



SPECIFICATION SHEET

T8 Direct Install LED Lamp

Operates with Compatible Ballast

Item Number **50360**

Specifications

| | |
|--------------------------------------|--------------------------------|
| Energy Used (Watts)..... | 15 |
| Domestic Code | LED 15T8/UB6/50 Direct Install |
| Volts | Ballast Dependant |
| Brightness (Lumens) | 2200 |
| Average Rated Hours..... | 50,000 |
| Life in Years (3 hrs./day) | 45.6 |
| Life in Years (12 hrs./day) | 11.4 |
| Light Appearance (Kelvin)..... | 5000 |
| CRI | 82 |
| Efficacy (LPW)..... | 147 |
| Number of LED Modules..... | 120 |
| Minimum Starting Temperature..... | -20°C/-4°F |
| Estimated Yearly Energy Cost*..... | \$1.81 |
| Package Type | Box |
| Non-shunted Tombstones Required..... | Yes |

Can be used in totally enclosed fixtures.

Can be used anywhere a T8 U-Bent fluorescent lamp is used.



Physical Characteristics

| | |
|-------------------------|---------------------|
| Color Designation | Daylight |
| Finish..... | Frost |
| Base..... | 2G13 (Medium BiPin) |
| MOL | 22.84" |



Warning

- Turn power off before inspection, installation, or removal.
- Risk of electric shock - Do not use where exposed to water or weather.
- Do not open - no user serviceable parts inside.
- This device is not intended for use with emergency exit luminaires or emergency exit lights.
- This device complies with Part 15 of the FCC rules and has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

*Based on 3 hrs./day 11¢/kWh - Cost depends on rates and use.

