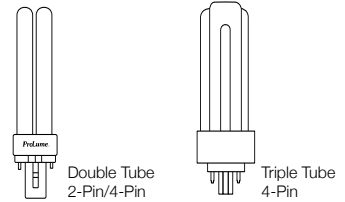


COMPACT FLUORESCENT LAMPS

Plug-In



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	Color Temp.	CRI	Lumens	Avg. Life	MOL	MOD
ProLume Double Tube 2-Pin continued												
22 WATT												
T5	GX32d-2	109862	\$ 11	PL22D/28	Warm White 15mm Cluster	1/50	2800	82	1200	10000	6.15"	-
		109864	\$ 11	PL22D/50	Natural White 15mm Cluster	1/50	5000	82	1200	10000	6.15"	-
26 WATT												
T5	G24d-3	109158	\$ 11	PL26D/27/ECO	Warm White	1/50	2700	82	1800	12000	6.77"	-
		109160	\$ 11	PL26D/35/ECO	White	1/50	3500	82	1800	12000	6.77"	-
		109162	\$ 11	PL26D/41/ECO	Cool White	1/50	4100	82	1800	12000	6.77"	-
		109163	\$ 11	PL26D/50/ECO	Natural White	1/50	5000	82	1800	12000	6.77"	-
28 WATT												
T5	GX32d-3	109870	\$ 11	PL28D/28	Warm White 15mm Cluster	1/50	2800	82	1800	12000	6.60"	-
		109868	\$ 11	PL28D/50	Natural White 15mm Cluster	1/50	5000	82	1800	12000	6.60"	-
ProLume Double Tube 4-Pin Electronic Eco-Shield®												
13 WATT												
T4	G24q-1	109037	\$ 12,13	PL13D/E/27/ECO	Warm White	1/50	2700	82	900	15000	5.16"	-
		109035	\$ 12,13	PL13D/E/30/ECO	Soft White	1/50	3000	82	900	15000	5.16"	-
		109038	\$ 12,13	PL13D/E/35/ECO	White	1/50	3500	82	900	15000	5.16"	-
		109039	\$ 12,13	PL13D/E/41/ECO	Cool White	1/50	4100	82	900	15000	5.16"	-
		109122	\$ 12,13	PL13D/E/50/ECO	Natural White	1/50	5000	82	900	15000	5.16"	-
18 WATT												
T4	G24q-2	109010	\$ 12,13	PL18D/E/27/ECO	Warm White	1/50	2700	82	1200	15000	5.75"	-
		109012	\$ 12,13	PL18D/E/35/ECO	White	1/50	3500	82	1200	15000	5.75"	-
		109013	\$ 12,13	PL18D/E/41/ECO	Cool White	1/50	4100	82	1200	15000	5.75"	-
		109074	\$ 12,13	PL18D/E/50/ECO	Natural White	1/50	5000	82	1200	15000	5.75"	-
26 WATT												
T4	G24q-3	109090	\$ 12,13	PL26D/E/27/ECO	Warm White	1/50	2700	82	1800	15000	6.57"	-
		109092	\$ 12,13	PL26D/E/35/ECO	White	1/50	3500	82	1800	15000	6.57"	-
		109094	\$ 12,13	PL26D/E/41/ECO	Cool White	1/50	4100	82	1800	15000	6.57"	-
		109096	\$ 12,13	PL26D/E/50/ECO	Natural White	1/50	5000	82	1800	15000	6.57"	-
ProLume Triple Tube 4-Pin Electronic Eco-Shield®												
18 WATT												
T4	GX24q-2	44800	\$ 12,13	PL18T/E/27/ECO	Warm White	1/50	2700	82	1200	15000	4.57"	-
		44801	\$ 12,13	PL18T/E/35/ECO	White	1/50	3500	82	1200	15000	4.57"	-
		44803	\$ 12,13	PL18T/E/41/ECO	Cool White	1/50	4100	82	1200	15000	4.57"	-

Compact Fluorescent lamp symbols, footnotes and abbreviations are located on pages 57-58.

