

**LED T8 - LINEAR REPLACEMENT LAMP**  
**DIRECTFIT COATED GLASS SERIES 4**  
**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 1800-2000 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 (Bare Lamp):
  - 9W 2FT, ≥ 1350 lumens
  - 14W 3FT, ≥ 1700 lumens
  - 13W 4FT, ≥1800 lumens
- Input Voltage: 120-347 VAC, determined by fluorescent ballast
- Compatible with most electronic instant-start and programmed rapid start T8 ballasts
- All glass construction with PET coating
- Products L9T8DF240-CG4, L9T8DF250-CG4, L13T8DF435-CG4, L13T8DF440-CG4 and L13T8DF450-CG4 are listed on the DLC QPL L9T8DF235-CG4
- 330° beam angle
- Color Rendering Index (CRI): ≥80
- 50,000 hour life (L70 standards)
- THD <20%
- UV Free
- Power Factor: 0.9 nominal
- Dimmable (ballast dependent)
- Five year standard warranty
- 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.

**2FT MODEL SELECTION** (Full list of order codes on pg. 3) Typical order example: L9T8DF240-CG4

L9	T8	DF	2	
FAMILY	LAMP TYPE	OPERATION	LENGTH	CCT
L9= LED Linear, 9W	T8= T8 tube	DF= Direct Fit	2= 2 FT	<b>35-CG4=</b> 3500K, Coated Glass <b>40-CG4=</b> 4000K, Coated Glass <b>50-CG4=</b> 5000K, Coated Glass

**3FT MODEL SELECTION** (Full list of order codes on pg. 3) Typical order example: L14T8DF350-CG4

L14	T8	DF	3	
FAMILY	LAMP TYPE	OPERATION	LENGTH	CCT
L14= LED Linear, 14W	T8= T8 tube	DF= Direct Fit	3= 3 FT	<b>35-CG4=</b> 3500K, Coated Glass <b>40-CG4=</b> 4000K, Coated Glass <b>50-CG4=</b> 5000K, Coated Glass

# LED T8 - LINEAR REPLACEMENT LAMP

## DIRECTFIT COATED GLASS SERIES 4

### UL TYPE-A

4FT MODEL SELECTION (Full list of order codes on pg. 3)			Typical order example: L13T8DF450-CG4	
L13	T8	DF	4	
FAMILY	LAMP TYPE	OPERATION	LENGTH	CCT
L13= LED Linear, 13W	T8= T8 tube	DF= Direct Fit	4= 4 FT	<b>35-CG4=</b> 3500K, Coated Glass <b>40-CG4=</b> 4000K, Coated Glass <b>50-CG4=</b> 5000K, Coated Glass

**NOTES:**

- L14T8DF3xx-CG4 are not qualified for DLC

**SPECIFICATIONS:**

ITEM	SPECIFICATION	L9T8DF2xx-CG4			L14T8DF3xx-CG4			L13T8DF4xx-CG4		
		2FT - DETAILS			3FT - DETAILS			4FT - DETAILS		
<b>GENERAL PERFORMANCE</b>	Bare Lamp Wattage (W)	9W	9W	9W	14W	14W	14W	13W	13W	13W
	Lumens Delivered* (lm)	1300	1350	1400	1700	1750	1800	1800	1900	2000
	Color Temperature (CCT)	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
	CRI	80	81	83	80			83		
	Beam Angle	330°								
	Lumen Maintenance (L70)	50,000 hours								
<b>ELECTRICAL</b>	Power Factor	≥ 0.9								
	Input Voltage	120-347V, ballast dependent								
<b>PHYSICAL</b>	Operating Temperature	-4°F to 113°F								
<b>CERTIFICATION</b>	Certification	DLC, UL Listed, ETL Sanitation Listed			UL Listed, ETL Sanitation Listed			DLC, UL Listed, ETL Sanitation Listed		
	Material Usage	RoHS compliant, no mercury								
	Environment	Dry, Damp								
	Warranty	5-year standard warranty								

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

**WATTS & LUMENS\*:**

MODEL	AVERAGE SYSTEM WATTS			INITIAL LUMENS			
	BARE LAMP WATTAGE	LOW BF= .78	NORMAL BF=.88	HIGH BF= 1.18	LOW BF= .78	NORMAL BF=.88	HIGH BF= 1.18
<b>2FT T8</b>							
L9T8DF235-CG4	9	10	12	17	1000	1300	1750
L9T8DF240-CG4	9	10	12	17	1100	1350	1850
L9T8DF250-CG4	9	10	12	17	1200	1400	1950
<b>3FT T8</b>							
L14T8DF335-CG4	14	15	17	20	1500	1700	2000
L14T8DF340-CG4	14	15	17	20	1550	1750	2050
L14T8DF350-CG4	14	15	17	20	1600	1800	2100
<b>4FT T8</b>							
L13T8DF435-CG4	13	14	16	22	1600	1800	2600
L13T8DF440-CG4	13	14	16	22	1650	1900	2650
L13T8DF450-CG4	13	14	16	22	1700	2000	2750

\* Lumens and watts will vary by ballast and fixture

**ORDERING:**

ITEM NUMBER	MODEL	WATTS (BARE LAMP)	LUMENS (NORMAL BF .88)	CCT
<b>2FT T8</b>				
103188	L9T8DF235-CG4	9W	1300	3500K
107769	L9T8DF240-CG4	9W	1350	4000K
107770	L9T8DF250-CG4	9W	1400	5000K
<b>3FT T8</b>				
107771	L14T8DF335-CG4	14W	1700	3500K
107772	L14T8DF340-CG4	14W	1750	4000K
107773	L14T8DF350-CG4	14W	1800	5000K
<b>4FT T8</b>				
107221	L13T8DF435-CG4	13W	1850	3500K
107222	L13T8DF440-CG4	13W	1900	4000K
107223	L13T8DF450-CG4	13W	2000	5000K

**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
	VE332MVHIPH	High	3	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
	WH3-120-L	Normal	3	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
	GE-232-120-N	Normal	2	GOOD
	GE232MAX-G-N	Normal	2	GOOD
	GE-232-MAX-H-42T	High	2	GOOD
	GE232MAXP-L/ULTRA	Low	2	GOOD
	GE232MAX-N/ULTRA	Normal	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	Normal	3	GOOD
	GE332MV-N-DIY	Normal	3	GOOD
	GE-432-120-N	Normal	4	GOOD
	GE-432-277-N	Normal	4	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
	ICN-3P32-N	Normal	3	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-3PSP32-LW-SC	Low	3	GOOD
	IOP-4P32-LW-N	Low	4	GOOD
	IOP-4PSP32-LW-SC	Low	4	GOOD
VEL-1P32-SC	Normal	1	GOOD	
PLUSRITE	BAF232IS/MV/H	N/A	2	GOOD
PREMIUM	BB-T8/UVH-2x32	N/A	2	GOOD
	BB-T8/UVH-3x32	N/A	3	GOOD
	BB-T8/UVH-2x32	Normal	2	GOOD
PQL	70201	N/A	2	GOOD
	70204	N/A	4	GOOD

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**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

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**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

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

**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