



LED T8 DIRECT FIT BALLAST COMPATIBILITY

10W LED T8 Direct Fit (LED10WT8F/36/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|--------------|-------------------|--------------|------------|------|-------|---------------|----------|-----|--------|-----|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| Motorola | M2-IN-T8-GP-D-277 | IS | 2 | / | / | Parallel | NA | ✓ | NA | ✓ |
| Motorola | M3-IN-T8-GP-A-277 | IS | 3 | / | / | Parallel | NA | ✓ | NA | ✓ |

✓ = Compatible ✗ = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable

12W LED T8 Direct Fit (LED12WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|--------------------|--------------------------|--------------|------------|------|-------|---------------|----------|-----|--------|-----|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| ACT | ACT 2P32ISUNVE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ANTRON ELECTRONICS | A32T8MICLO | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ARCATA | ACT 3P32ISUNVLE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Cooper Lighting | CL-432ISUNV-R1-B | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL232-120/277HF(1688B) | IS | 2 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL232DIM/120/277HF | DPS | 2 | L | ? | Series | ✗ | ✗ | ✗ | ✗ |
| DAMAR | EL232HL-120/277HF(1688D) | IS | 2 | H | | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL332-120/277HF(3654C) | IS | 3 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL332HL-120/277HF(3654H) | IS | 3 | H | | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL432-120/277HF(3093B) | IS | 4 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL432HL-120/277HF(3093C) | IS | 4 | H | | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-2x32T8-UNV-IS-H | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-2X32T8-UNV-IS | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-2X32T8-UNV-IS-L | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-2X32T8-UNV-PS | PS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-3X32T8-UNV-IS | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-IS-H | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-IS-L | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-PS | PS | 3 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-3X32T8-UNV-PS-H | PS | 3 | H | 1.18 | Series | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-4X32T8-UNV-IS | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-4X32T8-UNV-IS-L | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHIPE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHIPHE | IS | 2 | H | 1.19 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHIPL | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVRPHT3-AB | DPS | 2 | H | 1.20 | Series | ✗ | ✗ | ✗ | ✗ |
| ESPEN | VE2P32MVHIPE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE132MAX-G-N | IS | 1 | N | 0.88 | n.a | NA | NA | ✗ | ✗ |
| General Electric | GE132MAX-H/ULTRA | IS | 1 | H | 1.18 | n.a | NA | NA | ✓ | ✓ |
| General Electric | GE132MAX-L/ULTRA | IS | 1 | L | 0.78 | n.a | NA | NA | ✗ | ✗ |
| General Electric | GE132MAXP-N/ULTRA | IS | 1 | N | 0.88 | n.a | NA | NA | ✓ | ✓ |
| General Electric | GE132MVPSN-V03 | DPS | 1 | N | 0.88 | n.a | NA | NA | ✗ | ✗ |
| General Electric | GE232MAX347-N | IS | 2 | H | 1.02 | Parallel | NA | ✗ | NA | ✗ |
| General Electric | GE232MAX-G-L | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAX-G-N | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-232-MAX-H/ULTRA | IS | 2 | H | 1.15 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE-232-MAX-H-42T | IS | 2 | H | / | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE232MAX-L/ULTRA | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAX-N/ULTRA | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✗ | ✗ |
| General Electric | GE232MAXP-N/ULTRA | IS | 2 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAXP90-V60 | IS | 2 | H | 1.18 | Parallel | ✓ | P,T | ✓ | P,T |
| General Electric | GE-232-MV-N | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MV-N-DIY | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MVPS-L-S30 | DPS | 2 | N | 0.96 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE232-MVPS-N | PS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-232-MV-PS-N | PS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-G-N | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-H-42T | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-H-84TS | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-L/ULTRA | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-N/ULTRA | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |

