

## Fluorescent lamps

GE offers the benefits of nearly 60 years experience in the design and manufacture of fluorescent lamps.

Our comprehensive range of lamps continues to set new standards in light output, quality and efficiency and is available in a wide choice of lengths, wattages and colours.

Choose GE fluorescents for saving energy, extra long lamp life, excellent lumen maintenance, improved colour performance and higher light output.



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## Fluorescent selection guide

### Lumen value table (Initial lumens at 35C°)

Wattage length mm Lamp	4 150	6 225	8 300	13 525	14 549	21 849	24 549	28 1149	35 1449	39 849	49 1449	54 1149	80 1449	15 450	18 600	30 900	36-1M 970	36 1200	38 1050	58 1500	70 1800												
	T5 16 mm Ø												T8 25 mm Ø																				
Watt-Miser Lamps	<b>830 Watt-Miser</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>835 Watt-Miser</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>840 Watt-Miser</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>865 Watt-Miser</b>												1250	1950	1900	2700	3400	3330	4650	4750	6650												
Starcoat	<b>827 Starcoat™</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
T5 Lamps	<b>830 Starcoat™</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>835 Starcoat™</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>840 Starcoat™</b>												1350	2100	2000	2900	3650	3500	4900	5000	7000												
	<b>865 Starcoat™</b>												1250	1950	1900	2700	3400	3330	4650	4750	6650												
Triphosphor	<b>827 Polyflux XLr™</b>																					1000	1350	2450				3350			5200		
Polyflux XLr	<b>830 Polyflux XLr™</b>																					1000	1350	2450	3100	3350			5200	6300			
Lamps	<b>835 Polyflux XLr™</b>																								1350				3350			5200	6300
	<b>840 Polyflux XLr™</b>																					1000	1350	2450	3100	3350			5200	6300			
	<b>860 Polyflux XLr™</b>																								1300				3250			5000	
Cov-R-Guard	<b>830 Polyflux XLr™</b>																								1300				3250			5050	6100
Shielded	<b>835 Polyflux XLr™</b>																								1300				3250			5050	6100
Fluorescent	<b>840 Polyflux XLr™</b>																								1300				3250			5050	6100
	<b>860 Polyflux XLr™</b>																								1250				3200				
Standard	<b>29 Warm White</b>				395	850																850	1150	2250			2850			4600	5550		
Halophosphate	<b>35 White</b>		130	260	395	850																850	1150	2250			2850	2850	4600	5550			
	<b>25 Natural</b>																						775	1100	1900	2250	2600			4100			
	<b>Universal White</b>																						850	1150	2175	2600	2850			4600	5450		
	<b>33 Cool white</b>		150	260	380	800																750	950	1850	1900	2350			3750				
	<b>54 Daylight</b>																																

### Product Colour Performance Characteristics

	Type	CIE Group	Ra Index Description	Ra Index	CCT K	GE ref	Avg. lm/W
Starcoat	<b>827 Starcoat™</b>	1B	Good	85	2720	827	97
T5 Lamps	<b>830 Starcoat™</b>	1B	Good	85	2940	830	97
	<b>835 Starcoat™</b>	1B	Good	85	3450	835	97
	<b>840 Starcoat™</b>	1B	Good	85	4040	840	97
	<b>865 Starcoat™</b>	1B	Good	85	6500	860	95
Triphosphor	<b>827 Polyflux XLr™</b>	1B	Good	85	2720	827	93
Polyflux XLr	<b>830 Polyflux XLr™</b>	1B	Good	85	2940	830	93
Lamps	<b>835 Polyflux XLr™</b>	1B	Good	85	3450	835	93
	<b>840 Polyflux XLr™</b>	1B	Good	85	4040	840	93
	<b>860 Polyflux XLr™</b>	1B	Good	85	6400	860	90
Cov-R-Guard	<b>830 Cov-R-Guard Polyflux XLr™</b>	1B	Good	85	2940	830	93
Shielded	<b>835 Cov-R-Guard Polyflux XLr™</b>	1B	Good	85	3450	835	93
Fluorescent	<b>840 Cov-R-Guard Polyflux XLr™</b>	1B	Good	85	4040	840	93
Standard	29 Warm White	3	Low	51	2940	29	79
Halophosphate	35 White	3	Low	54	3450	35	79
	25 Natural/Universal White	2	Moderate	70	4000	25	72
	33 Cool white	3	Low	58	4040	33	79
	54 Daylight	2	Moderate	76	6500	54	65
Special	UV non-filter	-	NA	-	-	05	-
Colours	Blacklight Blue	-	NA	-	-	BLB	-

Avg. lm/W = average initial lumens per watt (based on 36W, 1.2M tube or 40W, 1.2M tube for special colours and Polyflux)  
Ra = colour rendering index (higher Ra gives better colour rendering, max= 100 NA=not applicable)



# Fluorescent selection guide

## Lumen value table

	Wattage	20	40	65	75	85	100	125	22	32	40	60	40
	length mm	600	1200	1500	1800	2400	2400	2400	209.5	311.2	412.6	412.6	525
	Lamp	T12 38 mm Ø											
		Circline											
		Mod-u-line											
Starcoat	<b>827 Starcoat™</b>												
T5 Lamps	<b>830 Starcoat™</b>												
	<b>835 Starcoat™</b>												
	<b>840 Starcoat™</b>												
	<b>865 Starcoat™</b>												
Triphosphor	<b>827 Polylox XLr™</b>												
Polylox XLr	<b>830 Polylox XLr™</b>												
Lamps	<b>835 Polylox XLr™</b>												
	<b>840 Polylox XLr™</b>												
	<b>860 Polylox XLr™</b>												
Cov-R-Guard	<b>830 Polylox XLr™</b>												
Shielded	<b>835 Polylox XLr™</b>												
Fluorescent	<b>840 Polylox XLr™</b>												
Triphosphor	<b>827 Polylox</b>												
Polylox	<b>830 Polylox</b>	1350	3350	5300	6550	7900	9100	10000					
	<b>835 Polylox</b>											3250	
	<b>840 Polylox</b>	1350	3350	5300	6550	7900	9100						
Standard	<b>29 Warm White</b>	1150	2950	4750	5750							2875	
Halophosphate	<b>35 White</b>	1150	2950	4750	5750	7100	8300	9200					
	<b>25 Natural</b>												
	<b>Universal White</b>	1050	2500	4000				1000	1825	2700			
	<b>33 Cool white</b>	1150	2950	4750	5700			8100	9100	1100	1950	2700	2875
	<b>54 Daylight</b>	950	2450	3900				7500	1050	1750	2440		

### Product Description

Very warm, similar to incandescent light. Gives a warm effect in restaurants, hotels etc.  
 Warm, gives a welcoming effect. Used in restaurants, hotels, offices and supermarkets.  
 Intermediate colour, used in general, commercial and industrial lighting. Creates cool atmosphere in commercial installations. Very cool. Popular in warmer climates.

Very warm, similar to incandescent light. Gives a warm effect in restaurants, hotels etc.  
 Warm, gives a welcoming effect. Used in restaurants, hotels, offices and supermarkets.  
 Intermediate colour, used in general, commercial and industrial lighting.  
 Creates cool atmosphere in commercial installations. Recommended for hospitals.  
 Very cool. Popular in warmer climates.

Warm, gives a homely welcoming effect. Used in supermarkets, schools.  
 Intermediate colour, used in general, commercial and industrial lighting.  
 Creates cool atmosphere in commercial installations. Recommended for hospitals.

Warm, used in commercial or public buildings to create a "warm" atmosphere.  
 Intermediate colour, standard colour for almost all applications.  
 Cool, used in offices and shops. Higher colour rendering, but less efficient than cool white.  
 Cool, used to create a cooler atmosphere in offices, factories and shops.  
 Very cool. Popular in warmer climates.