COMPACT FLUORESCENT LAMPS

Lamp and Base Identification Guide

Lamp Shapes



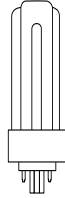
Single Tube
2-Pin



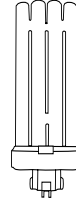
Single Tube
4-Pin



Double Tube
2-Pin/4-Pin



Triple Tube
4-Pin



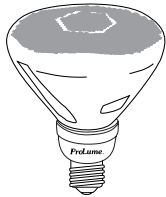
Flat Quad
4-Pin



Double
15mm



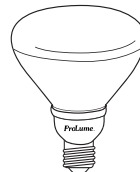
PLL
4-Pin



BR38



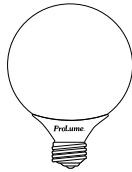
R20



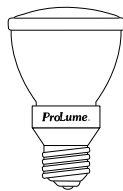
R30/R40



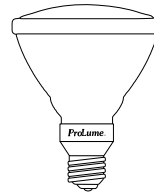
A-Shape



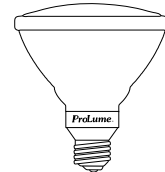
G
Globe



PAR20



PAR30



PAR38



B13
Torpedo



Spiral
GU24



TS EX39

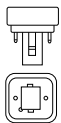


Spiral

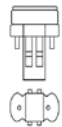


T20
Tubular

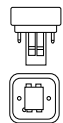
Base Types



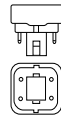
G23



GX23



GX23-2



G24q-1



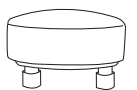
G24q-2



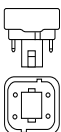
G24q-3



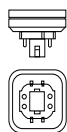
G24d-2



GU24



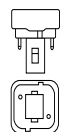
GX24q-3



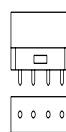
GX24q-4



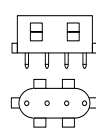
GX24q-5



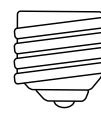
GX24d-3



2G11



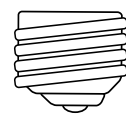
2GX7



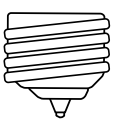
Medium
E26/27



E12



Mogul
E39



EX39

COMPACT FLUORESCENT LAMPS


Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA
Single Tube 2-Pin			
PL5S/27/ECO	F5BX/827/ECO	PL-S 5W/827/2P/ALTO	CF5DS/827
PL5S/41/ECO	F5BX/841/ECO	PL-S 5W/841/2P/ALTO	CF5DS/841
PL7S/27/ECO	F7BX/827/ECO	PL-S 7W/827/2P/ALTO	CF7DS/827
PL7S/35/ECO	F7BX/835/ECO	PL-S 7W/835/2P/ALTO	CF7DS/835
PL7S/41/ECO	F7BX/841/ECO	PL-S 7W/841/2P/ALTO	CF7DS/841
PL9S/27/ECO	F9BX/827/ECO	PL-S 9W/827/2P/ALTO	CF9DS/827
PL9S/35/ECO	F9BX/835/ECO	PL-S 9W/835/2P/ALTO	CF9DS/835
PL9S/41/ECO	F9BX/841/ECO	PL-S 9W/841/2P/ALTO	CF9DS/841
PL9S/50/ECO	-	PL-S 9W/850/2P/ALTO	CF9DS/850
PL13S/27/ECO	F13BX/827/ECO	PL-S 13W/827/2P/ALTO	CF13DS/827
PL13S/35/ECO	F13BX/835/ECO	PL-S 13W/835/2P/ALTO	CF13DS/835
PL13S/41/ECO	F13BX/841/ECO	PL-S 13W/841/2P/ALTO	CF13DS/841
PL13S/50/ECO	F13BX/850/ECO	PL-S 13W/850/2P/ALTO	CF13DS/850
Double Tube 2-Pin			
PL9D/27/ECO	F9DBX23/827/ECO	-	CF9DD/827
PL9D/41/ECO	F9DBX23/841/ECO	-	CF9DD/841
PL13D/27/ECO	F13DBX23/827/ECO	PL-C 13W/827/USA/ALTO	CF13DD/827
PL13D/35/ECO	F13DBX23/835/ECO	PL-C 13W/835/USA/ALTO	CF13DD/835
PL13D/41/ECO	F13DBX23/841/ECO	PL-C 13W/841/USA/ALTO	CF13DD/841
PL13D/50/ECO	-	-	-
PL18D/27/ECO	F18DBX/827/ECO	PL-C 18W/827/ALTO	CF18DD/827
PL18D/35/ECO	F18DBX/835/ECO	PL-C 18W/835/ALTO	CF18DD/835
PL18D/41/ECO	F18DBX/841/ECO	PL-C 18W/841/ALTO	CF18DD/841
PL18D/50/ECO	-	-	-
PL26D/27/ECO	F26DBX/827/ECO	PL-C 26W/827/ALTO	CF26DD/827
PL26D/35/ECO	F26DBX/835/ECO	PL-C 26W/835/ALTO	CF26DD/835
PL26D/41/ECO	F26DBX/841/ECO	PL-C 26W/841/ALTO	CF26DD/841
PL26D/50/ECO	-	-	-
PL22D/28	-	PL-C 15MM/22W/827	-
PL22D/50	-	-	-
PL28D/28	-	PL-C 15MM/28W/827	-
PL28D/50	-	-	-
Single Tube 4-Pin Electronic			
PL13S/E/27/ECO	-	-	CF13DS/E/827
PL13S/E/35/ECO	-	-	-
PL13S/E/41/ECO	-	-	CF13DS/E/841
PL13S/E/50/ECO	-	-	-

