

Panasonic
ideas for life

2012

INNOVATION IN LIGHTING



Professional
LED LAMPS

Give your business a boost

Panasonic is renowned around the world for providing cutting-edge products for professionals – and its energy-saving LED lamps are no exception. Expertise gathered over years of research and development has enabled us to offer our LED Nostalgic Clear lamp. It provides the same warm ambience and nostalgic design that your customers have come to appreciate with traditional light bulbs, while ensuring lower energy and maintenance costs over the long term for you. Whether for hotels, shops or restaurants, the Panasonic LED Nostalgic Clear lamp will make customers want to return – ensuring an excellent ROI.



The complete range of LED lamps for professional use is covered with a 3 year warranty (based on an estimated daily use at 2,7 hours).

Save time and costs

On its way to becoming the No. 1 Green Company in the electronics industry by 2018, Panasonic has thought of what businesses need to stay competitive – like an energy-saving lamp that customers enjoy, inspiring them to return, while keeping replacement costs low. There are several arguments that speak for the Panasonic LED Nostalgic Clear lamp:

- Energy and cost saving by needing only approximately 7W of energy to produce 40W of light
- Up to a total of 40,000 hours of use – 40 years at 2.7 hours a day – compared to approx. 1,000 hours for traditional and 2,000 hours for halogen lamps
- Less maintenance and replacement required thanks to the long lifespan
- Instant full brightness within 1 second after being switched on
- No need for special disposal, as the use of dangerous chemicals such as quicksilver or mercury is eliminated
- Fewer insects and less discolouration thanks to low UV/IR and heat radiation
- 3-year guarantee



LED vs. Fluorescent lamps

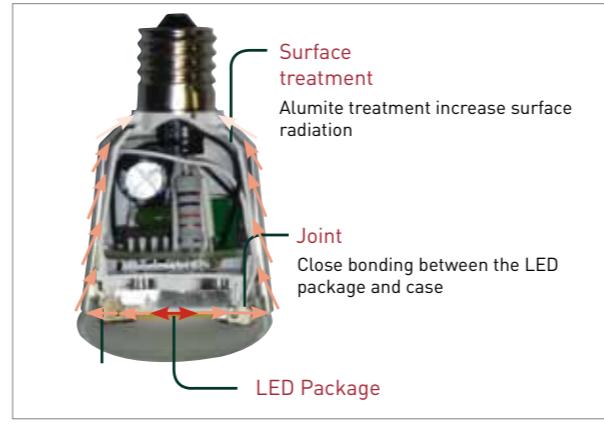
You may already be using energy-saving lamps at home and most likely they are the fluorescent type (in other words, CFL). Now, Panasonic offers you a new kind of lighting experience. LED-type lamps (in other words, ESL) provide the same warm feeling of light as traditional light bulbs, refrain from the use of harmful chemicals and immediately light up 100 percent when switched on. The new Panasonic LED Nostalgic Clear lamp even goes a step further to offer a classic, attractive design.

LED Wattage vs. Incandescent Wattage

Incandescent lamps	Halogen lamps	Energy Saving Lamps	LED lamps
Wattage	Lumen (< Watt)	Lumen (< Watt)	Lumen (< Watt)
15 W (< 120 lm)	-	135 lm (< 3 W)	136 lm (< 3W)
25 W (< 220 lm)	217 lm (< 18 W)	229 lm (< 5 W)	249 lm (< 6 W)
40 W (< 415 lm)	410 lm (< 28 W)	432 lm (< 12 W)	470 lm (< 8 W)
60 W (< 710 lm)	702 lm (< 42 W)	741 lm (< 14 W)	806 lm (< 12 W)
75 W (< 930 lm)	950 lm (< 52 W)	970 lm (< 18 W)	1055 lm (< 15 W)

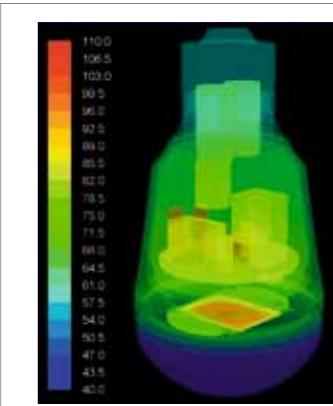
High heat radiation and lightweight design technologies

High heat radiation design



Energy saving / Brightness

Weight reduction design



Heat sink optimization

Compact / Lightweight

*1 The rated life is the number of hours of use until the total luminous flux (brightness) becomes 70% of the initial value. The rated life shows an average value and is not guaranteed.

Color Gradation



LIGHTING IN ACTION

MARITIM HOTEL FRANKFURT GETS A NEW LEASE OF LIGHT WITH PANASONIC LIGHTING GROUP

Leading German hotel chain Maritim prides itself on providing comfort and atmosphere to its guests, which range from those on holiday to those visiting for, or conducting business meetings. Providing comfort and atmosphere goes beyond customer service, furniture and the dining experience.

The Maritim Hotel Group realises that lighting plays a huge part in how a hotel looks and feels to its customers. But how can a hotel keep the lights on while limiting its impact on the environment and keeping costs down?

Enter Panasonic's LED light bulbs.