Small amount of visible light with long wave UV-A radiation emitted to attract insects into insect traps.  
 Only long wave UV produced. Used decoratively in discos as the UV makes white fabrics fluorescent.

Special Colours are available in some sizes, please ask our sales department for more information.

# Fluorescent lamps

## Product identification

The following glossary of terms and descriptions can help you when checking fluorescent lamp specifications and explains how to use the product codes when ordering products. Within each product line, lamps are divided into families - within families, lamps are listed by wattage.

**Watts:** Energy used. To find actual energy used (kWh) multiply power (watts shown) x hours of use divided by 1000

**CRI Ra:** Colour rendering index, the higher the number (1-100) the more natural the lit subject appears

**Product Code:** It is important to use this code when ordering to ensure that you receive the exact product you require

**Length:**  
Expressed in feet and mm

**Product Description:**  
The lamp's identification code

**Product Type:**  
Identifies the lamp type

**Pack Quantity:**  
The number of lamps in one box

### Starcoat™ T5 High Efficiency (HE)

Use on HF Electronic Ballast only.

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	Product Code
T5 (Ø 16mm - 5/8")										
14		549	F14W/T5/827	STARCOAT/SL/1-30	2700	85	20000	1350	30	90230
			F14W/T5/830	STARCOAT/SL/1-30	3000	85	20000	1350	30	90239
			F14W/T5/835	STARCOAT/SL/1-30	3500	85	20000	1350	30	90246

**Lamp:**  
Lamp description followed by diameter (mm and inches)

**Initial Lumens:**  
Light output after the initial 100 hours of operation

### F14W/T5/827

Identifies lamp as fluorescent

Identifies lamp wattage

Identifies lamp type

Colour temperature code

8 27

Colour rendering of between 80-89

CCT nominal 2700 K

**CCT K:**  
Colour temperature - Kelvin. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

**Rated Average Life:**  
The point in time when 50% of installed lamps are still burning



# Taking efficiency to new levels

## T5WattMiser™

T5 Watt-Miser tubes use 5% less energy than other GE T5s, with the same lumen output - 25% more efficient than T8 Polylux types.

In fact, if the total system efficiency is taken into account then an energy saving as high as 45% can be achieved compared to systems using standard T8 tubes. This will have a big impact on reducing electricity expenses, which can account for over 90% of total lighting coast.



### How much can be saved?

Annual savings from a typical installation of 1000 lamps used for 5000 hours a year & energy costs of 0.11 €/kWh

	24W	40W	54W	80W
T5 power at 35°C (W/lamp)	22.1	49.1	53.8	80.0
T5 Watt-Miser power at 35°C (W/lamp)	21.4	46.8	51.1	76.0

T5 annual energy (kWh)	112,500	246,500	269,000	400,000
T5 Watt-Miser™ annual energy (kWh)	106,875	234,000	255,500	380,000

Annual energy saving (kWh)	5,625	12,500	13,500	20,000
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Annual energy saving (€)	€ 563	€ 1,250	€ 1,350	€ 2,000
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Payback: Less than 1 Year

CO <sub>2</sub> saved in a year (tonns)*	2.1	4.6	5.0	7.4
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\* conversion factor 0.42 CO<sub>2</sub>/kWh (with 1000-hr-watt decrease) UK - could change with region

### Benefits of Watt-Miser™

- 5% extra energy saving with existing fitting & control gear
- Reduces CO<sub>2</sub> and other greenhouse gas emissions
- Energy saving without loss of light output
- Excellent lumen maintenance
- Low mercury content
- ROHS compliant and contains recyclable components

### Applications

Ideal for applications with high energy costs:

- Offices
- Schools, colleges, public buildings
- Warehousing
- Industry
- Hypermarkets & supermarkets



# Fluorescent lamps

## T5 Watt-Miser™ High Efficiency

Actual Watt	Nominal Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Rated power at 35°C	Pack Qty	EE Class	Volts	I (A)	Product Code
13.0	14	549	F14/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	1350	1230	13.0	30	A	78	0.295	88364
			F14/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	1350	1230	13.0	30	A	78	0.295	88363
			F14/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	1350	1230	13.0	30	A	78	0.295	88362
19.7	21	849	F14/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	1250	1230	13.0	30	A	78	0.295	88361
			F21/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	2100	1910	19.7	30	A	117	0.295	88360
			F21/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	2100	1910	19.7	30	A	117	0.295	88358
26.4	28	1149	F21/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	2100	1910	19.7	30	A	117	0.295	88357
			F21/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	1950	1910	19.7	30	A	117	0.295	88359
			F28/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	2900	2640	26.4	30	A	159	0.295	88345
33.0	35	1449	F28/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	2900	2640	26.4	30	A	159	0.295	88346
			F28/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	2900	2640	26.4	30	A	159	0.295	88356
			F28/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	2700	2640	26.4	30	A	159	0.295	88341
33.0	35	1449	F35/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	3650	3320	33.0	30	A	199	0.295	88355
			F35/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	3650	3320	33.0	30	A	199	0.295	88342
			F35/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	3650	3320	33.0	30	A	199	0.295	88354
			F35/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	3400	3320	33.0	30	A	199	0.295	88353

## T5 Watt-Miser™ High Output

21.4	24	549	F24/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	2000	1750	21.4	30	A	71	0.650	88352
			F24/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	2000	1750	21.4	30	A	71	0.650	88351
			F24/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	2000	1750	21.4	30	A	71	0.650	88350
36.1	39	849	F24/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	1900	1750	21.4	30	A	71	0.650	88349
			F39/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	3500	3200	36.1	30	A	106	0.650	88348
			F39/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	3500	3200	36.1	30	A	106	0.650	88347
46.8	49	1449	F39/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	3500	3200	36.1	30	A	106	0.650	88344
			F39/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	3330	3200	36.1	30	A	106	0.650	88334
			F49/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	4900	4450	46.8	30	A	181	0.480	88343
51.5	54	1149	F49/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	4900	4450	46.8	30	A	181	0.480	88339
			F49/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	4900	4450	46.8	30	A	181	0.480	88336
			F49/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	4650	4450	46.8	30	A	181	0.480	88340
76.0	80	1449	F54/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	5000	4460	51.1	30	A	112	0.890	88328
			F54/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	5000	4460	51.1	30	A	112	0.890	88338
			F54/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	5000	4460	51.1	30	A	112	0.890	88337
76.0	80	1449	F54/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	4750	4460	51.1	30	A	112	0.890	88333
			F80/T5/830/GE/WATT-MISER/SL 1-30	3000	85	25000	30000	7000	6450	76.0	30	A	138	0.970	88329
			F80/T5/835/GE/WATT-MISER/SL 1-30	3500	85	25000	30000	7000	6450	76.0	30	A	138	0.970	88330
			F80/T5/840/GE/WATT-MISER/SL 1-30	4000	85	25000	30000	7000	6450	76.0	30	A	138	0.970	88332
			F80/T5/865/GE/WATT-MISER/SL 1-30	6500	85	25000	30000	6650	6450	76.0	30	A	138	0.970	88331



# Lead free Starcoat™ T5 with enhanced life time Efficiency with Elegance in Design

**GE's efficient fluorescent that comes in a small size and provides big lumen output for visual comfort.** High lumen in a small, lower package enabling visual comfort and performance for more productive office and retail environments.



## Efficiency

GE T5 Starcoat™ is small in size but offers great output. With nine wattages to choose from, you can either maximize your lumen output or your efficiency.

