

## LED T8 - LINEAR REPLACEMENT LAMP

### DIRECTFIT COATED GLASS

### UL TYPE-A



Intertek



### PRODUCT DESCRIPTION:

MaxLite DirectFit LED T8 lamp is the ideal plug and play solution that works straight out of the box. Designed to deliver between 1700- 1800 lumens, these energy-saving LED lamps are quick, easy and safe to install into existing linear fluorescent fixtures without any extra effort or re-wiring. MaxLite DirectFit LED T8 lamps utilize the existing T8 instant-start electronic ballasts, thus minimizing maintenance and labor costs. Tested to NSF Standards, these lamps carry the **ETL Sanitation Mark** and are suitable for use in an environment where food intended for human consumption is produced.

### FEATURES:

- Wattage: 9.5W (Bare Lamp)
- Lumens: 1700-1800
- Input Voltage: 120-347 VAC, determined by fluorescent ballast
- Compatible with most electronic instant-start and programmed rapid start T8 ballasts, emergency ballast, and dimming ballasts
- 330° beam angle
- Color Rendering Index (CRI): ≥82
- 50,000 hour life (L70 standards)
- THD: <20%
- UV Free
- Power Factor: 0.90 nominal
- Dimmable (ballast dependent)
- Suitable for use in dry locations
- Suitable for damp locations
- Suitable for use in totally enclosed recessed fixture
- Not for use with T12 magnetic or electronic ballasts
- Not for use with T8 magnetic or HO ballasts
- Not for use or to be wired to "mains voltage"

### WARRANTY:

5-year standard warranty

(further details available at [www.maxlite.com/warranties](http://www.maxlite.com/warranties))

Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.

| 4FT MODEL SELECTION (Full list of order codes on pg. 3) |             | Typical order example: L9.5T8DF450-CG |         |                                                                                                             |
|---------------------------------------------------------|-------------|---------------------------------------|---------|-------------------------------------------------------------------------------------------------------------|
| L9.5                                                    | T8          | DF                                    | 4       |                                                                                                             |
| FAMILY                                                  | LAMP TYPE   | OPERATION                             | LENGTH  | CCT                                                                                                         |
| L9.5= LED Linear, 9.5W                                  | T8= T8 tube | DF= Direct Fit                        | 4= 4 FT | <b>35-CG=</b> 3500K, Coated Glass<br><b>40-CG=</b> 4000K, Coated Glass<br><b>50-CG=</b> 5000K, Coated Glass |

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## SPECIFICATIONS:

|                     |                         | L9.5T8DF4xx-CG                   |       |       |
|---------------------|-------------------------|----------------------------------|-------|-------|
| ITEM                | SPECIFICATION           | 4FT - DETAILS                    |       |       |
| GENERAL PERFORMANCE | Bare Lamp Wattage (W)   | 9.5W                             |       |       |
|                     | Lumens Delivered* (lm)  | 1700                             | 1700  | 1800  |
|                     | Color Temperature (CCT) | 3500K                            | 4000K | 5000K |
|                     | Efficacy (lm/W)         | 131                              | 138   | 138   |
|                     | CRI                     | 82                               |       |       |
|                     | Beam Angle              | 330°                             |       |       |
|                     | Lumen Maintenance (L70) | 50,000 hours                     |       |       |
| ELECTRICAL          | Power Factor            | ≥ 0.90                           |       |       |
|                     | Input Voltage           | 120-347V, ballast dependent      |       |       |
| PHYSICAL            | Operating Temperature   | -4°F to 113°F                    |       |       |
| CERTIFICATION       | Certification           | UL Listed, ETL Sanitation Listed |       |       |
|                     | Material Usage          | RoHS compliant, no mercury       |       |       |
|                     | Environment             | Dry, Damp                        |       |       |
|                     | Warranty                | 5 year warranty                  |       |       |
| QUALIFICATION       | DesignLight Consortium  | DLC 4.3                          |       |       |