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|--------------------|--------------------------|-----------------|----------------------|----------------|---------|----------------|
| ACT | ACT 2P32ISUNVE | INSTANT START | 1 | N | 120/277 | Compatible |
| ACT | ACT 2P32ISUNVE | INSTANT START | 2 | N | 120/277 | Compatible |
| ANTRON ELECTRONICS | A32T8MICLO | INSTANT START | 1 | L | 120/277 | Compatible |
| ANTRON ELECTRONICS | A32T8MICLO | INSTANT START | 2 | L | 120/277 | Compatible |
| ARCATA | ACT 3P32ISUNVLE | INSTANT START | 2 | L | 120/277 | Compatible |
| ARCATA | ACT 3P32ISUNVLE | INSTANT START | 3 | L | 120/277 | Compatible |
| DAMAR | EL232-120/277HF(1688B) | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| DAMAR | EL232-120/277HF(1688B) | INSTANT START | 2 | N | 120/277 | Compatible |
| DAMAR | EL232HL-120/277HF(1688D) | INSTANT START | 1 | H | 120/277 | Compatible |
| DAMAR | EL232HL-120/277HF(1688D) | INSTANT START | 2 | H | 120/277 | Compatible |
| DAMAR | EL332-120/277HF(3654C) | INSTANT START | 2 | N | 120/277 | Compatible |
| DAMAR | EL332-120/277HF(3654C) | INSTANT START | 3 | N | 120/277 | Compatible |
| DAMAR | EL332HL-120/277HF(3654H) | INSTANT START | 2 | H | 120/277 | Compatible |
| DAMAR | EL332HL-120/277HF(3654H) | INSTANT START | 3 | H | 120/277 | Compatible |
| DAMAR | EL432-120/277HF(3093B) | INSTANT START | 3 | N | 120/277 | Compatible |
| DAMAR | EL432-120/277HF(3093B) | INSTANT START | 4 | N | 120/277 | Compatible |
| DAMAR | EL432HL-120/277HF(3093C) | INSTANT START | 3 | H | 120/277 | Compatible |
| DAMAR | EL432HL-120/277HF(3093C) | INSTANT START | 4 | H | 120/277 | Compatible |
| EIKO | PM-2x32T8-UNV-IS-H | INSTANT START | 1 | H | 120/277 | Compatible |
| EIKO | PM-2x32T8-UNV-IS-H | INSTANT START | 2 | H | 120/277 | Compatible |
| EIKO | PM-2X32T8-UNV-IS | INSTANT START | 1 | N | 120/277 | Compatible |
| EIKO | PM-2X32T8-UNV-IS | INSTANT START | 2 | N | 120/277 | Compatible |
| EIKO | PM-2X32T8-UNV-IS-L | INSTANT START | 1 | L | 120/277 | Compatible |
| EIKO | PM-2X32T8-UNV-IS-L | INSTANT START | 2 | L | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS | INSTANT START | 2 | N | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS | INSTANT START | 3 | N | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS-H | INSTANT START | 2 | H | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS-H | INSTANT START | 3 | H | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS-L | INSTANT START | 2 | L | 120/277 | Compatible |
| EIKO | PM-3X32T8-UNV-IS-L | INSTANT START | 3 | L | 120/277 | Compatible |
| EIKO | PM-4X32T8-UNV-IS | INSTANT START | 3 | N | 120/277 | Compatible |
| EIKO | PM-4X32T8-UNV-IS | INSTANT START | 4 | N | 120/277 | Compatible |
| EIKO | PM-4X32T8-UNV-IS-L | INSTANT START | 3 | L | 120/277 | Compatible |
| EIKO | PM-4X32T8-UNV-IS-L | INSTANT START | 4 | L | 120/277 | Compatible |
| ESPEN | VE232MVHIPE | INSTANT START | 1 | N | 120/277 | Compatible |
| ESPEN | VE232MVHIPE | INSTANT START | 2 | N | 120/277 | Compatible |
| ESPEN | VE232MVHIPHE | INSTANT START | 1 | H | 120/277 | Compatible |
| ESPEN | VE232MVHIPHE | INSTANT START | 2 | H | 120/277 | Compatible |
| ESPEN | VE232MVHIPL | INSTANT START | 1 | L | 120/277 | Compatible |
| ESPEN | VE232MVHIPL | INSTANT START | 2 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GEI32MAX-G-N | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GEI32MAX-H/ULTRA | INSTANT START | 1 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GEI32MAX-L/ULTRA | INSTANT START | 1 | L | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GEI32MAXP-N/ULTRA | INSTANT START | 1 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAX347-N | INSTANT START | 1 | N | 347 | Compatible |
| GENERAL ELECTRIC | GE232MAX347-N | INSTANT START | 2 | N | 347 | Compatible |
| GENERAL ELECTRIC | GE-232-MAX-G-L | INSTANT START | 1 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE-232-MAX-G-L | INSTANT START | 2 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE-232-MAX-H/ULTRA | INSTANT START | 1 | H | 120/277 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|------------------|--------------------|-----------------|----------------------|----------------|---------|----------------|
| GENERAL ELECTRIC | GE-232-MAX-H/ULTRA | INSTANT START | 2 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAX-L/ULTRA | INSTANT START | 1 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAX-L/ULTRA | INSTANT START | 2 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAX-N/ULTRA | INSTANT START | 1 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAX-N/ULTRA | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MAXP90-V60 | INSTANT START | 1 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE232MAXP90-V60 | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE-232-MV-N | INSTANT START | 1 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE-232-MV-N | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MV-N-DIY | INSTANT START | 1 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE232MV-N-DIY | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-G-N | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-G-N | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-L/ULTRA | INSTANT START | 2 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-L/ULTRA | INSTANT START | 3 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-N/ULTRA | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAX-N/ULTRA | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAXP90-V60 | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE332MAXP90-V60 | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE332MAXP-H/ULTRA | INSTANT START | 2 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAXP-H/ULTRA | INSTANT START | 3 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAXP-L/ULTRA | INSTANT START | 2 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MAXP-L/ULTRA | INSTANT START | 3 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MV-N | INSTANT START | 2 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE332MV-N | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432-120-RES | INSTANT START | 3 | N | 120 | Compatible |
| GENERAL ELECTRIC | GE432-120-RES | INSTANT START | 4 | N | 120 | Compatible |
| GENERAL ELECTRIC | GE432MAX347-H | INSTANT START | 1 | H | 347 | Compatible |
| GENERAL ELECTRIC | GE432MAX347-H | INSTANT START | 2 | H | 347 | Compatible |
| GENERAL ELECTRIC | GE432MAX347-N | INSTANT START | 3 | N | 347 | Compatible |
| GENERAL ELECTRIC | GE432MAX347-N | INSTANT START | 4 | N | 347 | Compatible |
| GENERAL ELECTRIC | GE432MAX90-S60 | INSTANT START | 3 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX90-S60 | INSTANT START | 4 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-G-N | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-G-N | INSTANT START | 4 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-H/ULTRA | INSTANT START | 3 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-H/ULTRA | INSTANT START | 4 | H | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-L/ULTRA | INSTANT START | 3 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-L/ULTRA | INSTANT START | 4 | L | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-N/ULTRA | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAX-N/ULTRA | INSTANT START | 4 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MAXP90-S60 | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE432MAXP90-S60 | INSTANT START | 4 | H | 120/277 | NOT Compatible |
| GENERAL ELECTRIC | GE432MV-N-42T | INSTANT START | 3 | N | 120/277 | Compatible |
| GENERAL ELECTRIC | GE432MV-N-42T | INSTANT START | 4 | N | 120/277 | Compatible |
| HALCO | EP232IS/H/MV/HE | INSTANT START | 1 | H | 120/277 | Compatible |
| HALCO | EP232IS/H/MV/HE | INSTANT START | 2 | H | 120/277 | Compatible |
| HALCO | EP232IS/L/MV/HE | INSTANT START | 1 | L | 120/277 | Compatible |
| HALCO | EP232IS/L/MV/HE | INSTANT START | 2 | L | 120/277 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|-------------------|-------------------------|-----------------|----------------------|----------------|---------|----------------|
| HALCO | EP232IS/MV/HE | INSTANT START | 1 | N | 120/277 | Compatible |
| HALCO | EP232IS/MV/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HALCO | EP332IS/L/MV/HE | INSTANT START | 2 | L | 120/277 | Compatible |
| HALCO | EP332IS/L/MV/HE | INSTANT START | 3 | L | 120/277 | Compatible |
| HALCO | EP332IS/MV/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HALCO | EP332IS/MV/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HALCO | EP432IS/L/MV/HE | INSTANT START | 3 | L | 120/277 | Compatible |
| HALCO | EP432IS/L/MV/HE | INSTANT START | 4 | L | 120/277 | Compatible |
| HALCO | EP432IS/MV/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HALCO | EP432IS/MV/HE | INSTANT START | 4 | N | 120/277 | Compatible |
| HATCH | HL232BIS/UV/HE/W | INSTANT START | 1 | N | 120/277 | Compatible |
| HATCH | HL232BIS/UV/HE/W | INSTANT START | 2 | N | 120/277 | Compatible |
| HATCH | HL432BIS/UV/HE/W | INSTANT START | 3 | N | 120/277 | Compatible |
| HATCH | HL432BIS/UV/HE/W | INSTANT START | 4 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | E2/32IS-120MC | INSTANT START | 1 | N | 120 | Compatible |
| HOWARD INDUSTRIES | E2/32IS-120MC | INSTANT START | 2 | N | 120 | Compatible |
| HOWARD INDUSTRIES | EP2/32IS/MV/MC/HE | INSTANT START | 1 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP2/32IS/MV/MC/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP3/32IS/MV/MC/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP3/32IS/MV/MC/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP3/32IS/MV/SC/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP3/32IS/MV/SC/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP4/32IS/MV/MC/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EP4/32IS/MV/MC/HE | INSTANT START | 4 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPH2/32IS/MV/MC/HE | INSTANT START | 1 | H | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPH2/32IS/MV/MC/HE | INSTANT START | 2 | H | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPH3/32IS/MV/MC/HE | INSTANT START | 2 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPH3/32IS/MV/MC/HE | INSTANT START | 3 | N | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPH4/32IS/MV/SC/HE | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| HOWARD INDUSTRIES | EPH4/32IS/MV/SC/HE | INSTANT START | 4 | H | 120/277 | NOT Compatible |