### High Efficiency range

up to 104 lumens per watt, suited to commercial and retail application in both direct/indirect luminaires

### High Output lamps

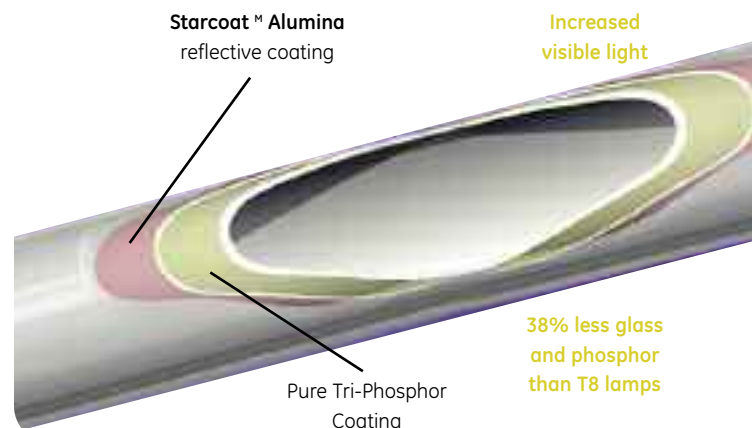
up to 7000 lumens improved system efficacy and reduced number of fittings, ideal for indirect luminaires.

## Starcoat™ technology Environmentally responsible design



### GE's T5 lamps feature:

- 38% less glass and phosphors than T8 lamps which means reduced waste in landfills
- lead free products
- low mercury content
- less lamps are needed to maintain same lumen output due to the high output design
- ROHS compliant & contains recyclable components.



## LongLast™ Starcoat™ T5 High Efficiency (HE) lead free products

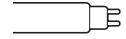
Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8")													
14	549	F14W/T5/827	2720	85	30000	36000	1350	1230	30	A	86	0.165	90230
14		F14W/T5/830	2940	85	30000	36000	1350	1230	30	A	86	0.165	90239
14		F14W/T5/835	3450	85	30000	36000	1350	1230	30	A	86	0.165	90246
14		F14W/T5/840	4040	85	30000	36000	1350	1230	30	A	86	0.165	90247
14		F14W/T5/865	6500	85	30000	36000	1250	1140	30	A	86	0.165	90244
21	849	F21W/T5/827	2720	85	30000	36000	2100	1910	30	A	126	0.165	90245
21		F21W/T5/830	2940	85	30000	36000	2100	1910	30	A	126	0.165	90248
21		F21W/T5/835	3450	85	30000	36000	2100	1910	30	A	126	0.165	90249
21		F21W/T5/840	4040	85	30000	36000	2100	1910	30	A	126	0.165	90250
21		F21W/T5/865	6500	85	30000	36000	1950	1770	30	A	126	0.165	90251
28	1149	F28W/T5/827	2720	85	30000	36000	2900	2640	30	A	166	0.17	90252
28		F28W/T5/830	2940	85	30000	36000	2900	2640	30	A	166	0.17	90253
28		F28W/T5/835	3450	85	30000	36000	2900	2640	30	A	166	0.17	90254
28		F28W/T5/840	4040	85	30000	36000	2900	2640	30	A	166	0.17	90255
28		F28W/T5/865	6500	85	30000	36000	2700	2450	30	A	166	0.17	90256
35	1449	F35W/T5/827	2720	85	30000	36000	3650	3320	30	A	205	0.175	90257
35		F35W/T5/830	2940	85	30000	36000	3650	3320	30	A	205	0.175	90258
35		F35W/T5/835	3450	85	30000	36000	3650	3320	30	A	205	0.175	90259
35		F35W/T5/840	4040	85	30000	36000	3650	3320	30	A	205	0.175	90260
35		F35W/T5/865	6500	85	30000	36000	3400	3090	30	A	205	0.175	90261
INDUSTRIAL PACK													
14	549	F14W/T5/827	2720	85	30000	36000	1350	1230	40	A	86	0.165	39965
		F14W/T5/830	2940	85	30000	36000	1350	1230	40	A	86	0.165	39964
		F14W/T5/835	3450	85	30000	36000	1350	1230	40	A	86	0.165	39961
		F14W/T5/840	4040	85	30000	36000	1350	1230	40	A	86	0.165	39973
		F14W/T5/865	6500	85	30000	36000	1250	1140	40	A	86	0.165	90222
21	849	F21W/T5/827	2720	85	30000	36000	2100	1910	40	A	126	0.165	39976
		F21W/T5/830	2940	85	30000	36000	2100	1910	40	A	126	0.165	39977
		F21W/T5/835	3450	85	30000	36000	2100	1910	40	A	126	0.165	39977
		F21W/T5/840	4040	85	30000	36000	2100	1910	40	A	126	0.165	39978
		F21W/T5/865	6500	85	30000	36000	1950	1770	40	A	126	0.165	39979
28	1149	F28W/T5/827	2720	85	30000	36000	2900	2640	40	A	166	0.17	39980
		F28W/T5/830	2940	85	30000	36000	2900	2640	40	A	166	0.17	39982
		F28W/T5/835	3450	85	30000	36000	2900	2640	40	A	166	0.17	39983
		F28W/T5/840	4040	85	30000	36000	2900	2640	40	A	166	0.17	39984
		F28W/T5/865	6500	85	30000	36000	2700	2450	40	A	166	0.17	39985
35	1449	F35W/T5/827	2720	85	30000	36000	3650	3320	40	A	205	0.175	39986
		F35W/T5/830	2940	85	30000	36000	3650	3320	40	A	205	0.175	39989
		F35W/T5/835	3450	85	30000	36000	3650	3320	40	A	205	0.175	39990
		F35W/T5/840	4040	85	30000	36000	3650	3320	40	A	205	0.175	39991
		F35W/T5/865	6500	85	30000	36000	3400	3090	40	A	205	0.175	39992

## LongLast™ Starcoat™ T5 High Output (HO) lead free products

Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8")													
24	549	F24W/T5/827	2720	85	30000	36000	2000	1750	30	A	77	0.295	90262
		F24W/T5/830	2940	85	30000	36000	2000	1750	30	A	77	0.295	90264
		F24W/T5/835	3450	85	30000	36000	2000	1750	30	A	77	0.295	90264
		F24W/T5/840	4040	85	30000	36000	2000	1750	30	A	77	0.295	90265
		F24W/T5/865	6500	85	30000	36000	1900	1600	30	A	77	0.295	90266
39	849	F39W/T5/827	2720	85	30000	36000	3500	3200	30	A	118	0.325	90267
		F39W/T5/830	2940	85	30000	36000	3500	3200	30	A	118	0.325	90268
		F39W/T5/835	3450	85	30000	36000	3500	3200	30	A	118	0.325	90269
		F39W/T5/840	4040	85	30000	36000	3500	3200	30	A	118	0.325	90270
		F39W/T5/865	6500	85	30000	36000	3300	2950	30	A	118	0.325	90271
49	1449	F49W/T5/827	2720	85	30000	36000	4900	4450	30	A	195	0.255	90277
		F49W/T5/830	2940	85	30000	36000	4900	4450	30	A	195	0.255	90278
		F49W/T5/835	3450	85	30000	36000	4900	4450	30	A	195	0.255	90279
		F49W/T5/840	4040	85	30000	36000	4900	4450	30	A	195	0.255	90280
		F49W/T5/865	6500	85	30000	36000	4650	4100	30	A	195	0.255	90281
54	1149	F54W/T5/827	2720	85	30000	36000	5000	4460	30	A	120	0.455	90272
		F54W/T5/830	2940	85	30000	36000	5000	4460	30	A	120	0.455	90273
		F54W/T5/835	3450	85	30000	36000	5000	4460	30	A	120	0.455	90274
		F54W/T5/840	4040	85	30000	36000	5000	4460	30	A	120	0.455	90275
		F54W/T5/865	6500	85	30000	36000	4750	4100	30	A	120	0.455	90276
80	1449	F80W/T5/827	2720	85	30000	36000	7000	6450	30	A	152	0.53	90282
		F80W/T5/830	2940	85	30000	36000	7000	6450	30	A	152	0.53	90283
		F80W/T5/840	4040	85	30000	36000	7000	6450	30	A	152	0.53	90285
		F80W/T5/865	6500	85	30000	36000	6650	5950	30	A	152	0.53	90286

