

Leading Innovation >>>



Lighting increases a sense of security and well being Light is malleable and can therefore be varied according to our needs and our environment. Light enables us to plan by being a solution in itself for even the most tailored requirements - whether traditional or innovative, practical or emotional. Toshiba has been producing lighting for over 120 years. With our wide range of products, we offer the optimal solution for perfect light. Our LED lamps and luminaires meet the highest Be inspired by this product brochure with the

many ways to achieve your lighting solution.

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I want to see just that



Recessed and Downlights

Light - as you like it



PACK Series

Ready for the perfect light



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Lighten up your work



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LED - lighting for all moods



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Toshiba LED

History, environment, energy efficiency

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standards thanks to their efficiency and functionality

as well as their outstanding aesthetics.

A 120 year history of success

NO HEAT IN BEAM EXTREMELY LOW POWER CONSUMPTION HARMONIOUS LIGHT COLOURS NO UV OR IR RADIATION LEAD AND MERCURY-FREE INSTANT QUALITY LIGHT DIMMABLE* BETWEEN 10 AND 100%

VERY LOW COLOUR TOLERANCE

Lighting technology from Toshiba

1875

Hisashige Tanaka founded the company Tanaka Engineering Works (Tanaka Seizo-sho), which was later renamed Shibaura Engineering Works (Shibaura Seisaku-sho).

1890

Ichisuke Fujioka founded the company Hakunetsusha & Co. Ltd., Japan's first incandescent lamp factory. It produced carbon filament lamps.

1899

Renamed Tokyo Electric Company (Tokyo Denki).

1939

Merger of the Tokyo Electric Company and Shibaura Engineering Works Co. Ltd. (Tanaka Seisaku-sho) in Tokyo Shibaura Electric Co. Ltd. - In short, Toshiba.

1940

Production of Japan's first fluorescent lamp.

1980

Production of the world's first compact bulb-shaped fluorescent lamp - the "NeoBall" - characterised by its low energy consumption rate.

2007

Development of the E-CORE LED Downlights - with a lamp life of over 40,000 hours. LED becomes a universal means of lighting.

2008

Toshiba's Environmental Vision 2050 seeks to harmonize the environment with a better future for people. Toshiba Lighting therefore announces the termination of the production of conventional light bulbs in 2010.

TOSHIBA

2009

Production E-CORE LED Lamp: LED enters a new market by becoming compliant with classical lamps.

2010

March 2010: termination of the production of incandescent light bulbs.

2012

Expand further in the european market thanks to a fixture line-up covering commercial lighting applications.

2014

Toshiba Lighting takes accent illumination one step further: the NEOACCENT Shoplights integrate perfectly into different indoor architecture and enable an optimized heat management.

* Trailing edge dimmer; Compatibility list at www.toshiba.eu/lighting





Toshiba's environmental vision for 2050



"Improving our global eco-efficiency by 2050"

Do you believe it? At Toshiba, we do.

We are convinced that economy compliments ecology and that each corporation is responsible for the economical, social and environmental issues of its products.

One of many examples: after years of hard work, our LEDs use up to 80 % less energy than incandescent lamps.

Environment is our priority.

Welcome to Toshiba.



LED: 3 letters for 1 solution

With such ambitious goals, Toshiba Lighting had to find means to produce much better light bulbs than incandescent and halogen lamps. This aim combined with economic and environmental issues: we blazed our path to the solution.

In the 70's, an LED was used as a coloured indicator or warning lights.

In 1996, we obtained white light LEDs.

Today LEDs light large areas like museums, public places and parks to houses.

We began developing LEDs in the very early stages of the technology as we saw its potential for vast energy savings and long life. It was a gamble that we are now seeing a return on many years later. A true sign of our commitment to this innovative technology.



The four "Greens" and the management supporting them

Achieving the highest level of environmental performance in all newly developed product to reduce life-cycle enviromental impact

Greening of **Products** Creation of products

with highest level performance Management

Aiming to be the most excellent company in environmental management through the training of employees and continuous improvement in environmental communications

Greening of **Process** Environmentally

Green

Continuous

basic activities

Greening of Technology Low-carbon energy technologies

Achieving one of the world's lowest levels of environmental impacts by reducing all manufacturing-related environmental impact

Contributing to provision of a stable power supply and mitigation of climate change through the low-carbon energy technologies





Back in 2008, we announced that we anticipated the end of the production of conventional incandescent lamps by 2010. And, as it happens we were right - with production completely shut down in 2010. Toshiba Lighting sees itself as the brand that researches, develops and manufactures with man and the environment in mind.

We have given a name to this consistent thought and action: Akari. Focus on the needs of people as well as thinking and acting sustainably. This is the driving force behind Toshiba's continuous innovation processes.

This shapes Toshiba E-CORE LED products and makes them unique and exemplary. Exemplary in: operating life, energy consumption, reduction of CO2 emissions by 80 % compared to conventional incandescent lamps, the range of the performance and colour spectrum and the resulting application possibilities. "Leading Innovation" - in no other area is this claim of Toshiba more directly experienced than here.

E-CORE LED Lighting, your partner for the future

From the beginning, E-CORE LED Lighting was praised by a large public composed of retailers, professionals, architects and end users, as its 73% growth over last year shows.

Whether it be "a light to see" for your general lighting or a "light accent" for your shop displays, E-CORE LED Lighting will meet your needs.

Let's discover our catalogue for 2014. Just follow the light.

Why does everybody choose E-CORE LED Lighting?

Last year, hundreds of thousands of professionals and customers from the whole world chose our LEDs. How can we explain such a success? Let's ask them!

- Our LEDs last up to 60,000 hours without any maintenance
- Our LEDs use up to 80 % less energy than incandescent lamps
- Our LEDs withstand shock and vibration
- Our LEDs generate virtually no ultraviolet and no infra red
- Our LEDs can reduce CO2 emissions by 80 % compared to incandescent lamps
- Generate less heat thereby contributing towards lower air-conditioning costs
- A very wide range with many sizes and colours offering new creative opportunities

A very wide range for many different needs

With E-CORE LED Lighting, Toshiba wants to make as many people as possible benefit from its progress. For many years, our engineers worked altogether to develop our LED technology.

We are very demanding with ourselves in order to reach one goal: Answer all your lighting needs.

This catalogue is made for you. Read it carefully: the future is under your eyes.









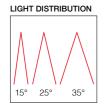


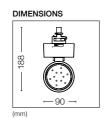
NEOACCENT Tracklight

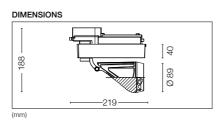
Dynamic design, powerful accents, full flexibility - the NEOACCENT series offers everything to enable a timeless, high quality accent illumination with LED. The tracklight convinces through its discrete streamline look that perfectly integrates into different indoor architecture and enables an optimized heat management. With lumen packages of up to 2,600 lm the NEOACCENT series can efficiently replace 20 W and 35 W HID systems.