| HOWARD INDUSTRIES | EPL2/32IS/MV/MC/HE | INSTANT START | 1 | L | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPL2/32IS/MV/MC/HE | INSTANT START | 2 | L | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPL3/32IS/MV/SC/HE | INSTANT START | 2 | L | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPL3/32IS/MV/SC/HE | INSTANT START | 3 | L | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPL4/32IS/MV/MC/HE | INSTANT START | 3 | L | 120/277 | Compatible |
| HOWARD INDUSTRIES | EPL4/32IS/MV/MC/HE | INSTANT START | 4 | L | 120/277 | Compatible |
| KEYSTONE | KTEB-232LBF-1-TP-PIC-EV | INSTANT START | 1 | N | 120 | Compatible |
| KEYSTONE | KTEB-232LBF-1-TP-PIC-EV | INSTANT START | 2 | N | 120 | Compatible |
| KEYSTONE | KTEB-232-UV-IS-H-P | INSTANT START | 1 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-232-UV-IS-H-P | INSTANT START | 2 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-232-UV-IS-N-P | INSTANT START | 1 | N | 120/277 | Compatible |
| KEYSTONE | KTEB-232-UV-IS-N-P | INSTANT START | 2 | N | 120/277 | Compatible |
| KEYSTONE | KTEB-332-UV-IS-H-P | INSTANT START | 2 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-332-UV-IS-H-P | INSTANT START | 3 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-332-UV-IS-N-P | INSTANT START | 2 | N | 120/277 | Compatible |
| KEYSTONE | KTEB-332-UV-IS-N-P | INSTANT START | 3 | N | 120/277 | Compatible |
| KEYSTONE | KTEB-432RIS-1-TP-SL | INSTANT START | 3 | N | 120 | Compatible |
| KEYSTONE | KTEB-432RIS-1-TP-SL | INSTANT START | 4 | N | 120 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|---------------------------|--------------------------|-----------------|----------------------|----------------|---------|----------------|
| KEYSTONE | KTEB-432-UV-IS-H-P | INSTANT START | 3 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-432-UV-IS-H-P | INSTANT START | 4 | H | 120/277 | Compatible |
| KEYSTONE | KTEB-432-UV-IS-N-P | INSTANT START | 3 | N | 120/277 | Compatible |
| KEYSTONE | KTEB-432-UV-IS-N-P | INSTANT START | 4 | N | 120/277 | Compatible |
| LIGHTING PRODUCTS LIMITED | EB-332EBF-UV-TP-HE | INSTANT START | 2 | L | 120/277 | Compatible |
| LIGHTING PRODUCTS LIMITED | EB-332EBF-UV-TP-HE | INSTANT START | 3 | L | 120/277 | Compatible |
| MAXLITE | MLEU322HEL/SC | INSTANT START | 1 | N | 120/277 | Compatible |
| MAXLITE | MLEU322HEL/SC | INSTANT START | 2 | N | 120/277 | Compatible |
| MAXLITE | MLEU323H/SC | INSTANT START | 2 | H | 120/277 | Compatible |
| MAXLITE | MLEU323H/SC | INSTANT START | 3 | H | 120/277 | Compatible |
| MAXLITE | MLEU324HE/SC | INSTANT START | 3 | N | 120/277 | Compatible |
| MAXLITE | MLEU324HE/SC | INSTANT START | 4 | N | 120/277 | Compatible |
| MAXLITE | SKEU322HEL/SC | INSTANT START | 1 | L | 120/277 | Compatible |
| MAXLITE | SKEU322HEL/SC | INSTANT START | 2 | L | 120/277 | Compatible |
| MAXLITE | SKEU323L/SC | INSTANT START | 2 | L | 120/277 | Compatible |
| MAXLITE | SKEU323L/SC | INSTANT START | 3 | L | 120/277 | Compatible |
| MAXLITE | SKEU324HE/SC | INSTANT START | 3 | N | 120/277 | Compatible |
| MAXLITE | SKEU324HE/SC | INSTANT START | 4 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISH-SC | INSTANT START | 1 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISL-SC | INSTANT START | 1 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 1X32T8/UNV ISN-SC | INSTANT START | 1 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH HT-SC | INSTANT START | 1 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH HT-SC | INSTANT START | 2 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH-SC | INSTANT START | 1 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISH-SC | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISL-SC | INSTANT START | 1 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISL-SC | INSTANT START | 2 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISN-SC | INSTANT START | 1 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 2X32T8/UNV ISN-SC | INSTANT START | 2 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-SC | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-SC | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-HT-SC | INSTANT START | 2 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISH-HT-SC | INSTANT START | 3 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISL-SC | INSTANT START | 2 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISL-SC | INSTANT START | 3 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISN-SC | INSTANT START | 2 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 3X32T8/UNV