COMPACT FLUORESCENT LAMPS

Symbols, Footnotes and Abbreviations

SYMBOLS

\$	Energy saving product.
	ProLume® Eco-Shield® Low-Mercury Fluorescent lamps pass the Federal TCLP for hazardous wastes.
†	New product introduced within the past year.
X	Product will be discontinued when inventory is depleted.

FOOTNOTES

1	UL approved for damp location in base-up position only. All other base positions must be in a dry environment or in a weatherproof fixture.
2	UL approved for wet location in base-up position only. All other base positions must be in a dry environment or in a weatherproof fixture.
3	UL approved for totally enclosed fixtures with a max ballast case temperature of 90°C for GU24 base, 75°C for medium base lamps.
4	Not intended for use with emergency exit fixtures, dimmers, timing devices, photo sensors or occupancy sensors.
5	Do not use where lamp is exposed to moisture.
6	For use on analog dimmers only - may not be compatible with all dimmers.
7	Do not use in totally enclosed fixtures or in recessed fixtures.
8	Do not use in totally enclosed fixtures or insulated contact air tight (ICAT) rated fixtures.
9	Use only on 277 Volts, 60-hertz frequency.
10	PL 5 watt lamps should not be used in socket or adapters rated for 7 or 9 watt lamps.
11	Total wattage consumption for adapter systems is higher than lamp wattage due to ballast losses. Total system wattage equals lamp wattage plus 2 ballast watts.
12	This 4-Pin Electronic lamp has an internal end-of-life (EOL) mechanism that shuts the lamp down to prevent abnormal end-of-life failure.
13	Operate this lamp on a high-frequency Compact Fluorescent ballast with an end-of-life shut down circuit.

COMPACT FLUORESCENT LAMPS

Symbols, Footnotes and Abbreviations

ABBREVIATIONS

/27	Suffix used to indicate color temperature of 2700K.
/30	Suffix used to indicate color temperature of 3000K.
/35	Suffix used to indicate color temperature of 3500K.
/3WAY	Suffix used to indicate 3-Way lamps.
/41	Suffix used to indicate color temperature of 4100K.
/4PK	Suffix used to indicate a package of (4) Compact Fluorescent lamps.
/50	Suffix used to indicate color temperature of 5000K.
/65	Suffix used to indicate color temperature of 6500K.
BLB	Code abbreviation for Blacklight-Blue lamps.
CFL	Code abbreviation for ProLume® Self-Ballasted Compact Fluorescent lamps.
BLU	Code abbreviation for Blue lamps.
/CS	Suffix used to indicate CoverShield® safety coated lamps.
D	Code abbreviation for Double Tube lamps.
/DIM	Suffix used to indicate Dimmable lamps.
/E	Suffix used to indicate Electronic 4-Pin Plug-In lamps.
/ECO	Suffix used to indicate Eco-Shield® TCLP compliant lamps.
GRN	Code abbreviation for Green lamps.
/PB	Suffix used to indicate Pool Bright pool lamps color temperature of 6450K.
PL	Code abbreviation for ProLume® Plug-In Compact Fluorescent lamps.
PLL	Code abbreviation for ProLume® Plug-In High Lumen long lamps.
PNK	Code abbreviation for Pink lamps.
S	Code abbreviation for Single Tube Plug-In lamps.
SP	Code abbreviation for Spiral Tube Plug-In lamps.
T	Code abbreviation for Triple Tube Plug-In lamps.
YEL	Code abbreviation for Yellow lamps.