\* Operating with normal ballast factor (.88) ballast

## WATTS & LUMENS\*:

|            |                |       |          | AVERAGE SYSTEM WATTS |             |                |               | INITIAL LUMENS |                |               |
|------------|----------------|-------|----------|----------------------|-------------|----------------|---------------|----------------|----------------|---------------|
| ORDER CODE | MODEL          | CCT   | CASE QTY | BARE LAMP WATTAGE    | LOW BF= .78 | NORMAL BF= .88 | HIGH BF= 1.18 | LOW BF= .78    | NORMAL BF= .88 | HIGH BF= 1.18 |
| 4FT T8     |                |       |          |                      |             |                |               |                |                |               |
| 14099192   | L9.5T8DF435-CG | 3500K | 25       | 9.5                  | 10.5        | 13             | 18            | 1400           | 1700           | 2000          |
| 14099190   | L9.5T8DF440-CG | 4000K |          | 9.5                  | 10.5        | 13             | 18            | 1500           | 1800           | 2100          |
| 14091991   | L9.5T8DF450-CG | 5000K |          | 9.5                  | 10.5        | 13             | 18            | 1500           | 1800           | 2100          |

\* Lumens and watts will vary by ballast and fixture

## COMPATIBLE BALLASTS - INSTANT START 120-277V:

| MANUFACTURER | MODEL              | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|--------------|--------------------|----------------|------------|---------------|
| ARCATA       | ACT2P32ISUNV       | Normal         | 2          | GOOD          |
|              | ACT4P32ISUNV       | Normal         | 4          | GOOD          |
| ACCUPRO      | AP-RC-232IP-120-1  | Normal         | 2          | GOOD          |
|              | A3-RC-232IP-120-1  | Normal         | 2          | GOOD          |
| DAMAR        | 1688A              | Normal         | 2          | GOOD          |
| EIKO         | PM 2x32T8-UNV-IS-L | Normal         | 2          | GOOD          |
| ESPEN        | VE232MVHIP         | Normal         | 2          | GOOD          |
|              | VE232MVHIPE        | Normal         | 2          | GOOD          |
|              | VE232MVHIPHE       | High           | 2          | GOOD          |
|              | VE232MVHIPL        | Low            | 2          | GOOD          |
|              | VE432MVHIP         | Normal         | 4          | GOOD          |
|              | VE432MVHIPE        | Normal         | 4          | GOOD          |
|              | VE432MVHIPHE       | High           | 4          | GOOD          |
| FULHAM       | NPY-120-432-T8B    | N/A            | 4          | GOOD          |
|              | NPY-120-432-T8-IS  | N/A            | 4          | GOOD          |
|              | WHCG3-120-T8-IS    | Normal         | 3          | GOOD          |
|              | WH2-120-L          | Normal         | 1          | GOOD          |
|              | WH5-120-L          | Normal         | 4          | GOOD          |
| FUSION       | FB232MVE           | N/A            | 2          | GOOD          |
|              | FB232MVE-HE        | N/A            | 2          | GOOD          |
|              | FB232MVE-LHE       | N/A            | 2          | GOOD          |
|              | FB332MVE           | N/A            | 3          | GOOD          |
|              | FB432MVE           | N/A            | 4          | GOOD          |
|              | FB432MVE-HE        | N/A            | 4          | GOOD          |

Please contact MaxLite for questions about third party ballasts that are not on this list.

## COMPATIBLE BALLASTS - INSTANT START 120-277V (CONTINUED):

| MANUFACTURER | MODEL              | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|--------------|--------------------|----------------|------------|---------------|
| GE           | GE132MAXP-N/ULTRA  | Normal         | 1          | GOOD          |
|              | GE 232-120RES-DIYB | Normal         | 2          | GOOD          |
|              | GE232MAX-G-N       | Normal         | 2          | GOOD          |
|              | GE232MAXP-L/ULTRA  | Low            | 2          | GOOD          |
|              | GE232MAXP-N/ULTRA  | Normal         | 2          | GOOD          |
|              | GE232MAXP-H/ULTRA  | High           | 2          | GOOD          |
|              | GE232-MV-N         | Normal         | 2          | GOOD          |
|              | GE332MAX-L/ULTRA   | Low            | 3          | GOOD          |
|              | GE332MAX90-V60     | High           | 3          | GOOD          |
|              | GE332MV-N-DIY      | Normal         | 3          | GOOD          |
|              | GE432MAX-G-N       | Normal         | 4          | GOOD          |
|              | GE432MAX-H/ULTRA   | High           | 4          | GOOD          |
|              | GE432MAX-H-42T     | High           | 4          | GOOD          |
| GREENHILL    | GH2P59ISUNV        | N/A            | 2          | GOOD          |
|              | GH4P32ISUNV        | N/A            | 4          | GOOD          |
| HALCO        | EP232IS/H/MV/HE    | High           | 2          | GOOD          |
|              | EP332IS/L/MV/HE    | Low            | 3          | GOOD          |
|              | EP332IS/MV/MC      | High           | 3          | GOOD          |
|              | EP432IS/L/MV/HE    | Low            | 4          | GOOD          |
|              | EP432IS/MV/MC      | N/A            | 4          | GOOD          |
| HOWARD       | EP3/32IS/MV/SC/HE  | Low            | 3          | GOOD          |
|              | EP4/32IS/MV/MC/HE  | Normal         | 4          | GOOD          |
| HUAFENG      | ENI-T8-32-P2SC-N   | N/A            | 2          | GOOD          |
|              | ENI-T8-32-P4MC-N   | N/A            | 4          | GOOD          |
| KEYSTONE     | KTEB-232-UV-IS-N-P | Normal         | 2          | GOOD          |
|              | KTEB-332-UV-IS-N-P | High           | 3          | GOOD          |
|              | KTEB-432-UV-IS-N-P | Normal         | 4          | GOOD          |

