-SC	B332IUNVHEH-A		Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF HBF
QHE3x32T8/UNVISL-SC	B332IUNVEL-A	ULT model lacks Type CC	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF LBF
QHE3x32T8/UNVISM-SC	B332IUNVHE-A	Different BF	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
QHE3x32T8/UNVISN-SC	B332IUNVHE-A	ULT model lacks Type CC	Electronic FL Ballast (3) F32T8 IS 120-277V HI-EFF
QHE3x32T8/UNVPSH-HT	B332PUNVHEH-A		Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL

Competitive P/N	Universal P/N	Comments	Universal Description
QHE3x32T8/UNVPSN-SC	B332PUNVHE-A		Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL
QHE3X40DL/UNVISN-SC	No Cross		
QHE4x32T8/277ISH	B432I277HEH		Electronic FL Ballast (4) F32T8 IS 277V HI-EFF HBF
QHE4X32T8/347ISL-SC	B432I347HPL	Also: B432I347L	Electronic FL Ballast 4 F32T8 IS 347V
QHE4X32T8/347ISN-SC	B432I347HP		Electronic FL Ballast 4 F32T8 IS 347V
QHE4x32T8/UNVISH	B432I277HEH	ULT is 277V only	Electronic FL Ballast (4) F32T8 IS 277V HI-EFF HBF
QHE4x32T8/UNVISL-SC	B432IUNVEL-A	ULT model lacks Type CC	Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF LBF
QHE4x32T8/UNVISN-SC	B432IUNVHE-A	ULT model lacks Type CC	Electronic FL Ballast (4) F32T8 IS 120-277V HI-EFF
QHE4x32T8/UNVPSH-HT	B432PUNVHEH-E		Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL
QHE4x32T8/UNVPSN-SC	B432PUNVHE-A		Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL
QS2X28T5/UNVPS115-SC	B228PU115S50D		Electronic FL Ballast (2) F28T5 PS UNV 50/60 1.15 BF step dim
QT1X28/120PS	B228PUNV-N	Note: delamped, BF not same, Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QT1X28/277PS	B228PUNV-N	Note: delamped, BF not same, Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QT1X32/120IS	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120V
QT1X32/120ISN-SC	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120V
QT1X32/277IS	B132IUNVHP-N	ULT is 120-277V	Electronic FL Ballast (1) F32T8 IS 120-277V
QT1X32/277ISN-SC	B132IUNVHP-N	ULT is 120-277V	Electronic FL Ballast (1) F32T8 IS 120-277V
QT1X32T8/120ISN	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120V
QT1X32T8/120ISN-SC	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120V
QT1X32T8/277ISN	B132IUNVHP-N	ULT is 120-277V	Electronic FL Ballast (1) F32T8 IS 120-277V
QT1X32T8/277ISN-SC	B132IUNVHP-N	ULT is 120-277V	Electronic FL Ballast (1) F32T8 IS 120-277V
QT1X32T8/347ISN	B232I347HP-A	De-lamp application	Electronic FL Ballast (2) F32T8 IS 347V
QT1X3924120PHO	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
QT1X3924277PHO	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
QT1X40/120DL	C240SI120RH	ULT is larger case size	Electronic FL Ballast (1) or (2) FT40W/2G11 IS 120V
QT1X40/277DL	C240SI277RH	ULT is larger case size	Electronic FL Ballast (1) or (2) FT40W/2G11 IS 277V
QT1x54/120PHO-DIM	ES5844K		Electronic FL Dimming Ballast (1) F54T5HO 120-277V
QT1x54/277PHO-DIM	ES5844K		Electronic FL Dimming Ballast (1) F54T5HO 120-277V
QT1X54120PHO	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
QT1X54277PHO	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
QT2X28/120PS	B228PUNV-N	Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QT2X28/277PS	B228PUNV-N	Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QT2X32/120HD10	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32/120IS	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120V
QT2X32/120ISN-SC	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120V
QT2X32/120LP	B232IUNVEL-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V LBF
QT2X32/120PLUS	B232IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V HBF
QT2X32/127HD10	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32/277IS	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32/277ISN-SC	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32/277LP	B232IUNVEL-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V LBF
QT2X32/277PLUS	B232IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V HBF
QT2X32/347IS-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
QT2X32/347ISH-SC	No Cross		
QT2X32/347ISN-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
QT2X32/347LP	B232I347HPL		Electronic FL Ballast (2) F32T8 IS 347V LBF
QT2X32T8/120ISH	B232IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V HBF
QT2X32T8/120ISH-A	B232IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V HBF
QT2X32T8/120ISL	B232IUNVEL-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V LBF
QT2X32T8/120ISL-SC	B232IUNVEL-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V LBF
QT2X32T8/120ISN	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120V
QT2X32T8/120ISN-SC	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120V
QT2X32T8/277ISH-SC	B232IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V HBF
QT2X32T8/277ISL-SC	B232IUNVEL-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V LBF
QT2X32T8/277ISN	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32T8/277ISN-SC	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QT2X32T8/347ISL-SC	B232I347HPL		Electronic FL Ballast (2) F32T8 IS 347V LBF
QT2X39-24120PHO	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
QT2X39-24277PHO	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
QT2X40/120DL	C240SI120RH	ULT is larger case size	Electronic Comp FL Ballast (2) FT40W/2G11 IS 120V
QT2X40/277DL	C240SI277RH	ULT is larger case size	Electronic Comp FL Ballast (2) FT40W/2G11 IS 277V
QT2X54/120PHO	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
QT2X54/277PHO	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
QT2X59/120PLUS	No Cross		Electronic FL Ballast (2) F96T8 IS 120V, High BF
QT2X59/277PLUS	No Cross		Electronic FL Ballast (2) F96T8 IS 277V, High BF
QT2X59/347IS	B259I347HP		
QT2X96/120HO	B295SRUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12HOES RS 120-277V
QT2X96/120IS	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
QT2X96/277HO	B295SRUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12HOES RS 120-277V
QT2X96/277IS	B260IUNVHP	ULT is universal voltage	Electronic FL Ballast (2) F96T12ES IS 120-277V
QT3X32/120PLUS	B332IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V HBF
QT3X32/277PLUS	B332IUNVHEH-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V HBF

Competitive P/N	Universal P/N	Comments	Universal Description
QT3X32T8/120IS	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120V
QT3X32T8/120ISL-SC	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V LBF
QT3X32T8/120ISN-SC	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120V
QT3X32T8/277IS	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120-277V
QT3X32T8/277ISL-SC	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V LBF
QT3X32T8/277ISN-SC	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS 120-277V
QT3X40/120DL	C340SI120RH		Electronic CFL Ballast (3) FT40W/2G11 IS 120V
QT3X40/277DL	C340SI277RH		Electronic CFL Ballast (3) FT40W/2G11 IS 277V
QT4X32/120IS	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120V
QT4X32/120LP	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120-277V, Low BF
QT4X32/277IS	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120-277V
QT4X32/277LP	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 277V, Low BF
QT4X32/347IS	B432I347HP		Electronic FL Ballast (4) F32T8 IS 347V
QT4X32/347LP	B432I347HPL		Electronic FL Ballast (4) F32T8 IS 347V, Low BF
QT4X32T8/120ISN-SC	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120V
QT4X32T8/277ISN-SC	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS 120-277V
QT4X32T8/347ISL-SC	B432I347HPL		Electronic FL Ballast (4) F32T8 IS 347V LBF
QT4X32T8/347ISN-A	B432I347HP	ULT is larger case size	Electronic FL Ballast (4) F32T8 IS 347V
QTP1/2X13CF/UNV DM	C213UNVME000K		Electronic CFL Ballast (2) CFQ13W/G24q PS 120-277V
QTP1/2X13CF/UNVBS	C213UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ13W/G24q PS 120-277V
QTP1/2X13CF/UNVTS	C213UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ13W/G24q PS 120-277V
QTP1/2X18CF/UNV DM	C218UNVME000K		Electronic CFL Ballast (2) CFQ18W/G24q PS 120-277V
QTP1/2X18CF/UNVBS	C218UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ18W/G24q PS 120-277V
QTP1/2X18CF/UNVTS	C218UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ18W/G24q PS 120-277V
QTP1X28T5/120PSN	B228PUNV-N	Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QTP1X28T5/277PSN	B228PUNV-N	Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QTP1X32T8/120ISN-SC	B132IUNVHP-N	ULT is universal volt., Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120-277V
QTP1X32T8/120PSN-TC	B132PUNVHP-A	ULT is universal voltage	Electronic FL Ballast (1) F32T8 PS 120-277V
QTP1X32T8/277ISN-SC	B132IUNVHP-N	ULT is universal volt., Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120-277V
QTP1X32T8/277PSN-TC	B132PUNVHP-A	ULT is universal voltage	Electronic FL Ballast (1) F32T8 PS 120-277V
QTP1X32T8/347ISN-SC	B132I347HP		Electronic FL Ballast (1) F32T8 IS 347V
QTP1X32T8/UNVISH-SC	B232IUNVHEH-A	Note: delampd, BF not same	Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
QTP1X32T8/UNVISL-SC	B132IUNVEL-N		Electronic FL Ballast (1) F32T8 IS 120-277V HI-EFF LBF
QTP1X32T8/UNVISN-SC	B132IUNVHP-N	Also: B132IUNVHE-N	Electronic FL Ballast (1) F32T8 IS 120-277V
QTP1X32T8/UNVPSN-TC	B132PUNVHP-A	Minor dimension difference	Electronic FL Ballast (1) F32T8 PS 120-277V
QTP1X32T8/UNVPSX-TC	B232PUNVEL-B	Delampd	Electronic FL Ballast (1) F32T8 PS UNV HI-EFF PARALLEL Low BF
QTP1X39-24T5HO/UNV PSN	B239PUNV-D	Note: delampd, BF not same	Electronic FL Ballast (2) F39T5HO PS 120-277V
QTP1X40T12/120RSN-B	B134R120M-A		Electronic FL Ballast (1) F40T12ES RS 120V
QTP1X40T12/277RSN-B	B234SR277M-A	De-lampd	Electronic FL Ballast (1) F40T12ES RS 277V
QTP1X40TT5/120PSN-F	C240PUNVHP-B	ULT is universal voltage	Electronic FL Ballast (1/2) FT40W/2G11 PRS 120-277V
QTP1X40TT5/277 PSN-F	C240PUNVHP-B	ULT is universal voltage	Electronic FL Ballast (1/2) FT40W/2G11 PRS 120-277V
QTP1X54T5HO/UNV PSN	B254PUNV-D	1-Lamp operation	Electronic FL Ballast (2) F54T5HO PS 120-277V
QTP1X57CF/UNVBM	C242UNVME		Electronic CFL Ballast (2) CFM42W/GX24q PS 120-277V
QTP1X57CF/UNVPM	C242UNVMES		Electronic CFL Ballast (2) CFM42W/GX24q PS 120-277V
QTP1X80T5HO/UNVPSN	No Cross		
QTP1X86T8HO/120RSN-A	B286I120RH	ULT is instant start	Electronic FL Ballast (2) F96T8HO IS 120V
QTP1X86T8HO/277RSN-A	B286I277RH	ULT is instant start	Electronic FL Ballast (2) F96T8HO IS 277V
QTP2X26/32/42CF/UNV DM	C242UNVME		Electronic FL Ballast 26-42W 120-277V MULTI EXIT
QTP2X26/32/42CF/UNV DM PEM	C242UNVMES		Electronic FL Ballast 26-42W 120-277V ME W/STUDS
QTP2X26CF/UNV DM	C2642UNVME000K		Electronic CFL Ballast (2) CFQ26W/G24q PS 120-277V
QTP2X26CF/UNV DM PEM	C2642UNVME000K		Electronic CFL Ballast (2) CFQ26W/G24q PS 120-277V
QTP2X26CF/UNVBS	C2642UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ26W/G24q PS 120-277V
QTP2X26CF/UNVTS	C2642UNVME000K	ULT is multi-entry kit	Electronic CFL Ballast (2) CFQ26W/G24q PS 120-277V
QTP2X28T5/UNVPS115-SC	B228PUNV115-D		Electronic FL Ballast (2) F28T5 PS UNV 50/60 1.15 BF
QTP2X28T5/347PS-SC	B228P347PLA		
QTP2X28T5/UNV DIM-TCL	ES5847K	ULT is 0-10Vdc dimming only	Electronic FL Ballast (2) F28T5 XX 120-277V Dimming
QTP2X28T5/UNVPSN	B228PUNV-N	Alt: B228PUNV-C	Electronic FL Ballast (2) F28T5 PS 120-277V
QTP2X32T8/120ISN-SC	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
QTP2X32T8/120PSN-TC	B232PUNVHE-B	ULT is universal voltage and parallel operation	Electronic FL Ballast (2) F32T8 PRS 120-277V
QTP2X32T8/277ISN-SC	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V

Competitive P/N	Universal P/N	Comments	Universal Description
QTP2X32T8/277PSN-TC	B232PUNVHE-B	ULT is universal voltage and parallel operation	Electronic FL Ballast (2) F32T8 PS 120-277V
QTP2X32T8/347ISN-D	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
QTP2X32T8/347ISN-SC	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
QTP2X32T8/UNVISH-SC	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF HBF
QTP2X32T8/UNVISL-SC	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120-277V HI-EFF LBF
QTP2X32T8/UNVISN-SC	B232IUNVHP-N	Also: B232IUNVHE-N	Electronic FL Ballast (2) F32T8 IS 120-277V
QTP2X32T8/UNVPSH-HT	No Cross		
QTP2X32T8/UNVPSN-TC	B232PUNVHE-B		Electronic FL Ballast (1 or 2) F32T8 PS UNV HI-EFF PARALLEL
QTP2X32T8/UNVPSX-TC	B232PUNVEL-B	ULT is parallel operation	Electronic FL Ballast (2) F32T8 120-277V, Low BF Hi-Eff
QTP2X3924T5HO/UNVPSN	B239PUNV-D		Electronic FL Ballast (2) F39T5HO PS 120-277V
QTP2X40T12/120RSN-B	B234SR120M-A		Electronic FL Ballast (2) F40T12ES RS 120V
QTP2X40T12/277RSN-B	B234SR277M-A		Electronic FL Ballast (2) F40T12ES RS 277V
QTP2X40T12/UNV/RS/SC	B234SRxxxM-A	ULT is 120V or 277V only	Electronic FL Ballast 2 F40T12 RS 277 60
QTP2X40TT5/120PSN-F	C240PUNVHP-B	ULT is universal voltage	Electronic FL Ballast (1/2) FT40W/2G11 PRS 120-277V
QTP2X40TT5/277PSN-F	C240PUNVHP-B	ULT is universal voltage	Electronic FL Ballast (1/2) FT40W/2G11 PRS 120-277V
QTP2X42CF/UNVBM	C242UNVME		Electronic CFL Ballast (2) CFM42W/GX24q PS 120-277V
QTP2X42CF/UNVPM	C242UNVMES		Electronic CFL Ballast (2) CFM42W/GX24q PS 120-277V
QTP2X42CF/UNVTM	C242UNVME		Electronic CFL Ballast (2) CFM42W/GX24q PS 120-277V
QTP2X54T5HO/347-480PSN HT	B254PHRVHB-E		Electronic FL Ballast 2/1 F54T5HO PRS 347-480V HIGH BAY
QTP2X54T5HO/UNVPSN	B254PUNV-D		Electronic FL Ballast (2) F54T5HO PS 120-277V
QTP2X54T5HO/UNVPSN HT	B254PUNVHB-D		Electronic FL Ballast (2) F54T5HO PS UNV 50/60 HIGH BAY
QTP2X59T8/120ISN-A	B259IUNVHP-A	ULT is universal voltage, Alt: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
QTP2X59T8/277ISN-A	B259IUNVHP-A	ULT is universal voltage, Alt: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
QTP2X59T8/UNVISN-SC	B259IUNVHP-A	Alt: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120-277V
QTP2X96T12/UNV/IS	B260IUNVHP		Electronic FL Ballast (2) F96T12ES IS 120-277V
QTP3X32T8/120ISL-SC	B332IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V, Low BF
QTP3X32T8/120ISN-SC	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V
QTP3X32T8/120PSN-SC	B332PUNVHE-A	ULT is universal voltage and parallel operation	Electronic FL Ballast (3) F32T8 PS 120-277V
QTP3X32T8/277ISL-SC	B332IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V, Low BF
QTP3X32T8/277ISN-SC	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V
QTP3X32T8/277PSN-SC	B332PUNVHE-A	ULT is universal voltage and parallel operation	Electronic FL Ballast (3) F32T8 PS 120-277V
QTP3X32T8/347ISN-SC	B332I347HP		Electronic FL Ballast 3 F32T8 IS 347V
QTP3X32T8/UNVISH-SC	B332IUNVHEH-A		Electronic FL Ballast (3) F32T8 IS 120-277V, High BF
QTP3X32T8/UNVISL-SC	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120-277V, Low BF
QTP3X32T8/UNVISN-SC	B332IUNVHP-A	Also: B332IUNVHE-A	Electronic FL Ballast (3) F32T8 IS UNV 60HZ HBCC
QTP3X32T8/UNVPSH-HT	No Cross		
QTP3X32T8/UNVPSN-SC	B332PUNVHE-A	ULT is parallel operation	Electronic FL Ballast (3) F32T8 PS 120-277V
QTP3X32T8/UNVPSX-SC	B332PUNVEL-A		Electronic FL Ballast (3) F32T8 PS UNV HI-EFF PARALLEL .71 BF
QTP3X40T12/120RSN-B	No Cross		Electronic FL Ballast (3) F40T12ES RS 120V
QTP3X40T12/277RSN-B	No Cross		Electronic FL Ballast (3) F40T12ES RS 277V
QTP3X40TT5/120PSN-B	No Cross		Electronic FL Ballast (3) FT40W/2G11 IS 120V
QTP3X40TT5/277PSN-B	No Cross		Electronic FL Ballast (3) FT40W/2G11 IS 277V
QTP4X32T8/120ISL-SC	B432IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V, Low BF
QTP4X32T8/120ISN-SC	B432IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V
QTP4X32T8/120PSN-SC	B432PUNVHE-A	ULT is universal voltage and parallel operation	Electronic FL Ballast (4) F32T8 PS 120-277V
QTP4X32T8/277ISL-SC	B432IUNVEL-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V, Low BF
QTP4X32T8/277ISN-SC	B432IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V
QTP4X32T8/277PSN-SC	B432PUNVHE-A	ULT is universal voltage and parallel operation	Electronic FL Ballast (4) F32T8 PS 120-277V
QTP4X32T8/347ISN-SC	B432I347HP		Electronic FL Ballast 4 F32T8 IS 347V
QTP4X32T8/UNVISL-SC	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120-277V, Low BF