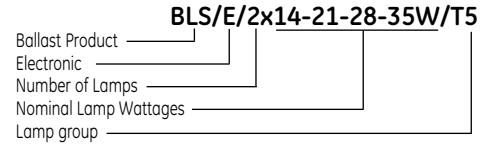


Watt	Length mm	Product Description	CCT K	CRI Ra	Rated Average Life Hours (3-hr cycle)	Rated Average Life Hours (12-hr cycle)	Initial lumens at 35°C	Initial lumens at 25°C	Pack Qty	EE Class	Volts	I (A)	Product Code
<b>INDUSTRIAL PACK</b>													
<b>24</b>	549	<b>F24W/T5/827</b>	2720	85	30000	36000	2000	1750	40	A	77	0.295	<b>39994</b>
		<b>F24W/T5/830</b>	2940	85	30000	36000	2000	1750	40	A	77	0.295	<b>39998</b>
		<b>F24W/T5/835</b>	3450	85	30000	36000	2000	1750	40	A	77	0.295	<b>90196</b>
		<b>F24W/T5/840</b>	4040	85	30000	36000	2000	1750	40	A	77	0.295	<b>90197</b>
		<b>F24W/T5/865</b>	6500	85	30000	36000	1900	1600	40	A	77	0.295	<b>90198</b>
<b>39</b>	849	<b>F39W/T5/827</b>	2720	85	30000	36000	3500	3200	40	A	118	0.325	<b>90200</b>
		<b>F39W/T5/830</b>	2940	85	30000	36000	3500	3200	40	A	118	0.325	<b>90201</b>
		<b>F39W/T5/835</b>	3450	85	30000	36000	3500	3200	40	A	118	0.325	<b>90202</b>
		<b>F39W/T5/840</b>	4040	85	30000	36000	3500	3200	40	A	118	0.325	<b>90203</b>
		<b>F39W/T5/865</b>	6500	85	30000	36000	3330	2950	40	A	118	0.325	<b>90204</b>
<b>49</b>	1449	<b>F49W/T5/827</b>	2720	85	30000	36000	4900	4450	40	A	195	0.255	<b>90220</b>
		<b>F49W/T5/830</b>	2940	85	30000	36000	4900	4450	40	A	195	0.255	<b>90219</b>
		<b>F49W/T5/835</b>	3450	85	30000	36000	4900	4450	40	A	195	0.255	<b>90221</b>
		<b>F49W/T5/840</b>	4040	85	30000	36000	4900	4450	40	A	195	0.255	<b>90223</b>
		<b>F49W/T5/865</b>	6500	85	30000	36000	4650	4100	40	A	195	0.255	<b>90224</b>
<b>54</b>	1149	<b>F54W/T5/827</b>	2720	85	30000	36000	5000	4460	40	A	120	0.455	<b>90205</b>
		<b>F54W/T5/830</b>	2940	85	30000	36000	5000	4460	40	A	120	0.455	<b>90232</b>
		<b>F54W/T5/835</b>	3450	85	30000	36000	5000	4460	40	A	120	0.455	<b>90206</b>
		<b>F54W/T5/840</b>	4040	85	30000	36000	5000	4460	40	A	120	0.455	<b>90209</b>
		<b>F54W/T5/865</b>	6500	85	30000	36000	4750	4100	40	A	120	0.455	<b>90211</b>
<b>80</b>	1449	<b>F80W/T5/827</b>	2720	85	30000	36000	7000	6450	40	A	152	0.53	<b>90225</b>
		<b>F80W/T5/830</b>	2940	85	30000	36000	7000	6450	40	A	152	0.53	<b>90226</b>
		<b>F80W/T5/835</b>	3450	85	30000	36000	7000	6450	40	A	152	0.53	<b>90227</b>
		<b>F80W/T5/840</b>	4040	85	30000	36000	7000	6450	40	A	152	0.53	<b>90228</b>
		<b>F80W/T5/865</b>	6500	85	30000	36000	6650	5950	40	B	152	0.53	<b>90229</b>



## GE Electronic T5 Ballast

Watts	with 1 lamp Product Description	Product Code	with 2 lamp Product Description	Product Code	with 3 lamp Product Description	Product Code	with 4 lamp Product Description	Product Code
<b>High Efficiency</b>								
14	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905	BLS/E/3-4x14W/T5	70908	BLS/E/3-4x14W/T5	70908
21	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
28	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
35	BLS/E/1x14-21-28-35W/T5	70927	BLS/E/2x14-21-28-35W/T5	70905				
<b>High Output</b>								
24	BLS/E/2x24W/T5	70914						
39			BLS/E/2x39W/T5	70915				
54			BLS/E/2x54W/T5	70912				
80	BLS/E/1x80W/T5	70913						



## GE Electronic Ultrastart™ Ballast

Model	Line Volts	No. of Lamps	Lamp Type	Input Watts	Normal Line Amps	Ballast Factor	Power Factor	Harmonic Total	Crest Factor	CELMA EE=A2	Product Code
<b>BLS/E/2x14-21-28-35W</b>	230	2	F35T5HE	77.5	0.34	1.00	0.99	6.0%	1.52	YES	<b>88679</b>
	230	2	F28T5HE	62.2	0.28	0.99	0.98	6.6%	1.51	YES	
	230	2	F21T5HE	50.4	0.23	1.04	0.97	7.4%	1.60	YES	
	230	2	F14T5HE	35.8	0.17	1.05	0.93	8.6%	1.62	YES	
<b>BLS/E/3-4x14W</b>	230	4	F14T5WM	59.1	0.26	1.00	0.99	6.2%	1.59	YES	<b>88678</b>
	230	3	F14T5WM	46.1	0.20	1.02	0.98	7.1%	1.52	YES	
	230	4	F14T5HE	63.5	0.28	1.02	0.99	6.2%	1.59	YES	
	230	3	F14T5HE	49.5	0.22	1.04	0.98	6.8%	1.52	YES	

## T5 Miniature

Watt	Length Ft	Length mm	Product Description	Colour/ Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 35°C	Pack Qty	EE Class	Volts	I (A)	Product Code
T5 (Ø 16mm – 5/8") Standard Halophosphate													
<b>4</b>	6in	150	<b>F4W/33</b>	Cool White	4040	58	5000	130	25	B	29	0.17	<b>39441</b>
			<b>F4W/35</b>	White	3450	54	5000	130	25	B			<b>39446</b>
<b>6</b>	9in	225	<b>F6W/33</b>	Cool White	4040	58	5000	260	25	B	42	0.16	<b>39445</b>
			<b>F6W/35</b>	White	3450	54	5000	260	25	B			<b>39442</b>
<b>8</b>	12in	300	<b>F8W/29</b>	Warm White	2940	51	5000	395	25	B	56	0.145	<b>37754</b>
			<b>F8W/33</b>	Cool White	4040	58	5000	395	25	B			<b>37755</b>
			<b>F8W/33BP</b>	Cool White	4040	58	5000	395	100	B			<b>37001</b>
			<b>F8W/35</b>	White	3450	54	5000	395	25	B			<b>37756</b>
<b>13</b>	21in	525	<b>F13W/29</b>	Warm White	2940	51	5000	850	25	B	95	0.165	<b>39437</b>
			<b>F13W/33</b>	Cool White	4040	58	5000	850	25	B			<b>39440</b>
			<b>F13W/35</b>	White	3450	54	5000	850	25	B			<b>39439</b>