ISN-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH HT-1 | INSTANT START | 3 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH HT-1 | INSTANT START | 4 | H | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH-SC | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 4x32T8/UNV ISH-SC | INSTANT START | 4 | H | 120/277 | NOT Compatible |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISL-SC | INSTANT START | 3 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISL-SC | INSTANT START | 4 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISN-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QHE 4X32T8/UNV ISN-SC | INSTANT START | 4 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QT 2X32/347 ISH-SC | INSTANT START | 1 | H | 120 | Compatible |
| OSRAM SYLVANIA | QT 2X32/347 ISH-SC | INSTANT START | 2 | H | 120 | Compatible |
| OSRAM SYLVANIA | QT 2X32/120 IS-SC | INSTANT START | 1 | N | 120 | Compatible |
| OSRAM SYLVANIA | QT 2X32/120 IS-SC | INSTANT START | 2 | N | 120 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|---------------------|-----------------------|-----------------|----------------------|----------------|---------|----------------|
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISL-SC | INSTANT START | 1 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISL-SC | INSTANT START | 2 | L | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISN-SC | INSTANT START | 1 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 2X32T8/UNV ISN-SC | INSTANT START | 2 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 3X32T8/UNV ISN-SC | INSTANT START | 2 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 3X32T8/UNV ISN-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 4x32T8/UNV ISN-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP 4x32T8/UNV ISN-SC | INSTANT START | 4 | N | 120/277 | Compatible |
| OSRAM SYLVANIA | QTP2x32T8/277 ISN-D | INSTANT START | 1 | L | 277 | NOT Compatible |
| OSRAM SYLVANIA | QTP2x32T8/277 ISN-D | INSTANT START | 2 | L | 277 | NOT Compatible |
| PACIFIC FLUORESCENT | EB-232IS-120-RES | INSTANT START | 1 | N | 120 | Compatible |
| PACIFIC FLUORESCENT | EB-232IS-120-RES | INSTANT START | 2 | N | 120 | Compatible |
| PHILIPS-ADVANCE | ICN-132-MC | INSTANT START | 1 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-1P32-N | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | ICN-2P16-TLED-N | INSTANT START | 1 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-2P16-TLED-N | INSTANT START | 2 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-2P32-N | INSTANT START | 1 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-2P32-N | INSTANT START | 2 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-3P32-N | INSTANT START | 2 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | ICN-3P32-N | INSTANT START | 3 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | ICN-4P16-TLED-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-4P16-TLED-N | INSTANT START | 4 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-4P32-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | ICN-4P32-N | INSTANT START | 4 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-1P32-N | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-2P32HL-SC | INSTANT START | 1 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-2P32HL-SC | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-2P32-LW-N | INSTANT START | 1 | L | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-2P32-LW-N | INSTANT START | 2 | L | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-2P32-N | INSTANT START | 1 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-2P32-N | INSTANT START | 2 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-3P32HL-90C-SC | INSTANT START | 2 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-3P32HL-90C-SC | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-3P32-N | INSTANT START | 2 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-3P32-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-HL-SC | INSTANT START | 3 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-4P32-HL-SC | INSTANT START | 4 | H | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOP-4P32-LW-N | INSTANT START | 3 | L | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-LW-N | INSTANT START | 4 | L | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-N | INSTANT START | 4 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOP-4P32-SC | INSTANT START | 4 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOPA-1P32-N | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOPA-2P32-HL-N | INSTANT START | 1 | H | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-2P32-HL-N | INSTANT START | 2 | H | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-3P32-LW-N | INSTANT START | 2 | L | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOPA-3P32-LW-N | INSTANT START | 3 | L | 120/277 | NOT Compatible |
| PHILIPS-ADVANCE | IOPA-3P32-N | INSTANT START | 2 | N | 120/277 | Compatible |



Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|-----------------|-----------------|-----------------|----------------------|----------------|---------|----------------|
| PHILIPS-ADVANCE | IOPA-3P32-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-HL-SC | INSTANT START | 3 | H | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-HL-SC | INSTANT START | 4 | H | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-N | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-N | INSTANT START | 4 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-SC | INSTANT START | 3 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | IOPA-4P32-SC | INSTANT START | 4 | N | 120/277 | Compatible |
| PHILIPS-ADVANCE | REB-2P32-SC | INSTANT START | 1 | N | 120 | NOT Compatible |
| PHILIPS-ADVANCE | REB-2P32-SC | INSTANT START | 2 | N | 120 | Compatible |
| PHILIPS-ADVANCE | REB-4P32-SC | INSTANT START | 3 | N | 120 | Compatible |
| PHILIPS-ADVANCE | REB-4P32-SC | INSTANT START | 4 | N | 120 | Compatible |
| PHILIPS-ADVANCE | VEL-2P32-RH-TP | INSTANT START | 1 | N | 277 | Compatible |
| PHILIPS-ADVANCE | VEL-2P32-RH-TP | INSTANT START | 2 | N | 277 | Compatible |
| PHILIPS-ADVANCE | VEL-2P32-SC | INSTANT START | 1 | N | 277 | NOT Compatible |
| PHILIPS-ADVANCE | VEL-2P32-SC | INSTANT START | 2 | N | 277 | NOT Compatible |
| PLUSRITE | BAF232IS/MV | INSTANT START | 1 | N | 120/277 | Compatible |
| PLUSRITE | BAF232IS/MV | INSTANT START | 2 | N | 120/277 | Compatible |
| PLUSRITE | BAF232IS/MV/L | INSTANT START | 1 | L | 120/277 | Compatible |
| PLUSRITE | BAF232IS/MV/L | INSTANT START | 2 | L | 120/277 | Compatible |
| PLUSRITE | BAF332IS/MV | INSTANT START | 2 | N | 120/277 | Compatible |
| PLUSRITE | BAF332IS/MV | INSTANT START | 3 | N | 120/277 | Compatible |
| PLUSRITE | BAF332IS/MV/L | INSTANT START | 2 | L | 120/277 | Compatible |
| PLUSRITE | BAF332IS/MV/L | INSTANT START | 3 | L | 120/277 | Compatible |
| PLUSRITE | BAF432IS/MV | INSTANT START | 3 | N | 120/277 | Compatible |
| PLUSRITE | BAF432IS/MV | INSTANT START | 4 | N | 120/277 | Compatible |
| PLUSRITE | BAF432IS/MV/L | INSTANT START | 3 | L | 120/277 | Compatible |
| PLUSRITE | BAF432IS/MV/L | INSTANT START | 4 | L | 120/277 | Compatible |
| PROLUME | EP232IS/L/MV/SL | INSTANT START | 1 | L | 120/277 | Compatible |
| PROLUME | EP232IS/L/MV/SL | INSTANT START | 2 | L | 120/277 | Compatible |
| PROLUME | E432IS/120/R/SL | INSTANT START | 3 | N | 120 | Compatible |
| PROLUME | E432IS/120/R/SL | INSTANT START | 4 | N | 120 | Compatible |
| SOLA | E-758-U-232-MC | INSTANT START | 1 | N | 120/277 | Compatible |
| SOLA | E-758-U-232-MC | INSTANT START | 2 | N | 120/277 | Compatible |
| SUNPARK | 120-1/32IS HPF | INSTANT START | 1 | N | 120 | Compatible |
| SUNPARK | 120-3/32IS MPF | INSTANT START | 2 | N | 120 | Compatible |
| SUNPARK | 120-3/32IS MPF | INSTANT START | 3 | N | 120 | Compatible |
| SUNPARK | U-2/32IS HBF | INSTANT START | 1 | H | 120/277 | Compatible |
| SUNPARK | U-2/32IS HBF | INSTANT START | 2 | H | 120/277 | Compatible |
| SUNPARK | U-2/32ISE-LBF | INSTANT START | 1 | L | 120/277 | Compatible |
| SUNPARK | U-2/32ISE-LBF | INSTANT START | 2 | L | 120/277 | Compatible |
| SUNPARK | U-3/32ISE | INSTANT START | 2 | N | 120/277 | Compatible |
| SUNPARK | U-3/32ISE | INSTANT START | 3 | N | 120/277 | Compatible |
| SUNPARK | U-3/32ISE-HBF | INSTANT START | 2 | H | 120/277 | Compatible |
| SUNPARK | U-3/32ISE-HBF | INSTANT START | 3 | H | 120/277 | Compatible |
| SUNPARK | U-4/32IS HBF | INSTANT START | 3 | H | 120/277 | Compatible |
| SUNPARK | U-4/32IS HBF | INSTANT START | 4 | H | 120/277 | Compatible |
| SUNPARK | U-4/32IS HP,F | INSTANT START | 3 | N | 120/277 | Compatible |
| SUNPARK | U-4/32IS HP,F | INSTANT START | 4 | N | 120/277 | Compatible |
| SUNPARK | U-4/32ISE-LBF | INSTANT START | 3 | L | 120/277 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|---------------------------------|-----------------------|-----------------|----------------------|----------------|---------|----------------|
