

PROJECT NAME:	CATALOG NUMBER:
NOTES:	_FIXTURE SCHEDULE:

Page:1 of 5

### **NEW T8 LED RETROFIT TUBE**

(Replace T8 Fluorescent Tube)
Patent Number: 201530468283.8















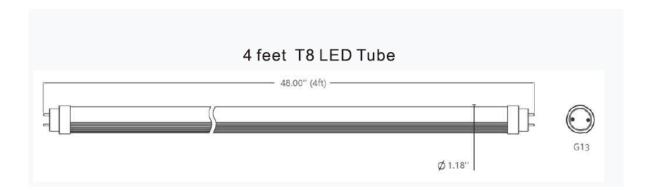
MODEL: CL-DN4T8LEDRT-22W

#### PRODUCT DESCRIPTION:

Lighting Direct, LP New T8 LED retrofit tube is the ideal plug and play solution that works straight out of the box. Designed to deliver over 2400 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. Lighting Direct, LP New T8 LED retrofit tube utilizes the existing T8 instant-start electronic ballasts, thus minimizing maintenance and labor costs.

- Input Power: 22W
- Input Voltage: 120-277 VAC, determined by fluorescent ballast
- Efficacy: 120 lm/W
- Compatible with most electronic instant-start T8 ballasts
- All Tube construction with 120° beam angle
- Color Rendering Index (CRI): ≥83
- 100.000 hour life
- THD <20%
- Power Factor: 0.9 nominal
- Dimmable (ballast dependent)
- 7 year limited warranty
- Suitable for use in dry 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"

DIMENSION:







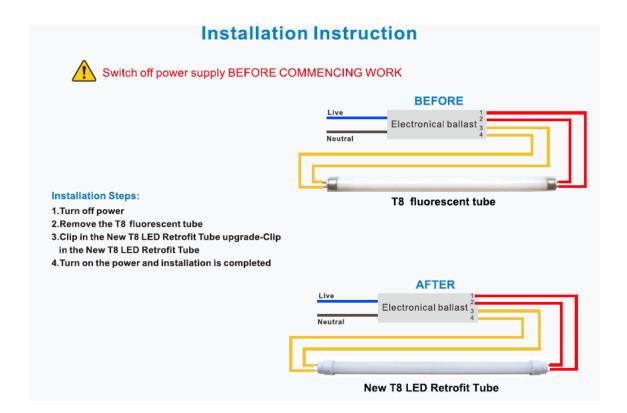
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Patent Number: 201530468283.8

Page:2 of 5

SPECIFICATIONS:		4 - FOOT	
ITEM	SPECIFICATION	DETAILS	
	Power Consumption	22 W	
	Lumens Delivered	2500	
	Efficacy	120 lm/W	
GENERAL PERFORMANCE	CRI	83	
	Beam Angle	120	
	Color Temperature (CCT)	4000K, 5000K	
	Lumen Maintenance (L70)	100,000 hours	
ELECTRICAL	Power Factor	0.9	
ELECTRICAL	Input Voltage	120-277 VAC	
PHYSICAL	Operating Temperature	-4°F to 113°F	
	Certification	ETL DLC (DLC for USA) FCC NSF	
CERTIFICATION	Material Usage	RoHS compliant, no mercury	
GENTIFICATION	Environment	Dry	
	Warranty	7 Years	



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Patent Number: 201530468283.8