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## COMPATIBLE BALLASTS - INSTANT START 120-277V (CONTINUED):

| MANUFACTURER    | MODEL                 | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|-----------------|-----------------------|----------------|------------|---------------|
| MAXLITE         | MLEU322HE/SC          | Normal         | 2          | GOOD          |
|                 | MLEU322HEH/SC         | High           | 2          | GOOD          |
|                 | MLEU322HEL/SC         | Low            | 2          | GOOD          |
|                 | SKEU322H/SC           | High           | 2          | GOOD          |
|                 | SKEU322HEH/SC         | High           | 2          | GOOD          |
|                 | SKEU324L/SC           | Low            | 4          | GOOD          |
| OSRAM           | QHE 2x32T8/UNV ISL SC | Low            | 2          | GOOD          |
|                 | QTP 2x32T8/UNV ISN-SC | Normal         | 2          | GOOD          |
|                 | QTP 4x32T8/UNV ISN-SC | Normal         | 4          | GOOD          |
| PACIFIC         | EB-332IS-U            | Normal         | 3          | GOOD          |
|                 | EB-432IS-U            | Normal         | 4          | GOOD          |
| PHILIPS ADVANCE | ICN-1P32-N            | Normal         | 1          | GOOD          |
|                 | ICN-2P32-N            | Normal         | 2          | GOOD          |
|                 | ICN-2P32-SC           | Normal         | 2          | GOOD          |
|                 | GOPA-2P32-SC          | Normal         | 2          | GOOD          |
|                 | ICN-2M32-MC           | Normal         | 2          | GOOD          |
|                 | ICN-2P32-N            | Normal         | 2          | GOOD          |
|                 | IOPA-1P32-N           | Normal         | 1          | GOOD          |
|                 | IOPA-2P32-N           | Normal         | 2          | GOOD          |
|                 | IOPA-1P32-LW-N        | Low            | 1          | GOOD          |
|                 | IOPA-2P32-LW-N        | Low            | 2          | GOOD          |
|                 | IOPA-4P32-LW-N        | Low            | 4          | GOOD          |
|                 | REB-2P32-SC           | Normal         | 2          | GOOD          |
|                 | REL-2P32-SC           | Normal         | 2          | GOOD          |
|                 | REL-4P32-RH-TP        | Normal         | 4          | GOOD          |
|                 | ICN-4P32-N            | Normal         | 4          | GOOD          |
|                 | ICN-4P32-SC           | Normal         | 4          | GOOD          |
|                 | IOP-4P32-LW-N         | Low            | 4          | GOOD          |
|                 | VEL-1P32-SC           | Normal         | 1          | GOOD          |
| PLUSRITE        | BAF232IS/MV/H         | N/A            | 2          | GOOD          |
| PREMIUM         | BB-T8/UVH-2x32        | Normal         | 2          | GOOD          |
|                 | BB-T8/UVH-3x32        | N/A            | 3          | GOOD          |
| PQL             | 70201                 | N/A            | 2          | GOOD          |
|                 | 70204                 | N/A            | 4          | GOOD          |

Please contact MaxLite for questions about third party ballasts that are not on this list.