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| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------------|-------------------------|--------------|------------|------|-------|---------------|----------|--------|--------|--------|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| General Electric | GE332MAXP90-V60 | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAXP-H/ULTRA | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAXP-L/ULTRA | IS | 3 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MV-N | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-332-MVPS-N | PS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MVPSN-V03 | DPS | 3 | N | 0.98 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432-120-RES | IS | 4 | N | 0.83 | Parallel | ✓ | NA | ✓ | NA |
| General Electric | GE432MAX347-N | IS | 4 | N | 0.94 | Parallel | NA | (347V) | NA | (347V) |
| General Electric | GE432MAX90-S60 | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-G-H | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-G-N | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-H/ULTRA | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-H-42T | IS | 4 | H | / | Parallel | ✓ | T | ✓ | T |
| General Electric | GE432MAX-L/ULTRA | IS | 4 | L | 0.78 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432MAX-N/ULTRA | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAXP90-S60 | IS | 4 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432MV-N-42T | IS | 4 | N | 0.93 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432-MVPS-N | PS | 4 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432MVPS-N-V03 | PS | 4 | N | 0.90 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Halco | EP232IS/H/MV/HE | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP232IS/L/MV/HE | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP232IS/MV/HE | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP332IS/L/MV/HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP332IS/MV/HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP432IS/120/MC | IS | 4 | n | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP432IS/L/MV/HE | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP432IS/MV/HE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HATCH | HL232BIS/UV/HE/W | IS | 2 | N | 0.9 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HATCH | HL432BIS/UV/HE/W | IS | 4 | N | 0.9 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | E2/32IS-120MC | IS | 2 | N | 0.85 | Parallel | P,T | NA | ✓ | NA |
| HOWARD INDUSTRIES | E2/32IS-277 | IS | 2 | | | Parallel | NA | ✗ | NA | ✗ |
| HOWARD INDUSTRIES | EP2/32IS/MV/MC/HE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP2/32PRS/MV/MC/HE | PRS | 2 | N | 0.86 | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EP3/32IS/208-277 | IS | 3 | | | Parallel | NA | ✗ | NA | ✗ |
| HOWARD INDUSTRIES | EP3/32IS/MV/MC/HE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP3/32IS/MV/SC/HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP4/32IS/MV/MC/HE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP4/32PPRS/MV/SC/HE | PRS | 4 | N | ? | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EPH2/32IS/MV/MC/HE | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPH3/32IS/MV/MC/HE | IS | 3 | N | 0.91 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPH4/32IS/MV/SC/HE | IS | 4 | H | 1.16 | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EPL2/32IS/MV/MC/HE | IS | 2 | L | 0.78 | Parallel | ✓ | P,T | ✓ | ✓ |
| HOWARD INDUSTRIES | EPL3/32IS/MV/SC/HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPL4/32IS/MV/MC/HE | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-132-1-TP-FC | RS | 1 | N | ? | NA | NA | NA | ✗ | NA |
| KEYSTONE | KTEB-232LBF-1-TP-PIC-EV | IS | 2 | N | 0.88 | Parallel | ✗ | NA | ✗ | NA |
| KEYSTONE | KTEB-232-UV-IS-H-P | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-232-UV-IS-N-P | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-332-UV-IS-H-P | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-332-UV-IS-N-P | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-432RIS-1-TP-SL | IS | 4 | N | 0.80 | Parallel | ✓ | NA | ✓ | NA |
| KEYSTONE | KTEB-432-UV-IS-H-P | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-432-UV-IS-N-P | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| LIGHTING PRODUCTS LIMITED | EB-332EBF-UV-TP-HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | MLEU322HEL/SC | IS | 2 | N | 0.83 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | MLEU323H/SC | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| MAXLITE | MLEU324HE/SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU322HEL/SC | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU323L/SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU324HE/SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |

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LED T8 DIRECT FIT BALLAST COMPATIBILITY

12W LED T8 Direct Fit (LED12WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------|--------------------------|--------------|------------|------|-------|---------------|----------|--------|--------|--------|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| MOTOROLA | M2-IN-T8-GP-D-277 | IS | 2 | / | / | Parallel | NA | ✓ | NA | ✓ |
| MOTOROLA | M3-IN-T8-GP-A-277 | IS | 3 | / | / | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QHE 1X32T8/UNV DIM-TC | DPS | 1 | N | 0.88 | NA | NA | NA | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISH-SC | IS | 1 | L | 0.77 | NA | NA | NA | ✓ | P,T |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISL-SC | IS | 1 | L | 0.78 | n.a | NA | NA | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISN-SC | IS | 1 | N | 0.88 | n.a | NA | NA | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/347 ISN-SC | IS | 2 | H | / | Parallel | NA | (347V) | NA | (347V) |
| OSRAM SYLVANIA | QHE 2x32T8/347 PSN-SC | PRS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV DIM-TC | PRS | 2 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH HT-SC | IS | 2 | H | | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH-SC | IS | 2 | H | 1.20 | Parallel | P,T | P,T | ✗ | P,T |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISL-SC | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISN-SC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV PSH-HT | PRS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV PSN-MC | PRS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH HT-SC | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-SC | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-SC | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISL-SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISN-SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV PSH-HT-SC | DPS | 3 | H | 1.15 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV PSN-SC | PRS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/347 ISN-SC | IS | 4 | H | / | Parallel | NA | (347V) | NA | (347V) |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISH HT-1 | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISH-SC | IS | 4 | H | | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISL-SC | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISN-SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV PSN-SC | PRS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV PSX-SC | PRS | 4 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHES 2X32T8/UNV PSL-SC | PRS | 2 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QT 2X32 T8/277 ISN-SC | IS | 2 | | | | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QT 2X32/347 ISH-SC | IS | 2 | H | 1.20 | Parallel | NA | NA | NA | (347V) |
| OSRAM SYLVANIA | QT 3X32/277 IS | IS | 3 | | | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QT 4X32 T8/347 ISN-SC | IS | 4 | N | / | Parallel | NA | (347V) | NA | (347V) |
| OSRAM SYLVANIA | QT2X32/120 IS-SC | IS | 2 | N | 0.9 | Parallel | P,T | NA | ✓ | NA |
| OSRAM SYLVANIA | QT2X32T8/277 ISN-SC | IS | | | 0.88 | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISN-SC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QTP 3X32T8/UNV ISN-SC | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QTP 3X32T8/UNV PSX-SC | PRS | 3 | L | 0.71 | Series | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QTP 4x32T8/UNV ISN-SC | IS | 4 | N | 0.88 | Parallel | ✓ | P,T | ✓ | ✓ |
| OSRAM SYLVANIA | QTP2X32T8/277 ISN-D | IS | 2 | L | 0.78 | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QTP2X32T8/UNV DIM-TC | DPS | 2 | N | 0.88 | ? | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QTP3X32T8/UNV PSN-SC | PRS | 3 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| Pacific Fluorescent | EB-232IS-120-RES | IS | 2 | N | | Parallel | P,T | NA | ✗ | NA |
| Philips-Advance | GOPA-2P32-N | IS | 2 | N | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | GOPA-4P32-SC | IS | 4 | - | - | Parallel | (347V) | NA | (347V) | NA |
| Philips-Advance | ICN-132-MC | IS | 1 | N | 0.88 | NA | NA | NA | ✗ | ✗ |
| Philips-Advance | ICN-1P32-N | IS | 1 | N | 0.91 | NA | NA | NA | ✗ | ✗ |
| Philips-Advance | ICN-2P16-TLED-N | IS | 2 | N | 1.18 | NA | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-2P32-N | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-2P32-SC | IS | 2 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-3P32-N | IS | 3 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | ICN-3P32-SC | IS | 3 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P16-TLED-N | IS | 4 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P32-N | IS | 4 | N | 0.90 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P32-SC | IS | 4 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-1P32-N | IS | 1 | N | 0.89 | NA | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2P32HL-SC | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2P32-LW-N | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |

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| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| Philips-Advance | IOP-2P32-N | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-2PSP32-LW-N | PS | 2 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2PSP32-N | PS | 2 | N | | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2S32-SC | PS | 2 | N | 0.87 | Series | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3P32HL-90C-SC | IS | 3 | H | 1.22 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3P32-N | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-3PSP32-LW-SC | PS | 3 | L | 0.69 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3PSP32-SC | PS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4P32-HL-SC | IS | 4 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-4P32-LW-N | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4P32-N | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4P32-SC | IS | 4 | N | 0.87 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-4PSP32-LW-SC | PS | 4 | L | 0.69 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4PSP32-SC | PS | 4 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-1P32-N | IS | 1 | N | 0.88 | NA | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOPA-2P32-HL-N | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOPA-2P32-LW-N | IS | 2 | L | 0.76 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-3P32-LW-N | IS | 3 | L | 0.76 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOPA-3P32-LW-SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-3P32-N | IS | 3 | N | 0.86 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-4P32-HL | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-4P32-HL-SC | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-4P32-N | IS | 4 | N | 0.87 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOPA-4P32-SC | IS | 4 | N | 0.92 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOT-2PSP32-SC | DPS | 2 | N | 1.00 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOT-2S32-SC | DPS | 2 | N | 1.00 | Series | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOT-3PSP32-SC | DPS | 3 | H | 1 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | REB-2P32-SC | IS | 2 | N | 0.88 | Parallel | ✓ | NA | ✓ | NA |
| Philips-Advance | REB-4P32-SC | IS | 4 | N | 0.81 | Parallel | ✓ | NA | ✓ | NA |
| Philips-Advance | REL-2P32-RH-TP | IS | 2 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | REZ-132-SC | DPS | 1 | H | 1 | NA | NA | NA | ✗ | NA |
| Philips-Advance | REZ-2S32-SC | DPS | 2 | N | ? | Series | ✗ | NA | ✗ | NA |
| Philips-Advance | REZ-3S32-SC | DPS | 3 | N | 0.97 | Series | ✗ | NA | ✗ | NA |
| Philips-Advance | VCN-2P32-SC | IS | 2 | | | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VCN-4P32-SC | IS | 4 | | | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VEL-2P32-RH-TP | IS | 2 | N | | Parallel | NA | P,T | NA | ✓ |
| Philips-Advance | VEL-2P32-SC (Rev. D) | IS | 2 | N | 0.88 | Parallel | NA | P,T | NA | ✓ |
| Philips-Advance | VEL-2P32-SC (Rev. G) | IS | 2 | N | 0.88 | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VEL-3P32-SC | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | VZT-4S32-HL | DPS | 4 | | | Parallel | NA | ✗ | NA | ✗ |
| PLUSRITE | BAF232IS/MV | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF232IS/MV/L | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| PLUSRITE | BAF332IS/MV | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF332IS/MV/L | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF432IS/MV | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF432IS/MV/L | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ProLume | E432IS/120/R/SL | IS | 4 | N | 0.87 | Parallel | ✓ | NA | ✓ | NA |
| ProLume | EP232IS/L/MV/SL | IS | 2 | L | 0.78 | Parallel | ✗ | ✗ | ✓ | ✓ |
| Robertson | ISU232T8HEMV | IS | 2 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| SOLA | E-758-U-232-MC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Standard Products | E232T8IS120-277/N/AS | IS | 2 | | 0.87 | | ✓ | ✓ | ✓ | ✓ |
| Standard Products | E232T8IS120-277/N/AS | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Standard Products | E432T8IS347/N/BULK | IS | 4 | - | - | Parallel | 347V | NA | 347V | NA |
| SUNPARK | 120-1/32IS HPF | IS | 1 | N | 0.88 | NA | NA | NA | ✓ | NA |
| SUNPARK | 120-3/32IS MPF | IS | 3 | N | 0.88 | Parallel | P,T | NA | P,T | NA |
| SUNPARK | LC 12011T | PS | 1 | H | | NA | NA | NA | ✗ | NA |
| SUNPARK | LC 12013T | PS | 1 | H | | NA | NA | NA | ✗ | NA |
| SUNPARK | SL15T | PS | 2 | N | 0.88 | Series | ✗ | NA | ✗ | NA |
| SUNPARK | U-1/32PSE | PS | 1 | N | 0.88 | n.a | NA | NA | ✗ | ✗ |