Competitive P/N	Universal P/N	Comments	Universal Description
QTP4X32T8/UNVISN-SC	B432IUNVHP-A	Also: B432IUNVHE-A	Electronic FL Ballast (4) F32T8 IS UNV 60HZ HBCC
QTP4X32T8/UNVPSH-HT	No Cross		
QTP4X32T8/UNVPSN-SC	B432PUNVHE-A	ULT is parallel operation	Electronic FL Ballast (4) F32T8 PS 120-277V
QTP4X32T8/UNVPSX-SC	B432PUNVEL-A		Electronic FL Ballast (4) F32T8 PS UNV HI-EFF PARALLEL .71 BF
QTP4X54T5HO/UNVPSN HTW	B454PUNVHB-E	ULT has leads	Electronic FL Ballast 4/3 F54T5HO PS UNV 50/60 HIGH BAY
QTR2X32T8/120ISN-SC	B232I120RES-A		Electronic FL Ballast (2) F32T8 IS 120V RESIDENTIAL
QTR4X32T8/120ISN-SC	B432I120RES-A		Electronic FL Ballast (4) F32T8 IS 120V RESIDENTIAL

### Dimming Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
QHE 1x28T5/UNV DIM-TC	B128PUNVSV3-D	For 1L 28W or 21W applications; 0-10V analog dimming only	(1) 28W/21W ANALOG 0-10V DIMMING
"	B114PUNVSV3-D	For 1L 14W applications; 0-10V analog dimming only	(1) 14W/21W ANALOG 0-10V DIMMING
QHE 1x54T5HO/UNV DIM-TC	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QHE 2x28T5/UNV DIM-TCL	B228PUNVSV3-D	For 2L 28W or 21W applications; 0-10V analog dimming only	(2) 28W/21W ANALOG 0-10V DIMMING
QHE 2x28T5/UNV DIM-TCL	B214PUNVSV3-D	For 2L 14W applications; 0-10V analog dimming only	(2) 14W/21W ANALOG 0-10V DIMMING
QHE 2x54T5HO/UNV DIM-TCL	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QHE2x32 T8/UNV PSN-SC	B232PUS50-A		(2) F32T8 PS UNV STEP DIMMING
QS 2x54 T5HO UNV PS80 SC	No Cross		
QT 1x54/120 PHO-DIM	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QT 1x54/277 PHO-DIM	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QT 2x54/120 PHO-DIM	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QT 2x54/277 PHO-DIM	B254PUSV3PLD	0-10V analog dimming only	(2/1)F54T5HO UNV 0-10V DIM - Parallel lamp
QTP 1x14T5/UNV DALI	B114PUNVDV3-D		ELF (1) F14T5HE PS UNV DALI DIGITAL DIMMING
QTP 1x18CF/UNV DALI	C226UNVDV3ME		ECF (1) CFQ18W/G24Q PS UNV DALI DIGITAL DIMMING
QTP 1x26CF/UNV DALI	C226UNVDV3ME		ECF (1) CFQ26W/G24Q PS UNV DALI DIGITAL DIMMING
QTP 1x28T5/UNV DALI	B128PUNVDV3-D		ELF (1) F28T5 PS UNV DALI DIGITAL DIMMING
QTP 1x32CF/UNV DALI	C226UNVDV3ME		ECF (1) CFTR32W/GX24q PS UNV DALI DIGITAL DIMMING
QTP 1x32T8/UNV DALI	B132PUNVDV3-A		ELF (1) F32T8 PS UNV DALI DIGITAL DIMMING
QTP 1x32T8/UNV DIM-TC	B132PUNVSV3-A	0-10V analog dimming only	(1)F32T8 UNV ANALOG 0-10V DIMMING
QTP 1x35T5/UNV DALI	B135PUNVDV3-D		ELF (1) F35T5HO PS UNV DALI DIGITAL DIMMING
QTP 1x40TT5/UNV DALI	C140PUNVDV3		ECF (1) FT40W/2G11 PS UNV DALI DIGITAL DIMMING
QTP 1x42CF/UNV DALI	C226UNVDV3ME		ECF (1) CFM42W/GX24Q PS UNV DALI DIGITAL DIMMING
QTP 1x54T5HO/UNV DALI	B254PUDV3PLD		ELF (1) F54T5HO PV UNV DALI DIGITAL DIMMING
QTP 2x14T5/UNV DALI	B214PUNVDV3-D		ELF (2) F14T5HE PS UNV DALI DIGITAL DIMMING
QTP 2x18CF/UNV DALI	C226UNVDV3ME		-
QTP 2x26CF/UNV DALI	C226UNVDV3ME		ECF (2) CFQ26W/G24Q PS UNV DALI DIGITAL DIMMING
QTP 2x28T5/UNV DALI	B228PUNVDV3-D		ELF (2) F28T5 PS UNV DALI DIGITAL DIMMING
QTP 2x32CF/UNV DALI	C232PUNVDV3		ECF (2) CFTR32W/GX24q PS UNV DALI DIGITAL DIMMING
QTP 2x32T8/UNV DALI	B232PUNVDV3-A		ELF (2) F32T8 PS UNV DALI DIGITAL DIMMING
QTP 2x32T8/UNV DIM-TC	B232PUNVSV3-A	0-10V analog dimming only	(2)F32T8 UNV ANALOG 0-10V DIMMING
QTP 2x35T5/UNV DALI	No Cross		ELF (2) F35T5HO PS UNV DALI DIGITAL DIMMING
QTP 2x40TT5/UNV DALI	C240PUNVDV3		ECF (2) FT40W/2G11 PS UNV DALI DIGITAL DIMMING
QTP 2x42CF/UNV DALI	C242PUNVDV3		ECF (2) CFM2W/GX24Q PS UNV DALI DIGITAL DIMMING
QTP 2x54T5HO/UNV DALI	B254PUDV3PLD		ELF (2) F54T5HO PS UNV DALI DIGITAL DIMMING
QTP 3x32T8/UNV DIM-TCL	B332SR120V5	120VAC applications; 0-10V analog dimming only	3 F32T8 DIM 5 RS 120 60 HBXX
"	B332SR277V5	277VAC applications; 0-10V analog dimming only	3 F32T8 DIM 5 RS 277 60 HBXX
QTP 4x32T8/277 DIM PLUS-TCL	No Cross		
QTP 4x32T8/UNV DIM-TCL	B432SR277V5	277VAC applications; 0-10V analog dimming only	4 F32T8 DIM 5 RS 277 60 HBXX

### HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
46808	M1500MLTAC5M		(1) 1500W MH M48 QUAD 60Hz C&C
47035	M17548TAC3M	ULT: Has 120V Tap	(1) 175W M57 480-120V 60HZ C&C
47049	M250MLTAC3M		(1) 250W MH M58 QUAD 60Hz C&C



Competitive P/N	Universal P/N	Comments	Universal Description
47050	M25048TAC3M	ULT: Has 120V Tap	
47065	M40048TAC4M	ULT: Has 120V Tap	(1) 400W MH M59 480 60Hz C&C
47075	No Cross		
47095	M1500480AC5M		(1) 1500W MH M48 480 60Hz C&C
47243	M175ML5AC3M		(1) 175W MH M57 MULTI-5 60HZ
47253	M17548TAC3M		(1) 175W M57 480-120V 60HZ C&C
47254	No Cross		
47265	M250ML5AC4M		(1) 250W MH M58 MULTI-5 60HZ C&C
47268	M25048TAC4M		(1) 250W M58 480-120V 60HZ
47338	M400ML5AC4M		(1) 250W MH M59 Multi-5 60Hz C&C
47394	M40048TAC4M		(1) 400W M59 480-120V 60HZ
47427	M1000ML5AC5M		(1) 1000W MH M47 MULTI-5 60HZ
47432	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
47434	M150048TAC5M		(1)1500W MH 48T 60Hz C&C
47611	M25048TAC4M	ULT: Has 120V Tap	(1) 250W M58 480-120V 60HZ
47655	M1000480AC5M		(1) 1000W MH M47 480 60Hz C&C
47735	M175MLTAC3M		(1) 175W MH M48 QUAD 60Hz C&C
47737	M250MLTAC4M		(1) 250W M58 MULTI 60HZ C&C
47739	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
47744	M1000MLTAC5M		(1) 1000W M47 MULTI 60HZ
<b>Pulse Start Metal Halide</b>			
46801	No Cross		
46802	P200ML5AC3M	ULT: 120/208/240/277/480	
	P200TRIAC3M	ULT: 120/277/347	
46803	P32048TAC4L	ULT: Includes 120V tap, EISA Compliant	(1) 320W PS M154 480-120V 60HZ LOW LOSS C&C
46804	P45048TAC4L	ULT: Includes 120V tap, EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
46805	P100048TAC5M	ULT: Includes 120V tap	(1) 1000W PS 480V 60HZ C&C
47001	No Cross		
47007	M50MLTLC3M		(1) 50W M110 MULTI 60HZ
47013	M70MLTLC3M		(1) 70W HPS S62 MULTI 60HZ C&C
47019	M100MLTLC30		(1) 100W MH M90 MULTI 60HZ C&C
47089	No Cross		
47090	No Cross		
47106	P25048TAC4L	ULT: Includes 120V tap, EISA Compliant	(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
47112	P250MLTAC4L	ULT: EISA compliant	(1) 250W PS M138 QUAD 60Hz Low Loss C&C
47132	P400MLTAC4L	ULT: EISA Compliant	(1) 400W PS M135 QUAD 60Hz C&C
47138	P40048TAC4L	ULT: Includes 120V tap, EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
47203	M35TRILC3M	ULT: Also includes 347V tap	(1) 35W MH M130 TRI 60Hz C&C
47204	M50TRILC3M	ULT: Also includes 347V tap	(1) 50W M110 TRIVOLT 60HZ
47217	M70TRILC3M	ULT: Also includes 347V tap	(1) 70W M98 TRIVOLT 60HZ
47219	M100TRILC3M	ULT: Also includes 347V tap	(1) 100W MH M90 TRI 60Hz C&C
47228	M150TRILC3M	ULT: Also includes 347V tap	(1) 150W MH M102 TRI 60HZ
47229	M150MLTLC3D		(1) 150W M81 MULTI 60HZ
47259	P200ML5AC3M	ULT: ML5 has 120/208/240/277/480	
	P200TRIAC3M	ULT: 120/277/347	
47273	No Cross		
47282	P250ML5AC4L	ULT: EISA compliant	(1) 250W PSMH M138 MULTI-5 60HZ C&C
47283	P25048TAC4L	ULT: EISA Compliant	(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
47303	P32048TAC4L	ULT: EISA Compliant	(1) 320W PS M154 480-120V 60HZ LOW LOSS C&C
47337	P35048TAC40	ULT: EISA Compliant	(1) 350W PS M131 480-120V 60HZ LOW LOSS C&C
47400	P400ML5AC4L	ULT: EISA Compliant	(1) 400W PS/MH M132 MULTI-5 60Hz C&C
47403	P40048TAC4L	ULT: EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
47405	P450MLTAC4L	ULT: EISA Compliant	(1) 450 PS M144 QUAD 60HZ C&C
47408	P45048TAC4L	ULT: EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
47409	P750TRIAC5M	ULT: 120/277/347	
	P75048TAC5M	ULT: 480 with 120 tap	
47416	P1000MLTAC5M		(1) 1000W MH QUAD 60Hz C&C
47417	P1000MLTAC5M	ULT: 120/208/240/277	
	P100048TAC5M	ULT: 480 w/120V Tap	
47640	M150MLTAC3M		(1) 150W MH M102/M142 MULTI 60HZ C&C
47645	No Cross		
47676	P320MLTAC40	ULT: EISA compliant	(1) 320 PSMH M132 MULTI 60HZ C&C
47682	M150MLTLC3M		(1) 150W MH M102 MULTI 60HZ C&C
47686	P175MLTAC3M	Non-EISA models	(1) 175W PS M137 QUAD 60Hz C&C
47690	P200ML5AC3M	ULT: Includes 480V Tap, Non-EISA	(1) 200W PSMH M136 MULTI-5 60Hz C&C
47695	P350MLTAC40	ULT: EISA Compliant	(1) 350W PS M131 QUAD 60Hz C&C
47697	P35048TAC40	ULT: Includes 120V tap, EISA Compliant	(1) 350W PS M131 480-120V 60HZ LOW LOSS C&C
47717	P750MLTAC5M		(1) 750W PS MULTI 60HZ C&C
47718	P75048TAC5M	ULT: Includes 120V tap	(1) 750W PS 480-120V 60Hz C&C
<b>High Pressure Sodium</b>			
47269	No Cross		
47271	No Cross		
47274	No Cross		
47284	No Cross		
47301	S70MLTLC3M		(1) 70W HPS S54 QUAD 60Hz C&C
47304	No Cross		
47316	S100MLTLC3M		(1) 100W HPS S45 TRI 60Hz C&C
47319	No Cross		
47335	S150MLTLC30		(1) 150W HPS S55 MULTI 60HZ C&C
47357	S250MLTAC4M		(1) 250W HPS S50 MULTI 60HZ C&C

Competitive P/N	Universal P/N	Comments	Universal Description
47358	S25048TAC4M	ULT: Includes 120V tap	(1) 250W HPS S50 480-120 60Hz C&C
47364	S400MLTAC4M		(1) 400W HPS S51 QUAD 60Hz C&C
47376	S40048TAC4M	ULT: Includes 120V tap	(1) 400W HPS S51 480 60Hz C&C
47389	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
47391	S100048TAC5M	ULT: Includes 120V tap	(1) 1000W HPS S52 480 60Hz C&C
47537	No Cross		
47548	No Cross		
47549	S50MLTLC3M	ULT: 120/208/240/277	(1) 50W HPS S68 MULTI 60Hz C&C
47558	No Cross		
47571	S7027TLC3M		(1) 70W HPS S62 277/120 60Hz C&C
47579	S7048TLC3M		(1) 70W HPS S62 480-120V 60Hz C&C
47585	No Cross		
47592	S10027TLC3M		(1) 100W HPS S54 120/277 60Hz C&C
47593	S10048TLC3M		(1) 100W HPS S52 48T 60Hz C&C
47616	No Cross		
47617	S15027TLC3M		(1) 150W HPS S55 120/277 60Hz C&C
47619	S15048TLC3M	ULT: Includes 120V tap	(1) 150W HPS S55 48T 60Hz C&C
47621	S15048TLC3M		(1) 150W HPS S55 48T 60Hz C&C
47623	No Cross		
47628	S200MLTAC4M		(1) 200W HPS S66 QUAD 60Hz C&C
47631	S20048TAC4M	ULT: Includes 120V tap	(1) 200W HPS S66 480V 60Hz C&C
47634	S250ML5AC40		(1) 250W HPS S50 MULTI-5 60Hz C&C
47637	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
47642	S250TRAC4M	ULT: Includes 347V	(1) 250W HPS S50 TRI 60Hz C&C
47643	No Cross		
47644	No Cross		
47647	S400ML5AC4M		(1) 400W HPS S51 MULT-5 60Hz C&C
47656	S400TRAC4M	ULT: Includes 347V	(1) 400W HPS S51 TRI 60Hz C&C
47657	S40048TAC4M		(1) 400W HPS S51 480 60Hz C&C
47658	No Cross		
47659	S1000ML5AC5M		(1) 1000W HPS S52 MULTI-5 60HZ
47712	No Cross		