Page:3 of 5

# Lighting Direct, LP - New LED T8 Retrofit Tube Compatible Ballasts List

Item	Manufacturer	Model	Туре	Item	Manufacturer	Model	Туре
1	Philips-Advance	ICN-1P32-N	Instant Start Ballast	44	Philips-Advance	IOP-4PSP32-HL-SC	Program Start Ballast
2	Philips-Advance	ICN-2P32-N	Instant Start Ballast	45	Philips-Advance	IOP-1PSP32-HL-SC	Program Start Ballast
3	Philips-Advance	ICN-3P32-N	Instant Start Ballast	46	Philips-Advance	IOP-2PSP32-HL-SC	Program Start Ballast
4	Philips-Advance	ICN-4P32-N	Instant Start Ballast	47	Philips-Advance	IOP-3PSP32-HL-SC	Program Start Ballast
5	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	48	Philips-Advance	IOP-4PSP32-HL-SC	Program Start Ballast
6	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	49	Philips-Advance	IOP-1PSP32-LW-SC	Program Start Ballast
7	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	50	Philips-Advance	IOP-2PSP32-LW-SC	Program Start Ballast
8	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	51	Philips-Advance	IOP-3PSP32-LW-SC	Program Start Ballast
9	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	52	Philips-Advance	IOP-4PSP32-LW-SC	Program Start Ballast
10	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	53	Philips-Advance	IOP-1PSP32-SC	Program Start Ballast
11	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	54	Philips-Advance	IOP-2PSP32-SC	Program Start Ballast
12	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	55	Philips-Advance	IOP-3PSP32-SC	Program Start Ballast
13	Philips-Advance	ICN-1P32-SC	Instant Start Ballast	56	Philips-Advance	IOP-4PSP32-SC	Program Start Ballast
14	Philips-Advance	ICN-2P32-SC	Instant Start Ballast	57	Philips-Advance	GOPA-1P32-SC	Instant Start Ballast
15	Philips-Advance	ICN-3P32-SC	Instant Start Ballast	58	Philips-Advance	GOPA-2P32-SC	Instant Start Ballast
16	Philips-Advance	ICN-4p32-SC	Instant Start Ballast	59	Philips-Advance	GOPA-3P32-SC	Instant Start Ballast
17	Philips-Advance	REB-1P32-SC	Instant Start Ballast	60	Philips-Advance	GOPA-4P32-SC	Instant Start Ballast
18	Philips-Advance	REB-2P32-SC	Instant Start Ballast	61	Philips-Advance	GOP-1PSP32-SC	Instant Start Ballast
19	Philips-Advance	REB-3P32-SC	Instant Start Ballast	62	Philips-Advance	GOP-2PSP32-SC	Instant Start Ballast
20	Philips-Advance	REB-4P32-SC	Instant Start Ballast	63	Philips-Advance	GOP-3PSP32-SC	Instant Start Ballast
21	Philips-Advance	IOP-1P32-LW-SC	Instant Start Ballast	64	Philips-Advance	GOP-4PSP32-SC	Instant Start Ballast
22	Philips-Advance	IOP-2P32-LW-SC	Instant Start Ballast	65	Philips-Advance	GOPA-1P32-LW-SC	Instant Start Ballast
23	Philips-Advance	IOP-3P32-LW-SC	Instant Start Ballast	66	Philips-Advance	GOPA-2P32-LW-SC	Instant Start Ballast
24	Philips-Advance	IOP-4P32-LW-SC	Instant Start Ballast	67	Philips-Advance	GOPA-3P32-LW-SC	Instant Start Ballast
25	Philips-Advance	IOPA-1P32-LW-N	Instant Start Ballast	68	Philips-Advance	GOPA-4P32-LW-SC	Instant Start Ballast
26	Philips-Advance	IOPA-2P32-LW-N	Instant Start Ballast	69	Philips-Advance	HOP-2PSP32-HL-SC	Program Start Ballast
27	Philips-Advance	IOPA-3P32-LW-N	Instant Start Ballast	70	Philips-Advance	HOP-3PSP32-HL-SC	Program Start Ballast
28	Philips-Advance	IOPA-4P32-LW-N	Instant Start Ballast	71	Philips-Advance	HOP-4PSP32-HL-G	Program Start Ballast
29	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	72	Philips-Advance	IOP-3P32-HL-90-SC	Instant Start Ballast
30	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	73	Philips-Advance	IOPA-4P32-HL-90-SC	Instant Start Ballast
31	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	74	Philips-Advance	RELB-2S40-N	Rapid Start Ballast
32	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	75	Philips-Advance	ICN-2S40-N	Rapid Start Ballast
33	Philips-Advance	IOP-1P32-SC	Instant Start Ballast	76	Philips-Advance	ICN-2S24	Program Start Ballast
34	Philips-Advance	IOP-2P32-SC	Instant Start Ballast	77	Philips-Advance	leN-2S24-N	Program Start Ballast
35	Philips-Advance	IOP-3p32-SC	Instant Start Ballast	78	Philips-Advance	ICN-2S39	Program Start Ballast
36	Philips-Advance	IOP-4P32-SC	Instant Start Ballast	79	Philips-Advance	ICN-2S39-N	Program Start Ballast
37	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	80	Philips-Advance	ICN-2S28	Program Start Ballast
38	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	81	Philips-Advance	ICN-2S28-N	Program Start Ballast
39	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	82	Philips-Advance	ICN-2S54	Program Start Ballast
40	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	83	Philips-Advance	ICN-2S54-N	Program Start Ballast
41	Philips-Advance	IOP-1PSP32-HL-SC	Program Start Ballast	84	GE	GE-132-MAX-N/Ultra	Instant Start Ballast
42	Philips-Advance	IOP-2PSP32-HL-SC	Program Start Ballast	85	GE	GE-232-MAX-N/Ultra	Instant Start Ballast
43	Philips-Advance	IOP-3PSP32-HL-SC	Program Start Ballast	86	GE	GE-332-MAX-N/Ultra	Instant Start Ballast