✓ = Compatible ✗ = Incompatible P = PF <0.85 T = THD >30% NA = Not applicable



LED T8 DIRECT FIT BALLAST COMPATIBILITY

12W LED T8 Direct Fit (LED12WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------------------|-----------------------|--------------|------------|------|--------|---------------|----------|-----|--------|-----|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| SUNPARK | U-2/32IS HBF | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-2/32ISE-LBF | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-2/32PSE | RS | 2 | N | 0.88 | | ✗ | ✗ | ✗ | ✗ |
| SUNPARK | U-2/32PSE-HBF | RS | 2 | H | 1.15 | | ✗ | ✗ | ✗ | ✗ |
| SUNPARK | U-232PS3 | RS | 2 | N | 0.88 | | ✗ | ✗ | ✗ | ✗ |
| SUNPARK | U-232PS3-HBF | RS | 2 | H | 1.15 | | ✗ | ✗ | ✗ | ✗ |
| SUNPARK | U-3/32ISE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-3/32ISE-HBF | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-4/32IS HBF | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-4/32IS HP,F | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-4/32ISE-LBF | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Superior Life | 70201 | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Superior Life | 70210 | PS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Superior Life | 70211 | PS | 4 | N | 0.87 | Parallel | ✗ | ✗ | ✗ | ✗ |
| TCP | E2P32ISUNVHE | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| TCP | E3P32ISUNVE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E3P32ISUNVHE | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E3P32ISUNVLE | IS | 3 | L | 0.78 | Parallel | ✓ | ✗ | ✓ | ✓ |
| TCP | E4P32ISUNVE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E4P32ISUNVHE | IS | 4 | N | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E4P32ISUNVLE | IS | 4 | L | 0.78 | Parallel | ✗ | ✗ | ✗ | ✗ |
| TCP | TCP3P32ISUNVH | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TOPAZ | B232IUNVHEH/A-TPZ | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TOPAZ | B432IUNVHEH/A-TPZ | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B132IUNVHP-N | IS | 1 | N | 0.88 | n.a | NA | NA | ✓ | ✓ |
| Universal Lighting Technologies | B2321120RES-A | IS | 2 | N | 0.88 | Parallel | T | NA | T | NA |
| Universal Lighting Technologies | B2321277RH-A | IS | 2 | H | 1.09 | Parallel | NA | ✗ | NA | ✓ |
| Universal Lighting Technologies | B232IUNV-C | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVEL-A | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHEH-A | IS | 2 | N | 118.00 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHP-B | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHP-N | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232PU104S50A | PRS | 2 | H | 1.04 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Universal Lighting Technologies | B232PUNVHE-B | PS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Universal Lighting Technologies | B232PUNVHP-A | PS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Universal Lighting Technologies | B233IUNVHE-A | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B332IHRVHB-E | IS | 3 | H | / | Parallel | ✗ | ✗ | ✗ | ✗ |
| Universal Lighting Technologies | B332IUNVHP-A | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B332PUNVHEH-A | PS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Universal Lighting Technologies | B432IUNVHE L-A | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHE-A | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHEH-E | IS | 4 | H | 1.15 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHP-A | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432PUNVHE-A | PS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-232N-MV-TP-HE | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-232N-MV-TP-HE (SC) | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-332N-MV-TP-HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-432L-MV-TP-HE | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-432N-MV-TP-HE | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DBG32N-MV-TP-PS-HL | PS | 3 | H | | | ✗ | ✗ | ✗ | ✗ |
| WORK HORSE | WHSG3-UNV-T8-IS | IS | 3 | N | 0.99 | Parallel | ✓ | ✓ | ✓ | ✓ |
| WORK HORSE | WHSG4-UNV-T8-IS | IS | 4 | N | 0.96 | Parallel | ✓ | ✓ | ✓ | ✓ |

✓ = Compatible ✗ = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable



12W LED T8 Direct Fit (LED12WT8/48/8xx-G8DR) - Emergency Ballasts

| Manufacturer | Part Number | Start Method | # of Lamps | N Lamp |
|--------------|----------------|--------------|------------|--------|
| ESPEN | VEM500DV(L) | AC | 1 | ✓ |
| ESPEN | VEM700DV(L) | AC | 2 | ✓ |
| EXITRONIX | XEB-7-B-LM | AC | 1 | ✓ |
| KEYSTONE | KT-EMRG-800-T5 | AC | 1 | ✓ |
| TAMLITE | BAL1400LPACTD | AC | 2 | ✓ |
| TAMLITE | PACO457 | AC | 2 | ✗ |