FEATURES

- Dimmable: Yes / Control on gear box
- Protection rating: IP20
- Temperature range: 5 °C 35 °C







	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUS00045B30	White		1,600 lm	15°	13,830 cd		220 - 240 V	85	40,000 h
LEDEUS00046B30	White	_	1,600 lm	25°	8,000 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00047B30	White	0000 1/	1,500 lm	35°	3,300 cd	<u> </u>	220 - 240 V	85	40,000 h
LEDEUS00054B30	White	- 3000 K	2,420 lm	15°	21,170 cd		220 - 240 V	85	40,000 h
LEDEUS00055B30	White	_	2,370 lm	25°	10,970 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00056B30	White	_	2,340 lm	35°	4,885 cd		220 - 240 V	85	40,000 h
NEUTRAL WHITE									
LEDEUS00045B40	White		1,700 lm	15°	14,830 cd		220 - 240 V	85	40,000 h
LEDEUS00046B40	White	_	1,700 lm	25°	8,700 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00047B40	White	4000 1/	1,600 lm	35°	3,700 cd	_	220 - 240 V	85	40,000 h
LEDEUS00054B40	White	– 4000 K	2,600 lm	15°	22,780 cd		220 - 240 V	85	40,000 h
LEDEUS00055B40	White	_	2,550 lm	25°	11,800 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00056B40	White	_	2.520 lm	35°	5.260 cd	_	220 - 240 V	85	40.000 h

Exists also in black and silver. Please see our website or contact your representative for further information. Additional High CRI filter available as accessory (see page 15)





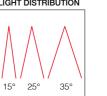
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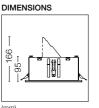


FEATURES

- Dimmable: Yes / DALI
- Protection rating: IP20
- Temperature range: 5 °C 35 °C

LIGHT DISTRIBUTION





NEOACCENT Battery

The NEOACCENT Battery recessed luminaires

to meet even the most unusual challenges. The

single, double and triple installation frames can

be fitted, according to the customer's wishes and

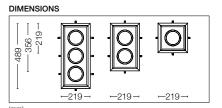
needs, with any of the varied range of light heads.

These integrate seamlessly into the ceiling design,

still offering maximum flexibility through adjustability

- always projecting the light to where it is needed.

enable solutions that can be combined individually



	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
LIGHT HEAD - WARM WHITE									
LEDEUS00072D30	White		1,600 lm	15°	13,830 cd		220 - 240 V	85	40,000 h
LEDEUS00073D30	White		1,600 lm	25°	8,000 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00074D30	White	– 3000 K	1,500 lm	35°	3,300 cd		220 - 240 V	85	40,000 h
LEDEUS00082D30	White	- 3000 K	2,420 lm	15°	21,170 cd		220 - 240 V	85	40,000 h
LEDEUS00083D30	White		2,370 lm	25°	10,970 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00084D30	White		2,340 lm	35°	4,885 cd		220 - 240 V	85	40,000 h
LIGHT HEAD - NEUTRAL WHITE									
LEDEUS00072D40	White		1,700 lm	15°	14,830 cd		220 - 240 V	85	40,000 h
LEDEUS00073D40	White	_	1,700 lm	25°	8,700 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00074D40	White	– 4000 K	1,600 lm	35°	3,700 cd		220 - 240 V	85	40,000 h
LEDEUS00082D40	White	- 4000 K	2,600 lm	15°	22,780 cd		220 - 240 V	85	40,000 h
LEDEUS00083D40	White	_	2,550 lm	25°	11,800 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00084D40	White		2,520 lm	35°	5,260 cd		220 - 240 V	85	40,000 h
LEDEUS00063C	Installation	n frame for 1 Light h	nead / White /	Ceiling cut	out: 200 x 200	mm			
LEDEUS00066C	Installation	n frame for 2 Light h	neads / White /	Ceiling cut	-out: 200 x 337	mm			
LEDEUS00069C	Installation	n frame for 3 Light h	neads / White /	Ceiling cut	out: 200 x 468	mm			

Exists also in black and silver. Please see our website or contact your representative for further information. Additional High CRI filter available as accessory (see page 15)



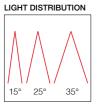


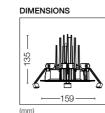


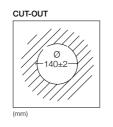
Individual shop architectures, diverse colour concepts and different ceiling designs: NEOACCENT Extractable recessed spotlights, with their two different colour temperatures, three housing colours and optional High CRI Filter, can be integrated perfectly into any retail space. Meanwhile, the light head's ability to be rotated and pivoted ensures optimum flexibility, even where space is limited. In addition, the Extractable spotlights can always be combined with the other products in the NEOACCENT series to create integrated lighting concepts.

FEATURES

- Dimmable: Yes / DALI
- Protection rating: IP20
- Temperature range: 5 °C 35 °C









	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUS00027D30	White		1,600 lm	15°	13,830 cd		220 - 240 V	85	40,000 h
LEDEUS00028D30	White	_	1,600 lm	25°	8,000 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00029D30	White	0000 1/	1,500 lm	35°	3,300 cd	_	220 - 240 V	85	40,000 h
LEDEUS00036D30	White	– 3000 K	2,420 lm	15°	21,170 cd		220 - 240 V	85	40,000 h
LEDEUS00037D30	White		2,370 lm	25°	10,970 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00038D30	White	_	2,340 lm	35°	4,885 cd		220 - 240 V	85	40,000 h
NEUTRAL WHITE									
LEDEUS00027D40	White		1,700 lm	15°	14,830 cd		220 - 240 V	85	40,000 h
LEDEUS00028D40	White	_	1,700 lm	25°	8,700 cd	22 W	220 - 240 V	85	40,000 h
LEDEUS00029D40	White	– – 4000 K	1,600 lm	35°	3,700 cd		220 - 240 V	85	40,000 h
LEDEUS00036D40	White	- 4000 K	2,600 lm	15°	22,780 cd		220 - 240 V	85	40,000 h
LEDEUS00037D40	White	_	2,550 lm	25°	11,800 cd	32 W	220 - 240 V	85	40,000 h
LEDEUS00038D40	White	_	2,520 lm	35°	5,260 cd	_	220 - 240 V	85	40,000 h

Exists also in black and silver. Please see our website or contact your representative for further information. Additional High CRI filter available as accessory (see page 15)





NEOACCENT CRI Filter

Please find here an indication of the colour rendition values when using the additional high CRI filter, as well as detailed photometric information:

		CCT (K)	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
	3000 K	3,000	85	82	91	98	83	83	88	88	67	18	75	79	69	83	97	76
00 W	3000 K with filter	3,060	96	98	97	89	94	99	96	97	97	87	89	94	83	99	92	98
22 W	4000 K	4,000	85	84	90	94	83	83	86	88	71	29	78	82	66	87	97	81
	4000 K with filter	4,230	96	97	97	89	97	97	94	97	97	98	90	96	74	99	93	95
	3000 K	3,000	85	82	91	98	83	83	88	88	67	18	75	79	69	83	97	76
32 W	3000 K with filter	3,060	96	98	97	89	94	99	96	97	97	87	89	94	83	99	92	98
32 VV	4000 K	4,000	85	84	90	94	83	83	86	88	71	29	78	82	66	87	97	81
	4000 K with filter	4,230	96	97	97	89	97	97	94	97	97	98	90	96	74	99	93	95

			LUMEN O	LUMEN OUTPUT (lm)			CBCP (cd)		
		CCT (K)	15°	25°	35°	15°	25°	35°	
	3000 K	3,000	1,600	1,600	1,500	13,80	00 8,000	3,300	
22 W	3000 K with filter	3,060	1,215	1,215	1,140	10,2	0 5,920	2,440	
22 VV	4000 K	4,000	1,700	1,700	1,600	14,83	80 8,700	3,700	
	4000 K with filter	4,230	1,290	1,290	1,215	10,97	0 6,435	2,735	
	3000 K	3,000	2,420	2,370	2,340	21,17	0 10,970	4,885	
32 W	3000 K with filter	3,060	1,835	1,800	1,775	15,66	8,115	3,615	
32 VV	4000 K	4,000	2,600	2,550	2,520	22,78	11,800	5,260	
	4000 K with filter	4,230	1,975	1,935	1,915	16,85	55 8,730	3,890	

	DESCRIPTION	SIZE OF PACKAGING (L x H x W)	GROSS WEIGHT
HIGH CRI FILTER			
LEDEUSX0002	Box of 10 pcs.	150 x 150 x 100 mm	374 g



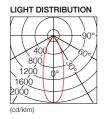


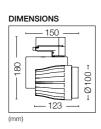
E-CORE LED TRACKLIGHT 1200

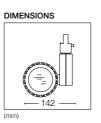
This elegant spotlight range stands for demanding lighting solutions with its high-tech components. Whether for the high-quality presentation of goods or for displaying art, the spectrum of different colour and reflected beam characteristics offers exemplary creative leeway. The excellent colour reproduction makes it a suitable substitute for previous applications of 20 W HID lamps. As a chip-on-board design, the appealing eye-catcher ups the ante in the quality stakes with a multi shadow-free spotlight, the greatest power density and optimised thermo-management.