Matthias Schaefer, Assistant Technical Director of Maritim Hotelgesellschaft mbH

The Lighting Challenge

The Maritim Hotel Frankfurt had previously used Halogen and CFL bulbs to light the hotel. However, Halogen bulbs were proving to be costly and the hotel was conscious of the impact the bulbs, which were not very energy-efficient, were having on the environment. In addition, the CFL bulbs were of poor lighting quality and did not achieve the atmosphere required.

Maritim Hotel Frankfurt sought a lighting solution that would meet its standards in terms of delivering on quality and achieving the appropriate atmosphere, while reducing the cost of lighting of over 500 bedrooms, eight executive suites, eight junior suites, restaurant, elevators, the lobby and its reception.

Maritim Hotel Frankfurt choose Panasonic Lighting Group

Identifying this challenge, the Maritim Hotel Frankfurt engaged with several key lighting manufacturers to consult on solutions to its lighting problems. The chosen vendor was expected to offer consultation, on-going support, quality solutions, cost savings, energy-efficient lighting and competitive market rates. After an in-depth procurement process, Maritim Hotel Frankfurt chose Panasonic to supply some 3,500 LED light bulbs, wherever appropriate, throughout the hotel.

"We needed a partner that would guide us through the process; identifying and proving cost savings while responding to any implementation issues quickly; Panasonic proved it could do all of this," said Matthias Schaefer, Assistant Technical Director of Maritim Hotelgesellschaft mbH.

"The implementation was technically challenging as the 12V LED light bulbs with a GU5.3 socket had to be made compatible with the Halogen transformers. However, Panasonic rose to the task and provided a solution that was compatible; ensuring that the implementation was as seamless as possible," added Mr Schaefer.

The results speak volumes

The Panasonic LED light bulbs that were installed at Maritim are not only 90 percent more energy-efficient than the previous halogen lights, but they also provide a better experience and atmosphere for visitors to the hotel.

"On average Panasonic's LED light bulbs last 40 times longer than the Halogen light bulbs we were using. In addition, within one year we will start to gain a return on investment from this installation. Therefore, this did and does make great business sense for us and most importantly allows us to provide a better experience for our customers", commented Mr Schaefer.

What next for Maritim Hotels?

Following the success of the implementation at its Frankfurt site, Maritim has also tasked Panasonic to start installing its lighting solutions in its Maritim Hotel Berlin. In addition, there are plans to roll-out this implementation across more of its hotels in due course.

"We are confident that Panasonic can not only equip our hotels with solutions that we need but also remain competitive as a partner through providing us with leading innovative products that meet our business needs", commented Mr Schaefer.



Nostalgic Clear-Type LED

Customers enjoy warm lighting

Energy- and thus cost-saving light bulbs make sense, however many on the market compromise on providing the genuinely warm, nostalgic ambience that customers enjoy. Not the Panasonic LED Nostalgic Clear lamp. All the benefits of LED lighting – long lifespan, friendly lighting and immediate light – have been incorporated into an award-winning clear design that reminds us of the beauty and warmth of traditional light bulbs. Many businesses are already benefitting from the LED Nostalgic Clear lamp, such as Maritim Hotel Frankfurt in Germany. The hotel chose Panasonic to supply 3,500 light bulbs for improving the ambience in their rooms. The result: long-term cost savings and increased customer satisfaction.

Award-winning LED lamp design

The Panasonic LED Nostalgic Clear lamp has won a host of awards, confirming its outstanding design and performance. As the first LED lamp to reproduce the classic clear design of a traditional light bulb, the LDAHV4L27CG Nostalgic Clear was honoured with the Japanese 'Good Design Award 2011' in Gold. In 2012, it received the 'Universal Design Award' as well as the 'Universal Design Consumer Favorite'. More recently it has won the red dot design award 2012 and the iF gold design award 2012.



High-tech nostalgia

Product Code	Lamp wattage	=	Equivalent for Incandescent	Light Angle (degree)	Lifetime (hours)	Light Colour Kelvin (K)	Lumen	Dimmable
LDAHV4L27CG	4.4W	=	20W	All-around	40.000	2700 Soft Warm	210	No
LDAHV6L27CGE	6.4W	=	40W	All-around	40.000	2700 Soft Warm	470	No

Icons below the table:

