

# Compact fluorescent lamps

# Compact fluorescent lamps

**GE's compact fluorescent lamps give you more light and less heat, converting up to 25% of the electricity they use into light. Incandescent lamps convert just 5% into light and the remaining 95% into heat.**

Because they use less energy you pay less for your lighting. They also last up to 15 times as long as incandescent lamps, so you spend less on maintenance.

While you save on cost with GE compact fluorescents, you lose nothing in quality. Colours are reproduced accurately and flicker-free light output is maintained for the whole of the lamp's life.



## Compact Fluorescent

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Compact Fluorescent Lamps



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## GE Biax™ Lamps

## Compact Fluorescent Selector

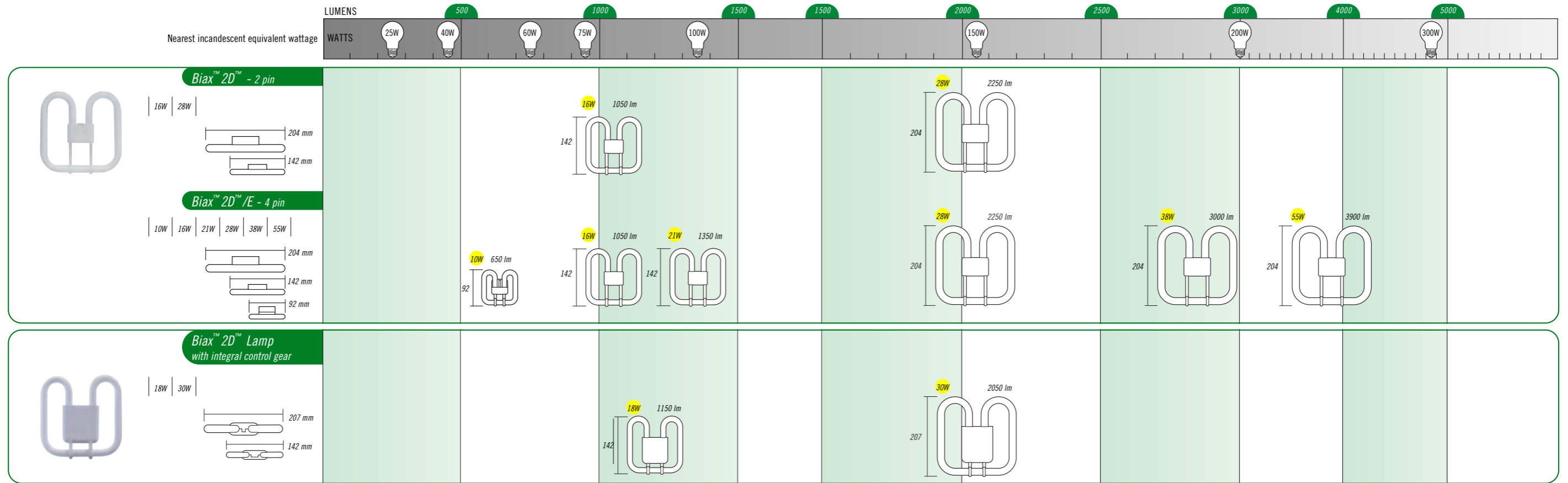
LUMENS	WATTS												
	25W	40W	60W	75W	100W	150W	150W	200W	200W	300W	500W		
<b>Biax™ L - 4 pin</b>	18W   24W   34W   36W   40W   55W					18W   1250 lm 228		24W   1800 lm 323.4	34W   2800 lm 535	36W   2900 lm 418.4	40W   3500 lm 535	55W   4850 lm 570.8	
<b>Biax™ S - 2 pin</b>	5W   7W   9W   11W												
<b>Biax™ S/E - 4 pin</b>	5W   7W   9W   11W												
<b>Biax™ D - 2 pin</b>	10W   13W   18W   26W					10W   600 lm 108.5	13W   900 lm 133	18W   1200 lm 154		26W   1710 lm 169.5			
<b>Biax™ D/E - 4 pin</b>	10W   13W   18W   26W					10W   600 lm 101	13W   900 lm 125.5	18W   1200 lm 146.5		26W   1710 lm 162			
<b>Biax™ T - 2 pin</b>	13W   18W   26W												
<b>Biax™ T/E - 4 pin</b>	13W   18W   26W   32W   42W												
<b>Biax™ Q/E - 4 pin with Amalgam</b>	57W   70W											57W   4300 lm 181	70W   5200 lm 209

# Compact fluorescent lamps

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## GE Biax™ 2D™ Lamps

## Compact Fluorescent Selector
















































# Compact fluorescent lamps

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## GE Electronic Biax™ Lamps

## Compact Fluorescent Selector









LIFE	3000										6000				8000				10000				12000				15000																													
	WATTS										WATTS				WATTS				WATTS				WATTS				WATTS																													
Nearest incandescent equivalent wattage	40W	60W	75W	100W	40W	60W	75W	100W	2x60W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W																											
<b>Extra Mini</b>	 <table border="1"> <tr> <th colspan="2">220/240V</th> <th>9W</th><th>E14</th><th>E27</th><th>B22</th> <th>11W</th><th>E14</th><th>E27</th><th>B22</th> <th>15W</th><th>E27</th><th>B22</th> <th>20W</th><th>E27</th><th>B22</th> </tr> </table>																												220/240V		9W	E14	E27	B22	11W	E14	E27	B22	15W	E27	B22	20W	E27	B22	 480 lm  600 lm  900 lm  1200 lm  42 mm ø  42 mm ø											
220/240V		9W	E14	E27	B22	11W	E14	E27	B22	15W	E27	B22	20W	E27	B22																																									
<b>Tech</b>	 <table border="1"> <tr> <th colspan="2">120/127V</th> <th>15W</th><th>E27</th><th>TBX</th> <th>20W</th><th>E27</th><th>TBX</th> <th>24W</th><th>E27</th><th>QBX</th> <th>28W</th><th>E27</th><th>QBX</th> </tr> <tr> <th colspan="2">220/240V</th> <th>15W</th><th>E27</th><th>B22</th><th>TBX</th> <th>20W</th><th>E27</th><th>B22</th><th>TBX</th> <th>23W</th><th>E27</th><th>QBX</th> </tr> </table>																												120/127V		15W	E27	TBX	20W	E27	TBX	24W	E27	QBX	28W	E27	QBX	220/240V		15W	E27	B22	TBX	20W	E27	B22	TBX	23W	E27	QBX	 900 lm  1200 lm  1520 lm  1800 lm  900 lm  1200 lm  1520 lm  49 mm ø  49 mm ø  58 mm ø  58 mm ø
120/127V		15W	E27	TBX	20W	E27	TBX	24W	E27	QBX	28W	E27	QBX																																											
220/240V		15W	E27	B22	TBX	20W	E27	B22	TBX	23W	E27	QBX																																												
<b>Plus</b>	 <table border="1"> <tr> <th colspan="2">120/127V</th> <th>15W</th><th>E27</th><th>B22</th><th>TBX</th> <th>20W</th><th>E27</th><th>B22</th><th>TBX</th> </tr> </table>																												120/127V		15W	E27	B22	TBX	20W	E27	B22	TBX	 900 lm  1200 lm  49 mm ø  49 mm ø																	
120/127V		15W	E27	B22	TBX	20W	E27	B22	TBX																																															
<b>Eco</b>	 <table border="1"> <tr> <th colspan="2">220/240V</th> <th>9W</th><th>E14</th><th>E27</th><th>B22</th><th>DBX</th> <th>11W</th><th>E14</th><th>E27</th><th>B22</th><th>DBX</th> <th>15W</th><th>E27</th><th>B22</th><th>TBX</th> <th>20W</th><th>E27</th><th>B22</th><th>TBX</th> <th>23W</th><th>E27</th><th>B22</th><th>TBX</th> </tr> </table>																												220/240V		9W	E14	E27	B22	DBX	11W	E14	E27	B22	DBX	15W	E27	B22	TBX	20W	E27	B22	TBX	23W	E27	B22	TBX	 480 lm  900 lm  1200 lm  600 lm  1500 lm  45 mm ø  52 mm ø  52 mm ø  45 mm ø  52 mm ø			
220/240V		9W	E14	E27	B22	DBX	11W	E14	E27	B22	DBX	15W	E27	B22	TBX	20W	E27	B22	TBX	23W	E27	B22	TBX																																	
<b>Start</b>	 <table border="1"> <tr> <th colspan="2">220/240V</th> <th>9W</th><th>E14</th><th>E27</th><th>B22</th><th>DBX</th> <th>11W</th><th>E14</th><th>E27</th><th>B22</th><th>DBX</th> <th>15W</th><th>E27</th><th>B22</th><th>TBX</th> <th>20W</th><th>E27</th><th>B22</th><th>TBX</th> </tr> </table>																												220/240V		9W	E14	E27	B22	DBX	11W	E14	E27	B22	DBX	15W	E27	B22	TBX	20W	E27	B22	TBX	 480 lm  900 lm  600 lm  1200 lm  45 mm ø  52 mm ø  52 mm ø  45 mm ø  52 mm ø							
220/240V		9W	E14	E27	B22	DBX	11W	E14	E27	B22	DBX	15W	E27	B22	TBX	20W	E27	B22	TBX																																					