✓ = Compatible

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|--------------------|--------------------------|--------------|------------|------|-------|---------------|----------|----------|--------|------|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| ACT | ACT 2P32ISUNVE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ANTRON ELECTRONICS | A32T8MICLO | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ARCATA | ACT 3P32ISUNVLE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Cooper Lighting | CL-432ISUNV-R1-B | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL232-120/277HF(1688B) | IS | 2 | N | ? | Parallel | ✓ | ✗ | ✓ | ✓ |
| DAMAR | EL232DIM/120/277HF | DPS | 2 | L | ? | Series | ✗ | ✗ | ✗ | ✗ |
| DAMAR | EL232HL-120/277HF(1688D) | IS | 2 | H | ? | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL332-120/277HF(3654C) | IS | 3 | N | ? | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL332HL-120/277HF(3654H) | IS | 3 | H | ? | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL432-120/277HF(3093B) | IS | 4 | N | ? | Parallel | ✓ | ✓ | ✓ | ✓ |
| DAMAR | EL432HL-120/277HF(3093C) | IS | 4 | H | ? | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-2x32T8-UNV-IS-H | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| EIKO | PM-2x32T8-UNV-PS | PS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-2X32T8-UNV-IS | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-2X32T8-UNV-IS-L | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-IS | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-IS-H | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-IS-L | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-3X32T8-UNV-PS | PS | 3 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-3X32T8-UNV-PS-H | PS | 3 | H | 1.18 | Series | ✗ | ✗ | ✗ | ✗ |
| EIKO | PM-4X32T8-UNV-IS | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| EIKO | PM-4X32T8-UNV-IS-L | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHIPE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHIPHE | IS | 2 | H | 1.19 | Parallel | ✗ | ✗ | ✓ | ✓ |
| ESPEN | VE232MVHIPEL | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ESPEN | VE232MVHRPHT3-AB | DPS | 2 | H | 1.20 | Series | ✗ | ✗ | ✗ | ✗ |
| ESPEN | VE2P32MVHIPE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE132MAX-G-N | IS | 1 | N | 0.88 | NA | NA | NA | ✗ | ✗ |
| General Electric | GE132MAX-L/ULTRA | IS | 1 | L | 0.78 | NA | NA | NA | ✗ | ✗ |
| General Electric | GE132MAXP-N/ULTRA | IS | 1 | N | 0.88 | NA | NA | NA | ✓ | ✓ |
| General Electric | GE132MVPSN-V03 | DPS | 1 | N | 0.88 | n.a | NA | NA | ✗ | ✗ |
| General Electric | GE232MAX347-N | IS | 2 | H | 1.02 | Parallel | NA | P,T,347V | NA | 347V |
| General Electric | GE232MAX-G-L | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAX-G-N | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-232-MAX-H/Ultra | IS | 2 | H | 1.15 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE-232-MAX-H-42T | IS | 2 | H | / | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE232MAX-L/ULTRA | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAX-N/ULTRA | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MAXP90-V60 | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE-232-MV-N | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MV-N-DIY | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE232MVPS-L-S30 | DPS | 2 | N | 0.96 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE232-MVPS-N | PS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-232-MV-PS-N | PS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-G-N | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-H-42T | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-H-84TS | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAX-L/ULTRA | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |

✓ = Compatible ✗ = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable



LED T8 DIRECT FIT BALLAST COMPATIBILITY

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------------|-------------------------|--------------|------------|------|-------|---------------|----------|------|--------|------|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| General Electric | GE332MAX-N/ULTRA | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MAXP90-V60 | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE332MAXP-H/ULTRA | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| General Electric | GE332MAXP-L/ULTRA | IS | 3 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MV-N | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE-332-MVPS-N | PS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE332MVPSN-V03 | DPS | 3 | N | 0.98 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432-120-RES | IS | 4 | N | 0.83 | Parallel | ✓ | NA | ✓ | NA |
| General Electric | GE432MAX347-N | IS | 4 | N | 0.94 | Parallel | NA | 347V | NA | 347V |
| General Electric | GE432MAX90-S60 | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-G-H | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-G-N | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-H/ULTRA | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-H/ULTRA | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-H-42T | IS | 4 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAX-N/ULTRA | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432MAXP90-S60 | IS | 4 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432MV-N-42T | IS | 4 | N | 0.93 | Parallel | ✓ | ✓ | ✓ | ✓ |
| General Electric | GE432-MVPS-N | PS | 4 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| General Electric | GE432MVPS-N-V03 | PS | 4 | N | 0.90 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Halco | EP232IS/H/MV/HE | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP232IS/L/MV/HE | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP232IS/MV/HE | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP332IS/L/MV/HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP332IS/MV/HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP432IS/120/MC | IS | 4 | n | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Halco | EP432IS/L/MV/HE | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Halco | EP432IS/MV/HE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HATCH | HL232BIS/UV/HE/W | IS | 2 | N | 0.9 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HATCH | HL432BIS/UV/HE/W | IS | 4 | N | 0.9 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | E2/32IS-120MC | IS | 2 | N | 0.85 | Parallel | ✓ | NA | ✓ | NA |
| HOWARD INDUSTRIES | E2/32IS-277 | IS | 2 | | | Parallel | NA | ✗ | NA | ✗ |
| HOWARD INDUSTRIES | EP2/32IS/MV/MC/HE | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP2/32PRS/MV/MC/HE | PRS | 2 | N | 0.86 | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EP3/32IS/208-277 | IS | 3 | | | Parallel | NA | ✗ | NA | ✗ |
| HOWARD INDUSTRIES | EP3/32IS/MV/MC/HE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP3/32IS/MV/SC/HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP4/32IS/MV/MC/HE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EP4/32PPRS/MV/SC/HE | PRS | 4 | N | ? | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EPH2/321S/MV/MC/HE | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPH3/32IS/MV/MC/HE | IS | 3 | N | 0.91 | Parallel | ✗ | ✗ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPH4/32IS/MV/SC/HE | IS | 4 | H | 1.16 | Parallel | ✗ | ✗ | ✗ | ✗ |
| HOWARD INDUSTRIES | EPL2/32IS/MV/MC/HE | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPL3/32IS/MV/SC/HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| HOWARD INDUSTRIES | EPL4/32IS/MV/MC/HE | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-132-1-TP-FC | RS | 1 | N | ? | NA | NA | NA | ✗ | NA |
| KEYSTONE | KTEB-232LBF-1-TP-PIC-EV | IS | 2 | N | 0.88 | Parallel | ✓ | NA | ✓ | NA |
| KEYSTONE | KTEB-232-UV-IS-H-P | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| KEYSTONE | KTEB-332-UV-IS-H-P | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| KEYSTONE | KTEB-332-UV-IS-N-P | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-432RIS-1-TP-SL | IS | 4 | N | 0.80 | Parallel | ✓ | NA | ✓ | NA |
| KEYSTONE | KTEB-432-UV-IS-H-P | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| KEYSTONE | KTEB-432-UV-IS-N-P | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| LIGHTING PRODUCTS LIMITED | EB-332EBF-UV-TP-HE | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | MLEU322HEL/SC | IS | 2 | N | 0.83 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | MLEU323H/SC | IS | 3 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | MLEU324HE/SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU322HEL/SC | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU323L/SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MAXLITE | SKEU324HE/SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| MOTOROLA | M2-IN-T8-GP-D-277 | IS | 2 | / | / | Parallel | NA | ✓ | NA | ✓ |