| SUNPARK | U-4/32ISE-LBF | INSTANT START | 4 | L | 120/277 | Compatible |
| SUPERIOR LIFE | 70201 | INSTANT START | 1 | N | 120/277 | NOT Compatible |
| SUPERIOR LIFE | 70201 | INSTANT START | 2 | N | 120/277 | Compatible |
| TCP | E2P32ISUNVHE | INSTANT START | 1 | H | 120/277 | NOT Compatible |
| TCP | E2P32ISUNVHE | INSTANT START | 2 | H | 120/277 | Compatible |
| TCP | E3P32ISUNVE | INSTANT START | 2 | N | 120/277 | Compatible |
| TCP | E3P32ISUNVE | INSTANT START | 3 | N | 120/277 | Compatible |
| TCP | E3P32ISUNVLE | INSTANT START | 2 | L | 120/277 | Compatible |
| TCP | E3P32ISUNVLE | INSTANT START | 3 | L | 120/277 | Compatible |
| TCP | E4P32ISUNVE | INSTANT START | 3 | N | 120/277 | Compatible |
| TCP | E4P32ISUNVE | INSTANT START | 4 | N | 120/277 | Compatible |
| TCP | E4P32ISUNVLE | INSTANT START | 3 | L | 120/277 | NOT Compatible |
| TCP | E4P32ISUNVLE | INSTANT START | 4 | L | 120/277 | Compatible |
| TCP | TCP3P32ISUNVH | INSTANT START | 2 | H | 120/277 | Compatible |
| TCP | TCP3P32ISUNVH | INSTANT START | 3 | H | 120/277 | Compatible |
| TOPAZ | B232IUNVHEH/A-TPZ | INSTANT START | 1 | H | 120/277 | Compatible |
| TOPAZ | B232IUNVHEH/A-TPZ | INSTANT START | 2 | H | 120/277 | Compatible |
| TOPAZ | B432IUNVHEH/A-TPZ | INSTANT START | 3 | H | 120/277 | Compatible |
| TOPAZ | B432IUNVHEH/A-TPZ | INSTANT START | 4 | H | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B132IUNVHP-N | INSTANT START | 1 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232I120RES-A | INSTANT START | 1 | N | 120 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232I120RES-A | INSTANT START | 2 | N | 120 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232I277RH-A | INSTANT START | 1 | H | 277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232I277RH-A | INSTANT START | 2 | H | 277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNV-C | INSTANT START | 1 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNV-C | INSTANT START | 2 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVEL-A | INSTANT START | 1 | L | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVEL-A | INSTANT START | 2 | L | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVHP-B | INSTANT START | 1 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVHP-B | INSTANT START | 2 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVHP-N | INSTANT START | 1 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B232IUNVHP-N | INSTANT START | 2 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B233IUNVHE-A | INSTANT START | 1 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B233IUNVHE-A | INSTANT START | 2 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B332IUNVHP-A | INSTANT START | 2 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B332IUNVHP-A | INSTANT START | 3 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHE-A | INSTANT START | 3 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHE-A | INSTANT START | 4 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHEH-E | INSTANT START | 3 | H | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHEH-E | INSTANT START | 4 | H | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHE L-A | INSTANT START | 3 | L | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHE L-A | INSTANT START | 4 | L | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHP-A | INSTANT START | 3 | N | 120/277 | Compatible |
| UNIVERSAL LIGHTING TECHNOLOGIES | B432IUNVHP-A | INSTANT START | 4 | N | 120/277 | Compatible |
| WATRAN | DB-232N-MV-TP-HE | INSTANT START | 1 | N | 120/277 | Compatible |
| WATRAN | DB-232N-MV-TP-HE | INSTANT START | 2 | N | 120/277 | Compatible |
| WATRAN | DB-232N-MV-TP-HE (SC) | INSTANT START | 1 | N | 120/277 | Compatible |
| WATRAN | DB-232N-MV-TP-HE (SC) | INSTANT START | 2 | N | 120/277 | Compatible |
| WATRAN | DB-332N-MV-TP-HE | INSTANT START | 2 | N | 120/277 | Compatible |