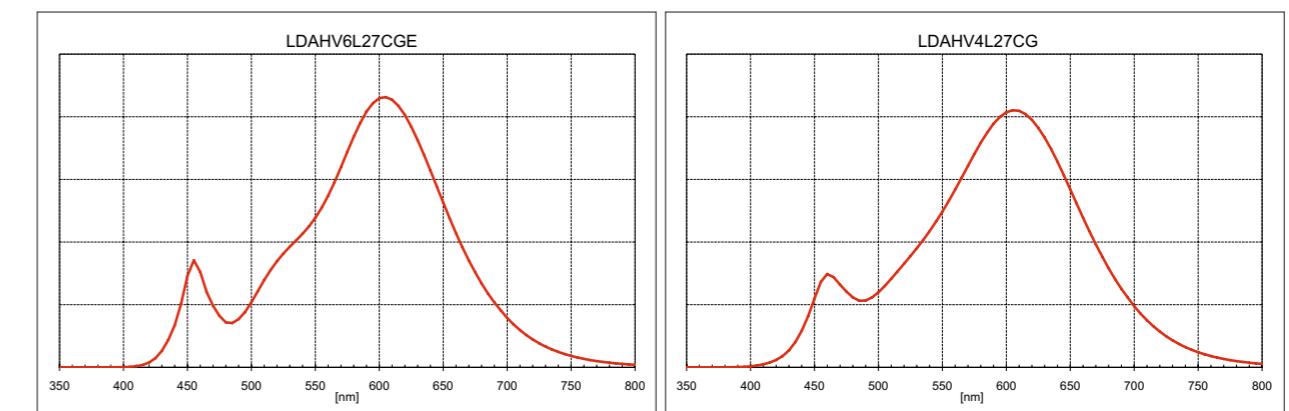
- 3 Years Warranty
- 85% Energy Saving
- 40 years**
- 40 000h
- enclosed fixture OK
- ON/OFF x100 000
- INSTANT 100 %
- Hg Mercury 0.0 mg
- No Dim
- 55 mm dia 100
- 60 mm dia 100
- Energy Class A

Clear type product - E27

- Similar to Incandescent - Extra Wide light Distribution
- Transparent incandescent type design for Nostalgic Atmosphere
- Light reproduction such as incandescent with Warm colour 2700K
- Extra Long Lasting lamp 40,000 hours
- High Efficiency energy saving 4.4W=20W and 6.4W=40W
- LED in same position as incandescent filament



Spectral Distribution Curve



Capsule-Type LED

Full light distribution: 300°

Product Code	Lamp wattage	=	Equivalent for Incandescent	Light Angle (degree)	Lifetime (hours)	Light Colour Kelvin (K)	Lumen	Dimmable
LDAHV7L27GE	7W	=	30W	300	40.000	2700 Soft Warm	325	No
LDAHV8L27G	8W	=	40W	300	40.000	2700 Soft Warm	470	No
LDAHV11L27G	11W	=	50W	300	40.000	2700 Soft Warm	600	No



83%
Energy Saving

40 years**
40 000h

enclosed fixture OK

OFF-ON

x100 000

INSTANT 100 %

Hg 0.0 mg

Mercury 0.0 mg

No Dim

Energy Class A

30W

40W-50W

11mm

60mm

11mm

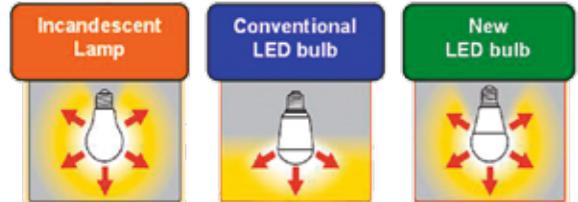
60mm

11mm

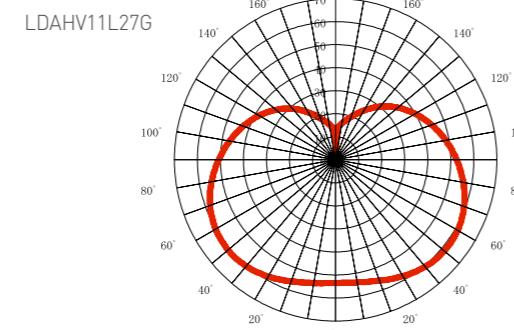
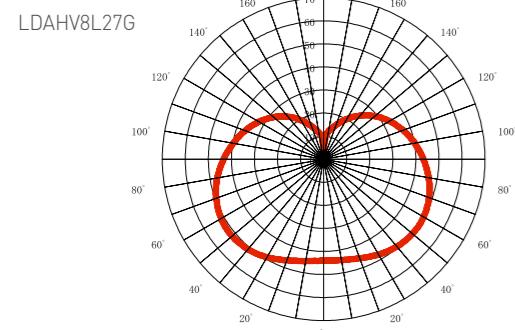
122mm

Capsule Product - E27

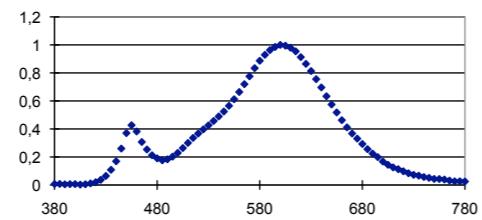
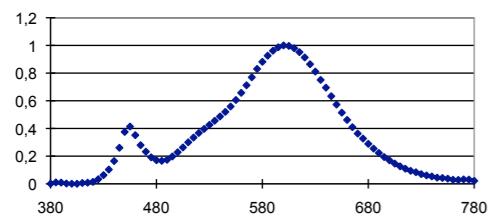
- Top class brightness
- Light reproduction with Warm colour 2700K
- Extra Long Lasting lamp 40,000 hours
- High Efficiency energy saving 7W=30W, 8W=40W or 11W=50W
- Suitable for totally enclosed fixture



Light Distribution Curve



Spectral Distribution Curve



Candle-Type LED

Clear transparent design

Product Code	Lamp wattage	=	Equivalent for Incandescent	Light Angle (degree)	Lifetime (hours)	Light Colour Kelvin (K)	Lumen	Dimmable
LDAHV4L27CE14D	4W	=	15W	All-around	15.000	2700 Soft Warm	136	Yes