Please contact Lighting Direct, LP for questions about third party ballasts that are not on this list.

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Page:4 of 5

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Item	Manufacturer	Model	Туре	Item	Manufacturer	Model	Type
87	GE	GE-432-MAX-N/Ultra	Instant Start Ballast	130	GE	487-XLH-TC-P-IP	Rapid Start Ballast
88	GE	GE-132-MAX-L/Ultra	Instant Start Ballast	131	GE	960-VLH-TC-P-IP	Rapid Start Ballast
89	GE	GE-232-MAX-L/Ultra	Instant Start Ballast	132	GE	532-BR-TC-P-IP	Instant Start Ballast
90	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	133	GE	213-TC-P-IP	Instant Start Ballast
91	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	134	GE	B132IUNVHE-A	Program Rapid Start Ballast
92	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	135	GE	B232IUNVHE-A	Program Rapid Start Ballast
93	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	136	GE	B332IUNVHE-A	Program Rapid Start Ballast
94	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	137	SYLVANIA	QHE 1x32T8/UNV ISL-SC	Instant Start Ballast
95	GE	GE-432-MAX-H/Ultra	Instant Start Ballast	138	SYLVANIA	QHE 2x32T8/UNV ISL-SC	Instant Start Ballast
96	GE	B132PUNVHP-N	Program Rapid Start Ballast	139	SYLVANIA	QHE 3x32T8/UNV ISL-SC	Instant Start Ballast
97	GE	B232PUNVHP-N	Program Rapid Start Ballast	140	SYLVANIA	QHE 4x32T8/UNV ISL-SC	Instant Start Ballast
98	GE	B332PUNVHP-A	Program Rapid Start Ballast	141	SYLVANIA	QHE 1X32T8/UNV ISN-SC	Instant Start Ballast
99	GE	B432PUNVHP-A	Program Rapid Start Ballast	142	SYLVANIA	QHE 2X32T8/UNV ISN-SC	Instant Start Ballast
100	GE	B332 347HP	Program Rapid Start Ballast	143	SYLVANIA	QHE 3X32T8/UNV ISN-SC	Instant Start Ballast
101	GE	B228PUNV-C	Program Rapid Start Ballast	144	SYLVANIA	QHE 4X32T8/UNV ISN-SC	Instant Start Ballast
102	GE	B224PUNV-C	Program Rapid Start Ballast	145	SYLVANIA	QHE 1X32T8/UNV ISH-SC	Instant Start Ballast
103	GE	B239PUNV-D	Program Rapid Start Ballast	146	SYLVANIA	QHE 2X32T8/UNV ISH-SC	Instant Start Ballast
104	GE	B254PUNV-D	Program Rapid Start Ballast	147	SYLVANIA	QHE 3X32T8/UNV ISH-SC	Instant Start Ballast
105	GE	B140R120HP	Instant Start Ballast	148	SYLVANIA	QHE 4X32T8/UNV ISH-SC	Instant Start Ballast
106	GE	B140R277HP	Instant Start Ballast	149	SYLVANIA	QTP 1X32T8/UNV ISL-SC	Instant Start Ballast