✓ = Compatible ✗ = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable



LED T8 DIRECT FIT BALLAST COMPATIBILITY

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------|--------------------------|--------------|------------|------|-------|---------------|----------|------|--------|------|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| MOTOROLA | M3-IN-T8-GP-A-277 | IS | 3 | / | / | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QHE 1X32T8/UNV DIM-TC | DPS | 1 | N | 0.88 | NA | NA | NA | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISH-SC | IS | 1 | H | 1.20 | NA | NA | NA | ✓ | P,T |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISL-SC | IS | 1 | L | 0.78 | NA | NA | NA | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/347 ISN-SC | IS | 2 | H | / | Parallel | NA | 347V | NA | 347V |
| OSRAM SYLVANIA | QHE 2x32T8/347 PSN-SC | PRS | 2 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV DIM-TC | PRS | 2 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH HT-SC | IS | 2 | H | | Parallel | ✗ | ✗ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISL-SC | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISN-SC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV PSH-HT | PRS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 2X32T8/UNV PSN-MC | PRS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3x32T8/UNV ISH HT-SC | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-SC | IS | 3 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISL-SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISN-SC | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV PSH-HT-SC | DPS | 3 | H | 1.15 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 3X32T8/UNV PSN-SC | PRS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/347 ISN-SC | IS | 4 | H | / | Parallel | NA | 347V | NA | 347V |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH HT-1 | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH-SC | IS | 4 | H | | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISL-SC | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV PSN-SC | PRS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QHE 4X32T8/UNV PSX-SC | PRS | 4 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QHES 2x32T8/UNV PSL-SC | PRS | 2 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QT 2x32 T8/277 ISN-SC | IS | 2 | | | | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QT 2x32/347 ISH-SC | IS | 2 | H | 1.20 | Parallel | NA | NA | NA | 347V |
| OSRAM SYLVANIA | QT 3x32/277 IS | IS | 3 | | | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QT 4x32 T8/347 ISN-SC | IS | 4 | N | / | Parallel | NA | 347V | NA | 347V |
| OSRAM SYLVANIA | QT2X32/120 IS-SC | IS | 2 | N | 0.9 | Parallel | P,T | NA | ✓ | NA |
| OSRAM SYLVANIA | QT2x32T8/277 ISN-SC | IS | | | 0.88 | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISN-SC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QTP 3X32T8/UNV ISN-SC | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| OSRAM SYLVANIA | QTP 3X32T8/UNV PSX-SC | PRS | 3 | L | 0.71 | Series | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QTP2x32T8/UNV DIM-TC | DPS | 2 | N | 0.88 | ? | ✗ | ✗ | ✗ | ✗ |
| OSRAM SYLVANIA | QTP2X32T8/277 ISN-D | IS | 2 | L | 0.78 | Parallel | NA | ✓ | NA | ✓ |
| OSRAM SYLVANIA | QTP3X32T8/UNV PSN-SC | PRS | 3 | N | 0.88 | Series | ✗ | ✗ | ✗ | ✗ |
| Pacific Fluorescent | EB-232IS-120-RES | IS | 2 | N | | Parallel | ✓ | NA | ✓ | NA |
| Philips-Advance | GOPA-2P32-N | IS | 2 | N | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | GOPA-4P32-SC | IS | 4 | - | - | Parallel | (347V) | NA | (347V) | NA |
| Philips-Advance | ICN-132-MC | IS | 1 | N | 0.88 | NA | NA | NA | ✓ | ✓ |
| Philips-Advance | ICN-1P32-N | IS | 1 | N | 0.91 | NA | NA | NA | ✗ | ✗ |
| Philips-Advance | ICN-2P16-TLED-N | IS | 2 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-2P32-N | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-2P32-SC | IS | 2 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-3P32-N | IS | 3 | N | 0.88 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | ICN-3P32-SC | IS | 3 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P16-TLED-N | IS | 4 | N | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P32-N | IS | 4 | N | 0.90 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | ICN-4P32-SC | IS | 4 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-1P32-N | IS | 1 | N | 0.89 | NA | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2P32HL-SC | IS | 2 | H | 1.18 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2P32-LW-N | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-2P32-N | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-2PSP32-LW-N | PS | 2 | L | 0.71 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2PSP32-N | PS | 2 | N | 0.94 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-2S32-SC | PS | 2 | N | 0.87 | Series | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3P32HL-90C-SC | IS | 3 | H | 1.22 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3P32-N | IS | 3 | N | 0.87 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3PSP32-LW-SC | PS | 3 | L | 0.69 | Parallel | ✗ | ✗ | ✗ | ✗ |
| Philips-Advance | IOP-3PSP32-SC | PS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |

✓ = Compatible ✗ = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable



LED T8 DIRECT FIT BALLAST COMPATIBILITY

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|-------------------|----------------------|--------------|------------|------|-------|---------------|----------|-----|--------|-----|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| Philips-Advance | IOP-4P32-HL-SC | IS | 4 | H | 1.18 | Parallel | X | X | X | X |
| Philips-Advance | IOP-4P32-LW-N | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4P32-N | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4P32-SC | IS | 4 | N | 0.87 | Parallel | X | X | X | X |
| Philips-Advance | IOP-4PSP32-LW-SC | PS | 4 | L | 0.69 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOP-4PSP32-SC | PS | 4 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-1P32-N | IS | 1 | N | 0.88 | NA | X | X | X | X |
| Philips-Advance | IOPA-2P32-HL-N | IS | 2 | H | 1.18 | Parallel | X | X | X | X |
| Philips-Advance | IOPA-2P32-LW-N | IS | 2 | L | 0.76 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-3P32-LW-N | IS | 3 | L | 0.76 | Parallel | X | X | X | X |
| Philips-Advance | IOPA-3P32-LW-SC | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-3P32-N | IS | 3 | N | 0.86 | Parallel | X | X | X | X |
| Philips-Advance | IOPA-4P32-HL | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOPA-4P32-SC | IS | 4 | N | 0.92 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | IOT-2PSP32-SC | DPS | 2 | N | 1.00 | Parallel | X | X | X | X |
| Philips-Advance | IOT-2S32-SC | DPS | 2 | N | 1.00 | Series | X | X | X | X |
| Philips-Advance | IOT-3PSP32-SC | DPS | 3 | H | 1 | Parallel | X | X | X | X |
| Philips-Advance | REB-2P32-SC | IS | 2 | N | 0.88 | Parallel | X | NA | ✓ | NA |
| Philips-Advance | REB-4P32-SC | IS | 4 | N | 0.81 | Parallel | ✓ | NA | ✓ | NA |
| Philips-Advance | REL-2P32-RH-TP | IS | 2 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | REZ-132-SC | DPS | 1 | H | 1 | n.a | NA | NA | X | NA |
| Philips-Advance | REZ-2S32-SC | DPS | 2 | N | ? | Series | X | NA | X | NA |
| Philips-Advance | REZ-3S32-SC | DPS | 3 | N | 0.97 | Series | X | NA | X | NA |
| Philips-Advance | VCN-2P32-SC | IS | 2 | | | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VCN-4P32-SC | IS | 4 | | | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VEL-2P32-RH-TP | IS | 2 | N | | Parallel | NA | P,T | NA | ✓ |
| Philips-Advance | VEL-2P32-SC (Rev. D) | IS | 2 | N | 0.88 | Parallel | NA | ✓ | NA | ✓ |
| Philips-Advance | VEL-2P32-SC (Rev. G) | IS | 2 | N | 0.88 | Parallel | NA | T | NA | ✓ |
| Philips-Advance | VEL-3P32-SC | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Philips-Advance | VZT-4S32-HL | DPS | 4 | | | Parallel | NA | X | NA | X |
| PLUSRITE | BAF232IS/MV | IS | 2 | N | 0.89 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF232IS/MV/L | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| PLUSRITE | BAF332IS/MV | IS | 3 | N | 0.88 | ? | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF332IS/MV/L | IS | 3 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF432IS/MV | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Plusrite | BAF432IS/MV/L | IS | 4 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| ProLume | E432IS/120/R/SL | IS | 4 | N | 0.87 | Parallel | P,T | NA | P,T | NA |
| ProLume | EP232IS/L/MV/SL | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Robertson | ISU232T8HEMV | IS | 2 | | | Parallel | ✓ | ✓ | ✓ | ✓ |
| SOLA | E-758-U-232-MC | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | X | X |
| Standard Products | E232T8IS120-277/N/AS | IS | 2 | | 0.87 | | ✓ | ✓ | ✓ | ✓ |
| Standard Products | E232T8IS120-277/N/AS | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Standard Products | E432T8IS347/N/BULK | IS | 4 | - | - | Parallel | 347V | NA | 347V | NA |
| SUNPARK | 120-1/32IS HPF | IS | 1 | N | 0.88 | NA | NA | NA | ✓ | NA |
| SUNPARK | 120-3/32IS MPF | IS | 3 | N | 0.88 | Parallel | ✓ | NA | ✓ | NA |
| SUNPARK | LC 12011T | PS | 1 | H | | NA | NA | NA | X | NA |
| SUNPARK | LC 12013T | PS | 1 | H | | NA | NA | NA | X | NA |
| SUNPARK | SL15T | PS | 2 | N | 0.88 | Series | X | NA | X | NA |
| SUNPARK | U-1/32PSE | PS | 1 | N | 0.88 | n.a | NA | NA | X | X |
| SUNPARK | U-2/32IS HBF | IS | 2 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-2/32ISE-LBF | IS | 2 | L | 0.78 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-2/32PSE | RS | 2 | N | 0.88 | | X | X | X | X |
| SUNPARK | U-2/32PSE-HBF | RS | 2 | H | 1.15 | | X | X | X | X |
| SUNPARK | U-232PS3 | RS | 2 | N | 0.88 | | X | X | X | X |
| SUNPARK | U-232PS3-HBF | RS | 2 | H | 1.15 | | X | X | X | X |
| SUNPARK | U-3/32ISE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-3/32ISE-HBF | IS | 3 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| SUNPARK | U-4/32IS HBF | IS | 4 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| SUNPARK | U-4/32IS HP,F | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| SUNPARK | U-4/32ISE-LBF | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Superior Life | 70201 | IS | 2 | N | 0.88 | Parallel | ✓ | X | ✓ | ✓ |