73%
Energy Saving

15 years**
15 000h

enclosed fixture OK

OFF-ON

x100 000

INSTANT 100 %

Hg 0.0 mg

Mercury 0.0 mg

No Dim

Energy Class A

35mm

107mm

Candle product - E14

- Transparent design for nostalgic atmosphere
- Light reproduction with Warm colour 2700K
- High Efficiency energy saving 4W=15W
- Extra compact size
- Dimmable version



Reflector-Type LED

Heat Dissipation Technology

Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime	Light Colour (hours)	Lumen Kelvin (K)	Dimmable
LDAHV7L28HE	7W	=	30W	40.000	Soft Warm - 2800K	340	No



73%
Energy Saving

40 years**
40 000h

enclosed fixture OK

OFF-ON

x100 000

INSTANT 100 %

Hg 0.0 mg

Mercury 0.0 mg

No Dim

Energy Class A

25mm

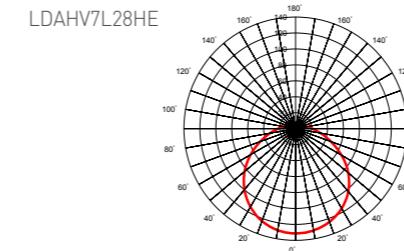
107mm

Reflector product

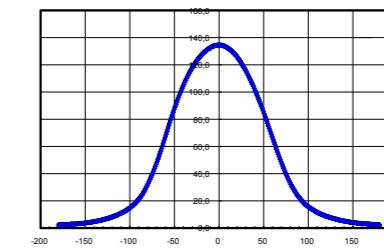
- Directional Reflector Lamp with 120 degree angle suitable for Spot Light
- Light reproduction with Warm colour 2800K
- Extra Long Lasting lamp 40,000 hours
- High Efficiency energy saving 7W=30W
- Panasonic unique Heat Radiation Technology



Light Distribution Curve



Spectral Distribution Curve



Halogen-Type LED

Halogen-Type LED Bulbs Low voltage (12v)

Product Code	Lamp wattage	=	Equivalent for Incandescent	Light Angle (degree)	Lifetime (hours)	Light Colour Kelvin (K)	Luminous Intensity Lumen	Candela	Dimmable
LDR12V4L27MG5	4W	=	20W	24	40.000	2700 Soft Warm	200	700	No
LDR12V4L27WG5	4W	=	20W	36	40.000	2700 Soft Warm	200	470	No
LDR12V4L30MG5	4W	=	20W	24	40.000	3000 Warm White	215	720	No
LDR12V4L30WG5	4W	=	20W	36	40.000	3000 Warm White	215	500	No
LDR12V4L27MG5D	4.2W	=	20W	24	40.000	2700 Soft Warm	180	630	Yes
LDR12V4L27WG5D	4.2W	=	20W	36	40.000	2700 Soft Warm	180	390	Yes
LDR12V4L30MG5D	4.2W	=	20W	24	40.000	3000 Warm White	200	670	Yes
LDR12V4L30WG5D	4.2W	=	20W	36	40.000	3000 Warm White	200	440	Yes
LDR12V6L27MG5D	6W	=	35W	24	40.000	2700 Soft Warm	230	900	Yes
LDR12V6L27WG5D	6W	=	35W	36	40.000	2700 Soft Warm	230	490	Yes
LDR12V6L30MG5D	6W	=	35W	24	40.000	3000 Warm White	260	1020	Yes
LDR12V6L30WG5D	6W	=	35W	36	40.000	3000 Warm White	260	560	Yes



Halogen products - GU5.3 retrofit product (12v)

- Halogen type of LED 4=20W, 4,2W= 20W and 6W=35W with GU5.3 socket
- Available in 2 warm colour choices 2700K or 3000K
- Available with 24 degrees or 36 degrees
- Extra Long Lasting lamp 40,000 hours
- Available in dimmable version



Halogen-Type LED Bulbs High voltage (220 - 240v)

Product Code	Lamp wattage	=	Equivalent for Incandescent	Light Angle (degree)	Lifetime (hours)	Light Colour Kelvin (K)	Luminous Intensity Lumen	Candela	Dimmable
LDRHV4L27MG10	4W	=	35W	24	40.000	2700 Soft Warm	200	700	No
LDRHV4L27WG10	4W	=	35W	36	40.000	2700 Soft Warm	200	470	No
LDRHV4L30MG10	4W	=	35W	24	40.000	3000 Warm White	215	720	No
LDRHV4L30WG10	4W	=	35W	36	40.000	3000 Warm White	215	500	No
LDRHV7L27MG10D	7W	=	50W	24	40.000	2700 Soft Warm	230	900	Yes
LDRHV7L27WG10D	7W	=	50W	36	40.000	2700 Soft Warm	230	490	Yes
LDRHV7L30MG10D	7W	=	50W	24	40.000	3000 Warm White	260	1040	Yes
LDRHV7L30WG10D	7W	=	50W	36	40.000	3000 Warm White	260	560	Yes



35W 50W

Halogen products - GU10 retrofit product (220-240v)