## T5 Polylux

<b>8</b>	12in	300	<b>F8W/827BP</b>	Polylux 827	2720	80+	5000	460	100	B	56	0.143	<b>37008</b>
			<b>F8W/840BP</b>	Polylux 840	4040	80+	5000	460	100	B	56	0.143	<b>37009</b>
<b>13</b>	21in	525	<b>F13W/827</b>	Polylux 827	2720	80+	5000	970	25	B	95	0.137	<b>39447</b>

## Specfill (Emergency Lighting)

<b>6</b>	225		<b>F6W/T5/Specfill/33Bulk</b>	Cool White			8000	260	100	B	42		<b>40307</b>
<b>6</b>	225		<b>F6W/T5/Specfill/35Bulk</b>	White			8000	260	100	B	42		<b>40322</b>
<b>6</b>	225		<b>F6W/T5/Specfill/840Bulk</b>	Polylux 840			8000	300	100	B	42		<b>40327</b>
<b>8</b>	300		<b>F8/T5/33/GE</b>	Cool White			8000	390	100	B	56		<b>91450</b>
<b>8</b>	300		<b>F8/T5/35/GE</b>	White			8000	400	100	B	56		<b>91451</b>
<b>8</b>	300		<b>F8/T5/33/GE</b>	Cool White			8000	400	25	B	56		<b>27011</b>
<b>8</b>	300		<b>F8/T5/35/GE</b>	White			8000	400	25	B	56		<b>27027</b>
<b>8</b>	300			Polylux 840			8000	460	100	B	56		<b>40331</b>
<b>13</b>	525		<b>F13W/T5/Specfill/840Bulk</b>	Polylux™ 840			8000	970	100	B	56		<b>45695</b>

## T5 Blacklight Blue

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	Spectral Peak	Rated Average Life Hours	Irradiance nW/cm²	Pack Qty	EE Class	Cap	Product Code
T5 (Ø 16mm – 5/8")												
<b>4</b>	6in	150	<b>F4W/BLB Blacklight Blue</b>	-	368nm	368nm	5000	5.4	25	B	G5	<b>39882</b>
<b>6</b>	9in	225	<b>F6W/BLB Blacklight Blue</b>	-	368nm	368nm	5000	9.7	25	B	G5	<b>39883</b>
<b>8</b>	12in	300	<b>F8W/BLB Blacklight Blue</b>	-	368nm	368nm	6000	14	25	B	G5	<b>39884</b>



# T5 Miniature Standard, Polylux™ and Specfill™ Lamps

## T5 Miniature Lamps



T5 Miniature fluorescent lamps are designed for confined spaces in household and industrial applications. These lamps are widely used in different applications such as furniture cabinets, mobile homes as well as sign illumination. T5 Miniature lamps are well suited for use in maintained and non-maintained emergency modules and escape signs. All T5 lamps are environmentally friendly products – ROHS compliant & contains recyclable components.



# Fluorescent lamps

## Polylux XLR™ Triphosphor fluorescent tubes



### Less lamps – more light

GE Polylux XLR™ lamps with excellent lumen output, energy efficiency up to 93lm/Watt:

- Extra long life 20,000 hours\*
- Excellent colour rendering (CRI Ra: 85) and superior lumen maintenance
- Superior service life of 13,000 hours on 3 hours burning cycle
- Precise mercury dosing system push early failure level down to a minimum
- Extended relamping cycles
- Increased performance reliability between relamping cycle
- Less waste over time – lamp disposal and packaging
- Up to 18% more light
- Fewer lamps are required to achieve the same illumination level

\*15,000 hours life on conventional gear - Average rated life to 50% survival based on 3 hours switching cycle in accordance with International Standard IEC60082/EN60081



### Colour 827 (Extra Warm)

- Restaurants
- Hotels
- Plazas



### Colour 830 (Warm White)

- Retail
- Schools, gyms
- Reception areas



### Colour 840 (Cool White)

- Offices
- Sport halls
- Hospitals



### Colour 835 (White)

- General
- Commercial/industrial



### Colour 860 (Daylight)

- Display/Galleries
- Specialist industries (e.g. Textiles, Printing)



## T8 Polylux XLR™ – Reduced mercury and recyclable

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (ø26mm – 1")											
15	18 in	450	F15W/827	PolyLux XLR 827	2720	85	15000	1000	25	B	23247
			F15W/830	PolyLux XLR 830	2940	85	15000	1000	25	B	23248
			F15W/840	PolyLux XLR 840	4040	85	15000	1000	25	B	23249
18	2ft	600	F18W/827	PolyLux XLR 827	2720	85	15000	1350	25	A	93315
			F18W/830	PolyLux XLR 830	2940	85	15000	1350	25	A	93319
			F18W/835	PolyLux XLR 835	3450	85	15000	1350	25	A	93311
			F18W/840	PolyLux XLR 840	4040	85	15000	1350	25	A	93317
			F18W/860	PolyLux XLR 860	6400	85	15000	1300	25	A	12606
30	3ft	900	F30W/827	PolyLux XLR 827	2720	85	15000	2450	25	A	18138
			F30W/830	PolyLux XLR 830	2940	85	15000	2450	25	A	18141
			F30W/840	PolyLux XLR 840	4040	85	15000	2450	25	A	18142
36		970	F36W1M/830	PolyLux XLR 830	2940	85	15000	3100	25	A	23260
			F36W1M/840	PolyLux XLR 840	4040	85	15000	3100	25	A	23262
36	4ft	1200	F36W/827	PolyLux XLR 830	2720	85	15000	3350	25	A	19977
			F36W/830	PolyLux XLR 840	2940	85	15000	3350	25	A	18192
			F36W/835	PolyLux XLR 835	3450	85	15000	3350	25	A	19991
			F36W/840	PolyLux XLR 840	4040	85	15000	3350	25	A	16856
			F36W/860	PolyLux XLR 860	6400	85	15000	3250	25	A	12942
58	5ft	1500	F58W/827	PolyLux XLR 827	2720	85	15000	5200	25	A	93330
			F58W/830	PolyLux XLR 830	2940	85	15000	5200	25	A	93334
			F58W/835	PolyLux XLR 835	3450	85	15000	5200	25	A	93331
			F58W/840	PolyLux XLR 840	4040	85	15000	5200	25	A	93333
			F58W/860	PolyLux XLR 860	6400	85	15000	5000	25	A	12943
70	6ft	1800	F70W/830	PolyLux XLR 830	2940	85	15000	6300	25	A	42791
			F70W/835	PolyLux XLR 835	3450	85	15000	6300	25	A	42792
			F70W/840	PolyLux XLR 840	4040	85	15000	6300	25	A	42793

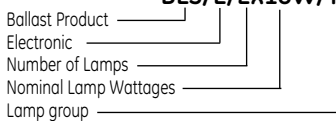


Polylux XLR™ Rated Average Life on HF Electronic gear: 20000 hrs

## GE Electronic T8 Ballast

Watts	with 1 lamp		with 2 lamp		with 3 lamp		with 4 lamp	
	Product Description	Product Code	Product Description	Product Code	Product Description	Product Code	Product Description	Product Code
18	BLS/E/1x18W/T8	70917	BLS/E/2x18W/T8	70918	BLS/E/3-4x18W/T8	70919	BLS/E/3-4x18W/T8	70919
36	BLS/E/1x36W/T8	70921	BLS/E/2x36W/T8	70922				
58	BLS/E/1x58W/T8	70923	BLS/E/2x58W/T8	70924				
70	BLS/E/1x70W/T8	70926	BLS/E/2x70W/T8	70925				

### BLS/E/2x18W/T8



# Fluorescent lamps

## T8 Polylux™ XLR™ LongLast Range

Outstanding reliability with up to 42,000 hours life!

In today's business environment there is an increased need for lighting products that help to minimize operational costs and yet also provide environmentally responsible design.