FEATURES

- Dimmable: No
- Electrical class: IProtection rating: IP20
- Temperature range: 5 °C 35 °C
- ENEC
- Twist & Lock cover







	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUS00006N30	White	— 3000 K	1,000 lm	40°	2,200 cd	21 W	220 - 240 V	80	40,000 h
LEDEUS00005N30	White	— 3000 K	1,100 lm	22°	4,700 cd	21 W	220 - 240 V	80	40,000 h
NEUTRAL WHITE									
LEDEUS00006N40	White	4000 17	1,300 lm	40°	2,600 cd	21 W	220 - 240 V	80	40,000 h
LEDEUS00005N40	White	— 4000 K	1,300 lm	22°	5,600 cd	21 W	220 - 240 V	80	40,000 h
Exists also in black and silver	r. Please contact you	representative for fur	rther information	١.					
LEDEUSX0001	Colour rend	dering improvement fi	Iter (R9)						

COLOUR RENDERING	Ra	R9
3000 K	80	32
3000 K with filter	90	94
4000 K	80	24
4000 K with filter	87	92

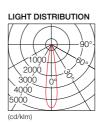


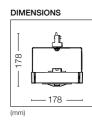
GIMBAL TRACK SPOT111

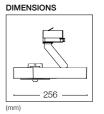
The multitalented gimbal for row lighting systems. Like its mounting pendants, the spotlight relies on the intense-beam AR111 E-CORE illuminants and its gimbal mounting ensures limitless freedom in use. The harmonious union of the light and illuminant are convincing thanks to their masterful radiation and they guarantee excellent structural integration.

FEATURES

- Applicable lamp: E-CORE AR111
- Dimmable: No
- Protection rating: IP20
- Temperature range: 5 °C 35 °C







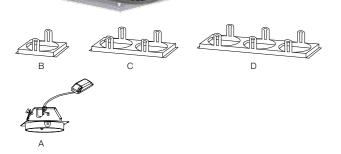
	FINISH	RATED VOLTAGE	FREQUENCY	BASE
FIXTURE				
LEDEUS00001C	White			
LEDEUS00002C	Silver	230 - 240 V	50 Hz	G53
LEDEUS00003C	Black			

AR111 lamp to be ordered separately (see pages 66/67)
Our new AR111 10,5W and AR111 14,5W offer a wide range of colour temperatures, beam angles and wattages.





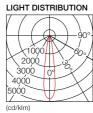


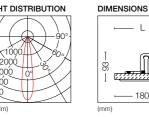


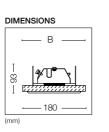
As a logical addition to the TRACK SPOT the RECESSED SPOT111 is the perfect downlight insert solution. It creates a discrete lighting architecture - even with low ceilings - and allows you to design the ceilings whichever way you like. The modular structure of this system has room for up to three spots. In this way you create an individual, friendly and balanced lighting atmosphere in shops, hotels and restaurants.

FEATURES

- Applicable lamp: E-CORE AR111
- Dimmable: No
- Protection rating: IP20
- Temperature range: 5 °C 35 °C







	DESCRIPTION	FINISH	CEILING CUTOUT (mm)	RATED VOLTAGE	FREQUENCY	BASE
FIXTURE						
LEDEUS00013C	Lamp Fitting (A)	White	-	— 230 - 240 V	50 Hz	G53
LEDEUS00014C	including SELV transformer	Silver	-	230 = 240 V	30 HZ	G55
LEDEUS00015C	Frame for 1 Lamp Fitting (B)	White	- 150 x 150	-	-	-
LEDEUS00016C	Frame for 1 Lamp Fitting (b)	Silver		-	-	-
LEDEUS00017C	Frame for 2 Lamp Fitting (C)	White	— 150 x 295	-	-	-
LEDEUS00018C	Frame for 2 Lamp Fitting (C)	Silver	— 150 X 295	-	-	-
LEDEUS00019C	Frame for 3 Lamp Fitting (D)	White	— 150 x 440	-	-	-
LEDEUS00020C	Frame for 3 Lamp Fitting (D)	Silver	— 150 X 440	-	-	-

AR111 lamp to be ordered separately (see pages 66/67)

Our new AR111 10,5W and AR111 14,5W offer a wide range of colour temperatures, beam angles and wattages.

Spotlights

NEOACCENT Tracklight



22/32 W - up to 2,600 lm warm or neutral white 3000 K/4000 K 40,000 hours life (L70) beam angle 15°/25°/35°

NEOACCENT Battery



22/32 W - up to 2,600 lm warm or neutral white 3000 K/4000 K 40,000 hours life (L70) beam angle 15°/25°/35°

NEOACCENT Extractable



22/32 W - up to 2,600 lm warm or neutral white 3000 K/4000 K 40,000 hours life (L70) beam angle 15°/25°/35°

E-CORE LED TRACKLIGHT 1200



21 W - up to 1,300 lm warm or neutral white 3000 K/4000 K 40,000 hours life (L70) beam angle 22°/40°

GIMBAL TRACK SPOT111



white/silver/black base G53

GIMBAL RECESSED SPOT111



lamp fitting frame for 1/2/3 lamp fitting white/silver











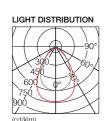


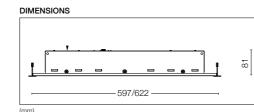




FEATURES Dimmable: Yes / DALI

- Electrical class: II
- Protection rating: IP20
- Power factor: > 0.9 • ENEC
- White or aluminium specular reflector surface
- DC capability: Yes





DIMENSIONS	
	<u>8</u>
mm)	

Energy efficiency on a completely new level - with

up to 122 lm/W the LED Baselight NEOGRID out-

ranges even modern fluorescent lamp technologies.

DALI controllable lumen packages of up to 3,650 lm

combined with excellent light quality and compliance

to the EN 12464 make this unobtrusive louvre lumi-

naire the perfect solution for today's office environ-

ments. All this is rounded off with a comprehensive

SYSTEM

CEILING MODULE

625 x 625 mm

600/625

MODULE

product line-up, offering optimized flexibility and

meeting various application requirements.

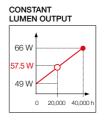
	28
597/622	

	REFLECTOR	COLOUR TEMPERATURE	UGR	GRID CEILINGS	LUMINOUS FLUX	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUR00004D30N	White		. 10	600 x 600 mm	• 3,100 lm	30 W	220 - 240 V	80	50,000 h
LEDEUR00005D30N	White	0000 K	≤ 19	625 x 625 mm	• 3,100 lm	30 W	220 - 240 V	80	50,000 h
LEDEUR00006D30N	Aluminium	- 3000 K	≤ 16	600 x 600 mm	• 3,370 lm	30 W	220 - 240 V	80	50,000 h
LEDEUR00007D30N	Aluminium	-	≤ 10	625 x 625 mm	• 3,370 lm	30 W	220 - 240 V	80	50,000 h
NEUTRAL WHITE									
LEDEUR00004D40N	White		- 10	600 x 600 mm	• 3,350 lm	30 W	220 - 240 V	80	50,000 h
LEDEUR00005D40N	White	— 4000 K	625 x 625 mm	• 3,350 lm	30 W	220 - 240 V	80	50,000 h	
LEDEUR00006D40N	Aluminium		600 x 600 mm	• 3,650 lm	30 W	220 - 240 V	80	50,000 h	
LEDEUR00007D40N	Aluminium	-	≤ 10	625 x 625 mm	• 3,650 lm	30 W	220 - 240 V	80	50,000 h



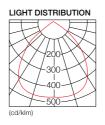
E-CORE LED BASELIGHT

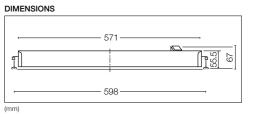
This standard ceiling grid light lives up to its name: absolutely constant and homogeneous general lighting for extensive office or sales areas. It provides a rich 2,700 lm with an average power consumption of 57.5 W. With a glare reduction and UGR value of 19 in all fields of application of conventional fluorescent lamps it offers a completely new light quality because its constant light flux control ensures uniform brightness for the entire operating duration. This creates contemporary working conditions.