107	GE	B240R120HP	Instant Start Ballast	150	SYLVANIA	QTP 2X32T8/UNV ISL-SC	Instant Start Ballast
108	GE	B240R277HP	Instant Start Ballast	151	SYLVANIA	QTP 3X32T8/UNV ISL-SC	Instant Start Ballast
109	GE	B332 347HP	Instant Start Ballast	152	SYLVANIA	QTP 4X32T8/UNV ISL-SC	Instant Start Ballast
110	GE	B340R120HP	Program Rapid Start Ballast	153	SYLVANIA	QTP 1X32T8/UNV ISN-SC	Instant Start Ballast
111	GE	B340R277HP	Program Rapid Start Ballast	154	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast
112	GE	B260 120HP	Instant Start Ballast	155	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast
113	GE	B260 277HP	Instant Start Ballast	156	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast
114	GE	B260120RH	Instant Start Ballast	157	SYLVANIA	QTP 1X32T8/UNV ISH-SC	Instant Start Ballast
115	GE	B260 277RH	Instant Start Ballast	158	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast
116	GE	697-L-TC-P-IP	Rapid Start Ballast	159	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast
117	GE	573-L-TC-P-IP	Rapid Start Ballast	160	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast
118	GE	588-L-TC-P-IP	Rapid Start Ballast	161	SYLVANIA	QTP 1X32T8/UNV PSX-TC	Program Start Ballast
119	GE	413-C-TC-P-IP	Rapid Start Ballast	162	SYLVANIA	QTP 2X32T8/UNV PSX-TC	Program Start Ballast
120	GE	412-L-SLH-TC-P-IP	Rapid Start Ballast	163	SYLVANIA	QTP 3X32T8/UNV PSX-TC	Program Start Ballast
121	GE	458-L-SLH-TC-P-I	Rapid Start Ballast	164	SYLVANIA	QTP 4X32T8/UNV PSX-TC	Program Start Ballast
122	GE	446-L-SLH-TC-P	Rapid Start Ballast	165	SYLVANIA	QTP 1X32T8/UNV PSN-TC	Program Start Ballast
123	GE	537-L-TC-P-I	Rapid Start Ballast	166	SYLVANIA	QTP 2X32T8/UNV PSN-TC	Program Start Ballast
124	GE	443-L-SLH-T-P	Rapid Start Ballast	167	SYLVANIA	QTP 3X32T8/UNV PSN-TC	Program Start Ballast
125	GE	490-XLH-TC-P	Rapid Start Ballast	168	SYLVANIA	QTP 4X32T8/UNV PSN-TC	Program Start Ballast
126	GE	627-LLH-TC-P-IP	Rapid Start Ballast	169	SYLVANIA	QHE2x32T8/UNV-PSH-HT	Program Start Ballast
127	GE	480-SLH-TC-P-IP	Rapid Start Ballast	170	SYLVANIA	QHE3x32T8/UNV-PSH-HT	Program Start Ballast
128	GE	480-XLH-TC-P-IP	Rapid Start Ballast	171	SYLVANIA	QHE4x32T8/UNV-PSH-HT	Program Start Ballast
129	GE	487-SLH-TC-P-IP	Rapid Start Ballast	172	SYLVANIA	OHE 1X32T8/347 ISL-SC	Instant Start Ballast

Please contact Lighting Direct, LP for questions about third party ballasts that are not on this list.