GE's T8 Polylux™ XLR™ LongLast range was designed to further improve reliability and drastically increase life performance without compromising on initial lumen and lumen maintenance.

### Benefits

- Long and reliable product life – up to 42,000 hours
- Superior service life – up to 32,000 hours – ideal for group replacements
- Comprehensive product range – 18W, 36W, 58W and 70W
- Best in class performance - light output is same as for standard T8 Polylux™ XLR™
- Excellent lumen maintenance
- Outstanding color rendering through the advanced XLR™ coating technology
- Environmentally friendly product – ROHS compliant & contains recyclable components
- Can be used on existing control gears and fixtures

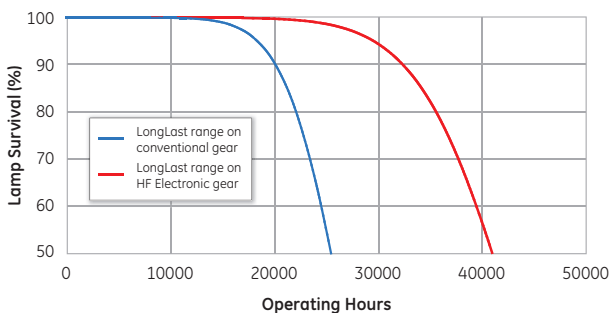
### Application

GE Polylux™ T8 XLR™ LongLast range is an ideal choice for applications with high maintenance costs:

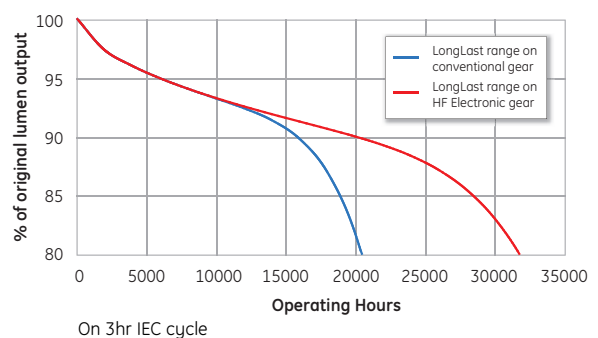
- Store lighting
- Warehouse lighting
- Industrial lighting
- Public buildings and areas



Life Expectancy



Service Life



### T8 Polylux™ XLR™ LongLast Range

Watts	Length (mm)	Product Description	CCT K	Initial Lumens	CRI	Average life	Service life	Product Code
T8 (ø 26 mm – 1")								
18	600	F18W/T8/XLR/LL/830	2940	1350	85	42000	32000	70980
18	600	F18W/T8/XLR/LL/840	4040	1350	85	42000	32000	70981
36	1200	F36W/T8/XLR/LL/830	2940	3350	85	42000	32000	43508
36	1200	F36W/T8/XLR/LL/840	4040	3350	85	42000	32000	43509
58	1500	F58W/T8/XLR/LL/830	2940	5200	85	42000	32000	43510
58	1500	F58W/T8/XLR/LL/840	4040	5200	85	42000	32000	43511
70	1800	F70W/T8/XLR/LL/830	2940	6300	85	42000	32000	43513
70	1800	F70W/T8/XLR/LL/840	4040	6300	85	42000	32000	43514

Average life on conventional gear: 24000hrs  
Service life on conventional gear: 21000hrs



## T8 Watt-Miser™ lamp

GE's new Watt-Miser™ fluorescent range will save money on your lighting costs. They use less energy than similar products on the market and help reduce your organisation's carbon footprint.

GE is working hard to develop technology that reduces the environmental impact of its lighting products. The Watt-Miser™ range of lamps are ideal for office, retail, property management, commercial and industrial applications where lighting is a significant part of energy costs and hence where significant energy savings can be made.



### Energy Savers

- More than 10% energy saving with existing fittings and control gear
- Same colour performance, life and lumen maintenance as Triphosphor T8
- Excellent lumen maintenance



### T8 Watt-Miser™

Nominal Watt	Actual Watt	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Pack Qty	EE Class	Product Code
18	16	600	TU F18/T8/830/GE/ 16W WATT-MISER/SL 1-25	Polylux XLR 830	2940	85	15000	25	A	73605
18	16	600	TU F18/T8/835/GE/ 16W WATT-MISER/SL 1-25	Polylux XLR 835	3450	85	15000	25	A	73606
18	16	600	TU F18/T8/840/GE/ 16W WATT-MISER/SL 1-25	Polylux XLR 840	4040	85	15000	25	A	73607
18	16	600	TU F18/T8/860/GE/ 16W WATT-MISER/SL 1-25	Polylux XLR 860	6400	85	15000	25	A	73608
36	32	1200	TU F36/T8/830/GE/32W WATT-MISER/SL 1-25	Polylux XLR 830	2940	85	15000	25	A	96748
36	32	1200	TU F36/T8/835/GE/32W WATT-MISER/SL 1-25	Polylux XLR 835	3450	85	15000	25	A	96749
36	32	1200	TU F36/T8/840/GE/32W WATT-MISER/SL 1-25	Polylux XLR 840	4040	85	15000	25	A	96750
36	32	1200	TU F36/T8/860/GE/32W WATT-MISER/SL 1-25	Polylux XLR 860	6400	85	15000	25	A	96747



## T8 Standard Halophosphate

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T8 (Ø 26mm - 1")											
<b>15</b>	18in	450	<b>F15W/29</b>	Warm White	2940	51	9000	850	25	B	<b>29527</b>
			<b>F15W/35</b>	White	3450	54	9000	850	25	B	<b>29531</b>
			<b>F15W/25</b>	Natural White	4000	70	9000	775	25	B	<b>29533</b>
			<b>F15W/33</b>	Cool White	4040	58	9000	850	25	B	<b>29524</b>
			<b>F15W/54</b>	Daylight	6400	76	9000	750	25	B	<b>29534</b>
			<b>F15W/55</b>	Northlight	6300	93	9000	550	25	B	<b>29687</b>
<b>18</b>	2ft	600	<b>F18W/29</b>	Warm White	2940	51	9000	1150	25	B	<b>29546</b>
			<b>F18W/35</b>	White	3450	54	9000	1150	25	B	<b>37139</b>
			<b>F18W/33</b>	Cool White	4040	58	9000	1150	25	B	<b>35098</b>
			<b>F18W/25</b>	Natural	4000	70	9000	1100	25	B	<b>29548</b>
			<b>F18W/54</b>	Daylight	6400	76	9000	950	25	B	<b>34883</b>
<b>30</b>	3ft	900	<b>F30W/29</b>	Warm White	2940	51	9000	2250	25	B	<b>18145</b>
			<b>F30W/35</b>	White	3450	54	9000	2250	25	B	<b>18147</b>
			<b>F30W/33</b>	Cool White	4040	58	9000	2175	25	B	<b>18137</b>
			<b>F30W/25</b>	Natural	4000	70	9000	1900	25	B	<b>17525</b>
			<b>F30W/54</b>	Daylight	6000	76	9000	1850	25	B	<b>18146</b>
<b>36</b>	-	970	<b>F36WM/33</b>	Cool White	4040	58	9000	2600	25	B	<b>92518</b>
			<b>F36WM/25</b>	Natural	4000	70	9000	2250	25	B	<b>92517</b>
			<b>F36WM/54</b>	Daylight	6400	76	9000	1900	25	B	<b>92519</b>
<b>36</b>	4ft	1200	<b>F36W/29</b>	Warm White	2940	51	9000	2850	25	B	<b>29565</b>
			<b>F36W/35</b>	White	3450	54	9000	2850	25	B	<b>37734</b>
			<b>F36W/33</b>	Cool White	4040	58	9000	2850	25	B	<b>35099</b>
			<b>F36W/54</b>	Daylight	6400	76	9000	2350	25	B	<b>34886</b>
			<b>F36W/25</b>	Natural	4000	70	9000	2600	25	B	<b>29568</b>
<b>38</b>	3.5ft	1050	<b>F38W/35</b>	White	3450	54	9000	2850	25	B	<b>92520</b>
<b>58</b>	5ft	1500	<b>F58W/29</b>	Warm White	2940	51	9000	4600	25	B	<b>29571/ 35354*</b>
			<b>F58W/35</b>	White	3450	54	9000	4600	25	B	<b>29575/ 37627*</b>
			<b>F58W/33</b>	Cool White	4000	58	9000	4600	25	B	<b>29570/ 35353*</b>
			<b>F58W/25</b>	Natural	4040	70	9000	4100	25	B	<b>29577</b>
			<b>F58W/54</b>	Daylight	6400	76	9000	3750	25	B	<b>29580/ 35355*</b>
<b>70</b>	6ft	1800	<b>F70W/29</b>	Warm White	2940	51	9000	5550	25	B	<b>40681</b>
			<b>F70W/35</b>	White	3450	54	9000	5550	25	B	<b>40683</b>
			<b>F70W/33</b>	Cool White	4040	58	9000	5450	25	B	<b>40679</b>