#### F-Can Ballasts

47195	11210236CTC		(1) 50W MH M110 120/277 60Hz F-Can
47680	No Cross		
47693	No Cross		
47694	11210506CTC		(1) 70W MH M98 120/277 60Hz F-Can
47734	11210239CTC		(1) 100W MH M90 120/277 60Hz F-Can
47738	11210539CTC	ULT: M102 only	(1) 150W MH M102 120/277 60Hz F-Can
47741	No Cross		
47743	1110245SCTC		(1) 175W MH M57 120/277 60Hz F-Can
47747	No Cross		
47749	No Cross		
47751	1110246CTC		(1) 250W MH M58 120/277 60Hz F-Can
47753	No Cross		
47757	No Cross		
47759	1110247SCTC		(1) 400W MH M59 120/277 60Hz F-Can
47761	12210261CTC		(1) 35W HPS S76 120/277 60Hz F-Can
47762	12210236CTC		(1) 50W HPS S68 120/277 60Hz F-Can
47763	12210237CTC		(1) 70W HPS S62 120/277 60Hz F-Can
47764	12210239CTC		(1) 100W HPS S54 120/277 60Hz F-Can
47765	12210241CTC		(1) 150W HPS S55 120/277 60Hz F-CAN
47777	1220246CTC		(1) 250W HPS S50 120/277 60Hz F-CAN

#### Indoor Enclosed HID Ballasts

47153	No Cross		
47158	No Cross		
47172	No Cross		
47207	No Cross		

#### eHID Ballasts

QTP1X15MH SM UNV F	No Cross		
QTP1X15MH SM UNV J	No Cross		
QTP1X20MH SM UNV F	M2012CK-7EUN-F M2012-27CK-6EU-F	ULT is 120V Only in Micro case ULT is mini-square w/ feet	M156 or C156
QTP1X20MH UNV SQ F	M2012-27CK-6EU-F		M156 or C157
QTP1X20MH UNV SQ J	M2012-27CK-6EU-J		M156 or C158
QTP1X39MH SM UNV F	M3912-27CK-6EUN-F		M130 or C130
QTP1X39MH UNV SQ F	M3912-27CK-6EU-F		M130 or C131
QTP1X39MH UNV SQ J	M3912-27CK-6EU-J		M130 or C132
QTP1X39MH/UNV F	M3912-27CK-5EU-F		M130 or C133
QTP1X39MH/UNV J	M3912-27CK-5EU-J		M130 or C134
QTP1X70MH UNV SQ F	M7012-27CK-6EU-F		M98, M139, M143
QTP1X70MH/UNV F	M7012-27CK-5EU-F		M98, M139, M144

Competitive P/N	Universal P/N	Comments	Universal Description
QTP1X70MH/UNV J	M7012-27CK-5EU-J		M98, M139, M145
QTP2X20MH UNV J	M2012-27CK-6EU-J	ULT is 1-lamp only	M156 or C156
QTP2X39MH UNV F	M3912-27CK-5EU-F	ULT is 1-lamp only	M156 or C156
QTP1X100MH/UNV F	M10012-27CK-5EU-F		M90, M140
QTP1X100MH/UNV J	M10012-27CK-5EU-J		M90, M141
QTP1X100MHUNVSLIMF	No Cross		

## Pacific to Universal Lighting Technologies

### HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
1MH/MV175SC480	M17548TAC3M	ULT: 120 tap also, MV app. not listed	(1) 175W M57 480-120V 60HZ
1MH/MV250SC480	M25048TAC4M	ULT: 120 tap also, MV app. not listed	(1) 250W M58 480-120V 60HZ
1MH/MV400SC480	M40048TAC4M	ULT: 120 tap also, MV app. not listed	(1) 400W M59 480-120V 60HZ
1MH/MV1000SC480	M1000480AC5M	ULT: MV app. not listed, 4.25" x 5.75"	(1) 1000W MH M47 480 60Hz C&C
1MV175SC120	No Cross		
2MH/MV175SC/T	M17548TAC3M	ULT: MV app. not listed	(1) 175W M57 480-120V 60HZ
2MH/MV250SC/T	M25048TAC4M	ULT: MV app. not listed	(1) 250W M58 480-120V 60HZ
2MH/MV400SC/T	M40048TAC4M	ULT: 120 tap for aux., MV app. not listed	(1) 400W M59 480-120V 60HZ
2MH/MV1000SC/T	M100048TAC5M	ULT: MV app. not listed, 4.25" x 5.75"	(1) 1000W MH M47 48T 60Hz C&C
2MH250SCA/T	M25048TAC4M		(1) 250W M58 480-120V 60HZ
3MH400SCA	No Cross		
2MH1000SCA/T	M100048TAC5M	ULT: 4.25" x 5.75"	(1) 1000W MH M47 48T 60Hz C&C
2MH1500SC/T	M150048TAC5M	ULT: 4.25" x 5.75"	(1) 1500W MH M48 48T 60Hz C&C
4MH/MV175SC	M175MLTAC3M	ULT: MV app. not listed	(1) 175W MH M57 QUAD 60Hz C&C
4MH/MV175SCC	M175TRIAC30	ULT: No 240V tap, MV app. not listed	(1) 175W M57 TRIVOLT 60Hz
4MH/MV250SC	M250MLTAC4M	ULT: MV app. not listed	(1) 250W M58 MULTI 60HZ
4MH/MV250SC-3	M250MLTAC3M	ULT: MV app. not listed	(1) 250W MH M58 QUAD 60Hz C&C
4MH/MV250SCC	M250TRIAC3M	ULT: No 240V tap, MV app. not listed	(1) 250W M58 TRIVOLT 60HZ
4MH/MV400SC	M400MLTAC4M	ULT: MV app. not listed	(1) 400W M59 MULTI 60HZ
4MH/MV400SCC	M400TRIAC4M	ULT: No 240V tap, MV app. not listed	(1) 400W M59 TRIVOLT 60HZ
4MH/MV1000SC	M1000MLTAC5M	ULT: MV app. not listed, 4.25" x 5.75"	(1) 1000W M47 MULTI 60HZ
4MH/MV1000SCC	M1000TRIAC5M	ULT: MV app. not listed	(1) 1000W MH M47 TRI 60HZ
4MH175SCA	M175MLTAC3M		(1) 175W MH M57 QUAD 60Hz C&C
4MH250SCA	M250MLTAC4M		(1) 250W M58 MULTI 60HZ
4MH400SCA	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
4MH1000SCA	M1000MLTAC5M	ULT: 4.25" x 5.75"	(1) 1000W M47 MULTI 60HZ
4MH1000SCC	M1000TRIAC5M	ULT: No 240V tap, MV app. not listed, 4.25"x5.75"	(1) 1000W MH M47 TRI 60HZ
4MH1500SC	M1500MLTAC5M	ULT: 4.25" x 5.75"	1-1500W MH M48 QUAD 60Hz C&C
4MV175SC	No Cross		
5MH/MV175SC	M175ML5AC3M	ULT: MV app. not listed	(1) 175W MH M57 MULTI-5 60HZ
5MH/MV250SC	M250ML5AC4M	ULT: MV app. not listed	(1) 250W MH M58 MULTI-5 60HZ
5MH/MV250SC-3	M250ML5AC3M	ULT: MV app. not listed	(1) 250W MH M57 MULTI-5 60HZ
5MH/MV400SC	M400ML5AC4M	ULT: MV app. not listed	(1) 250W MH M59 Multi-5 60Hz C&C
5MH/MV1000SC	M1000ML5AC5M	ULT: MV app. not listed, 4.25" x 5.75"	(1) 1000W MH M47 MULTI-5 60HZ
5MH175SCA	M175ML5AC3M		(1) 175W MH M57 MULTI-5 60HZ
5MH250SCA	M250ML5AC4M		(1) 250W MH M58 MULTI-5 60HZ
5MH400SCA	M400ML5AC4M		(1) 250W MH M59 Multi-5 60Hz C&C
5MH1000SCA	M1000ML5AC5M	ULT: 4.25" x 5.75"	(1) 1000W MH M47 MULTI-5 60HZ
<b>Pulse Start Metal Halide</b>			
1MH100SC277	No Cross		
1MH150SC277	No Cross		
1MH50SC277	No Cross		
1MH70SC277	No Cross		
1MP320RSC277	P320277RCEM		(1) 320 PSMH M132 277 60HZ REACTOR
1MP320RSCA277	P320277RCEM		(1) 320 PSMH M132 277 60HZ REACTOR
1MP350RSC277	P350277RCEM		(1) 350W PS/MH M131 277V 60Hz C&C
2MH100HXSC/T	M10048TLC3M		(1) 100W 480V MH
2MH150HXSC/T	M15048TLC3M		(1) 150W MH M102 48T 60Hz C&C
2MH50HXSC	M50TRILC3M	ULT: HX-HPF 120/277/347	(1) 50W M110 TRIVOLT 60HZ
2MH70HXSC/T	M7048TLC3M	ULT: HX-HPF 120/277/347	(1) 70W MH M98 48T 60Hz C&C
2MP1000SC/T	P100048TAC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 1000W PS 480V 60Hz C&C
2MP175SC/T	P17548TAC3M		(1) 175W PS M137 48T 60Hz C&C
2MP250SC/T	P25048TAC4L		(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
2MP250SCA/T	P25048TAC4L	ULT: EISA Compliant	(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
2MP320SC/T	P32048TAC4L	ULT: EISA	(1) 320W PS M154 480-120V 60Hz LOW LOSS C&C
2MP320SCA/T	P32048TAC4L	ULT: EISA	(1) 320W PS M154 480-120V 60Hz LOW LOSS C&C
2MP400SC/T	P40048TAC4L	PAC: EISA Compliant	(1) 400W PS M135 48T 60Hz C&C
2MP750SC/T	P75048TAC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 750W PS 480-120V 60Hz C&C
3MP320SCC	P320TRIAC4M		(1) 320W PS M132 TRI 60Hz C&C
3MP400SCA	P400TRIAC4M	PAC: EISA Compliant	(1) 400W PS M135 TRI 60Hz C&C
4MH100HXSC	M100MLTLC30		(1) 100W MH M90 MULTI 60Hz C&C
4MH150HXSC	M150MLTLC3M		(1) 150W MH M102 MULTI 60Hz C&C
4MH175SC-PS	P175MLTAC3M		(1) 175W PS M137 QUAD 60Hz C&C
4MH50HXSC	M50MLTLC3M	ULT: HX-HPF	(1) 50W M110 MULTI 60HZ
4MH70HXSC	M70MLTLC3M	ULT: HX-HPF	(1) 70W HPS S62 MULTI 60Hz C&C
4MP1000SC	P1000MLTAC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 1000W MH QUAD 60Hz C&C
4MP150SC	M150MLTAC3M		(1) 150W MH M102/M142 MULTI 60Hz C&C
4MP175SC	P175MLTAC3L	PAC: EISA Compliant	(1) 175W PS M132 QUAD 60Hz Low Loss C&C
4MP200SCA	P200MLTAC3L		
4MP250SC	P250MLTAC4L	ULT: Cu/Al Core PAC: Cu/Cu Core	(1) 250W PS M138 QUAD 60Hz Low Loss C&C
4MP250SCA	P250MLTAC4L		(1) 250W PS M138 QUAD 60Hz Low Loss C&C
4MP320SAA	P320MLTAC40	ULT: Cu/Al Core PAC: Al/Al Core	(1) 320 PSMH M132 MULTI 60Hz C&C
4MP320SC	P320MLTAC40	ULT: Cu/Al Core PAC: Cu/Cu Core	(1) 320 PSMH M132 MULTI 60Hz C&C
4MP320SCA	P320MLTAC40	ULT: Cu/Al Core EISA PAC: Cu/Al Core	(1) 320 PSMH M132 MULTI 60Hz C&C
4MP350SC	P350MLTAC40	ULT: Cu/Al Core PAC: Cu/Cu Core	(1) 350W PS M131 QUAD 60Hz C&C
4MP350SCA	P350MLTAC40		(1) 350W PS M131 QUAD 60Hz C&C

Competitive P/N	Universal P/N	Comments	Universal Description
4MP400SAA	P400MLTAC4L		(1) 400W PS M135 QUAD 60Hz C&C
4MP400SC	P400MLTAC4L	ULT: Al/Al Core PAC: Cu/Cu Core	(1) 400W PS M135 QUAD 60Hz C&C
4MP400SCA	P400MLTAC4L		(1) 400W PS M135 QUAD 60Hz C&C
4MP750SC	P750MLTAC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 750W PS MULTI 60HZ C&C
5MP1000SC	P1000ML5AC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 1000W MH QUAD 60Hz C&C 480V TAP
5MP175SC	P175ML5AC3M		(1) 175W PS M137 MULTI 60Hz C&C
5MP250SC	P250ML5AC4M	ULT: Non-EISA	(1) 250W PSMH M138 MULTI-5 60HZ C&C
5MP250SCA	P250ML5AC4M		(1) 250W PSMH M138 MULTI-5 60HZ C&C
5MP320SC	P320ML5AC4L		(1) 320W PSMH M132 MULTI-5 60HZ Low Loss C&C
5MP320SCA	P320ML5AC4L	ULT: Cu/Cu Core PAC: Cu/Al Core Non-EISA	(1) 320W PSMH M132 MULTI-5 60HZ Low Loss C&C
5MP400SC	P400ML5AC4L	ULT: EISA	(1) 400W PS/MH M132 MULTI-5 60HZ C&C
5MP400SCA	P400ML5AC4L	ULT: Cu/Cu Core PAC: Cu/Al Core	(1) 400W PS/MH M132 MULTI-5 60HZ GC&C
5MP750SC	P750ML5AC5M	ULT: 4.25"x5.75" PAC: 4.25"x6.00"	(1) 750W PSMH M149 MULTI-5 60HZ C&C
<b>High Pressure Sodium</b>			
1HPS100SC120	S100120RCCEM		(1) 100W HPS S54 120 60Hz
1HPS150SC120	S150120RCCEM		(1) 150W HPS S50 120V 60HZ
1HPS250SC480	S20048TAC4M		(1) 200W HPS S66 480V 60HZ C&C
1HPS35SC120	S35120RCCEM		(1) 35W HPS S76 120V 60Hz
1HPS400SC480	S40048TAC4M		(1) 400W HPS S51 480 60Hz C&C
1HPS50SC120	S50120RCCEM		(1) 50W HPS S68 120V 60Hz
1HPS70SC120	S70120RCCEM		(1) 70W HPS S62 120V 60Hz
2HPS1000SC/T	S100048TAC5M		(1) 1000W HPS S52 480 60Hz C&C
2HPS100HXSC/T	No Cross		
2HPS150HXSC/T	No Cross		
2HPS250SC/T	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
2HPS400SC/T	S40048TAC4M		(1) 400W HPS S51 480 60Hz C&C
2HPS50HXSC	S50MLTLC3M	ULT: HX-HPF 120/208/240/277	(1) 50W HPS S68 MULTI 60HZ C&C
2HPS70HXSC/T	No Cross		
4HPS1000SC	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
4HPS1000SCC	No Cross		
4HPS100HXSC	S100MLTLC3M	ULT: HX-HPF	(1) 100W HPS S45 TRI 60Hz C&C
4HPS150HXSC	S150MLTLC30	ULT: HX-HPF	(1) 150W HPS S55 MULTI 60HZ C&C
4HPS200SC	S200MLTAC4M		(1) 200W HPS S66 QUAD 60HZ C&C
4HPS250SC	S250MLTAC4M		(1) 250W HPS S50 MULTI 60HZ C&C
4HPS250SCC	No Cross		
4HPS400SC	S400MLTAC4M		(1) 400 HPS S51 QUAD 60HZ C&C
4HPS400SCC	No Cross		
4HPS50HXSC	S50MLTLC3M	ULT: HX-HPF	(1) 50W HPS S68 MULTI 60HZ C&C
4HPS600SC	S600MLTAC5M		(1) 600W HPS S106 QUAD 60Hz C&C
4HPS70HXSC	S70MLTLC3M	ULT: HX-HPF	(1) 100W HPS S54 QUAD 60Hz C&C
5HPS1000SC	S1000ML5AC5M		(1) 1000W HPS S52 MULTI-5 60HZ
5HPS250SC	S250ML5AC40		(1) 250W HPS S50 MULTI-5 60HZ C&C
5HPS400SC	S400ML5AC4M		(1) 400W HPS S51 MULT-5 60HZ C&C
<b>Mercury Vapor</b>			
1MV100SC120	No Cross		
4MV100SC	No Cross		
4MV50SC	No Cross		