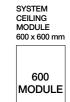


FEATURES

- Dimmable: No
- Protection rating: IP20
- Power factor: 0.95 Onstant lumen output: Yes







	FINISH	COLOUR TEMPERATURE	UGR	LUMINOUS FLUX	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE								
LEDEUR00001N30	White	3000 K	19	2,700 lm	49 - 66 W	220 - 240 V	80	40,000 h
NEUTRAL WHITE								
LEDEUR00001N40	White	4000 K	19	2,700 lm	49 - 66 W	220 - 240 V	80	40,000 h



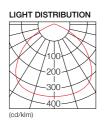




Along with its aerial design, this UGR 22 LED panel is extremely thin and emits homogeneously on its complete surface (3,400 lm / 4000 K / Ra 80). It can be recessed (in 600 mm grid ceiling) or suspended thanks to an elegant suspension kit (by separated ordering).

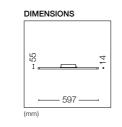
FEATURES

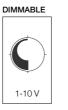
- Dimmable: Yes / 1-10 V
- Electrical class: II
- Protection rating: IP20
- Power factor: 0.9
 Temperature range: -5 °C +40 °C



DIMENSIONS

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	COLOUR TEMPERATURE	UGR	GRID CEILING	LUMINOUS FLUX	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
NEUTRAL WHITE								
LEDEUR00003A40	4000 K	≤ 22	597 x 597mm	3,400 lm	48 W	AC100 - 240 V	80	30,000 h
LEDEURX0001	Suspension kit (4 x 2 m)							

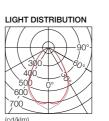


E-CORE LED DOWNLIGHT 1100/1600

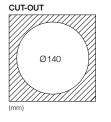
Uniform light levels – the suitable job description for this high-performance downlight for the retail sector. With its simple, minimalist shape and flush mounting, it integrates excellently with your design concept. And the replaceable Toshiba LIGHT ENGINE makes it a sustainable long-term investment, wherever it's used.

FEATURES

- Applicable lamp: E-CORE LED LIGHT ENGINE 2
- Dimmable: Yes / Trailing Edge phase control
- Electrical class: I
- Protection rating: IP20
- Power factor: > 0.7
- Temperature range: 5 °C 35 °C









	FINISH	COLOUR TEMPERATURE	UGR	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUD00049S30	White	2000 K	19	1 000 1	72°	10.11/	220 - 240 V	> 80	40,000 h
LEDEUD00062\$30	White	– 3000 K	16	— • 1,060 lm	36°	— 18 W	220 - 240 V	> 80	40,000 h
LEDEUD00050S30	White	0000 K	22	. 1 400 lm	72°	00.14/	220 - 240 V	> 80	40,000 h
LEDEUD00064S30	White	– 3000 K	19	19 • 1,480 lm		— 23 W	220 - 240 V	> 80	40,000 h
NEUTRAL WHITE									
LEDEUD00049S40	White	4000 K	19	— • 1.060 lm	72°	— 18 W	220 - 240 V	> 80	40,000 h
LEDEUD00062S40	White	- 4000 K –	16	— • 1,000 iiii	36°	— 10 VV	220 - 240 V	> 80	40,000 h
LEDEUD00050S40	White	4000 K	22	. 1 F00 l	72°	00.14/	220 - 240 V	> 80	40,000 h
LEDEUD00064S40	White	– 4000 K	19	— • 1,530 lm	37°	— 23 W	220 - 240 V	> 80	40,000 h

Exists also in black and silver. Please see our website or contact your representative for further information.







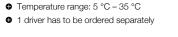
DIMMABLE

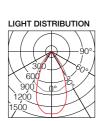




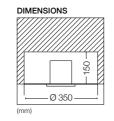
FEATURES

- Dimmable: Yes / DALI
- Electrical class: II
- Protection rating: IP20
- Power factor: > 0.9





DIMENSIONS



Event centers, conference rooms, cinemas - large

spaces with sophisticated lighting design set the

stage for this powerful downlight. Its compact

dimensions and DALI controllability make it a con-

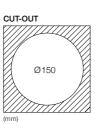
venient replacement for up to 2 x 32 W compact

fluorescent and 1 x 35 W HID systems. Furthermore,

a choice of different beam angles and UGR versions

offers great flexibility and enables the use in various application fields - always optimally fulfilling the

respective lighting task requirements.



	FINISH	COLOUR TEMPERATURE	UGR	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUD00028D30	White	2000 14	19	2,680 lm	50°	4C W/	220 - 240 V	80	50,000 h
LEDEUD00026D30	White	3000 K -	22	2,630 lm	73°	— 46 W	220 - 240 V	80	50,000 h
LEDEUD00029D30	White	0000 14	25	2,675 lm	55°	40.14	220 - 240 V	80	50,000 h
LEDEUD00128D30	White	– 3000 K	28	2,730 lm	78°	— 46 W	220 - 240 V	80	50,000 h
NEUTRAL WHITE									
LEDEUD00028D40	White	4000 1/	19	• 2,820 lm	50°	4C W/	220 - 240 V	80	50,000 h
LEDEUD00026D40	White	– 4000 K –	22	• 2,760 lm	73°	— 46 W	220 - 240 V	80	50,000 h
LEDEUD00029D40	White	2	25	2,815 lm	55°	40.144	220 - 240 V	80	50,000 h
LEDEUD00128D40	White	– 4000 K	28	2,870 lm	78°	— 46 W	220 - 240 V	80	50,000 h

Exists also in black and silver. Please contact your representative for further information.

Recessing diameter: 250mm, White: LEDEUDX0001, Black: LEDEUDX0003, Silver: LEDEUDX0005 Renewal plate

LEK-50001CA01O 50 W CC Driver (separately order)

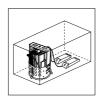






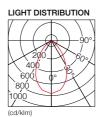


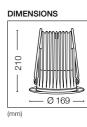


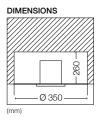


FEATURES

- Dimmable: Yes / DALI
- Electrical class: II
- Protection rating: IP20
- Power factor: > 0.9
- Temperature range: 5 °C 40 °C
- 2 drivers have to be ordered separately







Brilliant, controllable light even with high ceilings:

the DOWNLIGHT 6000 is the contemporary replace-

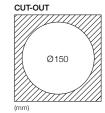
ment light for areas where 70 W HID were traditi-

onally used. High foyers, large auditoriums, open

staircases or shops – with up to 5800 lumen this

design for public and commercial buildings.

effective powerhouse covers all the bases in lighting



	FINISH	TEMPERATURE	UGR	LUMINOUS FLUX	ANGLE	WATTAGE	50/60 Hz	Ra (min)	(L70)
WARM WHITE									
LEDEUD00129D30	White	3000 K	28	5,650 lm	72°	92 W	220 - 240 V	80	50,000 h
NEUTRAL WHITE									
LEDEUD00129D40	White	4000 K	28	5,945 lm	72°	92 W	220 - 240 V	80	50,000 h
LEK-50001CA01O	50 W CC Driver (separately order, 2 drivers required)								





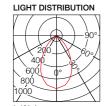


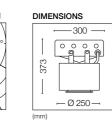
The basis of the DALI dimmable E-CORE LED BANKLIGHT is the E-CORE LED DOWNLIGHT 6000. Integrated into robust housing, simple surface mounting is possible. On account of its high light intensity and its long service life, the E-CORE LED

BANKLIGHT is good for lighting in shopping malls, theatres, industrial plants or entryways.