- Halogen type of LED 4W=35W and 7W=50W with GU10 socket
- Available in 2 warm colour choices 2700K or 3000K
- Available with 24 degrees or 36 degrees
- Extra Long Lasting lamp 40,000 hours
- Available in dimmable version



Compact Fluorescent Lamps (E27/E14 type)

Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD5E27HD3E	5W	=	30W	10.000	Soft Warm - 2700K	325
EFD5E65HD3E	5W	=	30W	10.000	Cool Daylight - 6500K	310



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD8E27HD3E	8W	=	45W	10.000	Soft Warm - 2700K	520
EFD8E65HD3E	8W	=	40W	10.000	Cool Daylight - 6500K	500



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD11E27HD3E	11W	=	55W	10.000	Soft Warm - 2700K	730
EFD11E65HD3E	11W	=	55W	10.000	Cool Daylight - 6500K	685



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD14E27HD3E	14W	=	75W	10.000	Soft Warm - 2700K	975
EFD14E65HD3E	14W	=	70W	10.000	Cool Daylight - 6500K	915



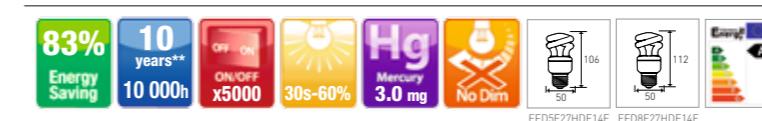
Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD19E27HD3E	19W	=	95W	10.000	Soft Warm - 2700K	1350
EFD19E65HD3E	19W	=	90W	10.000	Cool Daylight - 6500K	1250



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD22E27HD3E	22W	=	105W	10.000	Soft Warm - 2700K	1550
EFD22E65HD3E	22W	=	100W	10.000	Cool Daylight - 6500K	1450



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD5E27HDE14E	5W	=	30W	10.000	Soft Warm - 2700K	325
EFD8E27HDE14E	8W	=	40W	10.000	Soft Warm - 2700K	520



Panasonic's advanced technology

More compact design with brilliant shape: Panasonic has successfully reduced the minimal lamp wattage down to 14W for a 75W incandescent equivalent, with an innovative "spiral arc tube" enabling the ultra compact size still keeping tri-phosphor technology and higher colour rendering for natural looking light.

Number 1 in efficiency (up to 71 lm/W): The Panasonic Energy-Saving lamps provides more light per Watt than most competitors. With a wide voltage range (operating between 170V-250V) and a quick start, they can be used in a variety of applications such as in-floor lighting or staircases.

Compact Fluorescent Lamps (2-Pin / 4-Pin type)

2-pin type

Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS10E27/2D	10W	=	60W	10.000	Soft Warm - 2700K	600
FDS10E40/2D	10W	=	60W	10.000	Cool White - 4000K	600



G24d-1



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS13E27/2D	13W	=	75W	10.000	Soft Warm - 2700K	900
FDS13E40/2D	13W	=	75W	10.000	Cool White - 4000K	900



G24d-1



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS18E27/2D	18W	=	100W	10.000	Soft Warm - 2700K	1200
FDS18E30/2D	18W	=	100W	10.000	Warm White - 3000K	1200
FDS18E40/2D	18W	=	100W	10.000	Cool White - 4000K	1200



G24d-2



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS26E27/2D	26W	=	150W	10.000	Soft Warm - 2700K	1800
FDS26E30/2D	26W	=	150W	10.000	Warm White - 3000K	1800
FDS26E40/2D	26W	=	150W	10.000	Cool White - 4000K	1800



G24d-4



4-pin type

Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS13E27/4D	13W	=	75W	10.000	Soft Warm - 2700K	900
FDS13E40/4D	13W	=	75W	10.000	Cool White - 4000K	900



G24q-2



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS18E27/4D	18W	=	100W	10.000	Soft Warm - 2700K	1200
FDS18E30/4D	18W	=	100W	10.000	Warm White - 3000K	1200
FDS18E40/4D	18W	=	100W	10.000	Cool White - 4000K	1200



G24q-3



Product Code	Lamp wattage	=	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS26E27/4D	26W	=	150W	10.000	Soft Warm - 2700K	1800
FDS26E30/4D	26W	=	150W	10.000	Warm White - 3000K	1800
FDS26E40/4D	26W	=	150W	10.000	Cool White - 4000K	1800