## Robertson to Universal Lighting Technologies

### Dimming Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
PSL132T8MV3D	No Cross		
PSL232T8MV3D	No Cross		

### Advance to Signa Sign (ULT)

### Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Magnetic Linear Sign Ballasts</b>			
ASB-0412-12-BL-TP	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
ASB-0620-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
ASB-1224-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
ASB-1240-46-BL-TP	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
ASB-2040-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
ASB-2432-34-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
ASB-2448-46-BL-TP	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
VSF-0412-12-BL-TP	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
VSF-0620-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
VSF-1224-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
VSF-1240-46-BL-TP	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
VSF-2040-24-BL-TP	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
VSF-2448-46-BL-TP	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
<b>Electronic Linear Sign Ballasts</b>			
ASB-0416-12-E	ESB216-12	ULT: Parallel Wiring	120-277V 1-2 Lamps 2'-16'
ASB-1232-24-E	ESB432-14	ULT: Parallel Wiring	120-277V 1-4 Lamps 4'-32'
ASB-2048-46-E	ESB848-46	ULT: Parallel Wiring	120-277V 4-6 Lamps 8'-48'
<b>F-Can HID Ballasts</b>			
72C5581NP-001	1110-245-SC-TC	Check Lamp	(1) 175W M57 120/277V F-Can
72C5582NP-001	No Cross		
72C5782NP-001	1110-264C-TC		(1) 250W M58 120/277V F-Can
72C5783NP-001	No Cross		
72C5882NP-001	No Cross		
72C5983P-001	No Cross		
72C6082NP-001	1110-247SC-TC		(1) 400W M59 120/277V F-Can
72C6082NP-WC	1110-247SC-TC		(1) 400W M59 120/277V F-Can
72C6182NP-001	No Cross		
ASB150MM102BL	11210-539C-TC		(1) 150W M102 120/277V F-Can

## Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Magnetic Linear Sign Ballasts</b>			
272-AT	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
272-AT277V	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
272-AT347V	No Cross		
296-AT	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
296-AT277V	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
296-AT347V	No Cross		
348-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
348-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
348-AT347V	No Cross		
372-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
372-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
372-AT347V	No Cross		
396-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
396-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
396-AT347V	No Cross		
4120-AT	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
4120-AT277V	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
4120-AT347V	No Cross		
448-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
448-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
448-AT347V	No Cross		
472-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
472-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
472-AT347V	No Cross		
496-AT	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
496-AT277V	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
496-AT347V	No Cross		
572-AT	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
572-AT277V	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
572-AT347V	No Cross		
648-AT	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
648-AT277V	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
648-AT347V	No Cross		
672-AT	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
672-AT277V	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
672-AT347V	No Cross		
696-AT	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
696-AT277V	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
696-AT347V	No Cross		
<b>Electronic Linear Sign Ballasts</b>			
EESB-0250-16L-120-277V	No Cross	See Specific ballast for specific application	
RSS196AT	ESB216-12	ULT Ballast 120-277 and Parallel Wired	120V-277V 1-2 Lamps 2'-16'
RSS296AT	ESB216-12	ULT Ballast 120-277 and Parallel Wired	120V-277V 1-2 Lamps 2'-16'
RSS396AT	ESB432-14	ULT Ballast 120-277 and Parallel Wired	120V-277V 1-4 Lamps 4'-32'
RSS496AT	ESB432-14	ULT Ballast 120-277 and Parallel Wired	120V-277V 1-4 Lamps 4'-32'
RSS696AT	ESB848-46	ULT Ballast 120-277 and Parallel Wired	120V-277V 4-6 Lamps 8'-48'
<b>F-Can HID Ballasts</b>			
MH175BT120/277	1110-245-SC-TC		(1) 175W M57 120/277V F-Can
MH175BT120/347	1110-564-C-TC		(1) 175W M57 120/347V F-Can
MH250BT120/277	1110-264C-TC		(1) 250W M58 120/277V F-Can
MH250BT120/347	1110-566C-TC		(1) 250W M58 120/347V F-Can
MH400BT120/277	1110-247SC-TC		(1) 400W M59 120/277V F-Can
MH400BT120/347	1110-568C-TC		(1) 400W M59 120/347V F-Can

Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Magnetic Linear Sign Ballasts</b>			
168 DR	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
2128 DR	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
2128 KR	No Cross		
268 DR	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
268 DR2	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
268 KR	No Cross		
288 DR	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
288 KR	No Cross		
3128 DR	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
348 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
368 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
368 KR	No Cross		
388 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
388 KR	No Cross		
4128 DR	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
4128 KR	No Cross		
448 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
448 DR2	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
448 KR	No Cross		
458 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
458 KR	No Cross		
468 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
468 DR2	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
468 KR	No Cross		
488 DR	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
488 DR2	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
488 KR	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
568 DR	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
568 KR	No Cross		
588 DR	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
588 KR	No Cross		
668 DR	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
668 DR2	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
668 KR	No Cross		
688 DR	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
688 DR2	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
688 KR	No Cross		
<b>Electronic Linear Sign Ballasts</b>			
EB1228-120V	ESB216-12	ULT: Has true 120-277	120-277V 1-2 Lamps 2'-16'
EB1228-277V	ESB216-12	ULT: Has true 120-277	120-277V 1-2 Lamps 2'-16'
EB1248-120V	ESB432-14	ULT: Has true 120-277	120-277V 1-4 Lamps 4'-32'
EB1248-277V	ESB432-14	ULT: Has true 120-277	120-277V 1-4 Lamps 4'-32'
EB1268-120V	ESB848-46	ULT: Has true 120-277	120-277V 4-6 Lamps 8'-48'
EB1268-277V	ESB848-46	ULT: Has true 120-277	120-277V 4-6 Lamps 8'-48'
EBP1228-120/277V-IS	ESB216-12	ULT: Has true 120-277	120-277V 1-2 Lamps 2'-16'
EBP12410-120/277V-IS	ESB1040-14	ULT: Has true 120-277	120-277V 1-4 Lamps 10'-40'
EBP1248-120/277V-IS	ESB432-14	ULT: Has true 120-277	120-277V 1-4 Lamps 4'-32'
EBP1268-120/277V-IS	ESB848-46	ULT: Has true 120-277	120-277V 4-6 Lamps 8'-48'
<b>F-Can HID Ballasts</b>			
SBIP-250	1110-246C-TC	ULT: No lampholder or diffuser included 120/277	(1) 250W M58 120/277 60 Hz F-Can
SBIP-400	1110-247SC-TC	ULT: No lampholder or diffuser included 120/277	(1) 400W M59 120/277 60 Hz F-Can



Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Electronic Linear Sign Ballasts</b>			
SN-120-1216-IS	ESB216-12		120-277V 1-2 Lamps 2'-16'
SN-120-3432-IS	ESB432-14		120-277V 1-4 Lamps 4'-32'
SN-120-3648-IS	ESB848-46	Check # of lamps and lamp footage	120-277V 4-6 Lamps 8'-48'
SN-277-1216-IS	ESB216-12		120-277V 1-2 Lamps 2'-16'
SN-277-3432-IS	ESB432-14		120-277V 1-4 Lamps 4'-32'
SN-277-3648-IS	ESB848-46	Check # of lamps and lamp footage	120-277V 4-6 Lamps 8'-48'

## Lighting Components to Signa Sign (ULT)

### Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Electronic Linear Sign Ballasts</b>			
EESB-1040-14L	ESB1040-14		120-277V 1-4 Lamps 10'-40'
EESB-1040-14MV	ESB1040-14	ULT: No 347V	120-277V 1-4 Lamps 10'-40'
EESB-1048-26L	ESB848-46	Check # of lamps	120-277V 4-6 Lamps 8'-48'
EESB-1048-26MV	ESB848-46	ULT: No 347V Check # of lamps	120-277V 4-6 Lamps 8'-48'
EESB-1808-1L	ESB216-12	Check lamp footage	120-277V 1-2 Lamps 2'-16'
EESB-424-13L	ESB432-14		120-277V 1-4 Lamps 4'-32'
EESB-424-13MV	ESB432-14	ULT: No 347V	120-277V 1-4 Lamps 4'-32'
EESB-832-16L	ESB432-14	Check # of lamps	120-277V 1-4 Lamps 4'-32'
EESB-832-16MV	ESB432-14	ULT: No 347V Check # of lamps	120-277V 1-4 Lamps 4'-32'
<b>F-Can HID Ballasts</b>			
175-EMPH-1-2	1110-264-TC		(1) 175W M57 120/277V F-Can
175-EPMH-1-3	1110-564-C-TC		(1) 175W M57 120/347V F-Can
250-EMPH-1-2	1110-264C-TC		(1) 250W M58 120/277V F-Can
250-EMPH-1-3	1110-566C-TC		(1) 250W M58 120/347V F-Can
400-EMPH-1-2	1110-247SC-TC		(1) 400W M59 120/277V F-Can
400-EMPH-1-3	1110-568C-TC		(1) 400W M59 120/347V F-Can

## Sign Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Magnetic Linear Sign Ballasts</b>			
TRA-148-0204	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
TRA-2120-1020	No Cross		
TRA-224-0204	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
TRA-27-148-0204	No Cross		
TRA-27-2120-1020	No Cross		
TRA-27-224-0204	No Cross		
TRA-27-272-0612	No Cross		
TRA-27-296-0816	No Cross		
TRA-27-348-0612	No Cross		
TRA-27-396-1624	No Cross		
TRA-27-4120-2040	No Cross		
TRA-27-448-0816	No Cross		
TRA-27-472-1624	No Cross		
TRA-27-496-2432	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
TRA-27-648-1624	No Cross		
TRA-27-672-2436	No Cross		
TRA-27-696-3048	No Cross		
TRA-272-0612	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
TRA-296-0816	ESB216-12	Check lamp footage/wiring change	120V-277V 1-2 Lamps 2'-16'
TRA-348-0612	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
TRA-396-1624	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
TRA-4120-2040	ESB1040-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 10'-40'
TRA-448-0816	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
TRA-472-1624	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
TRA-496-2432	ESB432-14	Check lamp footage/wiring change	120V-277V 1-4 Lamps 4'-32'
TRA-648-1624	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
TRA-672-2436	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
TRA-696-3048	ESB848-46	Check lamp footage/wiring change	120V-277V 4-6 Lamps 8'-48'
<b>Electronic Linear Sign Ballasts</b>			
TRA-13-0208 EP	ESB216-12	Check lamp footage	120-277V 1-2 Lamps 2'-16'
TRA-13-424 EP	ESB432-14		120-277V 1-4 Lamps 4'-32'
TRA-14-1040 EP	ESB1040-14		120-277V 1-4 Lamps 10'-40'
TRA-16-832 EP	ESB432-14	Check number of lamps (ESB848-46 4-6 Lamps)	120-277V 1-4 Lamps 4'-32'
TRA-26-1048 EP	ESB848-46	Check number of lamps (ESB432-14 1-4 Lamps)	120-277V 4-6 Lamps 8'-48'

## SOLA to Universal Lighting Technologies

### HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
E-871-DD-117	M17548TAC3M		(1) 175W MH M57 CWA 480/120V 60HZ
E-871-DD-211	M100048TAC5M		(1) 1000W MH M47 CWA 480/120T 60Hz C&C
E-871-DD-251	M25048TAC3M		(1) 250W MH M58 CWA 480/120T 60Hz C&C
E-871-DD-411	M40048TAC4M		(1) 400W MH M59 CWA 480/120T 60Hz C&C
E-871-W-117	M175MLTAC3M		(1) 175W MH M57 CWA QUAD 60Hz C&C
E-871-W-211	M1000MLTAC5M		(1) 1000W MH M47 CWA MULTI 60Hz C&C
E-871-W-251	M250MLTAC4M		(1) 250W MH M58 CWA MULTI 60Hz C&C
E-871-W-411	M400MLTAC4M		(1) 400W MH M59 CWA MULTI 60Hz C&C
E-MCA00W1500	M1500MLTAC5M		(1) 1500W MH M48 CWA QUAD 60Hz C&C
E-MCA00W151	M150MLTAC3M		(1) 150W MH M81/M102/M142 CWA QUAD 60Hz C&C
E-MCA00W71	No Cross		
E-MCA00W1500	M150048TAC5M		(1) 1500W MH M48 CWA 480/120T 60Hz C&C
E-MZA00W100	M100MLTLC30		(1) 100W MH M90 MULTI 60Hz C&C
E-MZA00W50	M50MLTLC3M		(1) 50W M110 MULTI 60HZ
<b>Pulse Start Metal Halide</b>			
EMCA00W171	P175MLTAC3M		(1) 175W PSMH M137 CWA QUAD 60Hz C&C
EMCA00W200	No Cross		
EMCA00W251	P250MLTAC4L	ULT: EISA	(1) 250W PSMH M138 CWA QUAD 60Hz Low Loss C&C
EMCA00W325	P320MLTAC40	ULT: EISA	(1) 320W PSMH M154 CWA QUAD 60Hz Low Loss C&C
	P350MLTAC40	ULT: EISA	(1) 350W PSMH M131 CWA QUAD 60Hz Low Loss C&C
EMCA00W401	P400MLTAC4L	ULT: EISA	(1) 400W PSMH M135 CWA QUAD 60Hz Low Loss C&C
<b>High Pressure Sodium</b>			
E-971-DD-SO1000	S100048TAC5M		(1) 1000W HPS S52 480 60Hz C&C
E-971-DD-SO150	No Cross		
E-971-DD-SO250	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
E-971-DD-SO400	S40048TAC5M		(1) 400W HPS S51 48T 60Hz C&C
E-971-W-SO1000	S1000MLTAC5M		
E-971-W-SO150	No Cross		
E-971-W-SO250	S250MLTAC4M		(1) 250W HPS S50 MULTI 60Hz C&C
E-971-W-SO400	S400MLTAC5M		(1) 400W HPS S51 QUAD 60Hz C&C
E-SCA00W200	S200MLTAC4M		(1) 200W HPS S66 QUAD 60Hz C&C
E-SCA00W310	No Cross		
E-SRNOOF100	123310W	ULT: R-HPF SOLA: R-NPF	(1) 100W HPS S54 120 60Hz C&C
E-SRNOOF150	1233154W	ULT: R-HPF SOLA: R-NPF	(1) 150W HPS S55 120 60Hz C&C
E-SRNOOF35	1233251W	ULT: R-HPF SOLA: R-NPF	(1) 35W HPS S75 120V 60Hz C&C
E-SRNOOF50	123335W	ULT: R-HPF SOLA: R-NPF	(1) 50W HPS S65 120V 60Hz C&C
E-SRNOOF70	1233142W	ULT: R-HPF SOLA: R-NPF	(1) 70W HPS S62 120 60Hz C&C
E-SZA00W100	S100MLTLC3M		(1) 100W HPS S45 TRI 60Hz C&C
E-SZA00W150	S150MLTLC30		(1) 150W HPS S55 MULTI 60Hz C&C
E-SZA00W70	S70MLTLC3M		(1) 100W HPS S54 QUAD 60Hz C&C
<b>F-Can Ballasts</b>			
E-MCAFTJ175F	1110245SCTC	ULT: 120/277 SOLA: 120/277/347	(1) 175W MH M57 120/277 60Hz F-Can
E-MCAFTJ250F	1110246CTC	ULT: 120/277 SOLA: 120/277/347	(1) 250W MH M58 120/277 60Hz F-Can
E-MCAFTJ400F	1110247SCTC	ULT: 120/277 SOLA: 120/277/347	(1) 400W MH M59 120/277 60Hz F-Can
E-MZAFTJ100F	11210239CTC	ULT: 120/277 SOLA: 120/277/347	(1) 100W MH M90 120/277 60Hz F-Can
E-MZAFTJ150F	11210539CTC	ULT: 120/277 SOLA: 120/277/347	(1) 150W MH M102 120/277 60Hz F-CAN
E-MZAFTJ70F	11210506CTC	ULT: 120/277 SOLA: 120/277/347	(1) 70W MH M98 120/277 60Hz F-Can

HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
BALM0175JCI	No Cross		
BALM0175JCI/R	No Cross		
BALM0175QCA	M175MLTAC3M		(1) 175W MH M57 CWA QUAD 60Hz C&C
BALM0175TCA	M175TRIAC30		(1) 175W MH M57 CWA TRI 60Hz C&C
BALM0175XCI	No Cross		
BALM0250JCI	No Cross		
BALM0250QCA	M250MLTAC4M		(1) 250W MH M58 CWA QUAD 60HZ C&C
BALM0250TCA	M250TRIAC4M		(1) 250W MH M58 CWA TRI 60HZ C&C
BALM0250TCA/R	M250TRIAC4M		(1) 250W MH M58 CWA TRI 60HZ C&C
BALM0250XCI	No Cross		
BALM0400CCA2	No Cross		
BALM0400CCI2	No Cross		
BALM0400ECI2	No Cross		
BALM0400FCI2	No Cross		
BALM0400GCI2	No Cross		
BALM0400HCA2	No Cross		
BALM0400HCI2	No Cross		
BALM0400JCI	No Cross		
BALM0400JCI/R	No Cross		
BALM0400QCA	M400MLTAC4M		(1) 400W MH M59 CWA MULTI 60HZ C&C
BALM0400TCA	M400TRIAC4M		(1) 400W MH M59 CWA TRI 60HZ C&C
BALM0400TCA/R	M400TRIAC4M		(1) 400W MH M59 TRIVOLT 60HZ C&C
BALM0400XCI	No Cross		
BALM0400XCI/R	No Cross		
BALM1000JCI	No Cross		
BALM1000JCI/R	No Cross		
BALM1000QCA	M1000MLTAC5M		(1) 1000W MH M47 CWA MULTI 60HZ C&C
BALM1000TCA	M1000TRIAC5M		(1) 1000W MH M47 CWA TRI 60HZ C&C
BALM1000TCA/R	M1000TRIAC5M		(1) 1000W MH M47 CWA TRI 60HZ C&C
BALM1000XCI	No Cross		
BALM1000XCI/R	No Cross		
BALM1500TCA	M1500TRIAC5M		(1) 1500W MH M48 CWATRI 60HZ C&C
BALM1650QCA	No Cross		
BALM1650VCA	No Cross		
BALM2000RCA	No Cross		
BALM2000SCA	No Cross		
<b>Pulse Start Metal Halide</b>			
BALM0035/39ACW	M35TRILC3M	ULT: 120/277/347 STD: 120	(1) 35W PSMH M130 TRI 60Hz C&C
BALM0050QCL	M50MLTLC3M		(1) 50W PSMH M110 MULTI 60HZ C&C
BALM0050TCL	M50TRILC3M		(1) 50W PSMH M110 TRIVOLT 60HZ C&C
BALM0070QCL	M70MLTLC3M		(1) 70W PSMH M98 MULTI 60HZ C&C
BALM0070TCL	M70TRILC3M		(1) 70W PSMH M98 TRIVOLT 60HZ C&C
BALM0100QCL	M100MLTLC30		(1) 100W PSMH M90 MULTI 60HZ C&C
BALM0100TCL	M100TRILC3M		(1) 100W PSMH M90 TRI 60HZ C&C
BALM0150QCL	M150MLTLC3M		(1) 150W PSMH M102 MULTI 60HZ C&C
BALM0150TCL	M150TRILC3M		(1) 150W PSMH M102 TRI 60HZ C&C
BALM0175ECA/PS	P17548TAC4L	ULT: 4" Core STD: 3" Core	(1) 175W PSMH M152 48T 60HZ C&C
BALM0175QCA/PS	P175MLTAC3M		(1) 175W PSMH M137 CWA QUAD 60Hz C&C
BALM0175TCA/PS	P175TRIAC3M		(1) 175W PSMH M137 CWA TRI 60Hz C&C
BALM0200ECA/PS	No Cross		
BALM0200QCA/PS	No Cross		
BALM0200TCA/PS	P200TRIAC3M		(1) 200W PSMH M136 TRI 60Hz C&C
BALM0250ECA/PS	P25048TAC4L	ULT: EISA	(1) 250W PSMH M153 48T 60Hz Low Loss C&C
BALM0250QCA/PS	P250MLTAC4L	ULT: EISA	(1) 250W PSMH M138 QUAD 60Hz Low Loss C&C
BALM0250TCA/PS	P250TRIAC4M		(1) 250W PSMH M138 TRIVOLT 60Hz C&C
BALM0320ECA/PS	P32048TAC4L	ULT: EISA	(1) 320W PSMH M154 480-120 Low Loss 60Hz C&C
BALM0320QCA/PS	P320MLTAC40	ULT: EISA	(1) 320W PSMH M132 MULTI 60HZ Low Loss C&C
BALM0320TCA/PS	P320TRIAC4M		(1) 320W PSMH M132 TRI 60HZ C&C
BALM0350ECA/PS	P35048TAC40	ULT: EISA	(1) 350W PSMH M131 480-120 60HZ Low Loss C&C
BALM0350QCA/PS	P350MLTAC40	ULT: EISA	(1) 350W PSMH M131 QUAD 60Hz Low Loss C&C
BALM0350TCA/PS	P350TRIAC4M		(1) 350W PSMH M131 TRI 60HZ C&C
BALM0400ECA/PS	P40048TAC4M	ULT: EISA	(1) 400W PSMH M135 48T 60Hz Low Loss C&C
BALM0400QCA/PS	P400MLTAC4M	ULT: EISA	(1) 400W PSMH M135 QUAD 60Hz Low Loss C&C
BALM0400TCA/PS	P400TRIAC4M		(1) 400W PSMH M135 TRI 60Hz C&C
BALM0450TCA/PS	P450TRIAC4M		(1) 450W PSMH M144 TRI 60Hz C&C
BALM0750OCA	P750TRIAC5M	ULT: Use P75048TAC5M for 480V	(1) 750W PSMH M149 TRIVOLT 60HZ C&C
BALM0750XCA	P750MLTAC5M	ULT: Quad STD: 120/208/240	(1) 750W PSMH M149 QUAD 60HZ C&C
<b>High Pressure Sodium</b>			
BALS0035ACR	S35120RCEM		(1) 35W HPS S76 120V 60Hz C&C
BALS0035ANR	1233251W		(1) 35W HPS S75 120V 60Hz C&C
BALS0050ACR	S50120RCEM		(1) 50W HPS S68 120V 60Hz C&C
BALS0050ANR	123335W		(1) 50W HPS S65 120V 60Hz C&C
BALS0050CCL	No Cross		
BALS0050MCL	S50MLTLC3M	ULT: Quad STD: 120/277	(1) 50W HPS S68 MULTI 60HZ C&C
BALS0070ACR	S70120RCEM		(1) 70W HPS S62 120V 60Hz C&C
BALS0070ANR	1233142W		(1) 70W HPS S62 120 60Hz C&C

Competitive P/N	Universal P/N	Comments	Universal Description
BALS0070CCI	No Cross		
BALS0070ECI	No Cross		
BALS0070FCI	No Cross		
BALS0070QCL	S70MLTLC3M		(1) 70W HPS S62 QUAD 60Hz C&C
BALS0070TCL	S70TRILC3M		(1) 70W HPS S62 TRI 60Hz C&C
BALS0070XCI	No Cross		
BALS0100ACR	S100120RCEM		(1) 100W HPS S54 120 60Hz C&C
BALS0100ANR	123310W		(1) 100W HPS S54 120 60Hz C&C
BALS0100CCI	No Cross		
BALS0100ECI	No Cross		
BALS0100FCI	No Cross		
BALS0100QCL	S100MLTLC3M		(1) 100W HPS S45 TRI 60HZ C&C
BALS0100TCL	S100TRILC3M		(1) 100W HPS S54 TRI 60HZ C&C
BALS0100XCI	No Cross		
BALS0150ACR	S150120RCEM		(1) 150W HPS S50 120V 60HZ C&C
BALS0150ANR	1233154W		(1) 150W HPS S55 120 60Hz C&C
BALS0150ECA	No Cross		
BALS0150ECI	No Cross		
BALS0150FCI	No Cross		
BALS0150QCA	S150MLTAC3M		(1) 150W HPS S56 CWA MULTI 60HZ C&C
BALS0150QCL	S150MLTLC30		(1) 150W HPS S55 MULTI 60HZ C&C
BALS0150TCL	S150TRILC3M		(1) 150W HPS S55 MULTI 60HZ C&C
BALS0150XCI	No Cross		
BALS0200CCI	No Cross		
BALS0200ECA	S20048TAC4M		(1) 200W HPS S66 CWA 480V 60HZ C&C
BALS0200FCI	No Cross		
BALS0200HCI	No Cross		
BALS0200QCA	S200MLTAC4M		(1) 200W HPS S66 CWA QUAD 60HZ C&C
BALS0250JCI	No Cross		
BALS0250QCA	S250MLTAC4M		(1) 250W HPS S50 CWA MULTI 60HZ C&C
BALS0250TCA	S250TRIAC4M		(1) 250W HPS S50 CWA TRI 60Hz C&C
BALS0250XCI	No Cross		
BALS0310QCA	No Cross		
BALS0400JCI	No Cross		
BALS0400QCA	S400MLTAC4M		(1) 400W HPS S51 CWA QUAD 60HZ C&C
BALS0400TCA	S400TRIAC4M		(1) 400W HPS S51 CWA TRI 60Hz C&C
BALS0400XCI	No Cross		
BALS0430OCI	No Cross		
BALS0430QCA	S430MLTAC4M		(1) 430W HPS Sona Argo CWA QUAD 60HZ C&C
BALS0430XCI	No Cross		
BALS0600OCA	No Cross		
BALS0600XCA	S600MLTAC5M	ULT: QUAD STD: 120/208/240	(1) 600W HPS S106 CWA QUAD 60HZ C&C
BALS0750OCA	No Cross		
BALS0750XCA	No Cross		
BALS1000JCI	No Cross		
BALS1000QCA	S1000MLTAC5M		(1) 1000W HPS S52 CWA MULTI 60HZ C&C
BALS1000TCA	S1000TRIAC5M		(1) 1000W HPS S52 CWA TRI 60Hz C&C
BALS1000XCI	No Cross		
<b>Low Pressure Sodium</b>			
ALP10A1	No Cross		
ALP18A112L	No Cross		
BALL0018ACK	No Cross		
BALL0018ACM	No Cross		
BALL0035UCM	No Cross		
BALL0035UCM	No Cross		
BALL0090UCM	No Cross		
BALL0135UCL	No Cross		
BALL0135UCL	No Cross		
<b>Mercury Vapor</b>			
BALH0100TCA	No Cross		
BALH0125LFA	No Cross		
BALH0125UCA	No Cross		
BALH0250APA	No Cross		
BALM0175JCI	No Cross		
BALM0175JCI/R	No Cross		
BALM0175QCA	No Cross		
BALM0175TCA	No Cross		
BALM0175TCA/R	No Cross		
BALM0175XCI	No Cross		
BALM0250JCI	No Cross		
BALM0250QCA	No Cross		
BALM0250TCA	No Cross		
BALM0250TCA/R	No Cross		
BALM0250XCI	No Cross		
BALM0400JCI	No Cross		
BALM0400JCI/R	No Cross		
BALM0400QCA	No Cross		
BALM0400TCA	No Cross		
BALM0400TCA/R	No Cross		
BALM0400XCI	No Cross		
BALM0400XCI/R	No Cross		

Competitive P/N	Universal P/N	Comments	Universal Description
BALM1000JCI	No Cross		
BALM1000JCI/R	No Cross		
BALM1000QCA	No Cross		
BALM1000TCA	No Cross		
BALM1000TCA/R	No Cross		
BALM1000XCI	No Cross		
BALM1000XCI/R	No Cross		
<b>F-Can Ballasts</b>			
BALH0100LFA	No Cross		
BALH0125LFA	No Cross		
BALM0035/39AFL	1120251ATC		(1) 35W MH M130 HX-HPF 120 60Hz F-Can
BALM0050TFL	11210236CTC	ULT: 120/277 STD: TRI	(1) 50W MH M110 HX-HPF 120/277 60Hz F-Can
BALM0070TFL	11210554CTC	ULT: 120/347 STD: TRI	(1) 70W MH M98 HX-HPF 120/347 60Hz F-Can
BALM0100TFL	11210606CTC	ULT: 120/347 STD: TRI	(1) 100W MH M90 HX-HPF 120/347 60HZ F-Can
BALM0150TFL	11210539CTC	ULT: 120/277 STD: TRI	(1) 150W MH M102 HX-HPF 120/277 60Hz F-Can
BALM0175TFA	1110564CTC	ULT: 120/347 STD: TRI	(1) 175W MH M57 CWA 120/347 60Hz F-Can
BALM0250TFA	1110566CTC	ULT: 120/347 STD: TRI	(1) 250W MH M58 CWA 120/347 60Hz F-Can
BALM0400TFA	1110568CTC	ULT: 120/347 STD: TRI	(1) 400W MH M59 CWA 120/347 60Hz F-Can
BALS0050CFL	No Cross		
BALS0050MFL	12210236CTC		(1) 50W HPS S68 HX-HPF 120/277 60Hz F-Can
BALS0070LFL	12210552CTC		(1) 70W HPS S62 HX-HPF 120/347 60Hz F-Can
BALS0100LFL	12210606CTC		(1) 100W HPS S54 HX-HPF 120/347 60Hz F-Can
BALS0150LFL	12210602CTC		(1) 150W HPS S55 HX-HPF 120/347 60Hz F-Can
BALS0150MFA	No Cross		