# Compact fluorescent lamps

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## GE Electronic Biax™ Lamps

## Compact Fluorescent Selector

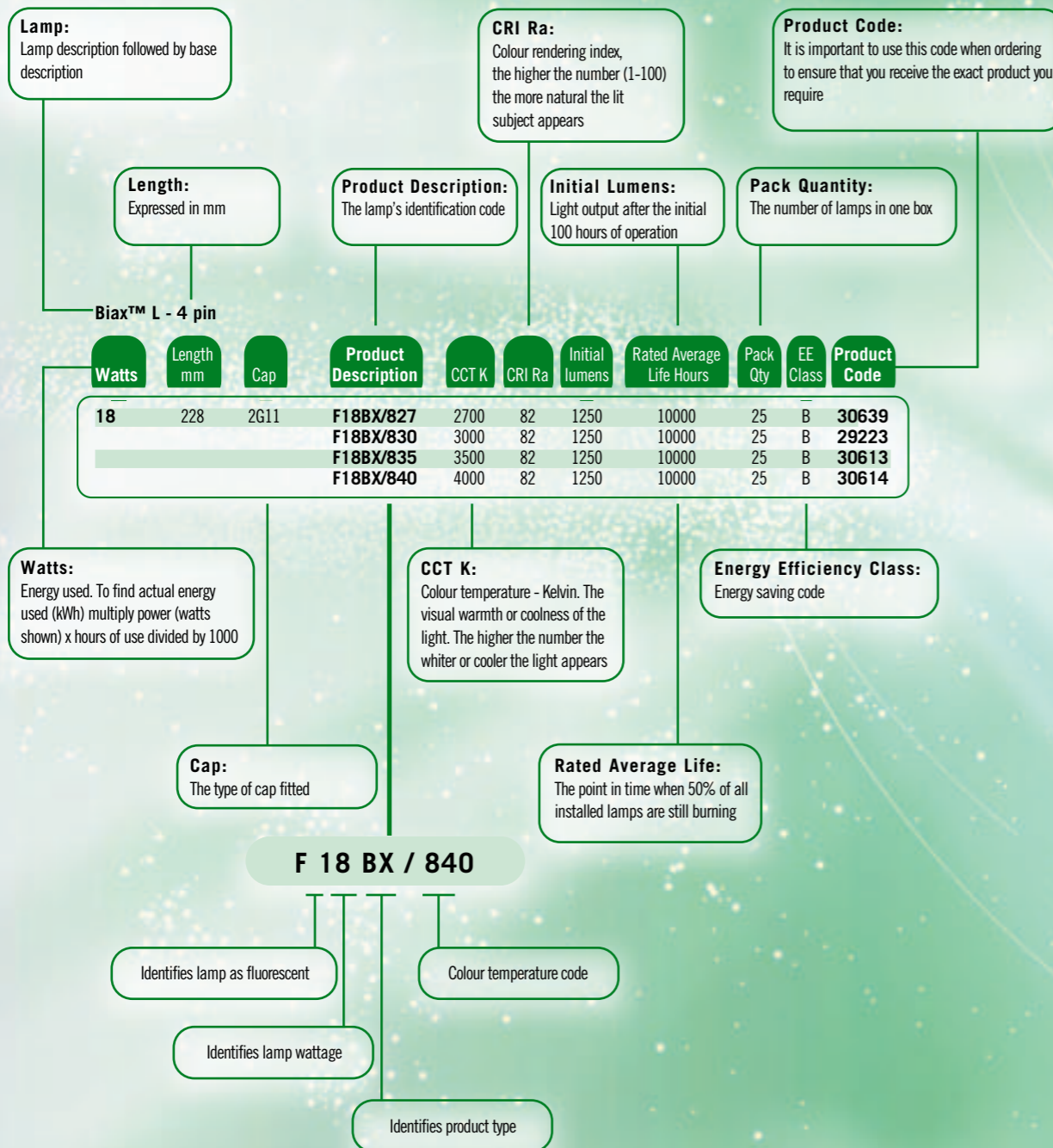
LIFE	3000												6000				8000				10000				12000				15000			
	WATTS												40W	60W	75W	100W	2x60W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W	100W	40W	60W	75W
	<b>Elegance GLS Extra Mini</b>																															
	220/240V   9W   E14   E27   B22   11W   E14   E27   B22   15W   E27   B22												9W 380 lm   15W 750 lm																			
													126 60 mm Ø   139 60 mm Ø																			
													11W 550 lm																			
													126 60 mm Ø																			
	<b>Elegance GLS</b>																															
	220/240V   20W   E27   B22																				20W 1080 lm											
																									158 77 mm Ø							
	<b>Elegance Candle</b>																															
	220/240V   9W   E14   E27   B22																								9W 380lm							
																									138 50mm Ø							
	<b>Elegance R63</b>																															
	220/240V   11W   E14   E27   B22																								11W 280lm							
																									123 63mm Ø							
	<b>Elegance R95</b>																															
	220/240V   15W   E27																								15W 750lm							
																									143.5 95mm Ø							
	<b>Elegance Globe</b>																															
	120/127V   15W   E27   20W   E27																								15W 750 lm   20W 1050 lm							
	220/240V   9W   E14   E27   B22   11W   E14   E27   B22   15W   E27   B22   23W   E27   B22																								152 92mm Ø   180 118 mm Ø							
																									152 92mm Ø   180 118 mm Ø				11W 550 lm   23W 1250 lm			
																									126 75 mm Ø   181 120 mm Ø							
	<b>Elegance Outdoor</b>																															
	220/240V   15W   E27   B22												15W 750lm																			
													144 73mm Ø																			
	<b>Genura</b>																															
	220/240V   23W   E27																												23W 1100 lm			
																													129.2 80 mm Ø			

# Compact fluorescent lamps

# Biax™ - Plug-In

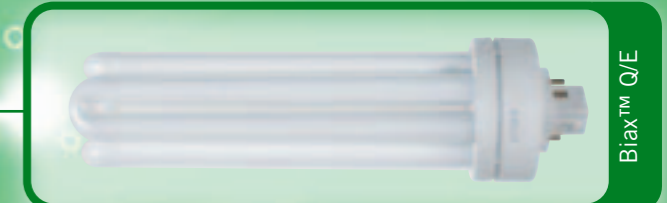
## Product identification

The following glossary of terms and descriptions can help you when checking compact 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.



## Benefits of High Watt CFL Biax Q

Make the switch to performance and efficiency



**High color rendering Index (CRI) of 82**  
Makes products popular in retail settings

**12 000-Hour Life**  
Less maintenance costs over long periods of time

**Flicker free, instant start, quick warm up**  
Dimmable with proper ballast.

**High lumen output**  
4300 - 5200 Lm

**Application versatility**  
Universal burning positions

**Wide operating temperature range**  
Start rated at -10°C

**Five color temperatures to meet any application needs**  
Available in 2700K, 3000K, 3500K, 4100K and 5000K.

**High frequency ballast operation**  
30% less ballast energy consumption

### Applications

- Indoor:**
- public building
  - Retail ceilings & offices
  - high industrial bays
  - parking garages
  - gymnasiums

- Outdoor:**
- residential areas
  - parks
  - sports stadiums
  - pedestrian streetlighting

**Low cost white light source**

# Compact fluorescent lamps

# Biax™ - Plug-In

GE Biax™ lamps offer up to 80% energy savings compared to equivalent incandescent lamps and last up to 10 times longer.

### Biax™ L

- Stretched full length source with 4 pin base designed for 600mm square light fittings
- Replaces linear fluorescents twice the length
- Single-ended for simpler installation
- Round loop construction means no dark ends
- High surface brightness for improved optical control
- Polylux phosphors allow matching with other fluorescents



Biax™ L

### Biax™ S & S/E

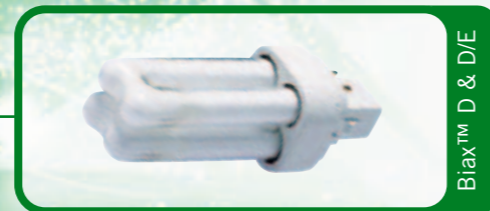
- Biax™ S with 2 pin base and extra compact design to suit reduced size fittings
- Biax™ S/E with 4 pin base and external starter / controls for use with electronic control gear and dimming and emergency lighting applications
- 5 times more efficient than GLS lamps
- 9 times less maintenance compared to GLS lamps
- High colour rendering - matching the colour temperatures of incandescents



Biax™ S & S/E

### Biax™ D & D/E

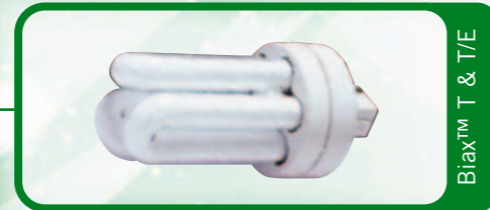
- 2 pin or 4 pin formats
- Light quality and colour performance to match other fluorescent
- High colour reproduction performance, providing rich, vibrant colours
- Wide range of wattages to suit all applications