G24q-4



Model Number	Description	Lamp Wattage Consumption [W]	Wattage Incandescent or Halogen Equivalent [W]	Warranty Period [years]	Lamp Luminous Flux [lm]	Efficiency [lm/W]	Luminous Intensity [cd] at 24° angle	Luminous Intensity [cd] at 35° angle	Energy Saving Compared to Incandescent or Halogen (%)	EU Label Energy Rating	Color Type in Kelvin [K]	Light Bulb Dimension [mm]		Base Socket Type	Frequency [Hz]	Input Voltage [V]
												Diameter	Length			
LDAHV4L27CG	LED E27 CLEAR 4.4W=20W 2700K 40H	4,4	20	3	210	48	-	-	78	A	Soft Warm - 2700K	55	101	E27	50/60	220/240
LDAHV6L27CGE	LED E27 CLEAR 6.4W=40W 2700K 40H	6,4	40	3	470	73	-	-	85	A	Soft Warm - 2700K	60	119	E27	50/60	220/240
LDAHV7L27GE	LED E27 MULTI 7W=32W 2700K 300D 40H	7	30	3	325	46	-	-	77	A	Soft Warm - 2700K	60	113	E27	50/60	220/240
LDAHV8L27G	LED E27 MULTI 8W=40W 2700K 300D 40H	8	40	3	470	59	-	-	80	A	Soft Warm - 2700K	60	127	E27	50/60	220/240
LDAHV11L27G	LED E27 MULTI 11W=50W 2700K 300D 40H	11	50	3	600	55	-	-	78	A	Soft Warm - 2700K	60	127	E27	50/60	220/240
LDAHV7L28HE	LED E27 REFL 7W=40W 2800K 120D 40H	7	40	3	340	49	-	-	83	A	Soft Warm - 2700K	55	107	E27	50/60	220/240
LDAHV4L27CE14D	LED E14 CLEAR 4W=15W 2700K 15H DIM	4	15	3	136	34	-	-	73	A	Soft Warm - 2700K	35	105	E14	50/60	220/240
LDRHV4L27MG10	LED GU10 4W=35W 24D 2700K 40H	4	35	3	200	50	700	-	89	A	Soft Warm - 2700K	50	55	GU10	50/60	220/240
LDRHV4L27WG10	LED GU10 4W=35W 36D 2700K 40H	4	35	3	200	50	-	470	89	A	Soft Warm - 2700K	50	55	GU10	50/60	220/240
LDRHV4L30MG10	LED GU10 4W=35W 24D 3000K 40H	4	35	3	215	54	720	-	89	A	Warm White - 3000K	50	55	GU10	50/60	220/240
LDRHV4L30WG10	LED GU10 4W=35W 36D 3000K 40H	4	35	3	215	54	-	500	89	A	Warm White - 3000K	50	55	GU10	50/60	220/240
LDRHV7L27MG10D	LED GU10 7W=50W 24D 2700K 40H DIM	7	50	3	230	33	900	-	86	A	Soft Warm - 2700K	50	65	GU10	50/60	220/240
LDRHV7L27WG10D	LED GU10 7W=50W 36D 2700K 40H DIM	7	50	3	230	33	-	490	86	A	Soft Warm - 2700K	50	65	GU10	50/60	220/240
LDRHV7L30MG10D	LED GU10 7W=50W 24D 3000K 40H DIM	7	50	3	260	37	1040	-	86	A	Warm White - 3000K	50	65	GU10	50/60	220/240
LDRHV7L30WG10D	LED GU10 7W=50W 36D 3000K 40H DIM	7	50	3	260	37	-	560	86	A	Warm White - 3000K	50	65	GU10	50/60	220/240
LDR12V4L27MG5	LED GU5.3 MR16 4W=20W 24D 2700K 40H	4	20	3	200	50	700	-	80	A	Soft Warm - 2700K	50	49	GU5.3	50/60	12
LDR12V4L27WG5	LED GU5.3 MR16 4W=20W 36D 2700K 40H	4	20	3	200	50	-	470	80	A	Soft Warm - 2700K	50	49	GU5.3	50/60	12
LDR12V4L30MG5	LED GU5.3 MR16 4W=20W 24D 3000K 40H	4	20	3	215	54	720	-	80	A	Warm White - 3000K	50	49	GU5.3	50/60	12
LDR12V4L30WG5	LED GU5.3 MR16 4W=20W 36D 3000K 40H	4	20	3	215	54	-	500	80	A	Warm White - 3000K	50	49	GU5.3	50/60	12
LDR12V4L27MG5D	LED GU5.3 MR16 4.2W=20W 24D 2700K 40H DIM	4,2	20	3	180	43	630	-	79	A	Soft Warm - 2700K	50	46	GU5.3	50/60	12
LDR12V4L27WG5D	LED GU5.3 MR16 4.2W=20W 36D 2700K 40H DIM	4,2	20	3	180	43	-	390	79	A	Soft Warm - 2700K	50	46	GU5.3	50/60	12
LDR12V4L30MG5D	LED GU5.3 MR16 4.2W=20W 24D 3000K 40H DIM	4,2	20	3	200	48	670	-	79	A	Warm White - 3000K	50	46	GU5.3	50/60	12
LDR12V4L30WG5D	LED GU5.3 MR16 4.2W=20W 36D 3000K 40H DIM	4,2	20	3	200	48	-	440	79	A	Warm White - 3000K	50	46	GU5.3	50/60	12
LDR12V6L27MG5D	LED GU5.3 MR16 6W=35W 24D 2700K 40H DIM	6	35	3	230	38	900	-	83	A	Soft Warm - 2700K	50	46	GU5.3	50/60	12
LDR12V6L27WG5D	LED GU5.3 MR16 6W=35W 36D 2700K 40H DIM	6	35	3	230	38	-	490	83	A	Soft Warm - 2700K	50	46	GU5.3	50/60	12
LDR12V6L30MG5D	LED GU5.3 MR16 6W=35W 24D 3000K 40H DIM	6	35	3	260	43	1020	-	83	A	Warm White - 3000K	50	46	GU5.3	50/60	12
LDR12V6L30WG5D	LED GU5.3 MR16 6W=35W 36D 3000K 40H DIM	6	35	3	260	43	-	560	83	A	Warm White - 3000K	50	46	GU5.3	50/60	12

