Philips T12 High CRI Lamps featuring ALTO Lamp Technology

Ideal for applications requiring superior color and continuous maintained light output

T12 Collection

† This lamp is better for the environment because of its reduced mercury content. All Philips ALTO lamps give you end-of-life options, which can simplify and reduce your lamp disposal costs, depending on your state and local regulations.

* Fluorescent lamps that are TCLP compliant reduce the amount of pollutants released into the environment.

Superior color rendering

Philips T12 High CRI Lamps are energy-efficient lighting solutions and provide excellent color consistency over the life of the lamp.

Enhanced Color Rendering Index (CRI)

- Up to 90 CRI

Better for the environment

- Low mercury and TCLP* compliant
- Exempt from general service fluorescent lamp standards
- Limited warranty period based on usage+

Increased ballast compatibility

- Operates on magnetic or electronic ballasts
- Direct retrofit for current T12 solution

+ See your sales representative for details

PHILIPS

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Ordering, Electrical and Technical Data

	Product Number	Ordering Code	Watts	Pack. Qty.	Color Temp. (Kelvin)	Color Temp. Description	Rated Average Life (3 Hrs)[1]	Approx. Initial Lumens[2]	Design Lumens[3]	CRI	Base Type	TuffGuard
●	42318-6	F40T12/NX/ALTO	40	30	3500	Neutral Deluxe	20,000	2550	2220	88	Bipin	No
●	42310-3	F40T12/NX/ALTO TG	40	30	3500	Neutral Deluxe	20,000	2550	2220	88	Bipin	Yes
●	42305-3	F96T12/NX/ALTO	75	15	3500	Neutral Deluxe	12,000	5000	4250	88	S pin	No
●	42317-8	F96T12/NX/ALTO TG	75	15	3500	Neutral Deluxe	12,000	5000	4250	88	S pin	Yes
	42309-5	FB40/T12/NX/6	40	12	3500	Neutral Deluxe	18,000	2300	1955	90	Bipin	No
●	42389-9	F40T12/CWSupreme/ALTO	40	30	4100	Cool White Supreme	20,000	2600	2250	89	Bipin	No
●	42312-9	F40T12/CWSupreme/PLUS/ALTO	40	30	4100	Cool White Supreme	24,000	2550	2220	89	Bipin	No
●	42400-2	F40T12/CWSupreme/ALTO TG	40	30	4100	Cool White Supreme	20,000	2600	2250	89	Bipin	Yes
●	42319-4	F96T12/CWSupreme/ALTO	75	15	4100	Cool White Supreme	12,000	5000	4250	89	S pin	No
●	42316-0	F96T12/CWSupreme/ALTO TG	75	15	4100	Cool White Supreme	12,000	5000	4250	89	S pin	Yes
	42308-7	FB40/T12/CWSupreme/6	40	12	4100	Cool White Supreme	18,000	2300	1955	90	Bipin	No
●	38176-4	F96T12/CW/HO-O/ALTO	110	15	4100	Cool White	12,000	8800	7650	59	RDC	No
●	16301-4	F96T12/CW/HO-O/ALTO TG	110	15	4100	Cool White	12,000	8800	7650	59	RDC	Yes
●	42389-7	F40T12/C50Supreme/ALTO	40	30	5000	Color Tone 50 Supreme	20,000	2500	2175	90	Bipin	No
●	42399-5	F40T12/C50 SUPREME/ALTO/TG	40	30	5000	Color Tone 50 Supreme	20,000	2500	2175	90	Bipin	Yes
●	42387-1	F96T12/C50Supreme/ALTO	75	15	5000	Color Tone 50 Supreme	12,000	5000	4350	90	S pin	No
●	42401-0	F96T12/C50 SUPREME/ALTO/TG	75	15	5000	Color Tone 50 Supreme	12,000	5000	4350	90	S pin	Yes
●	27359-9	F40/DX/ALTO	40	30	6500	Daylight Deluxe	20,000	2325	2025	90	Bipin	No
●	16299-0	F40/DX/ALTO TG	40	30	6500	Daylight Deluxe	20,000	2325	2025	90	Bipin	Yes
●	37282-1	F96T12/DX/ALTO	75	15	6500	Daylight Deluxe	12,000	4775	4200	90	S-pin	No
●	16297-4	F96T12/DX/ALTO TG	75	15	6500	Daylight Deluxe	12,000	4775	4200	90	S-pin	Yes
●	21489-0	F96T12/DX/HO	110	15	6500	Daylight Deluxe	12,000	6750	5800	90	RDC	No
●	38177-4	F96T12/D/HO-O/ALTO	110	15	6500	Daylight	12,000	7800	6800	73	RDC	No
●	16302-2	F96T12/D/HO-O/ALTO TG	110	15	6500	Daylight	12,000	7800	6800	73	RDC	Yes
	21993-1	FB40/DX/6	40	12	6500	Daylight Deluxe	18,000	2250	1950	90	Bipin	No

1) Average life under engineering data with lamps turned off and restarted once every 3 operating hours.

2) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a reference ballast under standard laboratory conditions. For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.

3) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

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