FEATURES

- Dimmable: Yes / DALI
- Electrical class: II
- Protection rating: IP20
- Power factor: > 0.95Temperature range: 0 °C 40 °C
- 2 drivers have to be ordered separately







	FINISH	COLOUR TEMPERATURE	UGR	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)		
WARM WHITE											
LEDEUD00130D30	White	3000 K	28	5,650 lm	72°	92 W	220 - 240 V	80	50,000 h		
NEUTRAL WHITE											
LEDEUD00130D40	White	4000 K	28	5,945 lm	72°	92 W	220 - 240 V	80	50,000 h		
LEDEUDX0007	Cylinder c	Cylinder case									
LEDEUDX0008	Surface-m	nounting frame									
LEK-50001CA01O	50 W CC	50 W CC Driver (separately order, 2 drivers required)									





Recessed luminaires and Downlights

NEOGRID



30 W - up to 3,650 lm warm or neutral white 3000 K/4000 K 50,000 hours life (L70)

warm or neutral white

40,000 hours life (L70)

3000 K/4000 K

E-CORE LED BASELIGHT



E-CORE LED PANEL



48 W - up to 3,400 lm neutral white 4000 K 30,000 hours life (L70)

E-CORE LED DOWNLIGHT 1100/1600



18/23 W - up to 1,530 lm warm or neutral white 3000 K/4000 K 40,000 hours life (L70) beam angle 36°/37°/72°

E-CORE LED DOWNLIGHT 3000



46 W - up to 2,870 lm warm or neutral white 3000 K/4000 K 50,000 hours life (L70) beam angle 50°/55°/73°/78°

E-CORE LED DOWNLIGHT 6000



92 W - up to 5,945 lm warm or neutral white 3000 K/4000 K 50,000 hours life (L70) beam angle 72°

E-CORE LED BANKLIGHT



92 W - up to 5,945 lm warm or neutral white 3000 K/4000 K 50,000 hours life (L70) beam angle 65°/72°





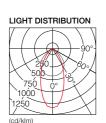


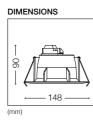


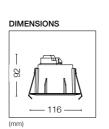
FEATURES

● Applicable lamp: E-CORE GX53-1 2

- Dimmable: No
- Electrical class: I
- Protection rating: IP20
- Power factor: 0.55
- Temperature range: 5 °C 35 °C







Small, efficient, simple – the all new PACK omni mini 2

opens up great opportunities for design integration

and the easy step to efficiency, light quality and flexi-

bility. Featuring the next generation of GX53-1 lamps,

this compact downlight now appears in minimalistic

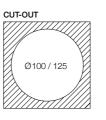
dimensions, still with fixed and adjustable versions.

The PACK omni mini 2 can replace up to 1 x 18 W

conventional downlights and offers a replaceable

light source - making it the easy and future-proof

choice for energy saving in many applications.



	COMPLETE WITH LAMP	FINISH	CEILING CUT-OUT	ADJUS- TABLE	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE											
LEDEUD00152S27	Yes	White	100 mm	No		• 420 lm	100°	5.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00156S27	Yes	White	100 mm	No	- - 2700 K -	• 580 lm	100°	8.3 W	220 - 240 V	> 80	40,000 h
LEDEUD00153S27	Yes	White	125 mm	Yes		• 480 lm	40°	5.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00157S27	Yes	White	125 mm	Yes		• 660 lm	40°	8.3 W	220 - 240 V	> 80	40,000 h
NEUTRAL WHITE											
LEDEUD00156S40	Yes	White	100 mm	No	4000 K	• 620 lm	100°	8.3 W	220 - 240 V	> 80	40,000 h
LEDEUD00143C	No	White	100 mm								
LEDELIDO0144C	No	White	125 mm	Fixture only - Order lamp separately (see page 77)							



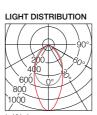
Specifications and design may change without further notice.

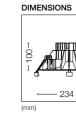


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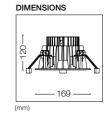
FEATURES

- Applicable lamp: E-CORE LED LIGHT ENGINE 2
- Dimmable: No / DALI controllable types on demand
- Electrical class: I
- Protection rating: IP20
- Power factor: 0.9
- Temperature range: 5 °C 35 °C





(on demand).



The classic downlight, reinvented. With its unobtru-

sive white housing, wide beam angles and powerful

luminous flux, the PACK omni 2 is a suitable replace-

ment for compact fluorescent lamps up to 2 x 26 W

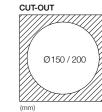
and a good allrounder in all secondary areas of

buildings. What's new: the redesigned PACK omni 2

comes in two sizes and incorporates the next gene-

ration of the Toshiba LED LIGHT ENGINE - a light

source that can be replaced in an instant and now offers 2,200 lm and DALI controllable versions



	COMPLETE WITH LAMP	FINISH	CEILING CUT-OUT	UGR	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE											
LEDEUD00145S30	Yes	White		≤ 22		980 lm	45°	12.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00147S30	Yes	White	150 mm	≤ 22	-	1,420 lm	45°	17.5 W	220 - 240 V	> 80	40,000 h
LEDEUD00149S30	Yes	White	•	≤ 22	- - 3000 K	1,960 lm	45°	24.0 W	220 - 240 V	> 80	40,000 h
LEDEUD00165S30	Yes	White		≤ 22	3000 K	980 lm	45°	12.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00167S30	Yes	White	200 mm	≤ 22	-	1,420 lm	45°	17.5 W	220 - 240 V	> 80	40,000 h
LEDEUD00169S30	Yes	White		≤ 25		1,960 lm	45°	24.0 W	220 - 240 V	> 80	40,000 h
NEUTRAL WHITE											
LEDEUD00146S40	Yes	White	_	≤ 22	_	1,020 lm	85°	12.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00148S40	Yes	White	150 mm	≤ 22		1,490 lm	85°	17.5 W	220 - 240 V	> 80	40,000 h
LEDEUD00150S40	Yes	White	-	≤ 22	- 4000 K	2,050 lm	85°	24.0 W	220 - 240 V	> 80	40,000 h
LEDEUD00166S40	Yes	White	_	≤ 22	4000 K	1,020 lm	85°	12.7 W	220 - 240 V	> 80	40,000 h
LEDEUD00168S40	Yes	White	200 mm	≤ 22		1,490 lm	85°	17.5 W	220 - 240 V	> 80	40,000 h
LEDEUD00170S40	Yes	White		≤ 25		2,050 lm	85°	24.0 W	220 - 240 V	> 80	40,000 h
LEDEUD00141C	No	White	150 mm	- Non dim	fixtura anhy arda	r lamp caparat	alv (aga pa	ac 90)			
LEDEUD00161C	No	White	200 mm) mm Non-dim fixture only – order lamp separately (see page 80)							
LEDEUD00142C	No	White	150 mm	DALLEGA	ura anhi ardar lan	an aanaratah.	nogo (24)			
LEDEUD00162C	No	White	200 mm	DALI fixture only – order lamp separately (see page 81)							

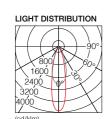


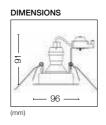
PACK accent 3

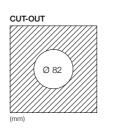
This miniaturized downlight range features the latest TOSHIBA PAR16 lamps and offers great flexibility for an attractive accent lighting in various application fields. Where in the past halogen lamps up to 50 W have been widely used, now this simple but highly efficient 5.4 W LED solution makes an appropriate alternative - convincing through brilliance, precise beam angles, excellent light quality and a very long lifetime of 40,000 h. The lighting head can be swiveled by 30°, allowing to target the light where it is needed, different beam angles and housing colours round off the portfolio.