Biax™ D & D/E

### Biax™ T & T/E

- High colour reproduction performance, providing rich, vibrant colours
- Consistent high light output, irrespective of ambient temperature and the angle of installation
- Slim 49mm base



Biax™ T & T/E

### Biax™ Q/E

- High Lumen output with compact fluorescent and amalgam technology: 4200/5200 lm.
- Small size - 8 legged
- HF ballast operation
- Instant on quick warm up, hot restrike
- Wide colour range
- Low cost white light solution



Biax™ Q/E

### Biax™ L - 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
18	228	2G11	F18BX/827	2700	82	1250	10000	25	B	30639
			F18BX/830	3000	82	1250	10000	25	B	29223
			F18BX/835	3500	82	1250	10000	25	B	30613
			F18BX/840	4000	82	1250	10000	25	B	30614
24	323.4	2G11	F24BX/827	2700	82	1800	10000	25	B	30640
			F24BX/830	3000	82	1800	10000	25	B	30615
			F24BX/835	3500	82	1800	10000	25	B	29383
			F24BX/840	4000	82	1800	10000	25	B	29496
34*	535	2G11	F34BX/830	3000	82	2800	10000	25	A	30682
			F34BX/835	3500	82	2800	10000	25	A	30683
			F34BX/840	4000	82	2800	10000	25	A	30684
36	418.4	2G11	F36BX/827	2700	82	2900	10000	25	A	30641
			F36BX/830	3000	82	2900	10000	25	A	29743
			F36BX/835	3500	82	2900	10000	25	A	29744
			F36BX/840	4000	82	2900	10000	25	A	29745
40	535	2G11	F40BX/830	3000	82	3500**	10000	25	A	30028
			F40BX/835	3500	82	3500	10000	25	A	30029
			F40BX/840	4000	82	3500	10000	25	A	30030
55***	535	2G11	F55BX/830	3000	82	4850	12000	25	A	31951
			F55BX/835	3500	82	4850	12000	25	A	31952
			F55BX/840	4000	82	4850	12000	25	A	31953

\* Use with conventional ballast and electronic starter switch or fully electronic unit \*\* Lumens on HF gear, Lumens on approved conventional circuit 3360 \*\*\* Use on HF gear only

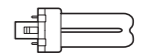
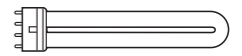
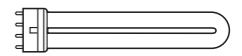
### Cinema High Lumen Biax Lamps

Watts	Product Description	Description	Rated Average Life Hours	Pack Qty	Product Code
36	F36BX/CINEMA32	Indoor	10000	10	15816
36	F36BX/CINEMA56	Daylight	10000	10	15819
55	F55BX/CINEMA32	Indoor	10000	10	15811
55	F55BX/CINEMA56	Daylight	10000	10	15814

\* Use with conventional ballast and electronic starter switch or fully electronic unit \*\* Lumens on HF gear, Lumens on approved conventional circuit 3360 \*\*\* Use on HF gear only

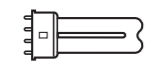
### Biax™ S - 2 pin Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
5	107.8	G23	F5BX/827	2700	82	265	10000	10	B	37654
			F5BX/840	4000	82	265	10000	10	B	37661
7	136.8	G23	F7BX/827	2700	82	425	10000	10	B	37846
			F7BX/830	3000	82	425	10000	10	B	38930
			F7BX/835	3500	82	425	10000	10	B	37659
			F7BX/840	4000	82	425	10000	10	B	37660
9	167.3	G23	F9BX/827	2700	82	600	10000	10	A	37651
			F9BX/830	3000	82	600	10000	10	A	38929
			F9BX/835	3500	82	600	10000	10	A	37652
			F9BX/840	4000	82	600	10000	10	A	37653
11	237.3	G23	F11BX/827	2700	82	900	10000	10	A	37663
			F11BX/830	3000	82	900	10000	10	A	38928
			F11BX/835	3500	82	900	10000	10	A	37666
			F11BX/840	4000	82	900	10000	10	A	37664
11	237.3	G23	F11BX/865	6500	82	900	10000	10	A	38986



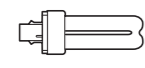
# Compact fluorescent lamps

# Biax™ - Plug-In



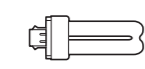
### Biax™ S/E - 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
5	93.3	2G7	F5BX/827/4P	2700	82	265	10000	10	B	37714
			F5BX/840/4P	4000	82	265	10000	10	B	37715
7	122.3	2G7	F7BX/827/4P	2700	82	425	10000	10	B	37658
			F7BX/840/4P	4000	82	425	10000	10	B	37716
9	152.8	2G7	F9BX/827/4P	2700	82	600	10000	10	A	37710
			F9BX/840/4P	4000	82	600	10000	10	A	37711
11	222.8	2G7	F11BX/827/4P	2700	82	900	10000	10	A	37717
			F11BX/840/4P	4000	82	900	10000	10	A	37713
			F11BX/865/4P	6500	82	900	10000	10	A	12603



### Biax™ D - 2 pin Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
10	108.5	G24d-1	F10DBX/827	2700	82	600	10000	10	B	12872
			F10DBX/830	3000	82	600	10000	10	B	12874
			F10DBX/835	3500	82	600	10000	10	B	12875
			F10DBX/840	4000	82	600	10000	10	B	12876
			F10DBX/865	6500	82	600	10000	10	B	12997
13	133	G24d-1	F13DBX/827	2700	82	900	10000	10	A	18557
			F13DBX/830	3000	82	900	10000	10	A	12956
			F13DBX/835	3500	82	900	10000	10	A	18559
			F13DBX/840	4000	82	900	10000	10	A	20532
			F13DBX/865	6500	82	900	10000	10	A	13015
18	154	G24d-2	F18DBX/827	2700	82	1200	10000	10	B	12860
			F18DBX/830	3000	82	1200	10000	10	B	12861
			F18DBX/835	3500	82	1200	10000	10	B	12863
			F18DBX/840	4000	82	1200	10000	10	B	12864
			F18DBX/865	6500	82	1200	10000	10	B	13017
26	169.5	G24d-3	F26DBX/827	2700	82	1710	10000	10	B	35250
			F26DBX/830	3000	82	1710	10000	10	B	35237
			F26DBX/835	3500	82	1710	10000	10	B	35251
			F26DBX/840	4000	82	1710	10000	10	B	35252
			F26DBX/865	6500	82	1710	10000	10	B	35305

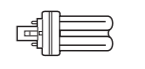


### Biax™ D/E - 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
10	101	G24q-1	F10DBX/827/4P	2700	82	600	12000	10	B	30031
			F10DBX/830/4P	3000	82	600	12000	10	B	12877
			F10DBX/835/4P	3500	82	600	12000	10	B	30032
			F10DBX/840/4P	4000	82	600	12000	10	B	30034
13	125.5	G24q-1	F13DBX/827/4P	2700	82	900	12000	10	A	30035
			F13DBX/830/4P	3000	82	900	12000	10	A	10580
			F13DBX/835/4P	3500	82	900	12000	10	A	30037
			F13DBX/840/4P	4000	82	900	12000	10	A	30038
18	146.5	G24q-2	F18DBX/827/4P	2700	82	1200	12000	10	B	12865
			F18DBX/830/4P	3000	82	1200	12000	10	B	12866
			F18DBX/835/4P	3500	82	1200	12000	10	B	12869
			F18DBX/840/4P	4000	82	1200	12000	10	B	12870
26	162	G24q-3	F26DBX/827/4P	2700	82	1710	12000	10	B	35247
			F26DBX/830/4P	3000	82	1710	12000	10	B	35235
			F26DBX/835/4P	3500	82	1710	12000	10	B	35248
			F26DBX/840/4P	4000	82	1710	12000	10	B	35236

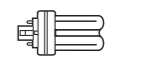
### Biax™ T - 2 pin with Amalgam Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
13	115.5	GX24d-1	F13TBX/827/A	2700	82	900	10000	10	A	35940
			F13TBX/830/A	3000	82	900	10000	10	A	35966
			F13TBX/835/A	3500	82	900	10000	10	A	35943
			F13TBX/840/A	4000	82	900	10000	10	A	35941
18	130	GX24d-2	F18TBX/827/A	2700	82	1200	10000	10	B	35945
			F18TBX/830/A	3000	82	1200	10000	10	B	35944
			F18TBX/835/A	3500	82	1200	10000	10	B	35937
			F18TBX/840/A	4000	82	1200	10000	10	B	35939
26	140	GX24d-3	F26TBX/827/A	2700	82	1710	10000	10	B	35959
			F26TBX/830/A	3000	82	1710	10000	10	B	35952
			F26TBX/835/A	3500	82	1710	10000	10	B	35963
			F26TBX/840/A	4000	82	1710	10000	10	B	35964
			F26TBX/865/A	6500	82	1710	10000	10	B	35965