\* Products for UK and Ireland market



## Don't let an accident cause an incident



Cov-R-Guard™

In some situations a broken tube could have serious consequences. For example, fragments of glass could fall on a food production line, merchandise, employees, customers, or somewhere out of sight. This could typically happen due to accidental impact or during re-lamping. GE shatter protection covRguard™ T5 tubes combine the efficiency of T5 tubes with the safety of a protective sleeve which effectively contains the glass fragments and phosphors if the lamp is broken. In some situations regulations stipulate protection and covRguard™ is the perfect solution.

- Complete shatter protection
- Quality protective sleeving
- Dependable UV- blocking
- Safety without sacrificing performance
- Cov-R-Guard™ lamps benefit from Polylux XLR™ triphosphor technology
- Long life
- Outstanding colour reproduction
- Excellent light output over life
- Reduced mercury content

### Cov-R-Guard™ lamps

Wrapped in a casing of polycarbonate plastic that effectively contains glass fragments and phosphor if the lamp is broken. The casing allows for maximum protection with minimum light loss – keeping your installation bright and safe. Both the casing and the lamp are fully recyclable, once separated.



### Applications:

- food processing • hospitals • supermarkets
- schools • pharmaceutical • commercial kitchens
- trains

## T8 Cov-R-Guard™ Polylux XLR™ – with Polycarbonate Shield



Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (∅ 26mm – 1")											
18	2ft	600	F18W/830	CVG/XLR 830	2940	85	15000	1300	25	A	17203
			F18W/835	CVG/XLR 835	3450	85	15000	1300	25	A	17204
			F18W/840	CVG/XLR 840	4040	85	15000	1300	25	A	17205
36	4ft	1200	F36W/830	CVG/XLR 830	2940	85	15000	3250	25	A	17208
			F36W/835	CVG/XLR 835	3450	85	15000	3250	25	A	17202
			F36W/840	CVG/XLR 840	4040	85	15000	3250	25	A	17209
58	5ft	1500	F58W/830	CVG/XLR 830	2940	85	15000	5050	25	A	12403
			F58W/835	CVG/XLR 835	3450	85	15000	5050	25	A	12405
			F58W/840	CVG/XLR 840	4040	85	15000	5050	25	A	12407
70	6ft	1800	F70W/830	CVG/XLR 830	2940	85	15000	6100	25	A	12421
			F70W/835	CVG/XLR 835	3450	85	15000	6100	25	A	12423
			F70W/840	CVG/XLR 840	4040	85	15000	6100	25	A	12424

Polylux XLR™ Cov-R-Guard Rated Average Life on HF Electronic gear : 20000 hrs  
 Polylux XLR™ Rated Average Life on HF Electronic gear : 20000 hrs

## T8 Special Colours

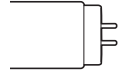


Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T8 (∅ 26mm – 1")											
15	18in	450	F15W/AR/FR	Fresh Aqua	5000	-	9000	400	10	B	16977
			F15W/AR/FS	Fresh & Salt Aqua	9000+	-	9000	700	10	B	16965
			F15W/AR/SA	Salt Water	9000+	-	7500	210	10	B	16987
			F15W/AR/REP	Reptile	6400	82	7500	400	10	B	17002
18	2ft	600	F18W/AR/FR	Fresh Aqua	5000	-	7500	600	10	B	16979
			F18W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	950	10	B	16966
			F18W/AR/SA	Salt Water	9000+	-	7500	270	10	B	16988
			F18W/AR/REP	Reptile	6400	82	7500	550	10	B	17003
25	2.5ft	750	F25W/AR/FR	Fresh Aqua	5000	-	7500	805	10	B	16980
			F25W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	1350	10	B	16968
			F25W/AR/SA	Salt Water	9000+	-	7500	430	10	B	16991
30	3ft	900	F30W/AR/FR	Fresh Aqua	5000	-	7500	1035	10	B	16981
			F30W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	1700	10	B	16969
			F30W/AR/SA	Salt Water	9000+	-	7500	540	10	B	16992
			F30W/AR/REP	Reptile	6400	82	7500	1100	10	B	17004
36	4ft	1200	F36W/AR/FR	Fresh Aqua	5000	-	7500	1425	10	B	16982
			F36W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	2350	10	B	16970
			F36W/AR/SA	Salt Water	9000+	-	7500	700	10	B	16995
			F36W/AR/REP	Reptile	6400	82	7500	1250	10	B	17006
38	3.5ft	1050	F38W/AR/FR	Fresh Aqua	5000	-	7500	1320	10	B	16984
			F38W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	2200	10	B	16971
			F38W/AR/SA	Salt Water	9000+	-	7500	650	10	B	16999
58	5ft	1500	F58W/AR/FR	Fresh Aqua	5000	-	7500	2225	10	B	16985
			F58W/AR/FS	Fresh & Salt Aqua	9000+	-	15000	3750	10	B	16972
			F58W/AR/SA	Salt Water	9000+	-	7500	1100	10	B	17000



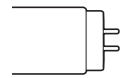
## T12 Polylux

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
40	4ft	1200	F40/840	Polylux 840	4040	80+	12000	6550	25	B	10572
75	6ft	1800	F75W/840	Polylux 840	4040	80+	12000	6550	25	B	43662
85	8ft	2400	F85W/840	Polylux 840	4040	80+	12000	7900	25	B	30642
100	8ft	2400	F100W/830	Polylux 830	2940	80+	12000	9100	25	B	43665



## T12 Rapid Start

Watt	Length Ft	Length mm	Product Description	Product Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
20	2ft	600	F20W/33/RS	3 Cool White	4040	58	9000	1150	25	B	29758
20			F20W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	1150	25	B	39929
20			F20W/54/IRS/RS GE 1/25	54 Daylight	6400	76	9000	950	25	B	39945
20			F20W T12 54 RS GE 1/25	54 Daylight	6400	76	9000	950	25	B	93371
40	4ft	1200	F40W/33/RS	33 Cool White	4040	58	9000	2950	25	B	29775
40			F40W/29/RS	29 Warm White	2940	51	9000	2950	25	B	29776
40			F40W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	2950	25	B	39943
40			F40W/54/IRS/RS GE 1/25	54 Daylight	6400	76	9000	2450	25	B	39944
40			F40W T12 54 RS GE 1/25	54 Daylight	6400	76	9000	2450	25	B	93372
65	5ft	1500	T12F65W/33/RS	33 Cool White	4040	58	9000	4750	25	B	29791
65			F65W/33/IRS/RS GE 1/25	33 Cool White	4040	58	9000	4750	25	B	39941