FEATURES

- Applicable lamp: E-CORE PAR16
- Dimmable: Yes / Phase control
- Electrical class: II
- Protection rating: IP20 Power factor: 0.64
- ◆ Temperature range: 5 °C 40 °C









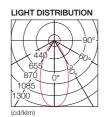
	FINISH	COLOUR TEMPERATURE	LAMP LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE								
LEDEUD00135S30	White		• 355 lm		5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00136S30	Silver	3000 K	• 355 lm	- 40°	5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00137S30	Black		• 355 lm	_	5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00138S30	White		• 355 lm		5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00139S30	Silver	3000 K	• 355 lm	25°	5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00140S30	Black		• 355 lm	_	5.4 W	220 - 240 V	> 80	40,000 h
LEDEUD00132C	White							
LEDEUD00133C	Silver	Fixture only - Orde	r lamp separately (see p	page 61)				
LEDEUD00134C	Black							

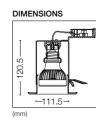


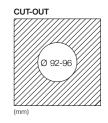
a low luminance easy-to-fit solution, for decorative and architectural lighting. Equipped with an E-CORE retrofit PAR20 lamp (9 W), this spot light greatly reduces investment risk tackling demand for flexibility in the lighting design field. With the benefits of LED lighting, the PACK accent PAR20 offers a reliable lighting solution along with low-carbon footprint and minimum environmental impact.

FEATURES

- Applicable lamp: E-CORE PAR20
- Dimmable: Yes / Phase control
- Electrical class: II
- Protection rating: IP20
- Power factor: 0.8
- Temperature range: 5 °C 35 °C









	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE								
LEDEUD00015S27	White		359 lm	40°	9 W	220 - 240 V	> 80	40,000 h
LEDEUD00016S27	Black	2700 K	278 lm	40°	9 W	220 - 240 V	> 80	40,000 h
LEDEUD00017\$27	Silver		322 lm	40°	9 W	220 - 240 V	> 80	40,000 h
NEUTRAL WHITE								
LEDEUD00015S40	White		369 lm	40°	9 W	220 - 240 V	> 80	40,000 h
LEDEUD00016S40	Black	4000 K	285 lm	40°	9 W	220 - 240 V	> 80	40,000 h
LEDEUD00017S40	Silver		332 lm	40°	9 W	220 - 240 V	> 80	40,000 h







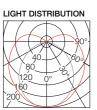


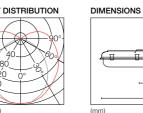


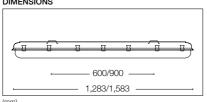
The name says it all: designed to IP65, this robust diffuser luminaire is the ideal lighting solution for all areas with particular climatic or functional requirements. It is a replacement for T8 Lamp installations in warehouses, underground car parks, cold stores and other similar situations.

FEATURES

- Applicable lamp: E-CORE LED TUBE GX16t-5
- Dimmable: No (DALI dimmable on request)
- Electrical class: I
- Protection rating: IP65
- Power factor: > 0.9



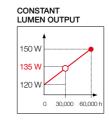




DIMENSIONS	
50	
(mm)	

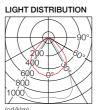
	COVER	COLOUR TEMPERATURE	LUMINOUS FLUX	GLOW WIRE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
NEUTRAL WHITE								
LEDEUP00003S40	DO		2,760 lm	− 850 °C	32 W	220 - 240 V	80	40,000 h
LEDEUP00005S40	——— PC	– 4000 K	3,320 lm	- 850 °C	40 W	220 - 240 V	80	40,000 h
LEDEUP00007S40	— PMMA	— 4000 K	2,930 lm	050 %0	32 W	220 - 240 V	80	40,000 h
LEDEUP00009S40	PIVIIVIA		3,550 lm	− 650 °C	40 W	220 - 240 V	80	40,000 h

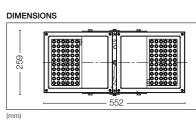




FEATURES

- Dimmable: No
- Electrical class: I
- Protection rating: IP65 • Power factor: 0.95
- Temperature range: -20 °C +35 °C
- Constant lumen output (can be disabled if required)





and long life time is a must.

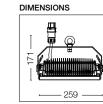
Extremely robust, absolutely homogeneous and very efficient - the E-CORE LED HIGHBAY 12000 stands

for up-to-date industrial lighting. With a luminous flux

of ~11,000 lm, good light quality and UGR 20 and

UGR 26 this tough luminaire is ideal for illuminating

different functional areas. The E-CORE LED HIGHBAY is a suspended fixture for any use where robustness



	COLOUR TEMPERATURE	LUMINOUS FLUX	UGR	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
NEUTRAL WHITE								
LEDEUJ00005l50	5000 K	• 10,700 lm	≤ 26	90°	– 150 W	220 - 240 V	70	60,000 h
LEDEUJ00006l50	5000 K	• 10,650 lm	≤ 20	60°	- 150 W	220 - 240 V	70	60,000 h



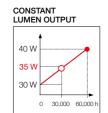








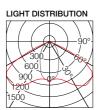
Night-time lighting of buildings and other structures is a standard element of urban spatial design. This pivoting facade spotlight is the suitable tool for the job. Unbreakable, long-lasting and with an impressively uniform light output, it makes modern architectural lighting a reality. In figures, this represents 3,000 lumen at a power consumption of just 35 W and a nominal service life of 60,000 hours.



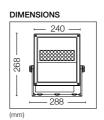
ASIHROT

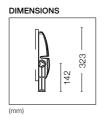
FEATURES

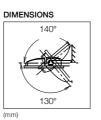
- Dimmable: No
- Electrical class: II
- Protection rating: IP65
- Power factor: 0.9 ● Temperature range: -20 °C - +35 °C
- Constant lumen output (can be disabled if required)
- ENEC











	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	IK	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUF00019I30			2,015 lm	Narrow - 11°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00020I30	— C:h	0000 K	1,860 lm	Middle - 25°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00021I30	- Silver	3000 K	1,845 lm	Wide - 43°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00022I30	_	_	1,775 lm	Asym - 58° x 127°	07	30 - 40 W	220 - 240 V	80	60,000 h
NEUTRAL WHITE									
LEDEUF00019I40			2,015 lm	Narrow - 11°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00020I40	_	4000 K	1,860 lm	Middle - 25°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00021I40	_	4000 K	1,845 lm	Wide - 43°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00022I40	– – Silver		1,775 lm	Asym - 58° x 127°	07	30 - 40 W	220 - 240 V	80	60,000 h
LEDEUF00019I50	- Sliver		2,880 lm	Narrow - 11°	07	30 - 40 W	220 - 240 V	70	60,000 h
LEDEUF00020I50	_	5000 K	2,655 lm	Middle - 25°	07	30 - 40 W	220 - 240 V	70	60,000 h
LEDEUF00021I50	_	N 000C	2,640 lm	Wide - 43°	07	30 - 40 W	220 - 240 V	70	60,000 h
LEDEUF00022I50	_		2,540 lm	Asym - 58° x 127°	07	30 - 40 W	220 - 240 V	70	60,000 h



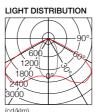
The swivelling architecture light called the E-CORE

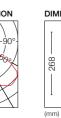
LED FLOODLIGHT 5500 ensures impressive, bright and thus very cost-effective lighting. You enjoy tremendous flexibility with your light design thanks to the finely graduated light intensities, three different Kelvin ranges and various beam angles. Furthermore, the constant luminous flux control over the entire operational life offers unvarying brightness.