### Biax™ T/E - 4 pin with Amalgam External Starter Required

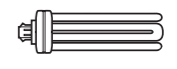
Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
13	108	GX24q-1	F13TBX/827/A/4P	2700	82	900	12000	10	A	34391
			F13TBX/830/A/4P	3000	82	900	12000	10	A	34395
			F13TBX/835/A/4P	3500	82	900	12000	10	A	34400
			F13TBX/840/A/4P	4000	82	900	12000	10	A	34387
18	122.5	GX24q-2	F18TBX/827/A/4P	2700	82	1200	12000	10	B	34392
			F18TBX/830/A/4P	3000	82	1200	12000	10	B	34396
			F18TBX/835/A/4P	3500	82	1200	12000	10	B	34405
			F18TBX/840/A/4P	4000	82	1200	12000	10	B	34385
26	132.5	GX24q-3	F26TBX/827/A/4P	2700	82	1710	12000	10	B	34393
			F26TBX/830/A/4P	3000	82	1710	12000	10	B	34397
			F26TBX/835/A/4P	3500	82	1710	12000	10	B	34406
			F26TBX/840/A/4P	4000	82	1710	12000	10	B	34381
32	140.5	GX24q-3	F32TBX/827/A/4P	2700	82	2200	12000	10	B	39377
			F32TBX/830/A/4P	3000	82	2200	12000	10	B	39378
			F32TBX/835/A/4P	3500	82	2200	12000	10	B	39379
			F32TBX/840/A/4P	4000	82	2200	12000	10	B	39380
42	162.5	GX24q-4	F42TBX/827/A/4P/EOL	2700	82	3200	12000	10	B	46312
			F42TBX/830/A/4P/EOL	3000	82	3200	12000	10	B	46313
			F42TBX/835/A/4P/EOL	3500	82	3200	12000	10	B	46314
			F42TBX/840/A/4P/EOL	4000	82	3200	12000	10	B	46315



### Biax™ Q/E - 4 pin with Amalgam External Starter Required. Available GE Ballasts are on page 184.

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
57	181	GX24q-5	F57QBX/827/A/4P/EOL	2700	82	4300	12000	10	B	48861
			F57QBX/830/A/4P/EOL	3000	82	4300	12000	10	B	48862
			F57QBX/835/A/4P/EOL	3500	82	4300	12000	10	B	48863
			F57QBX/840/A/4P/EOL	4000	82	4300	12000	10	B	48864
70	209	GX24q-6*	F70QBX/827/A/4P/EOL	2700	82	5200	12000	10	B	48865
			F70QBX/830/A/4P/EOL	3000	82	5200	12000	10	B	48866
			F70QBX/835/A/4P/EOL	3500	82	5200	12000	10	B	48867
			F70QBX/840/A/4P/EOL	4000	82	5200	12000	10	B	48868
			F70QBX/850/A/4P/EOL	5000	82	4300	12000	10	B	93406

\* under standardization





# Compact fluorescent lamps

# Biax™ - Plug-In

### Starcoat™ 2D™ T5 - 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
28	204	GR10q	F282DT5/827/4P	2700	82	2250	15000	20	B	10547
			F282DT5/835/4P	3500	82	2250	15000	20	B	10567
			F282DT5/840/4P	4000	82	2250	15000	20	B	10548
38	204	GR10q	F382DT5/827/4P	2700	82	3000	15000	20	B	10550
			F382DT5/835/4P	3500	82	3000	15000	20	B	10566

### Starcoat™ 2D™ T5 - 2 pin Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
28	204	GR8	F282DT5/827	2700	82	2250	15000	20	B	10546

### Biax™ 2D - 2 pin Internal Starter

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
16	142	GR8	F162D/827	2700	82	1050	10000	20	B	32416
			F162D/835	3500	82	1050	10000	20	B	32419
			F162D/860	6000	82	1050	10000	20	B	32454

### Biax™ 2D™/E - 4 pin External Starter Required

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
10	92	GR10q	F102D/827/4P	2700	82	650	10000	5	A	29433
			F102D/835/4P	3500	82	650	10000	5	A	28366
16	142	GR10q	F162D/827/4P	2700	82	1050	10000	20	B	32422
			F162D/835/4P	3500	82	1050	10000	20	B	32425
			F212D/827/4P	2700	82	1350	10000	20	B	32430
21	142	GR10q	F212D/835/4P	3500	82	1350	10000	20	B	32431
			F212D/860/4P	6000	82	1350	10000	20	B	32453
			55	204	GRY10q-3	F552D/827/A/4P	2700	82	3900	15000
F552D/835/A/4P	3500	82				3900	15000	20	B	37528

### Biax™ 2D™ - with Integral Control Gear Operates on 230/240 Volts

Watts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
18	142	GRZ 10d*	FLE18W2D/827/GR10	2700	82	1150	10000	114	B	12556
			FLE18W2D/830/GR10	3000	82	1150	10000	114	B	12548
			FLE18W2D/835/GR10	3500	82	1150	10000	114	B	12561
			FLE18W2D/840/GR10	4000	82	1150	10000	114	B	12547
30	207	GRZ 10t*	FLE30W2D/827/GR10	2700	82	2050	10000	48	B	92596
			FLE30W2D/830/GR10	3000	82	2050	10000	48	B	92597
			FLE30W2D/835/GR10	3500	82	2050	10000	48	B	92598
			FLE30W2D/840/GR10	4000	82	2050	10000	48	B	92599

\* Under consideration with IEC

## Biax™ 2D™ T5

Choose Biax™ 2D™ T5 for circular light distribution



### Choose more light for longer

- 50% more lifetime to reduce maintenance costs (15,000 hours)
- 10% more lumen output for a better lumen efficiency
- Direct retrofit to current installations with no switching costs
- Unique GE Starcoat™ coating technology for superior lumen maintenance
- Excellent colour rendition
- Exists in various colours to match desired ambience

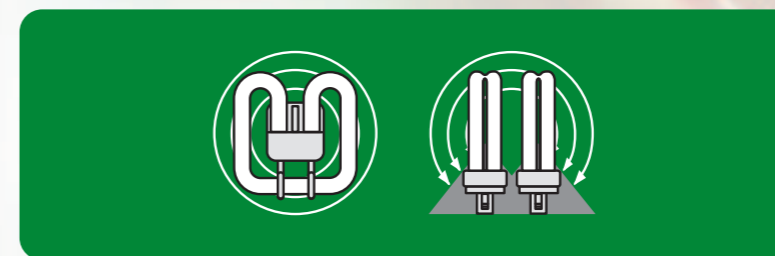
#### New Starcoat™ 2D™ T5

- Saves up to 80% energy
- Up to 85 Lumen/Watt
- Available in 28 and 38 Watt
- Long life 15 000 hours
- CRI Index 82
- Direct retrofit of current Biax™ 2D equivalent wattage lamps

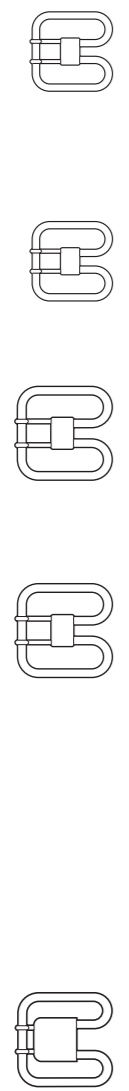
#### 2D™ Concept

Created in 1980, The Biax 2D™ distinctive compact shallow, circular format means that light spreads out uniformly all around the fitting without creating shadows.

#### Circular Light Distribution



**Applications:**  
residential lighting corridors, security lighting, interior and exterior.



# Compact fluorescent lamps

# Electronic Biax™

GE Electronic Biax™ lamps offer up to 80% energy savings compared to equivalent incandescent lamps and last up to 15 times longer.

The new extra mini size-setting a new standard in quality compact fluorescent lighting

### Electronic Biax™ Extra Mini

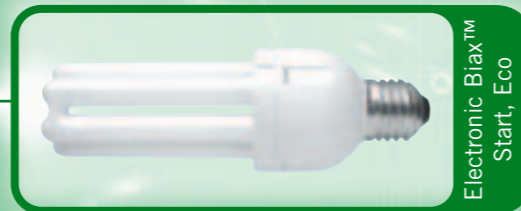
A new Extra Mini size setting a new standard in quality compact fluorescent lighting. The new Triple Biax lamps provide the same great lumen output in a smaller size with the longest life ratings available. The Super Long Life products extend energy savings out to as much as 15,000 hours, about 15 times as long as an ordinary light bulb. Outstanding energy efficiency - Up to 60 lumen / watt, up to 5 times more efficient than an ordinary light bulb. Superior Lumen maintenance, up to 70 % maintained lumens over the life.



Electronic Biax™ Extra Mini

### Electronic Biax™ Start, Eco

80% energy cost savings versus standard light bulbs. Wide range of COLOUR TEMPERATURES available from pleasing warm white to daylight colours. Rare-earth phosphors provide a bright, vibrant colour and excellent colour rendering index of (CRI) 82. Available in 9, 11, 15, 20 and 23W lasts up to 6 times longer than standard light bulb. Flicker free instant start operation - starts less than one second.