Model Number	Description	Light Angle	Lifetime [hours]	Expected Lifetime in years (at usage 2.7 hours per day)	Lamp Power Factor	Lumens Maintenance Factor at the End of Nominal life (%)	Lamp Mercury Content [mg]	Light Quick Start [lm]	Color Rendering Index [Ra]	Operating Temperature [degrees] (based on dependency curve)	Number of Switching Cycles	Dimmable	Transformator	Individual EAN Code
LDAHV4L27CG	LED E27 CLEAR 4.4W=20W 2700K 40H	Xtra Wide	40.000	40	0,55	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232641758
LDAHV6L27CGE	LED E27 CLEAR 6.4W=40W 2700K 40H	Xtra Wide	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232688340
LDAHV7L27GE	LED E27 MULTI 7W=32W 2700K 300D 40H	300	40.000	40	0,61	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232648344
LDAHV8L27G	LED E27 MULTI 8W=40W 2700K 300D 40H	300	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232675752
LDAHV11L27G	LED E27 MULTI 11W=50W 2700K 300D 40H	300	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232687541
LDAHV7L28HE	LED E27 REFL 7W=40W 2800K 120D 40H	120	40.000	40	0,61	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232620241
LDAHV4L27CE14D	LED E14 CLEAR 4W=15W 2700K 15H DIM	Xtra Wide	15.000	15	-	70	0,0	instant/100%	80	-30/+50	100.000	Yes	Built in	5025232688302
LDRHV4L27MG10	LED GU10 4W=35W 24D 2700K 40H	24	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232652655
LDRHV4L27WG10	LED GU10 4W=35W 36D 2700K 40H	36	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232652686
LDRHV4L30MG10	LED GU10 4W=35W 24D 3000K 40H	24	40.000	40	-	70	0,0	instant/100%	80	-30/+50	100.000	No	Built in	5025232652716
LDRHV4L30WG10	LED GU10 4W=35W 36D 3000K 40H	36	40.000	40	-	70	0,0	instant/100%	80	-30/+50				