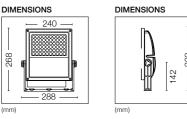
CONSTANT LUMEN OUTPUT

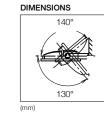
FEATURES

- Dimmable: No
- Electrical class: II
- Protection rating: IP65
- Power factor: 0.9
- Temperature range: -20 °C +35 °C
- Constant lumen output (can be disabled if required)
- ENEC









	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	IK	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)
WARM WHITE									
LEDEUF00023I30			4,035 lm	Narrow - 11°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00024l30	- Silver	3000 K	3,720 lm	Middle - 25°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00025l30	Sliver	3000 K	3,695 lm	Wide - 43°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00026l30	_		3,555 lm	Asym - 58° x 127°	07	57 - 75 W	220 - 240 V	80	60,000 h
NEUTRAL WHITE									
LEDEUF00023I40			4,035 lm	Narrow - 11°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00024I40	_	4000 K	3,720 lm	Middle - 25°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00025I40		4000 K	3,695 lm	Wide - 43°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00026I40	- Silver		3,555 lm	Asym - 58° x 127°	07	57 - 75 W	220 - 240 V	80	60,000 h
LEDEUF00023I50	Silvei		5,760 lm	Narrow - 11°	07	57 - 75 W	220 - 240 V	70	60,000 h
LEDEUF00024l50	_	5000 K	5,315 lm	Middle - 25°	07	57 - 75 W	220 - 240 V	70	60,000 h
LEDEUF00025l50		3000 K	5,280 lm	Wide - 43°	07	57 - 75 W	220 - 240 V	70	60,000 h
LEDEUF00026l50			5,080 lm	Asym - 58° x 127°	07	57 - 75 W	220 - 240 V	70	60,000 h





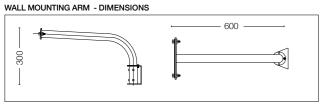


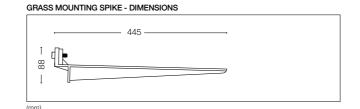




Accessories for E-CORE LED FLOODLIGHT 3000/5500

These practical accessories are the perfect complement to the LED Floodlight 3000 and 5500 models. The ground spike is designed for securing the LED Floodlight to the ground, and provides a secure and stable support for all applications close to the ground. The wall-mounting boom is the ideal solution for securing the LED Floodlight to facades or buildings. With this boom, the LED Floodlight can easily be offset from walls at a 60 cm distance, providing perfect illumination. Both accessories are available in white or silver.





	FINISH	DESCRIPTION
WARM WHITE		
LEDEUFX0004	White	Cyaco Mounting Caille
LEDEUFX0005	Silver	— Grass Mounting Spike
LEDEUFX0002	White	Mall mounting Arm
LEDEUFX0003	Silver	Wall mounting Arm

BEAM ANGLE



This road light complies with the EN 13201 standard

and combines every technological and design advantage to create low-cost, low-maintenance lighting for the 21st century road network. The weather-proof design, eye-friendly soft-start function and constant lumen output control, plus 10 kV overload protection, combine to enable an exemplary 60,000 hour service life. Outstanding performance which quickly eclipses conventional 250 W systems.

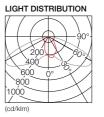
150 W 125 W 98 W 0 30,000 60,0

Dimmable: Yes / step dimming: 50%

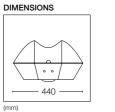
• Electrical class: II

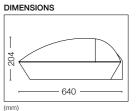
FEATURES

- Protection rating: IP65
- Power factor: 0.92
- ◆ Temperature range: -30 °C +45 °C
- Lighting complies with EN 13201
- Constant lumen outputTop or side mounted
- ENEC



CONSTANT LUMEN OUTPUT





DIMMABLE
100·50·100 STEP- DIMMING

	FINISH	COLOUR TEMPERATURE	LUMINOUS FLUX	IK	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	DIMMABL (%)
CLASS II / NEUTRAL WHITE									
LEDEUW00003L50	Silver	5000 K	9,000 lm	07	98 - 150 W	220 - 240 V	70	60,000 h	100 / 50





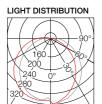


LED OUTDOOR BULKHEAD

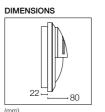
The perfect solution for building vicinity lighting or pathway marking. The luminaire can be mounted in a range of positions, both as a surface installation and a recessed installation. Thanks to a selection of colours, it can also be successfully adapted to the surroundings. Its highly robust construction and durable LED technology, which doesn't require a separate operating device, guarantee long-term product satisfaction.

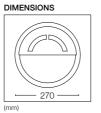
FEATURES

- Dimmable: No
- Electrical class: I Protection rating: IP54
- Power factor: 1 or > 0.9
- Temperature range: -20 °C +35 °C
- Build-in or semi-recessed









COLOUR VOLTAGE 50/60 Hz LUMINOUS FINISH TEMPERATURE WATTAGE Ra (min) LIFESPAN (L70) COOL WHITE LEDEUB00001N63 50,000 h 186 lm 12 W 220 - 240 V > 65 White LEDEUB00004N63 120 lm 12 W 220 - 240 V > 65 50,000 h LEDEUB00002N63 186 lm 12 W 220 - 240 V > 65 50,000 h Graphite metalic LEDEUB00005N63 120 lm 12 W 220 - 240 V > 65 50,000 h LEDEUB00003N63 186 lm 12 W 220 - 240 V > 65 50,000 h Silver metalic LEDEUB00006N63 120 lm 220 - 240 V 50,000 h

OUTDOOR

E-CORE LED FLOODLIGHT 3000



30-40W - up to 2,880 lm warm or neutral white 3000 K/4000 K/5000 K 60,000 hours life (L70) beam angle 11°/25°/43°/58° x127°

E-CORE LED FLOODLIGHT 5500



57-75 W - up to 5,760 lm warm or neutral white 3000 K/4000 K/5000 K 60,000 hours life (L70) beam angle 11°/25°/43°/58° x127°

E-CORE LED ROADLIGHT



98-150 W - up to 9,000 lm neutral white 5000 K 60,000 hours life (L70)

LED OUTDOOR BULKHEAD



12 W - up to 186 lm cool white 6300 K 50,000 hours life (L70) white / graphite metalic / silver metalic





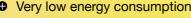
Lamps

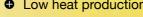
LED - lighting for all moods

It is time to change because conventional incandescent lamps are a thing of the past. With the modern E-CORE LED lamps from Toshiba, you can create the atmosphere you want in the private and commercial sector - indoors and outdoors.

- Very low energy consumption
- Extremely long life
- Low heat production

With all the advantages that LED lamps offer you:







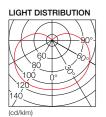


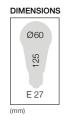




E-CORE GLS WIDE 13W

With 1,060 lumen, Toshiba's design classic is way ahead from an aesthetic and performance perspective. As a lamp with an intense beam of the retrofit segment, it is the substitute for all fields of application of 75 W bulbs. Its broad reflected beam angle makes it the ideal light source even for large rooms – in brief: powerful, elegant and unbeatably efficient.





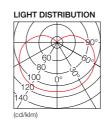


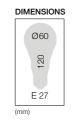


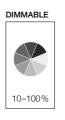
	COLOUR TEMPERATURE	LUMINOUS FLUX	DIMMABLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE									
LDAEU004C2710D	2700 K	1,060 lm	Yes	13 W	220 - 240 V	80	25,000 h	E27	A+

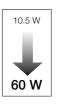


The new version of the popular archetype offers light in a familiar shape. However, this is the perfect product to replace the very popular 60 W incandescent bulb. With 806 lm, a warm color temperature and a good dimming capability this lamp offers the most comfortable ambience at your place.









	COLOUR TEMPERATURE	LUMINOUS FLUX	DIMMABLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE									
LDAEU003C2710D	2700 K	806 lm	Yes	10.5 W	220 - 240 V	80	25,000 h	E27	A+

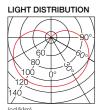




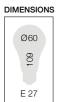




Less is more. A real light source whose design combines efficiency with classically styling. However, its revolutionary inner workings marry minimal technology and the maximum angle of radiation perfectly. A light that can be seen.