Electronic Biax™ Start, Eco

### Electronic Biax™ Elegance

Familiar A line (GLS) - ordinary light bulb shape offers traditional appearance and energy savings. Attractive shell for versatile applications. Looks similar to Candle shape standard incandescent light bulbs. Available in R63 and R95, features soft light for diffuse downlighting in attractive glass reflector design. Direct replacement to standard incandescent globes for open or semi- closed fittings. Provides outdoor energy savings and a wide ranging temperature performance. Exclusive induction technology for super long life - 15,000 hours direct replacement for the standard incandescent R80 reflector lamp.



Electronic Biax™ Elegance

The most advanced GE Lighting technology brings the industry's most miniaturised and complete range of compact fluorescent lamps. The Biax™ Extra Mini family's compact size allows them to fit almost anywhere that incandescent bulbs are currently used. The superbly engineered shapes of these Biax™ Extra Mini lamps are unique, enabling them to fit everywhere from table lamps to wall and ceiling fixtures.

## Real size comparison



The new GE Biax™ Extra Mini 11W



Standard lamp 60W



Traditional energy saving lamp, 11W



# Compact fluorescent lamps

# Electronic Biax™

### Electronic Biax™ Extra Mini



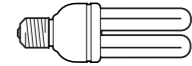
Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code	
9	220/240	115	E14	FLE9TBX/XM/827 E14	2700	82	480	15000	6	A	10613	
				FLE9TBX/XM/840 E14	4000	82	480	15000	6	A	10616	
				FLE9TBX/XM/865 E14	6500	82	480	15000	6	A	10619	
			E27	FLE9TBX/XM/827 E27	2700	82	480	15000	6	A	10612	
				FLE9TBX/XM/840 E27	4000	82	480	15000	6	A	10615	
				FLE9TBX/XM/865 E27	6500	82	480	15000	6	A	10618	
	B22	FLE9TBX/XM/827 B22	2700	82	480	15000	6	A	10611			
		FLE9TBX/XM/840 B22	4000	82	480	15000	6	A	10614			
		FLE9TBX/XM/865 B22	6500	82	480	15000	6	A	10617			
	11	220/240	115	E14	FLE11TBX/XM/827 E14	2700	82	600	15000	6	A	10622
					FLE11TBX/XM/840 E14	4000	82	600	15000	6	A	10625
					FLE11TBX/XM/865 E14	6500	82	600	15000	6	A	10629
E27				FLE11TBX/XM/827 E27	2700	82	600	15000	6	A	10621	
				FLE11TBX/XM/840 E27	4000	82	600	15000	6	A	10624	
				FLE11TBX/XM/865 E27	6500	82	600	15000	6	A	10628	
B22		FLE11TBX/XM/827 B22	2700	82	600	15000	6	A	10620			
		FLE11TBX/XM/840 B22	4000	82	600	15000	6	A	10623			
		FLE11TBX/XM/865 B22	6500	82	600	15000	6	A	10626			
15		220/240	128	E27	FLE15TBX/XM/827 E27	2700	82	900	15000	6	A	10632
					FLE15TBX/XM/840 E27	4000	82	900	15000	6	A	10635
					FLE15TBX/XM/865 E27	6500	82	900	15000	6	A	10637
	B22			FLE15TBX/XM/827 B22	2700	82	900	15000	6	A	10631	
				FLE15TBX/XM/840 B22	4000	82	900	15000	6	A	10633	
				FLE15TBX/XM/865 B22	6500	82	900	15000	6	A	10636	
	20	220/240	143	E27	FLE20TBX/XM/827 E27	2700	82	1200	15000	6	A	10639
					FLE20TBX/XM/840 E27	4000	82	1200	15000	6	A	10642
					FLE20TBX/XM/865 E27	6500	82	1200	15000	6	A	10645
				B22	FLE20TBX/XM/827 B22	2700	82	1200	15000	6	A	10638
					FLE20TBX/XM/840 B22	4000	82	1200	15000	6	A	10640
					FLE20TBX/XM/865 B22	6500	82	1200	15000	6	A	10644

### Electronic Biax™ Tech - with Amalgam



Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code			
15	120/127	135.5	E27	FLE15TBX/L/827 E27	2700	82	900	12000	6	A	36739			
				FLE15TBX/L/840 E27	4000	82	900	12000	6	A	36746			
				FLE15TBX/L/865 E27	6500	82	900	12000	6	A	36747			
			220/240	135.5	E27	FLE15TBX/L/827 E27	2700	82	900	12000	6	A	92259	
						FLE15TBX/L/840 E27	4000	82	900	12000	6	A	92260	
						FLE15TBX/L/865 E27	6500	82	900	12000	6	A	92261	
	134.5	B22	FLE15TBX/L/827 B22	2700	82	900	12000	6	A	92250				
			FLE15TBX/L/840 B22	4000	82	900	12000	6	A	92251				
			FLE15TBX/L/865 B22	6500	82	900	12000	6	A	92252				
	20	120/127	150	E27	FLE20TBX/L/827 E27	2700	82	1200	12000	6	A	36738		
					FLE20TBX/L/840 E27	4000	82	1200	12000	6	A	36744		
					FLE20TBX/L/865 E27	6500	82	1200	12000	6	A	36745		
				220/240	150	E27	FLE20TBX/L/827 E27	2700	82	1200	12000	6	A	92267
							FLE20TBX/L/840 E27	4000	82	1200	12000	6	A	92268
							FLE20TBX/L/865 E27	6500	82	1200	12000	6	A	92269
		149	B22	FLE20TBX/L/827 B22	2700	82	1200	12000	6	A	92263			
				FLE20TBX/L/840 B22	4000	82	1200	12000	6	A	92264			
				FLE20TBX/L/865 B22	6500	82	1200	12000	6	A	92265			

### Electronic Biax™ Tech - with Amalgam



Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code	
23	230/240	146	E27	FLE23QBX/A/827 E27	2700	82	1500	12000	6	A	92198	
				FLE23QBX/A/840 E27	4000	82	1500	12000	6	A	92196	
				FLE23QBX/A/865 E27	6500	82	1500	12000	6	A	92197	
			145	B22	FLE23QBX/A/827 B22	2700	82	1500	12000	6	A	92193
					FLE23QBX/A/840 B22	4000	82	1500	12000	6	A	92194
					FLE23QBX/A/865 B22	6500	82	1500	12000	6	A	92195
24	120/127	146	E27	FLE24QBX/A/827 E27	2700	82	1520	12000	6	A	36741	
				FLE24QBX/A/840 E27	4000	82	1520	12000	6	A	36742	
				FLE24QBX/A/865 E27	6500	82	1520	12000	6	A	36743	
28	120/127	150	E27	FLE28QBX/A/827 E27	2700	82	1800	12000	6	A	39359	
				FLE28QBX/A/865 E27	6500	82	1800	12000	6	A	39365	

### Electronic Biax™ ECO



Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code	
9	220/240	137	E14	FLE9DBX/827/E14	2700	82	480	6000	10	A	13276	
				FLE9DBX/865/E14	6500	82	480	6000	10	A	17575	
				FLE9DBX/827/E27	2700	82	480	6000	10	A	13282	
			E27	FLE9DBX/840/E27	4000	82	480	6000	10	A	17580	
				FLE9DBX/865/E27	6500	82	480	6000	10	A	17583	
				FLE9DBX/827/B22	2700	82	480	6000	10	A	13285	
B22	FLE9DBX/865/B22	6500	82	480	6000	10	A	17585				
	11	220/240	148	E14	FLE11DBX/827/E14	2700	82	600	6000	10	A	13293
					FLE11DBX/865/E14	6500	82	600	6000	10	A	17593
FLE11DBX/827/E27					2700	82	600	6000	10	A	13297	
E27				FLE11DBX/840/E27	4000	82	600	6000	10	A	17599	
				FLE11DBX/865/E27	6500	82	600	6000	10	A	17603	
				FLE11DBX/827/B22	2700	82	600	6000	10	A	13289	
B22	FLE11DBX/865/B22	6500	82	600	6000	10	A	17604				
	15	220/240	142	E27	FLE15TBXSP/827/E27	2700	82	900	6000	10	A	13328
					FLE15TBXSP/840/E27	4000	82	900	6000	10	A	13329
FLE15TBXSP/865/E27					6500	82	900	6000	10	A	13330	
B22				FLE15TBXSP/827/B22	2700	82	900	6000	10	A	13332	
				FLE15TBXSP/840/B22	4000	82	900	6000	10	A	13333	
				FLE15TBXSP/865/B22	6500	82	900	6000	10	A	13334	
20	220/240	156.5	E27	FLE20TBXSP/827/E27	2700	82	1200	6000	10	A	13336	
				FLE20TBXSP/840/E27	4000	82	1200	6000	10	A	13337	
				FLE20TBXSP/865/E27	6500	82	1200	6000	10	A	13342	
			B22	FLE20TBXSP/827/B22	2700	82	1200	6000	10	A	13344	
				FLE20TBXSP/840/B22	4000	82	1200	6000	10	A	13349	
				FLE20TBXSP/865/B22	6500	82	1200	6000	10	A	13350	
23	220/240	166.5	E27	FLE23TBXSP/827/E27	2700	82	1500	6000	10	A	13354	
				FLE23TBXSP/840/E27	4000	82	1500	6000	10	A	13355	
				FLE23TBXSP/865/E27	6500	82	1500	6000	10	A	13356	
			B22	FLE23TBXSP/827/B22	2700	82	1500	6000	10	A	13358	
				FLE23TBXSP/840/B22	4000	82	1500	6000	10	A	13359	
				FLE23TBXSP/865/B22	6500	82	1500	6000	10	A	13361	