**COMPATIBLE BALLASTS - INSTANT START 120-277V (CONTINUED):**

| MANUFACTURER    | MODEL                 | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|-----------------|-----------------------|----------------|------------|---------------|
| STANDARD        | E232T8IS120/H/90C     | High           | 2          | GOOD          |
|                 | E232T8IS120/L/AS      | Low            | 2          | GOOD          |
|                 | E232T8IS120/N/AS      | Normal         | 2          | GOOD          |
|                 | E232T8IS347/H/90C     | High           | 2          | GOOD          |
|                 | E232T8IS347/L/BULK    | Low            | 2          | GOOD          |
|                 | E232T8IS347/N/BULK    | Normal         | 2          | GOOD          |
|                 | EP232PI120L           | Low            | 2          | GOOD          |
|                 | EP232T8IS120/N/AS     | Normal         | 2          | GOOD          |
|                 | E432T8IS120/H         | High           | 4          | GOOD          |
|                 | E432T8IS120/L/AS/BULK | Low            | 4          | GOOD          |
|                 | E432T8IS120/N/AS/BULK | Normal         | 4          | GOOD          |
|                 | E432T8IS347/L/BULK    | Low            | 4          | GOOD          |
|                 | E432T8IS347/N/BULK    | Normal         | 4          | GOOD          |
| SUNPARK         | U-2/32IS HBF          | High           | 2          | GOOD          |
|                 | U-2/32ISE             | Normal         | 2          | GOOD          |
|                 | U-2/32ISE HBF         | High           | 2          | GOOD          |
|                 | U-2/32ISE LBF         | Low            | 2          | GOOD          |
|                 | U-3/32IS              | Normal         | 3          | GOOD          |
|                 | U-3/32IS HBF          | High           | 3          | GOOD          |
|                 | U-3/32ISE             | Normal         | 3          | GOOD          |
|                 | U-3/32ISE HBF         | High           | 3          | GOOD          |
|                 | U-3/32ISE LBF         | Low            | 3          | GOOD          |
|                 | U-4/32IS              | Normal         | 4          | GOOD          |
|                 | U-4/32IS HBF          | High           | 4          | GOOD          |
|                 | U-4/32ISE             | Normal         | 4          | GOOD          |
|                 | U-4/32ISE LBF         | Low            | 4          | GOOD          |
|                 | U-2/32IS              | Normal         | 2          | GOOD          |
| SYLVANIA        | QHE 2x32T8/UNV ISN-SC | Normal         | 2          | GOOD          |
|                 | QHE 3x32T8/UNV ISH-SC | High           | 3          | GOOD          |
|                 | QHE 3x32T8/UNV ISL-SC | Low            | 3          | GOOD          |
|                 | QHE 3x32T8/UNV ISN-SC | Normal         | 3          | GOOD          |
|                 | QHE 4x32T8/UNV ISL-SC | Low            | 4          | GOOD          |
|                 | QTP 4x32T8/UNV ISN-SC | Normal         | 4          | GOOD          |
| TCP             | E3P32ISUNVE           | Normal         | 3          | GOOD          |
| UNIVERSAL TRIAD | B232IUNV-C            | Normal         | 2          | GOOD          |
|                 | B232IUNVHP-N          | Normal         | 2          | GOOD          |
|                 | B332IUNVHP-A          | Normal         | 3          | GOOD          |
|                 | B432IUNVHP-A          | Normal         | 4          | GOOD          |

Please contact MaxLite for questions about third party ballasts that are not on this list.

## COMPATIBLE BALLASTS - INSTANT START 347-480V:

| MANUFACTURER | MODEL                  | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|--------------|------------------------|----------------|------------|---------------|
| ARCATA       | ACT2P32IS347           | Normal         | 2          | GOOD          |
|              | ACT4P32IS347           | Normal         | 4          | GOOD          |
| ADVANCE      | GOPA-2P32-LW-SC        | Low            | 2          | GOOD          |
|              | GOPA-4P32-LW-SC        | Low            | 4          | GOOD          |
|              | GOPA-4P32-SC           | Normal         | 4          | GOOD          |
| Fusion       | FB232347E-HE           | N/A            | 2          | GOOD          |
|              | FB232347E-L            | N/A            | 2          | GOOD          |
|              | FB432347E-HE           | N/A            | 4          | GOOD          |
|              | FB432347E-L            | N/A            | 4          | GOOD          |
| GE           | GE232MAX347-H          | High           | 2          | GOOD          |
|              | GE332MAX347-H          | High           | 3          | GOOD          |
|              | GE432MAX347-H          | High           | 4          | GOOD          |
| OSRAM        | QHE 2x32 T8/347 ISL-SC | Low            | 2          | GOOD          |
|              | QHE 2x32 T8/347 ISN-SC | Normal         | 2          | GOOD          |
| STANDARD     | E232T8IS347/H/90C      | N/A            | 2          | GOOD          |
|              | E232T8IS347/L/BULK     | N/A            | 2          | GOOD          |
|              | E232T8IS347/N/BULK     | N/A            | 2          | GOOD          |
|              | E432PI347G01           | N/A            | 4          | GOOD          |
|              | E432T8IS347/L/BULK     | N/A            | 4          | GOOD          |
|              | E432T8IS347/N          | N/A            | 4          | GOOD          |
|              | E432T8IS347/N/BULK     | N/A            | 4          | GOOD          |
|              | E432T8IS347/H/90C      | N/A            | 4          | GOOD          |
| ULTRASAVE    | MR232347               | N/A            | 2          | GOOD          |
| UNIVERSAL    | B232I347HE-A           | Normal         | 2          | GOOD          |
|              | B432I347HE-A           | N/A            | 4          | GOOD          |