HALCO LIGHTING TECHNOLOGIES LAMP LIMITED WARRANTY

Halco Lighting Technologies (hereinafter called "Halco"), 2940 Pacific Drive, Norcross, GA 30071, warrants to the purchaser that Halco lamps will be free from defect in the material and workmanship from the date of manufacture for the following time periods:

Lamp Category	Warranty
Self-Ballasted CFL 42 watts or less:	2 years
Self-Ballasted CFL greater than 42 watts:	1 years
Plug-in Compact Fluorescent:	1 years
High Power LED:	5 years
IP65 Rated JC LED (40,000 hour rated life):	5 years
Standard JC LED (20,000 hour rated life), C7 and C9 LED:	2 years
Linear Fluorescent, non-pre-heat > 14 watts:	2 years
<i>ProLume Linear Fluorescent</i> , non-pre-heat > 14 watts operated on a <i>ProLume Ballast</i> :	3 years

All other lamps are covered under our Quality Assurance noted below.

Explicit Operating Conditions:

Self-Ballasted and Plug-In Compact Fluorescent Lamps: Based on maximum of 10 hours use per day.

Should any product fail to meet the warranty specified above, Halco, at its option, shall correct any defect by issuing a credit for the product or providing a free replacement lamp. This warranty is conditioned upon proper storage, installation, use and maintenance. Remedy is expressly limited to credit or replacement only.

This warranty is not applicable to any lamp, which is not installed and operated in accordance with the current edition of the National Electric Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), the Standards for the American National Standards Institute (ANSI), and with Halco instructions and guidelines for the lamp. This warranty is not applicable to any lamp subjected to abnormal stresses and operating conditions. Use of occupancy sensors, dimmers or programmable systems with some lamp types may void the warranty.

Halco reserves the right to examine all lamps prior to the determination of warranty status. All lamps must be retained for warranty claims. The warranty period starts on the date of installation. If the date of installation cannot be determined or is unknown, the warranty period will start with the date of the original purchase from Halco.

Warranty Exclusion Clause for Products Exported:

This warranty shall be void for products that are exported outside of the U.S. and its territories. The distributor, private labeler or OEM assumes all responsibility imposed by statute, regulation or law on products sold into these markets.

NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD.

The foregoing warranty is exclusive of all other statutory, written or oral warranties, and no other warranties of any kind, statutory or otherwise, are given or herein expressed. The warranty sets forth Halco's responsibilities regarding the ballast and claimant's exclusive remedy.

Warranty claims are to be made in accordance with Halco's published Warranty Program, made available upon request.

LIMITATION OF LIABILITY. Halco will not under any circumstances, whether as a result of breach of contract, breach of warranty, tort, strict liability or otherwise, be liable for consequential, incidental, special or exemplary damages including, but not limited to, loss of profits or revenues, loss of use of lamp or any other goods or associated equipment or damage to any associated equipment, cost of capital, cost of substitute products, facilities of service, down time cost, or claims of claimant's customers. Halco's liability on any claim of any kind for any loss of damages arising out of, resulting from or concerning any aspect of this agreement from the products or services furnished hereunder shall not exceed the price of the specific lamp or lamps which gives rise to the claim.

Some states do not allow the exclusion of limitation of damages or the length of time for an implied warranty. Therefore, the limitations or exclusions of consequential or incidental damages and implied warranties may not apply to certain claimants. This warranty gives the claimant specific legal rights. The claimant may also have other rights, which vary from state to state.

Quality Assurance Guarantee

At Halco Lighting Technologies, we are committed to quality and service. We measure our success by one standard, customer satisfaction. With this in mind, we offer you the following: Should you encounter any product from Halco Lighting Technologies that fails to perform according to specifications, contact your account representative immediately. If our product is found to be defective in either material or workmanship, we will credit your account or replace the product at no charge. In order to better maintain our standard of quality, we reserve the right to inspect any defective products. We make this assurance to clearly demonstrate our commitment to your satisfaction.