# Compact fluorescent lamps

# Electronic Biax™

### Electronic Biax™ Start

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
9	220/240	141	E14	FLE9DBX/827/E14	2700	82	480	3000	10	A	13128
				FLE9DBX/865/E14	6500	82	480	3000	10	A	17537
				FLE9DBX/827/E27	2700	82	480	3000	10	A	13139
				FLE9DBX/840/E27	4000	82	480	3000	10	A	17541
				FLE9DBX/865/E27	6500	82	480	3000	10	A	17543
B22	FLE9DBX/827/B22	2700	82	480	3000	10	A	13146			
	FLE9DBX/865/B22	6500	82	480	3000	10	A	17546			
11	220/240	147	E14	FLE11DBX/827/E14	2700	82	600	3000	10	A	13151
				FLE11DBX/865/E14	6500	82	600	3000	10	A	17552
				FLE11DBX/827/E27	2700	82	600	3000	10	A	13160
				FLE11DBX/840/E27	4000	82	600	3000	10	A	17551
				FLE11DBX/865/E27	6500	82	600	3000	10	A	17562
B22	FLE11DBX/827/B22	2700	82	600	3000	10	A	13164			
	FLE11DBX/865/B22	6500	82	600	3000	10	A	17571			
15	220/240	142	E27	FLE15TBXSP/827/E27	2700	82	900	3000	10	A	13366
				FLE15TBXSP/840/E27	4000	82	900	3000	10	A	13367
				FLE15TBXSP/865/E27	6500	82	900	3000	10	A	16838
				FLE15TBXSP/827/B22	2700	82	900	3000	10	A	16840
				FLE15TBXSP/840/B22	4000	82	900	3000	10	A	16842
B22	FLE15TBXSP/865/B22	6500	82	900	3000	10	A	16843			
20	220/240	156.5	E27	FLE20TBXSP/827/E27	2700	82	1200	3000	10	A	16845
				FLE20TBXSP/840/E27	4000	82	1200	3000	10	A	16846
				FLE20TBXSP/865/E27	6500	82	1200	3000	10	A	16847
				FLE20TBXSP/827/B22	2700	82	1200	3000	10	A	16850
				FLE20TBXSP/840/B22	4000	82	1200	3000	10	A	16851
B22	FLE20TBXSP/865/B22	6500	82	1200	3000	10	A	16852			

### Electronic Biax™ Elegance GLS Extra Mini

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
9	220/240	126	E14	FLE9TBX/XM/GLS/827 E14	2700	82	380	8000	6	B	10660
				FLE9TBX/XM/GLS/827 E27	2700	82	380	8000	6	B	10659
				FLE9TBX/XM/GLS/827 B22	2700	82	380	8000	6	B	10657
11	220/240	126	E14	FLE11TBX/XM/GLS/827 E14	2700	82	550	8000	6	A	10664
				FLE11TBX/XM/GLS/827 E27	2700	82	550	8000	6	A	10663
				FLE11TBX/XM/GLS/827 B22	2700	82	550	8000	6	A	10710
15	220/240	139	E27	FLE15TBX/XM/GLS/827 E27	2700	82	750	8000	6	B	10666
				FLE15TBX/XM/GLS/827 B22	2700	82	750	8000	6	B	10714

### Electronic Biax™ Elegance GLS

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
20	220/240	158	E27	FLE20TBX/GLS/827 E27	2700	79	1050	6000	6	B	92229
				FLE20TBX/GLS/827 B22	2700	79	1050	6000	6	B	92227

### Electronic Biax™ ELEGANCE CANDLE

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
9	220/240	138	E14	FLE9TBX/XM/CDL/827 E14	2700	82	380	8000	6	B	10684
				FLE9TBX/XM/CDL/827 E27	2700	82	380	8000	6	B	10683
				FLE9TBX/XM/CDL/827 B22	2700	82	380	8000	6	B	10682

### Electronic Biax™ ELEGANCE R63

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
11	220/240	123	E14	FLE11TBX/XM/R63/827 E14	2700	82	280	8000	6	B	10707
				FLE11TBX/XM/R63/827 E27	2700	82	280	8000	6	B	10704
				FLE11TBX/XM/R63/827 B22	2700	82	280	8000	6	B	10703

### Electronic Biax™ ELEGANCE R95

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
15	220/240	143.5	E27	FLE15/R95/827 E27	2700	82	550	6000	6	B	93236

### Electronic Biax™ Elegance Globe

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
11	220/240	126	E27	FLE11TBX/XM/GG/827 E27	2700	82	550	8000	6	A	92221
				FLE11TBX/XM/GG/827 B22	2700	82	550	8000	6	A	93019

### Electronic Biax™ Elegance Globe - with Amalgam

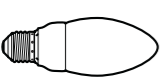
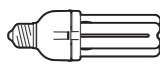
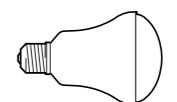
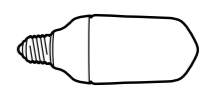
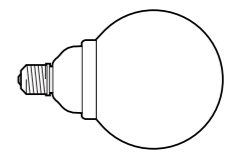
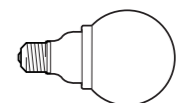
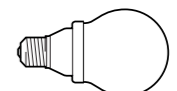
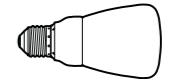
Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
15	220/240	152	E27	FLE15TBX/L/GG/827 E27	2700	82	750	10000	6	A	92216
				FLE15TBX/L/GG/840 E27	4000	82	750	10000	6	A	12172
				FLE15TBX/L/GG/827 B22	2700	82	750	10000	6	A	92213
120/127	152	E27	E27	FLE15TBX/L/GG/865 E27	6500	82	750	10000	6	A	39375
				FLE20TBX/L/GG/827 E27	2700	82	1050	10000	6	A	92220
				FLE20TBX/L/GG/840 E27	4000	82	1050	10000	6	A	12173
179	B22	E27	E27	FLE20TBX/L/GG/827 B22	2700	82	1050	10000	6	A	92217
				FLE20TBX/L/GG/827 E27	6500	82	1050	10000	6	A	39374
				FLE20TBX/L/GG/827 E27	2700	82	1050	10000	6	A	92220
23	230/240	179	E27	FLE23QBX/A/GG/827 E27	2700	82	1250	12000	6	A	92190
				FLE23QBX/A/GG/840 E27	4000	82	1250	12000	6	A	12174
				FLE23QBX/A/GG/827 B22	2700	82	1250	12000	6	A	92189

### Electronic Biax™ ELEGANCE OUTDOOR

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
15	220/240	144	E27	FLE15TBX/B/827 E27	2700	82	750	6000	10	B	93432
				FLE15TBX/B/827 B22	2700	82	750	6000	10	B	93433
15	220/240	138.5	E27	FLE15TBX/NG/827 E27	2700	82	750	6000	10	B	93434
				FLE15TBX/NG/827 B22	2700	82	750	6000	10	B	93435

### Genura™ R80

Watts	Volts	Length mm	Cap	Product Description	CCT K	CRI Ra	Initial lumens	Rated Average Life Hours	Pack Qty	EE Class	Product Code
23	220/240	129.2	E27	EFL/23W/827 R80	2700	82	1100	15000	6	A	92244
				EFL/23W/830 R80	3000	82	1100	15000	6	A	92246