Model Number	Description	Lamp Wattage Consumption [W]	Wattage Incandescent or Halogen Equivalent [W]	Lamp Luminous Flux [lm]	Efficiency [lm/W]	Energy Saving Compared to Incandescent or Halogen [%]	EU Label Energy Rating	Color Type in Kelvin [K]	Light Bulb Dimension [mm]		Base Socket Type	Frequency [Hz]	Input Voltage [V]
									Diameter	Length			
EFD5E27HDE14E	ESL ECO SPIRAL 5W 2700K 8h E14	5	30	325	65	83	A	Soft Warm - 2700K	50	106	E14	50/60	220/240
EFD8E27HDE14E	ESL ECO SPIRAL 8W 2700K 10h E14	8	40	520	65	80	A	Soft Warm - 2700K	50	112	E14	50/60	220/240
EFD5E27HD3E	ESL ECO SPIRAL 5W 2700K 8h	5	30	325	65	83	A	Soft Warm - 2700K	50	95	E27	50/60	220/240
EFD5E65HD3E	ESL ECO SPIRAL 5W 6500K 8h	5	30	310	62	83	A	Cool Daylight - 6500K	50	95	E27	50/60	220/240
EFD8E27HD3E	ESL ECO SPIRAL 8W 2700K 10h	8	45	520	65	82	A	Soft Warm - 2700K	50	101	E27	50/60	220/240
EFD8E65HD3E	ESL ECO SPIRAL 8W 6500K 10h	8	40	500	63	80	A	Cool Daylight - 6500K	50	101	E27	50/60	220/240
EFD11E27HD3E	ESL ECO SPIRAL 11W 2700K 10h	11	55	730	66	80	A	Soft Warm - 2700K	50	110	E27	50/60	220/240
EFD11E65HD3E	ESL ECO SPIRAL 11W 6500K 10h	11	55	685	62	80	A	Cool Daylight - 6500K	50	110	E27	50/60	220/240
EFD14E27HD3E	ESL ECO SPIRAL 14W 2700K 10h	14	75	975	70	81	A	Soft Warm - 2700K	50	116	E27	50/60	220/240
EFD14E65HD3E	ESL ECO SPIRAL 14W 6500K 10h	14	70	915	65	80	A	Cool Daylight - 6500K	50	116	E27	50/60	220/240
EFD19E27HD3E	ESL ECO SPIRAL 19W 2700K 10h	19	95	1350	71	80	A	Soft Warm - 2700K	60	123	E27	50/60	220/240
EFD19E65HD3E	ESL ECO SPIRAL 19W 6500K 10h	19	90	1250	66	79	A	Cool Daylight - 6500K	60	123	E27	50/60	220/240
EFD22E27HD3E	ESL ECO SPIRAL 22W 2700K 10h	22	105	1550	70	79	A	Soft Warm - 2700K	60	132	E27	50/60	220/240
EFD22E65HD3E	ESL ECO SPIRAL 22W 6500K 10h	22	100	1450	66	78	A	Cool Daylight - 6500K	60	132	E27	50/60	220/240
FDS10E27/2D	CFL FDS 2PIN 10W 2700K 10h	10	60	600	60	83	B	Soft Warm - 2700K	35	117	G24d-1	50/60	220/240
FDS10E40/2D	CFL FDS 2PIN 10W 4000K 10h	10	60	600	60	83	B	Cool White - 4000K	35	117	G24d-1	50/60	220/240
FDS13E27/2D	CFL FDS 2PIN 13W 2700K 10h	13	75	900	69	83	B	Soft Warm - 2700K	35	140	G24d-1	50/60	220/240
FDS13E40/2D	CFL FDS 2PIN 13W 4000K 10h	13	75	900	69	83	B	Cool White - 4000K	35	140	G24d-1	50/60	220/240
FDS18E27/2D	CFL FDS 2PIN 18W 2700K 10h	18	100	1200	67	82	B	Soft Warm - 2700K	35	153	G24d-2	50/60	220/240
FDS18E30/2D	CFL FDS 2PIN 18W 3000K 10h	18	100	1200	67	82	B	Warm White - 3000K	35	153	G24d-2	50/60	220/240
FDS18E40/2D	CFL FDS 2PIN 18W 4000K 10h	18	100	1200	67	82	B	Cool White - 4000K	35	153	G24d-2	50/60	220/240
FDS26E27/2D	CFL FDS 2PIN 26W 2700K 10h	26	150	1800	69	83	B	Soft Warm - 2700K	35	170	G24d-3	50/60	220/240
FDS26E30/2D	CFL FDS 2PIN 26W 3000K 10h	26	150	1800	69	83	B	Warm White - 3000K	35	170	G24d-3	50/60	220/240
FDS26E40/2D	CFL FDS 2PIN 26W 4000K 10h	26	150	1800	69	83	B	Cool White - 4000K	35	170	G24d-3	50/60	220/240
FDS13E27/4D	CFL FDS 4PIN 13W 2700K 10h	13	75	900	69	83	B	Soft Warm - 2700K	35	132	G24q-1	50/60	220/240
FDS13E40/4D	CFL FDS 4PIN 13W 4000K 10h	13	75	900	69	83	B	Cool White - 4000K	35	132	G24q-1	50/60	220/240
FDS18E27/4D	CFL FDS 4PIN 18W 2700K 10h	18	100	1200	67	82	B	Soft Warm - 2700K	35	145	G24q-2	50/60	220/240
FDS18E30/4D	CFL FDS 4PIN 18W 3000K 10h	18	100	1200	67	82	B	Warm White - 3000K	35	145	G24q-2	50/60	220/240
FDS18E40/4D	CFL FDS 4PIN 18W 4000K 10h	18	100	1200	67	82	B	Cool White - 4000K	35	145	G24q-2	50/60	220/240
FDS26E27/4D	CFL FDS 4PIN 26W 2700K 10h	26	150	1800	69	83	B	Soft Warm - 2700K	35	163	G24q-3	50/60	220/240
FDS26E30/4D	CFL FDS 4PIN 26W 3000K 10h	26	150	1800	69	83	B	Warm White - 3000K	35	163	G24q-3	50/60	220/240
FDS26E40/4D	CFL FDS 4PIN 26W 4000K 10h	26	150	1800	69	83	B	Cool White - 4000K	35	163	G24q-3	50/60	220/240

Model Number	Description	Light Angle	Lifetime (hours)	Expected Lifetime in years [at usage 2.7 hours per day]	Lamp Power Factor	Lumens Maintenance Factor at the End of Nominal life [%]	Lamp Mercury Content [mg]	Time to Reach 60% of Light Output	Color Rendering Index [Ra]	Operating Temperature [degrees] (based on dependency curve)	Number of Switching Cycles	Dimmable	Transformator	Individual EAN Code
EFD5E27HDE14E	ESL ECO SPIRAL 5W 2700K 8h E14	Xtra Wide	10.000	10	0,59	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232595921
EFD8E27HDE14E	ESL ECO SPIRAL 8W 2700K 10h E14	Xtra Wide	10.000	10	0,58	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232595945
EFD5E27HD3E	ESL ECO SPIRAL 5W 2700K 8h	Xtra Wide	10.000	10	0,59	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596010
EFD5E65HD3E	ESL ECO SPIRAL 5W 6500K 8h	Xtra Wide	10.000	10	0,59	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596027
EFD8E27HD3E	ESL ECO SPIRAL 8W 2700K 10h	Xtra Wide	10.000	10	0,58	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596034
EFD8E65HD3E	ESL ECO SPIRAL 8W 6500K 10h	Xtra Wide	10.000	10	0,58	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596041
EFD11E27HD3E	ESL ECO SPIRAL 11W 2700K 10h	Xtra Wide	10.000	10	0,56	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596058
EFD11E65HD3E	ESL ECO SPIRAL 11W 6500K 10h	Xtra Wide	10.000	10	0,56	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	5025232596065
EFD14E27HD3E	ESL ECO SPIRAL 14W 2700K 10h	Xtra Wide	10.000	10	0,61	65%	3,0	30sec/60%	84	-30/+50	5.000	No	Built in	50252325

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