## T12 Standard Halophosphate

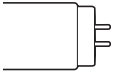
Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
20	2ft	600	F20W/29	Warm White	2940	51	9000	1150	25	B	29747
			F20W/35	White	3450	54	9000	1150	25	B	29748
			F20W/33	Cool White	4040	58	9000	1150	25	B	29746
			F20W/54	Daylight	6400	76	9000	950	25	B	29750
40	2ft	600	F40W2/35	White	3450	54	9000	1850	25	B	29762
40	4ft	1200	F40W/29	Warm White	2940	51	9000	2950	25	B	29767
			F40W/35	White	3450	54	9000	2950	25	B	29769
			F40W/33	Cool White	4040	58	9000	2950	25	B	29765
			F40W/25	Natural White	4000	70	9000	2500	25	B	29770
			F40W/54	Daylight	6400	76	9000	2450	25	B	29771
65	5ft	1500	F65W/29	Warm White	2940	51	9000	4750	25	B	29780
			F65W/35	White	3450	54	9000	4750	25	B	27646
			F65W/33	Cool White	4040	58	9000	4750	25	B	29779
			F65W/25	Natural	4000	70	9000	4000	25	B	29783
			F65W/54	Daylight	6400	76	9000	3900	25	B	29784
75	6ft	1800	F75W/29	Warm White	2940	51	9000	5750	25	B	43648
			F75W/35	White	3450	54	9000	5750	25	B	43649
			F75W/33	Cool White	4040	58	9000	5700	25	B	43647
85	8ft	2400	F85W/35	White	3450	54	9000	7100	25	B	31244
100	8ft	2400	F100W/35	White	3450	54	9000	8300	25	B	43654
			F100W/33	Cool White	4040	58	9000	8100	25	B	43655
125	8ft	2400	F125W/35	White	3450	54	9000	9200	25	B	43657
			F125W/54	Daylight	6500	76	9000	7500	25	B	43659



# Fluorescent lamps

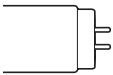
## T12 Blacklight Blue

Watt	Length Ft	Length mm	Product Description	Colour Type	Spectral Peak	Irradiance nW/cm <sup>2</sup>	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T12 (Ø 38mm - 111/2")											
20		600	F20W/BLB	Blacklight Blue	-	-	9000	-	6	-	34747
40		1200	F40W/BLB	Blacklight Blue	-	-	20000	-	6	-	25618



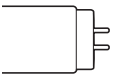
## T12 HO and VHO

T12 (Ø 38mm - 111/2")											
110	96in	2400	F96T12/CW/HO	Cool White	4100	60	12000	8900	15	-	12540
215	96in	2400	F96T12/CW/1500	Cool White	4100	60	10000	13500	15	-	13781



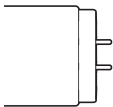
## T12 Slimline™

T12 (Ø 38mm - 111/2")											
75	96in	2400	F96T12/CW	Cool White	4150	60	12000	6150	15	-	25619



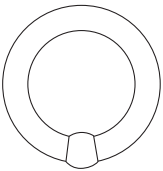
## T17 Power Groove® Rapid Start

T17 (Ø 54mm - 211/8")											
215	96in	2400	F96PG17/CW	Cool White	4150	60	10000	14000	8	-	11009



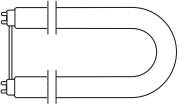
## Circline™

Watt	Length Ft	Length mm	Product Description	Colour Type	CCT K	CRI Ra	Rated Average Life Hours	Initial lumens at 25°C	Pack Qty	EE Class	Product Code
T9 (Ø 34.1mm - 111/8")											
22		209.5	FC8T9/D	Daylight	6400	75	5000	875	12	B	10454
			FC8T9/CW	Cool White	4040	58	5000	1000	12	B	10455
32		311.2	FC12T9/CW	Cool White	4040	62	5000	1825	12	B	10462
			FC12T9/D	Daylight	6400	75	5000	1550	12	B	10456
40		412.6	FC16T9/WW	Warm White	3000	51	5000	2800	12	B	35275
			FC16T9/CW	Cool White	4040	62	5000	2700	12	B	10474
			FC16T9/D	Daylight	6400	75	5000	2500	12	B	10508
60		412.6	FC1660/WW	Warm White	3000	51	12000	3700	12	B	29886



## Mod-U-Line™

T8 (Ø 38mm - 111/2")											
40		525	F40UT8/835	Polylux 835	3450	80+	7500	3250	20	A	29904
			F40UT8/29	Warm White	2940	51	7500	2875	20	B	29888
			F40UT8/35	White	3450	54	7500	2875	20	B	29891
			F40UT8/33	Cool White	4040	58	7500	2875	20	B	29892



## Starters

Order Code	Product Description	Pack Qty	Product Code
155/200	15/22W 110V single or 220/240V twin	250 (10 x 25)	36711
155/200		2000	36714
155/500	4/65W universal 220/240V	250 (10 x 25)	36536
155/500		2000	36537
155/800	75/125W 240V	250 (10 x 25)	37864
155/801	70/100W 240V	250 (10 x 25)	37975
155/801		2000	37974



## Fluorescent lamps

Fluorescent lamps provide a much more dispersed light than 'point' sources such as incandescent, halogen or discharge lamps. This quality, along with their outstanding energy efficiency, make them ideally suited for lighting large open areas such as offices and industrial buildings. Standard fluorescent lamps use halophosphate lamp coatings. These lamps are used where low initial cost is the most important factor. However, higher performance lamps using triphosphor coatings, such as GE's PolyLux XLR™ lamps, are now increasingly being used as they provide significant energy savings.

### The effects of switching on+off

Frequent switching on+off of fluorescent lamps can reduce their operational life. The graph, Fig 1 below, shows the effect on a lamp's life of different switching cycles. Although a lamp that is only switched on and off rarely will last longer, light output does fall in the latter stage of a lamp's life.

### The effects of temperature change

Fluorescent lamps are designed to produce their optimum light output at an ambient temperature of 25°C. However, when installed in a lamp fitting, the temperature of the air surrounding a lamp can change and affect the light output of the lamp. The effects of changes in ambient temperature for a typical lamp are shown in the graph, Fig 2 below.

### Using electronic ballasts

The efficiency of fluorescent lamps can be improved by increasing the frequency of the mains voltage supplied to them. Electronic ballasts and controls can be used to increase the normal mains frequency of 50/60Hz to 25/30KHz improving lamp efficiency by approximately 10%. Electronic ballasts also consume less power than conventional ballasts and when combined with other efficiency benefits, electronic ballasts can achieve power savings of around 20% compared to conventional 50/60Hz systems with the same light output levels.

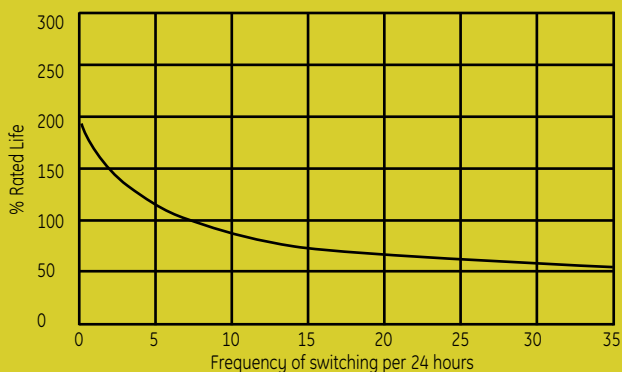
### Light-output data

The lumen output figures quoted are measured at 25°C in accordance with EN60081 and EN60901.

### Caution notice

Handle and install all fluorescent lamps with care. Turn off power before installing lamps.

**Fig 1** Effect on life of different switching cycles



**Fig 2** light output relative to ambient temperature