## Sli/Valmont/Power Lighting to Universal Lighting Technologies

### Electronic Fluorescent Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
E1/213/18PUVNCF	C213UNVME	Check application; Different case dimensions	2/1 CFQ13W/G24q PS UNV 60
E1/218PUVNCF	C218UNVME	Check application; Different case dimensions	2/1 CFQ18W/G24q PS UNV 60
E1/220PUVNV	No Cross		
E1/226/42PUVNCF	C2642UNVME	Check application; Different case dimensions	1/2 CF 26-42W PS UNV 60
E1/232/42PUVNCF	C242UNVME	Check application; Different case dimensions	(2) 42-36-32-26-24W CFL
E1/234/40PUVNV	B234SR277M-A	SLI is universal voltage	2L T12 RS 277V PARALLEL RH
E1/259PUVHLEADS	No Cross		
E132IUHV	B232IUNVHEH-A	Note: delamped application	2 LAMP HIGH EFFICIENCY HIGH LIGHT OUTPUT 120-277 INPUT
E132IUVL	B132IUNVEL-N		ELF (1) F32T8 IS UNV HIGH EFFICIENCY .77 BF
E132IUVN	B132IUNVHP-N	Also: B132IUNVHE-N	(1) F32T8 IS UNV 50/60 HBCC
E132PI120G01	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 120V
E132PI277G01	B132IUNVHP-N		Electronic FL Ballast (1) F32T8 IS 277V
E140SR120G01	B134R120M-A		Electronic FL Ballast (1) F40T12ES RS 120V
E140SR277G01	B234SR277M-A	De-lamped	Electronic FL Ballast (1) F40T12ES RS 277V
E150SB120G01	B254PUNV-D	Different case dimensions	Electronic FL Ballast (1) FT50W/2G11 PRS 120-277V
E150SB277G01	B254PUNV-D	Different case dimensions	Electronic FL Ballast (1) FT50W/2G11 PRS 120-277V
E228PUVNV	B228PUNV95-D	Different case dimensions	(2) F28T5 PS UNV 50/60 0.95 BF
E232IUHV	B232IUNVHEH-A		3 LAMP HIGH EFFICIENCY HIGH LIGHT OUTPUT 120-277 INPUT
E232IUVL	B232IUNVEL-N		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
E232IUVN	B232IUNVHP-N	Also: B232IUNVHE-N	(2) F32T8 IS UNV 50/60 HBCC
E232PI120G01	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 120V
E232PI120H	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 120V HBF
E232PI120L	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 120V LBF
E232PI277G01	B232IUNVHP-N		Electronic FL Ballast (2) F32T8 IS 277V
E232PI277H	B232IUNVHEH-A		Electronic FL Ballast (2) F32T8 IS 277V HBF
E232PI277L	B232IUNVEL-N		Electronic FL Ballast (2) F32T8 IS 277V LBF
E232PI347G01	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
E240SB120G01	C240SI120RH		Electronic CFL Ballast (2) FT40W/2G11 IS 120V
E240SB277G01	C240SI277RH		Electronic CFL Ballast (2) FT40W/2G11 IS 277V
E240SR120G01	B234SR120M-A		Electronic FL Ballast (2) F40T12ES RS 120V
E240SR277G01	B234SR277M-A		Electronic FL Ballast (2) F40T12ES RS 277V
E250SB120G01	B254PUNV-D	Different case dimensions	Electronic FL Ballast (2) FT50W/2G11 PRS 120-277V
E250SB277G01	B254PUNV-D	Different case dimensions	Electronic FL Ballast (2) FT50W/2G11 PRS 120-277V
E254PUVH	B254PUNV-D	Different case dimensions	(2) F54T5HO PS UNV 50/60
E296FOPI120G01	B259IUNVHP-A	Alt: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 120V
E296FOPI277G01	B259IUNVHP-A	Alt: B259IUNVHE-A	Electronic FL Ballast (2) F96T8 IS 277V
E296FOPI347G01	B259I347HP		Electronic FL Ballast (2) F96T8 IS 347V
E296PI120G11	No Cross		Electronic FL Ballast (2) F96T12ES IS 120V
E296PI277G11	No Cross		Electronic FL Ballast (2) F96T12ES IS 277V
E296SH120G11	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 120V
E296SH277G11	B295SRUNVHP		Electronic FL Ballast (2) F96T12HOES RS 277V
E3/428PUVNV	No Cross		
E3/454PUVH	B454PUNV-E	Different case dimensions	4/3 F54T5HO PS UNV 50/60
E332IUHV	B332IUNVHEH-A		3 LAMP HIGH EFFICIENCY HIGH LIGHT OUTPUT 120-277 INPUT
E332IUVL	B332IUNVEL-A		ELF (2) F32T8 IS UNV HIGH EFFICIENCY .77 BF
E332IUVN	B332IUNVHP-A	Also: B332IUNVHE-A	(3) F32T8 IS UNV 50/60 HBCC
E332PI120G01	B332IUNVHP-A		Electronic FL Ballast (3) F32T8 IS 120V
E332PI120L	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 120V LBF
E332PI277G01	B332IUNVHP-A		Electronic FL Ballast (3) F32T8 IS 277V
E332PI277L	B332IUNVEL-A		Electronic FL Ballast (3) F32T8 IS 277V LBF
E332PI347G01	B332I347HP		Electronic FL Ballast (3) F32T8 IS 347V
E340SR120G01	No Cross		Electronic FL Ballast (3) F40T12ES RS 120V
E340SR277G01	No Cross		Electronic FL Ballast (3) F40T12ES RS 277V
E432IUHV	No Cross		
E432IUVL	B432IUNVEL-A		ELF (4) F32T8 IS UNV HIGH EFFICIENCY .77 BF
E432IUVN	B432IUNVHP-A	Also: B432IUNVHE-A	(4) F32T8 IS UNV 50/60 HBCC
E432PI120G11	B432IUNVHP-A		Electronic FL Ballast (4) F32T8 IS 120V
E432PI120L	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 120V LBF
E432PI277G11	B432IUNVHP-A		Electronic FL Ballast (4) F32T8 IS 277V
E432PI277L	B432IUNVEL-A		Electronic FL Ballast (4) F32T8 IS 277V LBF
E432PI347G01	B432I347HP		Electronic FL Ballast (4) F32T8 IS 347V
U232PI120S	B232PUNVHE-B		Electronic FL Ballast (2) F32T8 PS 120-277V
U232PI277S	B232IUNVHP-N	ULT is universal voltage	Electronic FL Ballast (2) F32T8 IS 120-277V
U232PI347S	B232I347HP-A		Electronic FL Ballast (2) F32T8 IS 347V
U332PI120S	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V
U332PI277S	B332IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (3) F32T8 IS 120-277V
U432PI120S	B432IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V
U432PI277S	B432IUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 IS 120-277V
U432PR120S	B432PUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 PS 120-277V
U432PR277S	B432PUNVHP-A	ULT is universal voltage	Electronic FL Ballast (4) F32T8 PS 120-277V

### Magnetic Fluorescent Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
58G512	No Cross		
58G513	No Cross		
58G613	No Cross		



Competitive P/N	Universal P/N	Comments	Universal Description
58G616	No Cross		
58G649	No Cross		
58G670	No Cross		
58G671	No Cross		
58G691	No Cross		
58G800	No Cross		
58G818	No Cross		
58G830	No Cross		
58G848	No Cross		
58G862	No Cross		
58G914	No Cross		
58G925	No Cross		
59G261	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
59G262	No Cross		
59G369	No Cross	For circline lamp fixtures	
59G420	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
59G432	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
59G453	No Cross		
59G454	No Cross		
59G456	No Cross	For circline lamp fixtures	
59G458	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
59G807	No Cross	For circline lamp fixtures	
59G834	No Cross	For circline lamp fixtures	
59G958	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G1010	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G1011	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G1015	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G1020	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
6G1022	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
6G1030	No Cross		
6G1032	No Cross		
6G1035	No Cross		
6G1042	No Cross		
6G1055	No Cross	For circline lamp fixtures	
6G1070	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
6G1075	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
6G1079	No Cross		
6G1100	No Cross		
6G1851	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G1853W	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G3050	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
6G3098W	No Cross		
6G3104	No Cross		
6G3105	No Cross		
6G3107	No Cross		
6G3117	No Cross		
6G3366	No Cross		
6G3506	No Cross		
6G3508G14	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3514	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3514G14	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3517	No Cross		
6G3520	No Cross		
6G3525	No Cross		
6G3531	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3535	No Cross		
6G3539	B260I120RH	Electronic replacement -different wiring	Electronic FL Ballast (2) F96T12ES IS 120V
6G3543	No Cross		
6G3544	No Cross		
6G3548G14	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3552	No Cross		
6G3554	No Cross		
6G3557	No Cross		
6G3557G14	No Cross		
6G3558	No Cross		
6G3558G14	No Cross		
6G3560	No Cross		
6G3562G14	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3563	No Cross		
6G3563G14	No Cross		
6G3564	No Cross		
6G3583	No Cross		
6G3584	No Cross		
6G3585	No Cross		
6G3587	No Cross		
6G3588	No Cross		
6G3601	487XLHTCP		Magnetic FL Ballast (2) F96T12HOES RS 277V
6G3608	No Cross		
6G3625	No Cross		
6G3634G14	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3639G14	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3644G14	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO

Competitive P/N	Universal P/N	Comments	Universal Description
6G3655G14	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3666G14	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3672	No Cross		
6G3673	No Cross		
6G3681	No Cross		
6G3691	No Cross		
6G3700	No Cross		
6G3704	No Cross		
6G3705	No Cross		
6G3706	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
6G3708AWF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3709	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3709G14	No Cross		
6G3712	No Cross		
6G3713	No Cross		
6G3722	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3723	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3734	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3734WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3736	No Cross		
6G3737	No Cross		
6G3748	No Cross		
6G3753	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3753AWF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3756	No Cross		
6G3776	No Cross		
6G3780	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3780WF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3782WF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3784	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3784WF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3787	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3787AWF	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3788	No Cross		
6G3804	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3804WF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3808	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3809	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3809WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3814	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3814WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3819	No Cross		
6G3835	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3867	No Cross		
6G3868	No Cross		
6G3872	No Cross		
6G3887	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3889	No Cross		
6G3901	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3901WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3904	No Cross		
6G3905	No Cross		
6G3907	No Cross		
6G3908	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3909	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3911	No Cross		
6G3927	No Cross		
6G3931	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
6G3932	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3932WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3942	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3942AW	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48' T12HO
6G3948	No Cross		
6G3951	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3951WF	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16' T12HO
6G3959	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
6G3959WF	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32' T12HO
89G325	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G328	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G333	No Cross		
89G370	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
89G371	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
89G381	No Cross		
89G395	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
89G396	B260IUNVHP		Electronic FL Ballast (1) F96T12 IS 120-277
89G402	No Cross		
89G428	No Cross		
89G429	No Cross		
89G435	No Cross		
89G444	No Cross		
89G447	No Cross		
89G456	No Cross		

Competitive P/N	Universal P/N	Comments	Universal Description
89G457	No Cross		
89G458	No Cross		
89G461	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G462	No Cross		
89G480	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G489	No Cross		
89G539	B260I120RH	Electronic replacement -different wiring	Electronic FL Ballast (2) F96T12ES IS 120V
89G548	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G590	No Cross		
89G596	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G599	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G619	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
89G658	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
89G661	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
89G681	No Cross		
89G716	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G772	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G791	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
89G797	No Cross		
89G829	No Cross		
89G838	No Cross		
89G850	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G856	No Cross		
89G863	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16" T12HO
89G863G14	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16" T12HO
89G868	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
89G875	No Cross		
89G876	No Cross		
89G910	No Cross		
89G948	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G948G14	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G957	No Cross		
89G969	No Cross		
89G972	No Cross		
89G973	No Cross		
89G980	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
89G987	No Cross		
89G999	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
8G1000W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F34/40T12 RS 120V
8G1004W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1008	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1011W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1014W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1015	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1017	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1018	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1020	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1021W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1022W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1023W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1024W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1025	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1028W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G1030	No Cross		
8G1031W	No Cross		
8G1032W	No Cross		
8G1033W	No Cross		
8G1034W	No Cross		
8G1035	No Cross		
8G1037	No Cross		
8G1038	No Cross		
8G1063	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1064	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1068	No Cross		
8G1069	No Cross		
8G1071W	No Cross		
8G1072W	No Cross		
8G1074W	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1075	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1078	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1084W	No Cross		
8G1085G11	No Cross		
8G1088	No Cross		
8G1091	No Cross		
8G1100	No Cross		
8G1101	No Cross		
8G1102G11	No Cross		
8G1110	No Cross		
8G1115W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1122W	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
8G1132W	No Cross		
8G1141W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V

Competitive P/N	Universal P/N	Comments	Universal Description
8G1144W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G1148W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G1151W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G1154W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G1158	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G1185G11	No Cross		
8G1201W	No Cross		
8G1202W	No Cross		
8G1211W	No Cross		
8G1324W	No Cross		
8G1334W	No Cross		
8G1423W	No Cross		
8G1457	No Cross		
8G1490W	B260I120RH	Electronic replacement -different wiring	Electronic FL Ballast (2) F96T12ES IS 120V
8G1532	B260I277RH	Electronic Replacement	Electronic FL Ballast (2) F96T12ES IS 277V
8G1562W	No Cross		
8G1584W	No Cross		
8G1586W	B259IUNVHE-A	Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
8G1600W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1628W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1631W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1706	No Cross		
8G1710W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1711W	No Cross		
8G1762W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1764W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G1899	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G3341	B132I120RH-A	Electronic replacement	Electronic FL Ballast (1) F32T8 IS 120V
8G3342	B132I277RH-A	Electronic Replacement	Electronic FL Ballast (1) F32T8 IS 277V
8G3344	B232I277RH-A	Electronic Replacement	Electronic FL Ballast (2) F32T8 IS 277V
8G3372	No Cross		
8G3373	No Cross		
8G3374	No Cross		
8G3375	C240PUNVHP-B	Electronic replacement	Electronic Comp FL Ballast (1 or 2) FT40W/2G11RS RS 120-277V
8G3377W	C240PUNVHP-B	Electronic replacement	Electronic Comp FL Ballast (1 or 2) FT40W/2G11RS RS 120-277V
8G3378	C240PUNVHP-B	Electronic replacement	Electronic Comp FL Ballast (1 or 2) FT40W/2G11RS RS 120-277V
8G3381	C2642UNVME000K	Different dimensions	Electronic Comp FL Ballast (1) FT24W/2G11 RS 120-277V
8G3382	C2642UNVME000K	Different dimensions	Electronic Comp FL Ballast (1) FT24W/2G11 RS 120-277V
8G3383	C2642UNVME000K	Different dimensions	Electronic Comp FL Ballast (2) FT24W/2G11 RS 120-277V
8G3384	C2642UNVME000K	Different dimensions	Electronic Comp FL Ballast (2) FT24W/2G11 RS 120-277V
8G3387	C240PUNVHP-B	Electronic replacement	Electronic Comp FL Ballast (1 or 2) FT40W/2G11RS RS 120-277V
8G3388	C240PUNVHP-B	Electronic replacement	Electronic Comp FL Ballast (1 or 2) FT40W/2G11RS RS 120-277V
8G3509	No Cross		
8G3513	No Cross		
8G3560	No Cross		
8G3579W	No Cross		
8G3593	B259IUNVHE-A	Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
8G3594	B259IUNVHE-A	Alt: B259IUNVHP-A	Electronic FL Ballast (2) F96T8 IS 120-277V
8G3625	No Cross		
8G3628	No Cross		
8G3629	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G3638	No Cross		
8G3651	No Cross		
8G3672W	No Cross		
8G3688W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G3689	No Cross		
8G3691	No Cross		
8G3692	No Cross		
8G3699W	No Cross		
8G3700W	No Cross		
8G3701W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3702W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3704	No Cross		
8G3705	No Cross		
8G3706	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G3714	No Cross		
8G3718	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G3718W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G3719W	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G3724	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3732	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3736	No Cross		
8G3736W	No Cross		
8G3738	No Cross		
8G3738W	No Cross		
8G3742	No Cross		
8G3742W	No Cross		

Competitive P/N	Universal P/N	Comments	Universal Description
8G3744	No Cross		
8G3745G02	No Cross		
8G3748G02	No Cross		
8G3773	No Cross		
8G3808	No Cross		
8G3867	No Cross		
8G3867WF	No Cross		
8G3868	No Cross		
8G3868W	No Cross		
8G3869W	No Cross		
8G3870W	No Cross		
8G3883	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3885W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3887W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3897	No Cross		
8G3898	No Cross		
8G3899W	No Cross		
8G3900	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3900W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3900WF	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3903	No Cross		
8G3905W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G3907	No Cross		
8G3908W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3911	No Cross		
8G3912	No Cross		
8G3912F	No Cross		
8G3917	No Cross		
8G3922W	No Cross		
8G3927	No Cross		
8G3930	No Cross		
8G3931W	B295SRUNVHP		Electronic FL Ballast (2) F96T12HO RS 120-277V
8G3937	No Cross		
8G3971	No Cross		
8G3971W	No Cross		
8G3972W	No Cross		
8G3990	No Cross		
8G3999	B260IUNVHP		Electronic FL Ballast (2) F96T12 IS 120-277
8G4060	B232I120RH-A	Electronic replacement	Electronic FL Ballast (2) F32T8 IS 120V
8G4061	B232I277RH-A	Electronic Replacement	Electronic FL Ballast (2) F32T8 IS 277V
8G4070	B232I120RH-A	Electronic replacement; de-lamp	Electronic FL Ballast (2) F32T8 IS 120V
8G4071	B232I277RH-A	Electronic Replacement; de-lamp	Electronic FL Ballast (2) F32T8 IS 277V
8G4126W	B232I120RH-A	Electronic Replacement	Electronic FL Ballast (2) F32T8 RS 120V
8G4136	B232I277RH-A	Electronic Replacement	Electronic FL Ballast (2) F32T8 IS 277V
8G4176	B132I120RH-A	Electronic replacement	Electronic FL Ballast (1) F32T8 IS 120V
8G4177	B132I120RH-A	Electronic replacement	Electronic FL Ballast (1) F32T8 IS 120V
8G4178	B132I120RH-A	Electronic replacement	Electronic FL Ballast (1) F32T8 IS 120V
8G4186	B132I277RH-A	Electronic Replacement	Electronic FL Ballast (1) F32T8 IS 277V
8G4200W	No Cross		
8G4912G09	No Cross		
8G5001	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G5007	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G5007W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
8G6012W	B234SR120M-A	Electronic replacement	Electronic FL Ballast (2) F40T12ES RS 120V
98G456	No Cross		
M28-120	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
M-28-120	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
M28-120-1	B134SR120M-A	Electronic replacement	Electronic FL Ballast (1) F40T12ES RS 120V
M28-277	B240R277HP	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 277V
M28-277-1	No Cross		
RF-240	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
RFC-240	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
RFH-240	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
RFH-240ES	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
RHC-240	B234SR120M-A	Electronic Replacement	Electronic FL Ballast (2) F40T12ES RS 120V
V12L3-6	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16" T12HO
V12L4-12	ESB216-12	Check lamp application/wiring change	Electronic Ballast 1-2 Lamps 2'-16" T12HO
V234L16-24	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32" T12HO
V234L24-32	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32" T12HO
V234L8-16	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32" T12HO
V34L24-32	ESB432-14	Check lamp application/wiring change	Electronic Ballast 1-4 Lamps 4'-32" T12HO
V456L24-36	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48" T12HO
V456L32-48	ESB848-46	Check lamp application/wiring change	Electronic Ballast 4-6 Lamps 8'-48" T12HO