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### **NEW T8 LED RETROFIT TUBE**

### (Replace T8 Fluorescent Tube)

Patent Number: 201530468283.8

Page:5 of 5

# Lighting Direct, LP - New LED T8 Retrofit Tube

Compati	ble Ba	llasts	List
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Item	Manufacturer	Model	Type
173	SYLVANIA	OHE 2X32T8/347 ISL-SC	Instant Start Ballast
174	SYLVANIA	OHE 3X32T8/347 ISL-SC	Instant Start Ballast
175	SYLVANIA	OHE 4X32T8/347 ISL-SC	Instant Start Ballast
176	SYLVANIA	OHE 1X32T8/347 ISN-SC	Instant Start Ballast
177	SYLVANIA	OHE 2X32T8/347 ISN-SC	Instant Start Ballast
178	SYLVANIA	OHE 3X32T8/347 ISN-SC	Instant Start Ballast
179	SYLVANIA	OHE 4X32T8/347 ISN-SC	Instant Start Ballast
180	SYLVANIA	QT2X32T8/347 ISL-SC	Instant Start Ballast
181	SYLVANIA	QT4X32T8/347 ISL-SC	Instant Start Ballast
182	SYLVANIA	QTP1X32T8/347 ISN-SC	Instant Start Ballast
183	SYLVANIA	QTP2X32T8/347 ISN-SC	Instant Start Ballast
184	SYLVANIA	QT3X32T8/347 ISN-SC	Instant Start Ballast
185	SYLVANIA	QT4X32T8/347 ISN-SC	Instant Start Ballast
186	SYLVANIA	QT2X32T8/347 ISH-SC	Instant Start Ballast
187	SYLVANIA	QTP 2x39-24T5HO/UNV PSN NL	Program Start Ballast
188	SYLVANIA	QTP 2x39-24T5HO/UNV PSN NL	Program Start Ballast
189	SYLVANIA	QTP 2x54 T5HO/UNV PSN NL	Program Start Ballast
190	SYLVANIA	QTP 2x28 T5/UNV PSN NL	Program Start Ballast
191	SYLVANIA	QTP 2x54 T5HO/UNV PSN HT NL	Program Rapid Start Ballast
192	SYLVANIA	QTP 4x54 T5HO/UNV PSN HTW NL	Program Rapid Start Ballast
193	GE	GE-232-120RED-DIY	Instant Start Ballast
194	GE	GE-432-120RED-DIY	Instant Start Ballast
195	GE	GE-232-120-N	Instant Start Ballast
196	GE	GE-432-120-N	Instant Rapid Start Ballast
197	GE	GE-132-MV-N	Instant Start Start Ballast
198	GE	GE-232-MV-N	Instant Start Start Ballast
199	GE	GE-332-MV-N	Instant Start Ballast
200	GE	GE-432-MV-N	Instant Start Ballast
201	GE	GE-132-MV-N-DIY	Instant Start Ballast
202	GE	GE-232-MV-N-DIY	Instant Start Ballast
203	GE	GE-332-MV-N-DIY	Instant Start Ballast
204	GE	GE-432-MV-N-DIY	Instant Start Ballast
205	GE	GE232MAX347-N	Instant Start Ballast
206	GE	GE432MAX347-N	Instant Start Ballast
207	SUNPARK	U-1/32ISE-HBF	Instant Start Ballast
208	SUNPARK	U-2/32ISE-HBF	Instant Start Ballast
209	SUNPARK	U-3/32ISE-HBF	Instant Start Ballast
210	SUNPARK	U-4/32ISE-HBF	Instant Start Ballast
211	SUNPARK	U-1/32ISE-LBF	Instant Start Ballast
212	SUNPARK	U-2/32ISE-LBF	Instant Start Ballast
213	SUNPARK	U-3/32ISE-LBF	Instant Start Ballast
214	SUNPARK	U-4/32ISE-LBF	Instant Start Ballast
215	HOWARD	EP3/32IS/MV/MC/HE	Instant Start Ballast

Item	Manufacturer	Model	Туре
216	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast
217	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast
218	PROLUME	EP232IS/L/MV/SL	Instant Start Ballast
219	PROLUME	EP232IS/L/MV/HE	Instant Start Ballast
220	RADIONIC	E232H12	Instant Start Ballast

 $\label{thm:please contact Lighting Direct, LP for questions about third party ballasts that are not on this list. \\$