# Brand cross-reference

# General information

Watts	Family / Description	Osram	Philips	SLI
<b>Biax™L 4pin</b>				
18W	F18BX/827 Polylux 2700	DULUX L 18W/41-827	PL-L 18W/4p/827	CF-L 18W/827
	F18BX/830 3000	DULUX L 18W/31-830	PL-L 18W/4p/830	CF-L 18W/830
	F18BX/835 3500	NA	NA	CF-L 18W/835
	F18BX/840 4000	DULUX L 18W/21-840	PL-L 18W/4p/840	CF-L 18W/840
24W	F24BX/827 Polylux 2700	DULUX L 24W/41-827	PL-L 24W/4p/827	CF-L 24W/827
	F24BX/830 3000	DULUX L 24W/31-830	PL-L 24W/4p/830	CF-L 24W/830
	F24BX/835 3500	NA	NA	CF-L 24W/835
	F24BX/840 4000	DULUX L 24W/21-840	PL-L 24W/4p/840	CF-L 24W/840
34W	F34BX/830 Polylux 3000	NA	NA	NA
	F34BX/835 3500	NA	NA	NA
	F34BX/840 4000	NA	NA	NA
36W	F36BX/827 Polylux 2700	DULUX L 36W/41-827	PL-L 36W/4p/827	CF-L 36W/827
	F36BX/830 3000	DULUX L 36W DL/31-830	PL-L 36W/4p/830	CF-L 36W/830
	F36BX/835 3500	NA	NA	CF-L 36W/835
	F36BX/840 4000	DULUX L 36W/21-840	PL-L 36W/4p/840	CF-L 36W/840
40W	F40BX/830 Polylux 3000	DULUX L 40W/31-830	PL-L 40W/4p/830	CF-LE 40W/830
	F40BX/835 3500	NA	NA	CF-LE 40W/835
	F40BX/840 4000	DULUX L 40W/21-840	PL-L 40W/4p/840	CF-LE 40W/840
55W	F55BX/830 Polylux 3000	DULUX L 55W/31-830	PL-L 55W/4p/830	CF-LE 55W/830
	F55BX/835 3500	NA	NA	CF-LE 55W/835
	F55BX/840 4000	DULUX L 55W/21-840	PL-L 55W/4p/840	CF-LE 55W/840
<b>Biax™S 2pin</b>				
5W	F5BX/827 Polylux 2700	DULUX S 5W/41-827	PL-S 5W/2p/827	CF-S 5W/827
	F5BX/840 4000	DULUX S 5W/21-840	PL-S 5W/2p/840	CF-S 5W/840
7W	F7BX/827 Polylux 2700	DULUX S 7W/41-827	PL-S 7W/2p/827	CF-S 7W/827
	F7BX/830 3000	NA	NA	CF-S 7W/835
	F7BX/835 3500			
	F7BX/840 4000	DULUX S 7W/21-840	PL-S 7W/2p/840	CF-S 7W/840
	F7BX/865 6500			
9W	F9BX/827 Polylux 2700	DULUX S 9W/41-827	PL-S 9W/2p/827	CF-S 9W/827
	F9BX/835 3500	NA	NA	CF-S 9W/835
	F9BX/840 4000	DULUX S 9W/21-840	PL-S 9W/2p/840	CF-S 9W/840
11W	F11BX/827 Polylux 2700	DULUX S 11W/41-827	PL-S 11W/2p/827	CF-S 11W/827
	F11BX/830 3000			
	F11BX/835 3500	NA	NA	CF-S 11W/835
	F11BX/840 4000	DULUX S 11W/21-840	PL-S 11W/2p/840	CF-S 11W/840
	F11BX/865 6500			
<b>Biax™S/E 4pin</b>				
5W	F5BX/827/4P Polylux 2700	DULUX S/E 5W/41-827	PLS-S 5W/4p/827	CF-SE 5W/827
	F5BX/840/4P 4000	DULUX S/E 5W/21-840	PLS-S 5W/4p/840	CF-SE 5W/840
7W	F7BX/827/4P Polylux 2700	DULUX S/E 7W/41-827	PLS-S 7W/4p/827	CF-SE 7W/827
	F7BX/840/4P 4000	DULUX S/E 7W/21-840	PLS-S 7W/4p/840	CF-SE 7W/840
9W	F9BX/827/4P Polylux 2700	DULUX S/E 9W/41-827	PLS-S 9W/4p/827	CF-SE 9W/827
	F9BX/840/4P 4000	DULUX S/E 9W/21-840	PLS-S 9W/4p/840	CF-SE 9W/840
11W	F11BX/827/4P Polylux 2700	DULUX S/E 11W/41-827	PLS-S 11W/4p/827	CF-SE 11W/827
	F11BX/840/4P 4000	DULUX S/E 11W/21-840	PLS-S 11W/4p/840	CF-SE 11W/840
<b>Biax™D 2pin</b>				
10W	F10DBX/827 Polylux 2700	DULUX D 10W/41-827	PL-C/2p 10W/827	CF-D 10W/827
	F10DBX/830 3000	DULUX D 10W/31-830	PL-C/2p 10W/830	CF-D 10W/830
	F10DBX/835 3500	NA	NA	CF-D 10W/835
	F10DBX/840 4000	DULUX D 10W/21-840	PL-C/2p 10W/840	CF-D 10W/840
	F10DBX/865 6500			
13W	F13DBX/827 Polylux 2700	DULUX D 13W/41-827	PL-C/2p 13W/827	CF-D 13W/827
	F13DBX/830 3000	DULUX D 13W/31-830	PL-C/2p 13W/830	CF-D 13W/830
	F13DBX/835 3500	NA	NA	CF-D 13W/835
	F13DBX/840 4000	DULUX D 13W/21-840	PL-C/2p 13W/840	CF-D 13W/840
	F13DBX/865 6500			
18W	F18DBX/827 Polylux 2700	DULUX D 18W/41-827	PL-C/2p 18W/827	CF-D 18W/827
	F18DBX/830 3000	DULUX D 18W/31-830	PL-C/2p 18W/830	CF-D 18W/830
	F18DBX/835 3500	NA	NA	CF-D 18W/835
	F18DBX/840 4000	DULUX D 18W/21-840	PL-C/2p 18W/840	CF-D 18W/840
	F18DBX/865 6500			
26W	F26DBX/827 Polylux 2700	DULUX D 26W/41-827	PL-C/2p 26W/827	CF-D 26W/827
	F26DBX/830 3000	DULUX D 26W/31-830	PL-C/2p 26W/830	CF-D 26W/830
	F26DBX/835 3500	NA	NA	CF-D 26W/835
	F26DBX/840 4000	DULUX D 26W/21-840	PL-C/2p 26W/840	CF-D 26W/840
	F26DBX/865 6500	NA	NA	CF-D 26W/865

Watts	Family / Description	Osram	Philips	SLI
<b>Biax™D/E 4pin</b>				
10W	F10DBX/827/4P/EOL Polylux 2700	DULUX D/E 10W/41-827	PL-C/4p 10W/827	CF-DE 10W/827
	F10DBX/830/4P/EOL 3000	DULUX D/E 10W/31-830	PL-C/4p 10W/830	CF-DE 10W/830
	F10DBX/835/4P/EOL 3500	NA	NA	CF-DE 10W/835
	F10DBX/840/4P/EOL 4000	DULUX D/E 10W/21-840	PL-C/4p 10W/840	CF-DE 10W/840
13W	F13DBX/827/4P/EOL Polylux 2700	DULUX D/E 13W/41-827	PL-C/4p 13W/827	CF-DE 13W/827
	F13DBX/830/4P/EOL 3000	DULUX D/E 13W/31-830	PL-C/4p 13W/830	CF-DE 13W/830
	F13DBX/835/4P/EOL 3500	NA	NA	CF-DE 13W/835
	F13DBX/840/4P/EOL 4000	DULUX D/E 13W/21-840	PL-C/4p 13W/840	CF-DE 13W/840
18W	F18DBX/827/4P/EOL Polylux 2700	DULUX D/E 18W/41-827	PL-C/4p 18W/827	CF-DE 18W/827
	F18DBX/830/4P/EOL 3000	DULUX D/E 18W/31-830	PL-C/4p 18W/830	CF-DE 18W/830
	F18DBX/835/4P/EOL 3500	NA	NA	CF-DE 18W/835
	F18DBX/840/4P/EOL 4000	DULUX D/E 18W/21-840	PL-C/4p 18W/840	CF-DE 18W/840
26W	F26DBX/827/4P/EOL Polylux 2700	DULUX D/E 26W/41-827	PL-C/4p 26W/827	CF-DE 26W/827
	F26DBX/830/4P/EOL 3000	DULUX D/E 26W/31-830	PL-C/4p 26W/830	CF-DE 26W/830
	F26DBX/835/4P/EOL 3500	NA	NA	CF-DE 26W/835
	F26DBX/840/4P/EOL 4000	DULUX D/E 26W/21-840	PL-C/4p 26W/840	CF-DE 26W/840
<b>Biax™T 2pin</b>				
13W	F13TBX/827/A/2P Polylux 2700	DULUX T 13W/41-827	NA	NA
	F13TBX/830/A/2P 3000	DULUX T 13W/31-830	NA	NA
	F13TBX/835/A/2P 3500	NA	NA	NA
	F13TBX/840/A/2P 4000	DULUX T 13W/21-840	NA	NA
	F13TBX/865/A/2P 6500	NA	NA	NA
18W	F18TBX/827/A/2P Polylux 2700	DULUX T 18W/41-827	PL-T 18W/2p/827	CF-T 18W/827
	F18TBX/830/A/2P 3000	DULUX T 18W/31-830	PL-T 18W/2p/830	CF-T 18W/830
	F18TBX/835/A/2P 3500	NA	NA	NA
	F18TBX/840/A/2P 4000	DULUX T 18W/21-840	PL-T 18W/2p/840	CF-T 18W/840
	F18TBX/865/A/2P 6500	NA	NA	NA
26W	F26TBX/827/A/2P Polylux 2700	DULUX T 26W/41-827	PL-T 26W/2p/827	CF-T 26W/827
	F26TBX/830/A/2P 3000	DULUX T 26W/31-830	PL-T 26W/2p/830	CF-T 26W/830
	F26TBX/835/A/2P 3500	NA	NA	NA
	F26TBX/840/A/2P 4000	DULUX T 26W/21-840	PL-T 26W/2p/840	CF-T 26W/840
	F26TBX/865/A/2P 6500	NA	NA	NA
<b>Biax™T/E 4pin</b>				
13W	F13TBX/827/A/4P/EOL Polylux 2700	DULUX T/E 13W/41-827	NA	NA
	F13TBX/830/A/4P/EOL 3000	DULUX T/E 13W/31-830	NA	NA
	F13TBX/835/A/4P/EOL 3500	NA	NA	NA
	F13TBX/840/A/4P/EOL 4000	DULUX T/E 13W/21-840	NA	NA
18W	F18TBX/827/A/4P/EOL Polylux 2700	DULUX T/E 18W/41-827	PL-T 18W/4p/827	CF-TE 18W/827
	F18TBX/830/A/4P/EOL 3000	DULUX T/E 18W/31-830	PL-T 18W/4p/830	CF-TE 18W/830
	F18TBX/835/A/4P/EOL 3500	NA	NA	NA
	F18TBX/840/A/4P/EOL 4000	DULUX T/E 18W/21-840	PL-T 18W/4p/840	CF-TE 18W/840
26W	F26TBX/827/A/4P/EOL Polylux 2700	DULUX T/E 26W/41-827	PL-T 26W/4p/827	CF-TE 26W/827
	F26TBX/830/A/4P/EOL 3000	DULUX T/E 26W/31-830	PL-T 26W/4p/830	CF-TE 26W/830
	F26TBX/835/A/4P/EOL 3500	NA	NA	NA
	F26TBX/840/A/4P/EOL 4000	DULUX T/E 26W/21-840	PL-T 26W/4p/840	CF-TE 26W/840
32W	F32TBX/827/A/4P/EOL Polylux 2700	DULUX T/E 32W/41-827	PL-T 32W/4p/827	CF-TE 32W/827
	F32TBX/830/A/4P/EOL 3000	DULUX T/E 32W/31-830	PL-T 32W/4p/830	CF-TE 32W/830
	F32TBX/835/A/4P/EOL 3500	NA	NA	NA
	F32TBX/840/A/4P/EOL 4000	DULUX T/E 32W/21-840	PL-T 32W/4p/840	CF-TE 32W/840
<b>Biax™Q/E 4pin</b>				
57W	F57QBX/827/A/4P/EOL Polylux 2700	DULUX T/E 57W/41-827	NA	NA
	F57QBX/830/A/4P/EOL 3000	DULUX T/E 57W/31-830	NA	NA
	F57QBX/835/A/4P/EOL 3500	NA	NA	NA
	F57QBX/840/A/4P/EOL 4000	DULUX T/E 57W/21-840	NA	NA
70W	F70QBX/827/A/4P/EOL Polylux 2700			
	F70QBX/830/A/4P/EOL 3000			
	F70QBX/835/A/4P/EOL 3500			
	F70QBX/840/A/4P/EOL 4000			