#### HID Ballasts

Competitive P/N	Universal P/N	Comments	Universal Description
15G3203	H100MLTAC3M500K		HID Ballast (1) 100W MV H38 QUAD C&C
15G3404W18F	H10048TAC3M500K		HID Ballast (1) 100W MV H36 480V-120V C&C
15G3417	H100MLTAC3M500K		HID Ballast (1) 100W MV H38 QUAD C&C
15G3419	H100MLTAC3M500K		HID Ballast (1) 100W MV H38 QUAD C&C
15G3905W	1010239RCTC000C		HID Ballast (1) 100W MV H38 120/277 F-Can
15G4079W	No Cross		
15G4202	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C

Competitive P/N	Universal P/N	Comments	Universal Description
15G4203	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C
15G4250	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C
15G4404	H17548TAC3M500K		HID Ballast (1) 175W MV H39 480V-120V C&C
15G4417	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C
15G4419	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C
15G4905W	1010245CTC000C		HID Ballast (1) 175W MV H39 120/277 F-Can
15G5203	H250MLTAC4M500K		HID Ballast (1) 250W MV H37 QUAD C&C
15G5250	H250MLTAC4M500K		HID Ballast (1) 250W MV H37 QUAD C&C
15G5404	H25048TAC4M500K		HID Ballast (1) 250W MV H37 480V-120V C&C
15G5417	H250MLTAC4M500K		HID Ballast (1) 250W MV H37 QUAD C&C
15G5419	H250MLTAC4M500K		HID Ballast (1) 250W MV H37 QUAD C&C
15G5905W	1010246CTC000C		HID Ballast (1) 250W MV H37 120V-277V F-Can
15G6199W	M400MLTAI4X000I		HID Ballast (2) 400W MH M59 QUAD INDOOR ENCASED
15G6444	H40048TAC4M500K		HID Ballast (1) 400W H33 480C C&C
15G6905W	1010247SCTC000C		HID Ballast (1) 400W MV H33 120V-277V F-Can
15G7424	H100048TAC5M500K		HID Ballast (1) 1000W MV H36 480V-120V C&C
15G7427	H1000MLTAC5M500K		HID Ballast (1) 100W MV H36 QUAD C&C
15G7429	H1000MLTAC5M500K		HID Ballast (1) 100W MV H36 QUAD C&C
15V3419W18F	H100MLTAC3M500K		HID Ballast (1) 100W MV H38 QUAD C&C
15V4494W18F	H17548TAC3M500K		HID Ballast (1) 175W MV H39 480V-120V C&C
15V4499W18F	H175MLTAC3M500K		HID Ballast (1) 175 MV H39 QUAD C&C
15V5494W18F	H25048TAC4M500K		HID Ballast (1) 250W MV H37 480V-120V C&C
15V5499W18F	H250MLTAC4M500K		HID Ballast (1) 250W MV H37 QUAD C&C
15V6199WF	M400MLTAI4X000I		HID Ballast (2) 400W MH M59 QUAD INDOOR ENCASED
15V6494W18F	H40048TAC4M500K		HID Ballast (1) 400W H33 480C C&C
15V7074WF	M100048TAI5M000I		HID Ballast (1) 1000W MH M47 480V INDOOR ENCASED
15V7079WF	M1000MLTAI5M000I		HID Ballast (1) 1000W MH M47 Quad INDOOR ENCASED
15V7494W18F	H100048TAC5M500K		HID Ballast (1) 1000W MV H36 480V-120V C&C
15V7499W18F	H1000MLTAC5M500K		HID Ballast (1) 100W MV H36 QUAD C&C
16G1009W	No Cross		
16G1290	M175MLTAC3M500K		HID Ballast (1) 175W MH M57 QUAD C&C
16G1294	M17548TAC3M500K		HID Ballast (1) 175W MH M57 480V-120V C&C
16G1297	M175MLTAC3M500K		HID Ballast (1) 175W MH M57 QUAD C&C
16G1299	M175MLTAC3M500K		HID Ballast (1) 175W MH M57 QUAD C&C
16G2304W18	M25048TAC4M500K		HID Ballast (1) 250W MH M58 480V-120V C&C
16G2309W18	M250MLTAC3M500K		HID Ballast (1) 250W MH M58 QUAD C&C
16G2310	M250MLTAC4M500K		HID Ballast (1) 250W MH M58 QUAD C&C
16G2314	M25048TAC4M500K		HID Ballast (1) 250W MH M58 480V-120V C&C
16G2317	M250MLTAC4M500K		HID Ballast (1) 250W MH M58 QUAD C&C
16G2319	M250MLTAC4M500K		HID Ballast (1) 250W MH M58 QUAD C&C
16G3004W	No Cross		
16G3009W	No Cross		
16G3300	M400MLTAC4M500K		HID Ballast (1) 400W MH M59 QUAD C&C
16G3304	M40048TAC4M500K		HID Ballast (1) 400W MH M59 480V-120V C&C
16G3307	M400MLTAC4M500K		HID Ballast (1) 400W MH M59 QUAD C&C
16G3309	M400MLTAC4M500K		HID Ballast (1) 400W MH M59 QUAD C&C
16G3314W18	M40048TAC4M500K		HID Ballast (1) 400W MH M59 480V-120V C&C
16G4004W	No Cross		
16G4009W	M400MLTAI4X000I		HID Ballast (2) 400W MH M59 QUAD INDOOR ENCASED
16G5004WF	M100048TAI5M000I		HID Ballast (1) 1000W MH M47 480V INDOOR ENCASED
16G5009WF	M1000MLTAI5M000I		HID Ballast (1) 1000W MH M47 Quad INDOOR ENCASED
16G5294	M100048TAC5M500K		HID Ballast (1) 1000W MH M47 480V-120V C&C
16G5297	M1000MLTAC5M500K		HID Ballast (1) 1000W MH M48 QUAD C&C
16G5299	M1000MLTAC5M500K		HID Ballast (1) 1000W MH M48 QUAD C&C
16G6004W	No Cross		
16G6284	M150048TAC5M500K		HID Ballast (1) 1500W MH 480V-120V C&C
16G6289	M1500MLTAC5M500K		HID Ballast (1) 1500W MH M48 QUAD C&C
16G7220	M100MLTLC30500K		HID Ballast (1) 100W MH M90 QUAD C&C
16G7227	M100MLTLC30500K		HID Ballast (1) 100W MH M90 QUAD C&C
16G7229W18	M100MLTLC30500K		HID Ballast (1) 100W MH M90 QUAD C&C
16G8220	M70MLTLC3M500K		HID Ballast (1) 70W MH M98 QUAD C&C
16G8227	M70MLTLC3M500K		HID Ballast (1) 70W MH M98 QUAD C&C
16G8229W18	M70MLTLC3M500K		HID Ballast (1) 70W MH M98 QUAD C&C
16G8430	M50MLTLC3M500K		HID Ballast (1) 50W MH M110 QUAD C&C
16G8437	M50MLTLC3M500K		HID Ballast (1) 50W MH M110 QUAD C&C
16G8439W18	M50MLTLC3M500K		HID Ballast (1) 50W MH M110 QUAD C&C
16G8505WF	11210239CTC000C		HID Ballast (1) 100W MH M90 120V-277V F-Can
16G8605W	1110246CTC000I		HID Ballast (1) 250W MH M58 120V-277V F-Can
16G8705W	1110247SCTC000I		HID Ballast (1) 400W MH M59 120V-277V F-Can
16G9505W	1110245SCTC000I		HID Ballast (1) 175W MH M57 120V-277V F-Can
16V1294W18F	M17548TAC3M500K		HID Ballast (1) 175W MH M57 480V-120V C&C
16V1299W18F	M175MLTAC3M500K		HID Ballast (1) 175W MH M57 QUAD C&C
16V2314W18F	M25048TAC4M500K		HID Ballast (1) 250W MH M58 480V-120V C&C
16V2319W18F	M250MLTAC4M500K		HID Ballast (1) 250W MH M58 QUAD C&C
16V3004WF	No Cross		
16V3009WF	No Cross		
16V3308W18F	M400TRIAC4M502K		HID Ballast (1) 400W MH M59 TRIVOLT C&C
16V3309W18F	M400MLTAC4M500K		HID Ballast (1) 400W MH M59 QUAD C&C
16V3314W18F	M40048TAC4M500K		HID Ballast (1) 400W MH M59 480V-120V C&C
16V4004WF	No Cross		
16V4009WF	M400MLTAI4X000I		HID Ballast (2) 400W MH M59 QUAD INDOOR ENCASED
16V5004WF	M100048TAI5M000I		HID Ballast (1) 1000W MH M47 480V INDOOR ENCASED

Competitive P/N	Universal P/N	Comments	Universal Description
16V5009WF	M1000MLTAI5M000I		HID Ballast (1) 1000W MH M47 Quad INDOOR ENCASED
16V5294W18F	M100048TAC5M500K		HID Ballast (1) 1000W MH M47 480V-120V C&C
16V5299W18F	M1000MLTAC5M500K		HID Ballast (1) 1000W MH M48 QUAD C&C
16V6284W18F	M150048TAC5M500K		HID Ballast (1) 1500W MH 480V-120V C&C
16V6289W18F	M1500MLTAC5M500K		HID Ballast (1) 1500W MH M48 QUAD C&C
16V6294W18F	M150048TAC5M500K		HID Ballast (1) 1500W MH 480V-120V C&C
16V6299W18F	M1500MLTAC5M500K		HID Ballast (1) 1500W MH M48 QUAD C&C
16V7229W18F	M100MLTLC30500K		HID Ballast (1) 100W MH M90 QUAD C&C
16V8229W18F	M70MLTLC3M500K		HID Ballast (1) 70W MH M98 QUAD C&C
16V8439W18F	M50MLTLC3M500K		HID Ballast (1) 50W MH M110 QUAD C&C
17G1114	S15048TLC3M500K		HID Ballast (1) 150W HPS S55 480V-120V C&C
17G1117	S150MLTLC30500K		HID Ballast (1) 150W HPS S55 QUAD C&C
17G1119	S150MLTLC30500K		HID Ballast (1) 150W HPS S55 QUAD C&C
17G1305W	12210241CTC000C		HID Ballast (1) 150W HPS S55 120V-277V F-Can
17G1994W18	S20048TAC4M500K		HID Ballast (1) 200W HPS S66 480V-120V C&C
17G1999W18	S200MLTAC4M500K		HID Ballast (1) 200W HPS S66 QUAD C&C
17G2009W	No Cross		
17G2029W	No Cross		
17G2234	S25048TAC4M500K		HID Ballast (1) 250W HPS S50 480V-120V C&C
17G2234W18	S25048TAC4M500K		HID Ballast (1) 250W HPS S50 480V-120V C&C
17G2237	S250MLTAC4M500K		HID Ballast (1) 250W HPS S50 QUAD C&C
17G2239	S250MLTAC4M500K		HID Ballast (1) 250W HPS S50 QUAD C&C
17G3004W	No Cross		
17G3009W	No Cross		
17G3024W	No Cross		
17G3029W	No Cross		
17G3224	S40048TAC4M500K		HID Ballast (1) 400W HPS S51 480V-120V C&C
17G3227	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17G3229	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17G3234	S40048TAC4M500K		HID Ballast (1) 400W HPS S51 480V-120V C&C
17G3237	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17G3239	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17G5004W	No Cross		
17G5009W	No Cross		
17G5024W	No Cross		
17G5029W	No Cross		
17G5204	S100048TAC5M500K		HID Ballast (1) 1000W HPS S52 480V-120V C&C
17G5217	S1000MLTAC5M500K		HID Ballast (1) 1000W HPS S52 QUAD C&C
17G5219	S1000MLTAC5M500K		HID Ballast (1) 1000W HPS S52 QUAD C&C
17G6114	S10048TLC3M500K		HID Ballast (1) 100W HPS S52 480V-120V C&C
17G6117	S100MLTLC3M500K		HID Ballast (1) 100W HPS S54 QUAD C&C
17G6119	S100MLTLC3M500K		HID Ballast (1) 100W HPS S54 QUAD C&C
17G6305W	12210239CTC000C		HID Ballast (1) 100W HPS S54 120V-277V F-Can
17G7114	S7048TLC3M500K		HID Ballast (1) 70W HPS S62 480V-120V C&C
17G7117	S70MLTLC3M500K		HID Ballast (1) 70W HPS S62 QUAD C&C
17G7119	S70MLTLC3M500K		HID Ballast (1) 70W HPS S62 QUAD C&C
17G7130TP	12210237CTC000C		HID Ballast (1) 70W HPS S62 120V-277V F-Can
17G7130W	12210237CTC000C		HID Ballast (1) 70W HPS S62 120V-277V F-Can
17G7305W	12210237CTC000C		HID Ballast (1) 70W HPS S62 120V-277V F-Can
17G8110TP	12210236CTC000C		HID Ballast (1) 50W HPS S68 120V-277V F-Can
17G8110W	12210236CTC000C		HID Ballast (1) 50W HPS S68 120V-277V F-Can
17V1114W18F	S15048TLC3M500K		HID Ballast (1) 150W HPS S55 480V-120V C&C
17V1119W18F	S150MLTLC30500K		HID Ballast (1) 150W HPS S55 QUAD C&C
17V1130G08F	S150120RC500K		HID Ballast (1) 150W HPS S55 120V REACTOR
17V2009WF	No Cross		
17V2234W18F	S25048TAC4M500K		HID Ballast (1) 250W HPS S50 480V-120V C&C
17V2239W18F	S250MLTAC4M500K		HID Ballast (1) 250W HPS S50 QUAD C&C
17V3004WF	No Cross		
17V3009WF	No Cross		
17V3224W18F	S40048TAC4M500K		HID Ballast (1) 400W HPS S51 480V-120V C&C
17V3229W18F	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17V3234W18F	S40048TAC4M500K		HID Ballast (1) 400W HPS S51 480V-120V C&C
17V3239W18F	S400MLTAC4M500K		HID Ballast (1) 400W HPS S51 QUAD C&C
17V5004WF	No Cross		
17V5009WF	No Cross		
17V5204W18F	S100048TAC5M500K		HID Ballast (1) 1000W HPS S52 480V-120V C&C
17V5219W18F	S1000MLTAC5M500K		HID Ballast (1) 1000W HPS S52 QUAD C&C
17V5294W18F	S100048TAC5M500K		HID Ballast (1) 1000W HPS S52 480V-120V C&C
17V5299W18F	S1000MLTAC5M500K		HID Ballast (1) 1000W HPS S52 QUAD C&C
17V6114W18F	S10048TLC3M500K		HID Ballast (1) 100W HPS S52 480V-120V C&C
17V6119W18F	S100MLTLC3M500K		HID Ballast (1) 100W HPS S54 QUAD C&C
17V6120G08F	S100120RC500K		HID Ballast (1) 100W HPS S54 120V REACTOR
17V7114W18F	S7048TLC3M500K		HID Ballast (1) 70W HPS S62 480V-120V C&C
17V7119G18F	S70MLTLC3M500K		HID Ballast (1) 70W HPS S62 QUAD C&C
17V7120G08F	S70MLTLC3M500K		HID Ballast (1) 70W HPS S62 QUAD C&C
17V7510G08F	S35120RC500K	ULT ignitor is external, for low power factor, use 000K suffix, for integral ignitor use 1233-251W	HID Ballast (1) 35W HPS S76 120V REACTOR
17V8100G08F	S50120RC500K	ULT ignitor is external, for low power factor, use 000K suffix, for integral ignitor use 1233-35U	HID Ballast (1) 50W HPS S68 120V REACTOR