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## COMPATIBLE BALLASTS - PROGRAM/RAPID START120-277V:

| MANUFACTURER    | MODEL                  | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|-----------------|------------------------|----------------|------------|---------------|
| FULHAM          | NPY-120-232-LT8        | Normal         | 2          | GOOD          |
|                 | WHCG5-120-T12-RS       | Normal         | 2          | GOOD          |
| FUSION          | FB232MVE-PPS-HE        | N/A            | 2          | GOOD          |
|                 | FB432MVE-PPS-HE        | N/A            | 4          | GOOD          |
| GE              | GE232-MVPS-L           | Low            | 2          | GOOD          |
|                 | GE232-MVPS-N           | Normal         | 2          | GOOD          |
|                 | GE232-MVPS-H           | High           | 2          | GOOD          |
|                 | GE-232-120-PS-N        | Normal         | 2          | GOOD          |
|                 | GE-232-MV-PS-H         | High           | 2          | GOOD          |
|                 | GE-232-MV-PS-L         | Low            | 2          | GOOD          |
| KEYSTONE        | KTEB-232-UV-PS-VDIM*   | High           | 2          | GOOD          |
| OSRAM           | QHE 2x32T8/UNV DIM-TC* | Normal         | 2          | GOOD          |
|                 | QTP 3x32T8/UNV PSX-SC  | Low            | 3          | GOOD          |
|                 | QHE 4x32T8/UNV PSN-SC  | Normal         | 4          | GOOD          |
| ROBERTSON       | RSW240T12120           | N/A            | 2          | GOOD          |
| SUNPARK         | SL15T                  | Normal         | 2          | GOOD          |
| TCP             | E4P32PSUNVE            | Normal         | 4          | GOOD          |
| PHILIPS ADVANCE | ICN-2S40-N             | Normal         | 2          | GOOD          |
|                 | RCN-2S32-SC            | Normal         | 2          | GOOD          |
|                 | RELB-2S40-N            | Normal         | 2          | GOOD          |
|                 | REZ-2S32-SC*           | Normal         | 2          | GOOD          |
| SYLVANIA        | QTP 2x32T8/UNV DIM-TC* | Normal         | 2          | GOOD          |
|                 | QHE 2x32T8/UNV PSX-MC* | Normal         | 2          | GOOD          |
| UNIVERSAL TRIAD | B232PUNVHE-B*          | Normal         | 2          | GOOD          |
|                 | B232PUSV3PLA           | N/A            | 2          | GOOD          |
|                 | B232SR120S30*          | N/A            | 2          | GOOD          |

\*Dimmable ballast

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## COMPATIBLE BALLASTS - PROGRAM/RAPID START 347-480V:

| MANUFACTURER | MODEL            | BALLAST FACTOR | # OF LAMPS | COMPATIBILITY |
|--------------|------------------|----------------|------------|---------------|
| FUSION       | FB232347E-PPS-HE | N/A            | 2          | GOOD          |
|              | FB432347E-PPS-HE | N/A            | 4          | GOOD          |

## COMPATIBLE EMERGENCY BALLASTS:

| MANUFACTURER | MODEL    |
|--------------|----------|
| IOTA         | ISL-540  |
|              | ISL-54   |
|              | I-320    |
|              | ELI-S-20 |

| MANUFACTURER | MODEL           |
|--------------|-----------------|
| KEYSTONE     | KT-EMRG-500     |
|              | KT-EMRG-1400-SL |
|              | KT-EMRG-1300-T5 |

| MANUFACTURER   | MODEL    |
|----------------|----------|
| PHILIPS BODINE | B50      |
|                | ELI-S-20 |
|                | LP600    |
|                | B50ST    |