Ballast Compatibility



| Ballast Brand | Ballast Model # | Starting Method | # of Lamps Installed | Ballast Factor | Voltage | Status |
|---------------|------------------|-----------------|----------------------|----------------|---------|------------|
| WATRAN | DB-332N-MV-TP-HE | INSTANT START | 3 | N | 120/277 | Compatible |
| WATRAN | DB-432L-MV-TP-HE | INSTANT START | 3 | L | 120/277 | Compatible |
| WATRAN | DB-432L-MV-TP-HE | INSTANT START | 4 | L | 120/277 | Compatible |
| WATRAN | DB-432N-MV-TP-HE | INSTANT START | 3 | N | 120/277 | Compatible |
| WATRAN | DB-432N-MV-TP-HE | INSTANT START | 4 | N | 120/277 | Compatible |
| WORK HORSE | WHS3-UNV-T8-IS | INSTANT START | 2 | N | 120/277 | Compatible |
| WORK HORSE | WHS3-UNV-T8-IS | INSTANT START | 3 | N | 120/277 | Compatible |
| WORK HORSE | WHS4-UNV-T8-IS | INSTANT START | 3 | N | 120/277 | Compatible |
| WORK HORSE | WHS4-UNV-T8-IS | INSTANT START | 4 | N | 120/277 | Compatible |

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