## Venture to Universal Lighting Technologies

### HID Ballasts

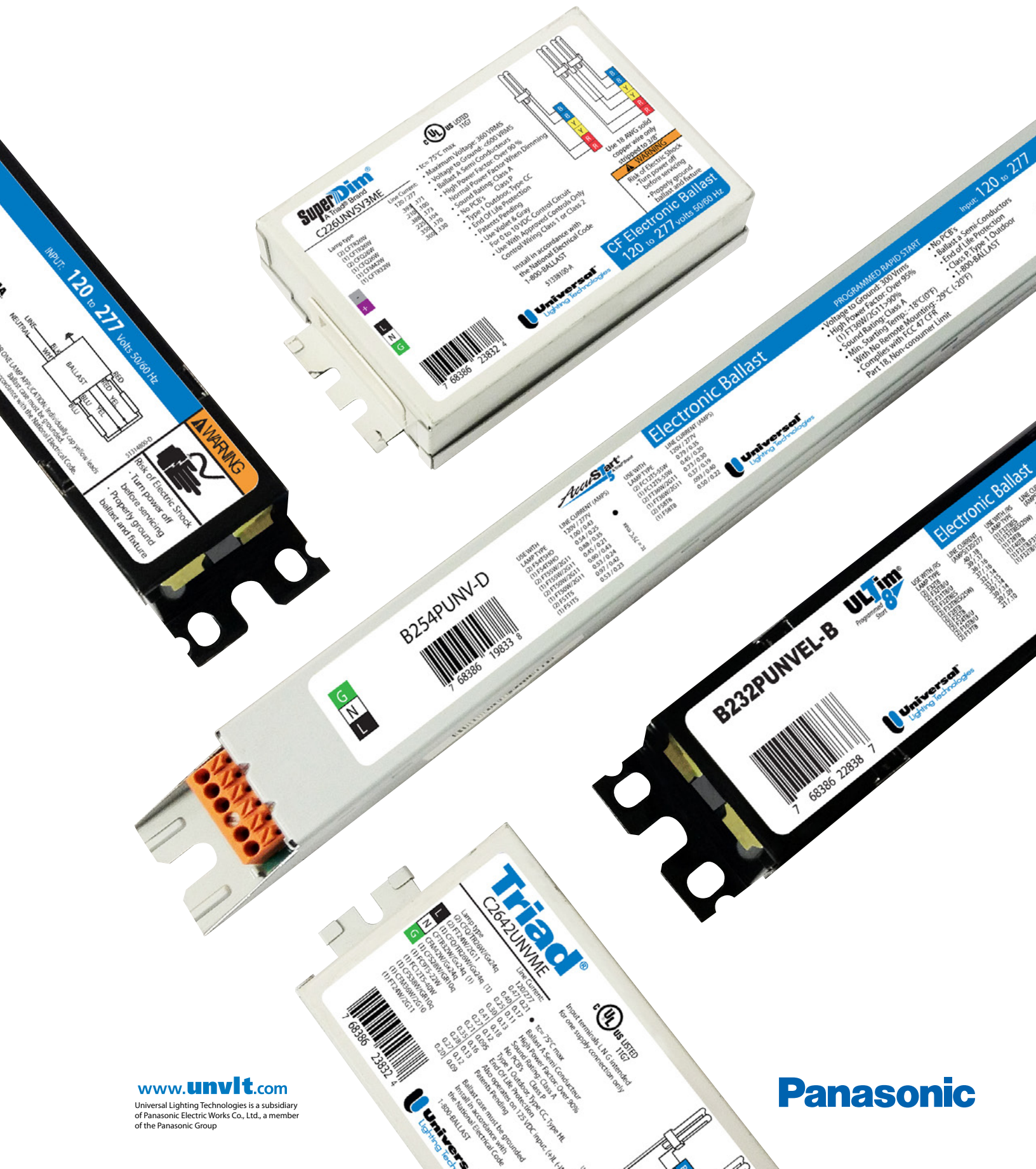
Competitive P/N	Universal P/N	Comments	Universal Description
<b>Probe Start Metal Halide</b>			
V905R6510	M1000230AC5M		(1) 1000W MH M48 230V 50HZ C&C
V90AA6910	No Cross		
V90B6112	M175120AC3M		(1) 175W MH M57 120V 60HZ
V90C6910	No Cross		
V90D6111	No Cross		
V90D6111	M175MLTAC3M		(1) 175W MH M57 QUAD 60Hz C&C
V90D6112	M175MLTAC3M		(1) 175W MH M57 QUAD 60Hz C&C
V90D6211	M250MLTAC3M		(1) 250W MH M58 QUAD 60Hz C&C
V90D6212	M250MLTAC4M		(1) 250W MH M58 MULTI 60HZ
V90D6215	M250MLTAC4M		(1) 250W MH M58 MULTI 60HZ
V90D6412	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
V90D6413	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
V90D6414	M400MLTAC4M		(1) 400W M59 MULTI 60HZ
V90D6516	No Cross		
V90D6517	M1000MLTAC5M		(1) 1000W M47 MULTI 60HZ
V90D6612	M1500MLTAC5M		(1) 1500W MH M48 QUAD 60Hz C&C
V90E6150	No Cross		
V90E6250	No Cross		
V90E6450	No Cross		
V90E6550	No Cross		
V90J6111	No Cross		
V90J6111	M175TRIAC30		(1) 175W MH M57 TRIVOLT 60Hz
V90J6112	M175TRIAC30		(1) 175W MH M57 TRIVOLT 60Hz
V90J6211	M250TRIAC3M		(1) 250W MH M58 TRIVOLT 60HZ
V90J6212	M250TRIAC4M		(1) 250W MH M58 TRI 60HZ
V90J6215	M250TRIAC4M		(1) 250W MH M58 TRI 60HZ
V90J6413	M400TRIAC4M		(1) 400W M59 TRIVOLT 60HZ
V90J6514	M1000TRIAC5M		(1) 1000W MH M47 TRI 60HZ
V90P6150T	No Cross		
V90P6250T	No Cross		
V90P6450T	No Cross		
V90P6550T	No Cross		
V90Y6111	No Cross		
V90Y6111T	M17548TAC3M		(1) 175W MH M57 480-120V 60HZ
V90Y6211	M25048TAC3M		(1) 250W MH M58 480V 60HZ w/ DRYCAP
V90Y6212T	M25048TAC4M		(1) 250W M58 480-120V 60HZ
V90Y6413T	M40048TAC4M		(1) 400W M59 480-120V 60HZ
V90Y6514T	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
V90Y6517T	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
V90Y6612T	M150048TAC5M		(1) 1500W MH M48 48T 60Hz C&C
V90Z6150	No Cross		
V90Z6250	No Cross		
V90Z6450T	No Cross		
V90Z6550	No Cross		
<b>Pulse Start Metal Halide</b>			
V90D5530	No Cross		
V90D5731	M50MLTLC3M		(1) 50W M110 MULTI 60HZ
V90D5832	M70MLTLC3M		(1) 70W HPS S62 MULTI 60HZ C&C
V90D5833	M70MLTLC3M		(1) 70W HPS S62 MULTI 60HZ C&C
V90D5932	M100MLTLC30		(1) 100W MH M90 MULTI 60HZ C&C
V90D7110	M150MLTAC3M		(1) 150W MH M102/M142 MULTI 60HZ C&C
V90D7130	M150MLTLC3M		(1) 150W MH M102 MULTI 60HZ C&C
V90D7131	M150MLTLC3M		(1) 150W MH M102 MULTI 60HZ C&C
V90D7210	P175MLTAC3M		(1) 175W PS M137 QUAD 60Hz C&C
V90D7211	P175MLTAC3L		(1) 175W PS M132 QUAD 60Hz Low Loss C&C
V90D7310	P200ML5AC3M		(1) 200W PSMH M136 5-Tap 60HZ C&C
V90D7311	No Cross		
V90D7312	P200MLTAC3L		(1) 200W PSMH M136 CWA QUAD 60Hz C&C
V90D7330	No Cross		
V90D7411	P320MLTAC40	ULT: EISA	(1) 320 PSMH M132 MULTI 60HZ C&C
V90D7413	P320MLTAC40		(1) 320 PSMH M132 MULTI 60HZ C&C
V90D7430	No Cross		
V90D7512	P350MLTAC40		(1) 350W PS M131 QUAD 60Hz C&C
V90D7513	P350MLTAC40		(1) 350W PS M131 QUAD 60Hz C&C
V90D7530	No Cross		
V90D7613	P400MLTAC4L		(1) 400W PS M135 QUAD 60Hz C&C
V90D7810	P1000MLTAC5M		(1) 1000W PSMH M141 MULTI 60HZ
V90D7811	P1000MLTAC5M		(1) 1000W PSMH M141 MULTI 60HZ
V90D7910	P750MLTAC5M		(1) 750W PS MULTI 60HZ C&C
V90D8411	P250MLTAC4L		(1) 250W PS M138 QUAD 60Hz C&C
V90D8412	P250MLTAC4L		(1) 250W PS M138 QUAD 60Hz C&C
V90D8412T	P25048TAC4L		(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
V90D8512	P450MLTAC4L		(1) 450 PS M144 QUAD 60Hz C&C
V90D8530	No Cross		
V90D8612	P875MLTAC5M		(1) 875W PSMH MULTI 60HZ C&C
V90D8812	No Cross		
V90D9610	P875MLTAC5M		(1) 775W PSMH M181 CWA QUAD 60Hz C&C



Competitive P/N	Universal P/N	Comments	Universal Description
V90H5731	No Cross		
V90H5832	No Cross		
V90H5833	No Cross		
V90H5932	No Cross		
V90H7130	No Cross		
V90J5530	No Cross		
V90J5731	M50TRILC3M		(1) 50W M110 TRIVOLT 60HZ
V90J5832	M70TRILC3M		(1) 70W M98 TRIVOLT 60HZ
V90J5932	M100TRILC3M		(1) 100W MH M90 TRI 60HZ C&C
V90J7110	No Cross		
V90J7130	M150TRILC3M		(1) 150W MH M102 TRI 60HZ
V90J7210	P175TRIAC3M		(1) 175W PS M137 TRI 60Hz C&C
V90J7310	P200TRIAC4M		(1) 200W PSMH M136 TRI 60Hz C&C
V90J7330	No Cross		
V90J7411	P320TRIAC4M		(1) 320W PS M132 TRI 60Hz C&C
V90J7413	P320TRIAC4M		(1) 320W PS M132 TRI 60Hz C&C
V90J7430	No Cross		
V90J7512	P350TRIAC4M	ULT: No EISA stamp on Tri tap ballasts	(1) 350W PS M131 TRI 60Hz C&C
V90J7530	No Cross		
V90J7612	P400TRIAC4M	ULT: No EISA stamp on Tri tap ballasts	(1) 400W PS M135 TRI 60Hz C&C
V90J7810	M1000TRIAC5M		(1) 1000W MH M47 TRI 60HZ
V90J7811	No Cross		
V90J7910	P750TRIAC5M		(1) 750W PSMH M149 TRIVOLT 60HZ C&C
V90J8410	P250TRIAC4M		(1) 250W M138 TRIVOLT 60HZ
V90J8511	No Cross		
V90J8530	No Cross		
V90J8612	No Cross		
V90J8811	No Cross		
V90U5521	No Cross		
V90U5920	113314R		(1) 100W MH M90 277 60Hz C&C
V90U7120	No Cross		
V90U7121	No Cross		
V90U7221	P175277RCEM		(1) 175W PS/MH M137 277V 60Hz C&C
V90U7321	P200277RCEM		(1) 200W PS M136 277V 60Hz
V90U7421	P320277RCEM		(1) 320 PSMH M132 277 60Hz REACTOR
V90U7521	P350277RCEM		(1) 350W PS/MH M131 277V 60Hz C&C
V90U7621	No Cross		(1) 400W PS/MH 277V 60Hz C&C
V90U8421	P250277RCEM		(1) 250W PS M138 277 60Hz
V90U8521	No Cross		
V90U8820	No Cross		
V90V6810	No Cross		
V90Y5510T	No Cross		
V90Y5530T	No Cross		
V90Y6810	No Cross		
V90Y7110T	No Cross		
V90Y7210T	P175ML5AC3M		(1) 175W PS M137 5-Tap 60Hz C&C
V90Y7211T	P17548TAC3L		(1) 175W PS M137 480/120T 60Hz C&C
V90Y7310T	No Cross		
V90Y7311T	No Cross		
V90Y7312T	P20048TAC3L		(1) 200W PSMH M136 CWA 480 60Hz C&C
V90Y7330T	No Cross		
V90Y7412T	P32048TAC4L		(1) 320W PS M154 480-120V 60Hz LOW LOSS C&C
V90Y7430T	No Cross		
V90Y7513T	P35048TAC40		(1) 350W PS M131 480-120V 60Hz LOW LOSS C&C
V90Y7530T	No Cross		
V90Y7613T	P40048TAC4L		(1) 400W PS M135 48T 60Hz C&C
V90Y7810T	M100048TAC5M		(1) 1000W PSMH M47 48T 60Hz C&C
V90Y7811T	M100048TAC5M		(1) 1000W MH M47 48T 60Hz C&C
V90Y7910T	P75048TAC5M		(1) 750W PS 480-120V 60Hz C&C
V90Y8411T	P25048TAC4L		(1) 250W PSMH M153 48T 60Hz LOW LOSS C&C
V90Y8512T	P45048TAC4L		(1) 400W PS M135 48T 60Hz C&C
V90Y8530T	No Cross		
V90Y8612T	P875ML5AC5M	ULT is 5-Tap	(1) 875W PSMH M166 CWA 5-Tap 60Hz C&C
V90Y8620	No Cross		
V90Y8811T	No Cross		
V90Y9610T	No Cross		
<b>Pulse Start Metal Halide</b>			
V90B1020	1233251W		(1) 35W HPS S75 120V 60Hz C&C
V90E1030	No Cross		
V90V1030	No Cross		
V90B1120	123335W		(1) 50W HPS S65 120V 60Hz C&C
V90E1131	S50MLTLC3M	ULT: 120/208/240/277 VEN: 120/240	(1) 50W HPS S68 MULTI 60Hz C&C
V90V1131	No Cross		
V90H1132	S50MLTLC3M	ULT: 120/208/240/277 VEN: 120/277	(1) 50W HPS S68 MULTI 60Hz C&C
V90E1151	No Cross		
V90B1222	1233142W		(1) 70W HPS S62 120 60Hz C&C
V90J1232	S70TRILC3M		(1) 70W HPS S62 TRI 60Hz C&C
V90D1233	S70MLTLC3M		(1) 100W HPS S54 QUAD 60Hz C&C
V90E1250	No Cross		
V90E1252	No Cross		
V90P1252	No Cross		
V90Z1252	No Cross		

Competitive P/N	Universal P/N	Comments	Universal Description
V90B1322	123310W		(1) 100W HPS S54 120 60Hz C&C
V90J1332	S100TRILC3M		(1) 100W HPS S54 TRI 60HZ C&C
V90D1333	S100MLTLC3M		(1) 100W HPS S45 TRI 60HZ C&C
V90E1350	No Cross		
V90Z1352	No Cross		
V90C1353	No Cross		
V90B1422	1233154W		(1) 150W HPS S55 120 60Hz C&C
V90J1434	S150TRILC3M		(1) 150W HPS S55 MULTI 60HZ C&C
V90D1435	S150MLTLC30		(1) 150W HPS S55 MULTI 60HZ C&C
V90C1454	No Cross		
V90V1454T	No Cross		
V90Y1454	No Cross		
V90Z1454T	No Cross		
V90E1650	No Cross		
V90V1650	No Cross		
V90D1711	S250MLTAC4M		(1) 250W HPS S50 MULTI 60HZ C&C
V90J1711	S250TRIAC4M		(1) 250W HPS S50 TRI 60Hz C&C
V90Y1711T	S25048TAC4M		(1) 250W HPS S50 480-120 60Hz C&C
V90E1750	No Cross		
V90AS1750	No Cross		
V90J1911	S400TRIAC4M		(1) 400W HPS S51 TRI 60Hz C&C
V90D1912	S400MLTAC4M		(1) 400 HPS S51 QUAD 60HZ C&C
V90Y1912T	S40048TAC4M		(1) 400W HPS S51 480 60Hz C&C
V90AS1950	No Cross		
V90E1950	No Cross		
V90P1950T	No Cross		
V90Y1950	No Cross		
V90C2050	S430MLTAC4M	ULT: 120/208/240/277 VEN: 120/208/240	(1) 430W HPS SONAGRO QUAD 60HZ C&C
V90D2111	S600MLTAC5M		(1) 600W HPS S106 QUAD 60Hz C&C
V90D2310	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
V90J2310	S1000TRIAC5M		(1) 1000W HPS S52 TRI 60Hz C&C
V90D2311	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
V90Y2311T	S100048TAC5M		(1) 1000W HPS S52 480 60Hz C&C
V90D2315	S1000MLTAC5M		(1) 1000W HPS S52 MULTI 60HZ
V90E2353	No Cross		
V90Y2353	No Cross		
V90Z2353	No Cross		

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