✓ = Compatible X = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable



LED T8 DIRECT FIT BALLAST COMPATIBILITY

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR)

| Manufacturer | Part Number | Start Method | # of Lamps | BF | | Lamp Connect. | N-1 Lamp | | N Lamp | |
|---------------------------------|-----------------------|--------------|------------|------|-------|---------------|----------|-----|--------|-----|
| | | | | Type | Value | | 120 | 277 | 120 | 277 |
| Superior Life | 70210 | PS | 2 | N | 0.88 | Parallel | X | X | X | X |
| Superior Life | 70211 | PS | 4 | N | 0.87 | Parallel | X | X | X | X |
| TCP | E2P32ISUNVHE | IS | 2 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| TCP | E3P32ISUNVE | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E3P32ISUNVHE | IS | 3 | H | / | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E3P32ISUNVLE | IS | 3 | L | 0.78 | Parallel | ✓ | X | ✓ | ✓ |
| TCP | E4P32ISUNVE | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E4P32ISUNVHE | IS | 4 | N | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| TCP | E4P32ISUNVLE | IS | 4 | L | 0.78 | Parallel | ✓ | X | ✓ | ✓ |
| TCP | TCP3P32ISUNVH | IS | 3 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| TOPAZ | B232IUNVHEH/A-TPZ | IS | 2 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| TOPAZ | B432IUNVHEH/A-TPZ | IS | 4 | H | 1.18 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B132IUNVHP-N | IS | 1 | N | 0.88 | NA | NA | NA | X | ✓ |
| Universal Lighting Technologies | B232I120RES-A | IS | 2 | N | 0.88 | Parallel | T | NA | T | NA |
| Universal Lighting Technologies | B232I277RH-A | IS | 2 | H | 1.09 | Parallel | NA | T | NA | ✓ |
| Universal Lighting Technologies | B232IUNV-C | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVEL-A | IS | 2 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHEH-A | IS | 2 | H | 1.18 | Parallel | X | X | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHP-B | IS | 2 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B232IUNVHP-N | IS | 2 | N | 0.88 | Parallel | X | X | ✓ | ✓ |
| Universal Lighting Technologies | B232PU104S50A | PRS | 2 | H | 1.04 | Parallel | X | X | X | X |
| Universal Lighting Technologies | B232PUNVHE-B | PS | 2 | N | 0.88 | Parallel | X | X | X | X |
| Universal Lighting Technologies | B232PUNVHP-A | PS | 2 | N | 0.88 | Parallel | X | X | X | X |
| Universal Lighting Technologies | B233IUNVHE-A | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B332IHRVHB-E | IS | 3 | H | / | Parallel | X | X | X | X |
| Universal Lighting Technologies | B332IUNVHP-A | IS | 3 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B332PUNVHEH-A | PS | 3 | H | 1.18 | Parallel | X | X | X | X |
| Universal Lighting Technologies | B432IUNVHE L-A | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHE-A | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHEH-E | IS | 4 | H | 1.15 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432IUNVHP-A | IS | 4 | N | 0.88 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Universal Lighting Technologies | B432PUNVHE-A | PS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-232N-MV-TP-HE | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-232N-MV-TP-HE (SC) | IS | 2 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-332N-MV-TP-HE | IS | 3 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-432L-MV-TP-HE | IS | 4 | L | 0.77 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DB-432N-MV-TP-HE | IS | 4 | N | 0.87 | Parallel | ✓ | ✓ | ✓ | ✓ |
| Watran | DBG32N-MV-TP-PS-HL | PS | 3 | H | | | X | X | X | X |
| WORK HORSE | WHSG3-UNV-T8-IS | IS | 3 | N | 0.99 | Parallel | ✓ | ✓ | ✓ | ✓ |
| WORK HORSE | WHSG4-UNV-T8-IS | IS | 4 | N | 0.96 | Parallel | ✓ | ✓ | ✓ | ✓ |

✓ = Compatible X = Incompatible P = PF < 0.85 T = THD > 30% NA = Not applicable

15W LED T8 Direct Fit (LED15WT8/48/8xx-G8DR) - Emergency Ballasts

| Manufacturer | Part Number | Start Method | # of Lamps | N Lamp |
|--------------|----------------|--------------|------------|--------|
| ESPEN | VEM500DV(L) | AC | 1 | ✓ |
| ESPEN | VEM700DV(L) | AC | 2 | ✓ |
| EXITRONIX | XEB-7-B-LM | AC | 1 | ✓ |
| KEYSTONE | KT-EMRG-800-T5 | AC | 1 | ✓ |
| TAMLITE | BAL1400LPACTD | AC | 2 | ✓ |

✓ = Compatible