This table shows GE and alternative brand order codes. These cross references are provided as a quick reference and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues.



# Compact fluorescent lamps

# General information

GE Biax™ compact fluorescents come in two lamp types - plug-in and electronic. While a majority of the features described here apply to both lamp types, plug in lamps require separate running gear and the gear used can effect the lamp's performance characteristics.

### Warm-up times

GE Biax™ lamps offer an almost instant start, but require a few minutes to reach full brightness, particularly in colder temperatures. This slight time lag may initially make the lamp appear dull.

### Amalgam technology

GE amalgam dosing technology provides a more consistent light output, not only through lamp life, but also in varying ambient temperatures and lamp orientations.

### Using outside

When Biax™ lamps are employed outdoors, they must be used in enclosed fittings. The lamps will reach full brightness when the ambient temperature around the lamp reaches approximately 25°C. The effects of different ambient temperatures on light output for typical lamps is shown in the chart Fig 1. With amalgam products, 90% of light output is achieved between the temperatures of -10°C and +65°C.

### Enhancing colour quality

While the colour temperature of Biax™ is similar to an equivalent incandescent lamp (it produces the same 'whiteness' of light), the colour rendering performance (its ability to accurately reproduce colours) is slightly lower. It is this

difference that may lead some users to feel that the light appears dull. However, Biax™ lamps, which use Polyflux triphosphors, are far better at rendering colours than most commonly available fluorescent tubes.

### Characteristics of electronic lamps

#### Dimming of electronic retrofit lamps

As the electronic gear in the base of these lamps needs a full and constant current, they cannot be dimmed or used with other electronic switching devices.

### Eliminating flicker

Biax™ lamps operate at very high frequencies thus avoiding the annoying flicker typical of some fluorescent installations operating with conventional control gear.

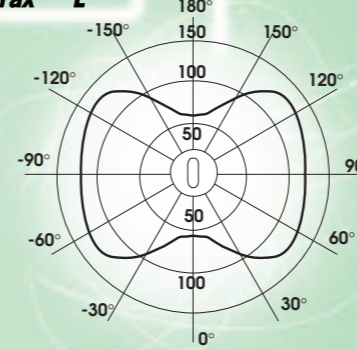
### Using existing fittings

Biax™ lamps are much lighter than many conventional retrofit compact fluorescent lamps and therefore do not impose exceptional loads on light fittings.

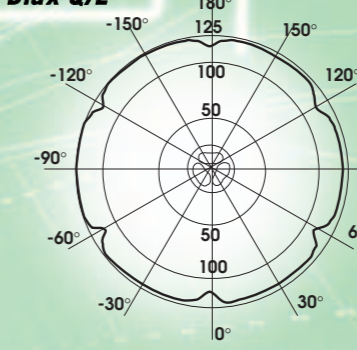


## Radial Luminous Intensity Distribution - Burning position: cap up

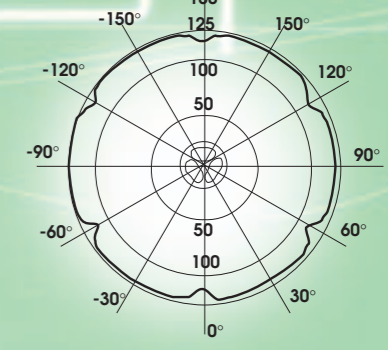
**Biax™ S**  
**Biax™ S/E**  
**Biax™ L**



**Biax™ D**  
**Biax™ D/E**  
**Biax™ Q/E**

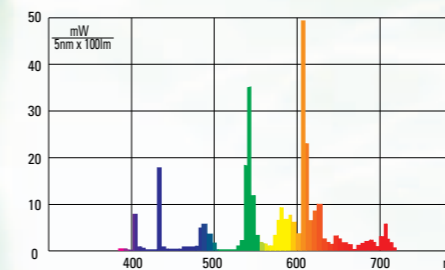


**Biax™ T**  
**Biax™ T/E**

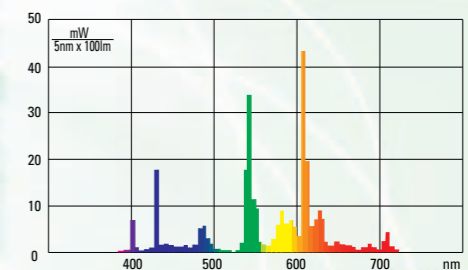


## Spectral Distribution Diagrams

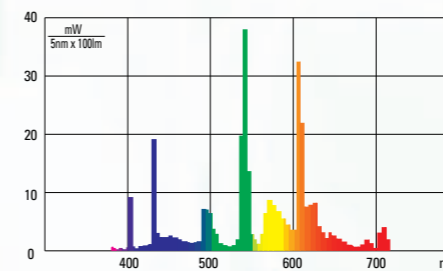
**2700K**



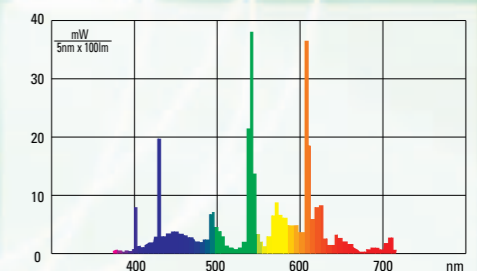
**3000K**



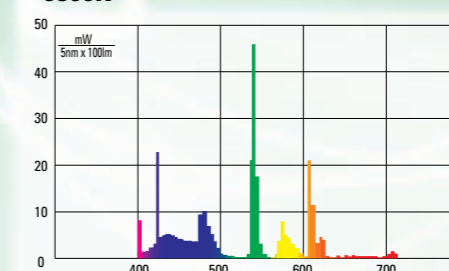
**3500K**



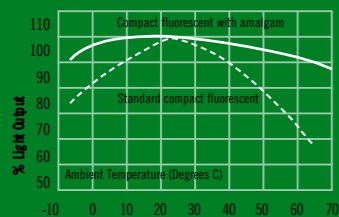
**4000K**



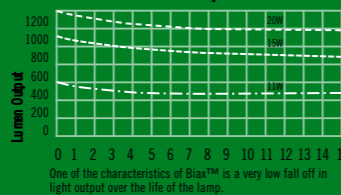
**6500K**



**Fig 1** Light output relative to ambient temperature



**Lumen maintenance characteristics of Biax™ and Electronic Biax™ lamps**



One of the characteristics of Biax™ is a very low fall off in light output over the life of the lamp.

Biax™ maintains an acceptable level of light output within a normal range of temperatures.