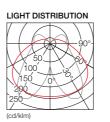


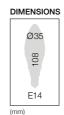




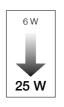
	COLOUR TEMPERATURE	LUMINOUS FLUX	DIMMABLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE									
LDAEU007C2710D	2700 K	470 lm	Yes	7 W	220 - 240 V	> 80	25,000 h	E27	A+
NEUTRAL WHITE									
LDAEU007C4010D	4000 K	500 lm	Yes	7 W	220 - 240 V	> 80	25,000 h	E27	A+











	COLOUR TEMPERATURE	LUMINOUS FLUX	FINISH	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	DISTRI- BUTION	BASE	ENERGY LABEL
WARM WHITE										
LDCC0627CE4EUD2	2700 K	260 lm	clear	6 W	220 - 240 V	> 80	20,000 h	260°	E14	Α
LDCC0627FE4EUD	2700 K	250 lm	frosted	6 W	220 - 240 V	> 80	20,000 h	-	E14	Α





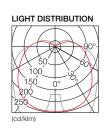
With its facetted crystal optics, this candle is a real

head-turner. With exceptional light distribution and

smooth dimming, this light is the magic every

chandelier needs.









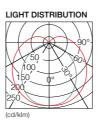


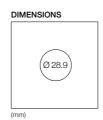


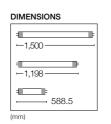
	COLOUR TEMPERATURE	LUMINOUS FLUX	FINISH	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE									
LDGC0627CE4EUD	— 2700 K	250 lm	clear	- 6W	220 - 240 V	> 80	20.000 h	E14	٨
LDGC0627FE4EUD	- 2700 K	250 1111	frosted	— 6 vv	220 - 240 V	> 00	20,000 11	⊏14	А



The LED TUBE lets you perfectly light up large rooms and offices. It will ensure bright light and a low consumption of energy. It is available either in neutral white or cold white, in 800 to 2,300 lm.







	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	SIZE (mm)	ENERGY LABEL
NEUTRAL WHITE									
LDLEU005D4072		800 lm	170°	9 W	100 - 240 V	> 80	30,000 h	588.5	A+
LDLEU005D4074	4000 K	1,600 lm	170°	18 W	100 - 240 V	> 80	30,000 h	1,198	A+
LDLEU005D4075		2,100 lm	170°	23 W	100 - 240 V	> 80	30,000 h	1,500	A+
COOL WHITE									
LDLEU005D6572		900 lm	170°	9 W	100 - 240 V	> 80	30,000 h	588.5	A+
LDLEU005D6574	6500 K	1,700 lm	170°	18 W	100 - 240 V	> 80	30,000 h	1,198	A+
LDLEU005D6575		2,300 lm	170°	23 W	100 - 240 V	> 80	30,000 h	1,500	A+





This concerns all of us:

Energy efficient lighting solutions

It is time to upgrade

All over the world, solutions are being sought for efficient use of energy. One key area is lighting. In Europe, its share in total energy consumption is about 14%.

Already back in 2008, Toshiba announced the cessation of the production of conventional incandescent lamps because their energy efficiency is too low - they only reach efficiency classes D, E, F and G.

And in 2010, Toshiba actually ceased manufacturing incandescent lamps worldwide.

Since then, we have replaced incandescent lamps with modern LED lamps in almost all areas of lighting. Their low energy consumption and optimal light quality and excellent design make the transition so simple.

No matter where you need light, there is an energy-and cost-saving solution using Toshiba LED lamps and luminaires. Check for yourself, because this is the only way we can achieve the ambitious goals of energy reduction.

So simply take advantage of LED

Save on the cost of electricity - with our LED lamps and luminaires, this can be up to 85%.

Your investment will pay for itself sooner than you think. Modern LED lighting solutions offer a very long operating life. They pay for themselves over a very short period of time.

You also avoid the heat of conventional incandescent lamps. And, depending on the number of incandescent lamps used, this reduces the need for additional cooling.

And, you reduce unnecessary CO2 pollution of our

Thus, we are in a position to do something ourselves - for ourselves and for the environment.

Let's enter our world!

Did you know?

What are Lumens?

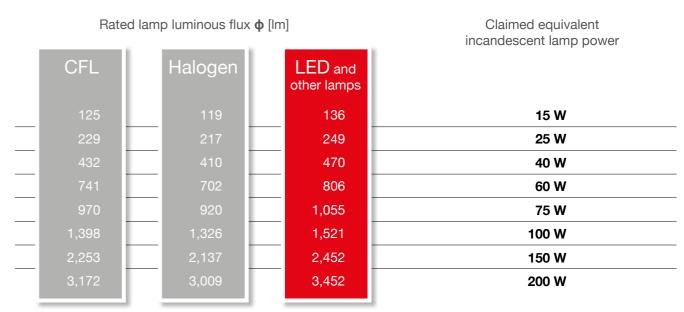
Lumen (or Luminous flux) is the standard measure for the mount of light emitted by a light source.

Unlike light intensity (Candela), Lumens is a measure of the amount of light rather than its intensity.

How do I compare incandescent lamp using Lumens?

Using the table below you can see the Lumen values to be reached by LED Lamps and their incandescent equivalent (for non-directional lamp, as defined by EC244/2009).

Equivalence ratings for non-directional lamps (EC244/2009)



Watts vs Lumens - Which should I use?

Lumens are the new way to measure and compare the light output from a lamp. Wattage is a measure of power consumed not light delivered. As lights are designed to emit light, the correct measurement is Lumen.

With LEDs it is not necessarily the wattage that tells you if it is more powerful than another LED lamp. Two LED lamps with the same wattage could have different Lumen values. To adequately compare the two lamps it is best compare Lumen output.

LED offers a true alternative to incandescent lamps and the drawbacks of other existing technologies.

LED lamps last longer, are more efficient, can be dimmed, and switch on instantly.





Reflector Lamps

The freedom to set the tone

Lighting offers so many possibilities for the illumination of spaces, scenes and objects. With the rich variety of our reflector lamps, you can set the tone you want.

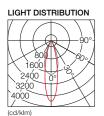
Whether as a ceiling or wall spotlight - Toshiba reflector lamps are available with various beam angles at the desired lighting levels and with plug-in or bayonet plugs. Just as you please.

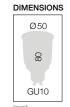




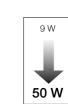
E-CORE PAR16 9W

These elegant mains voltage spotlights with robust GU10 base shine with their excellent energy-saving credentials and ease of use. Suitable for a multitude of uses, they can be dimmed to offer atmospheric lighting or daylight-brightness accents – even at considerable distance. That is in brief the best-inclass lumen and light quality in the GU10 world.



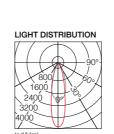


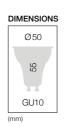




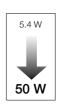
	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC0927MU1EUD2	2700 K	E00 lm	25°	• 1,900 cd	- 9 W	220 - 240 V	> 80	40.000 h	GU10	^
LDRC0927WU1EUD2	2700 K	520 lm	40°	• 950 cd	- 9 VV	220 - 240 V	> 00	40,000 11	GUIU	А
LDRC0930MU1EUD2	– 3000 K	550 lm	25°	• 2,000 cd	- 9 W	220 - 240 V	> 80	80 40.000 h	GU10	^
LDRC0930WU1EUD2	- 3000 K	000 1111	40°	• 1,000 cd	- 9 W	220 - 240 V	> 00	40,000 11	GUIU	А
NEUTRAL WHITE										
LDRC0940MU1EUD2	4000 K	580 lm -	25°	• 2,000 cd	0.144	220 - 240 V	. 00	40,000 b	CLITO	Δ.
LDRC0940WU1EUD2	– 4000 K		40°	• 1,000 cd	- 9 W		> 80	40,000 h	GU10	A+











	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC0527MU1EUD	– 2700 K	355 lm	25°	• 1,320 cd	E 434/	220 - 240 V	80	40 000 h	OLITO	Λ.
LDRC0527WU1EUD	- 2700 K	355 1111	40°	• 640 cd	- 5.4 W	220 - 240 V	80	40,000 h	GU10	A+
LDRC0530MU1EUD	0000 K	055 1	25°	• 1,320 cd	- A \ \ \	220 - 240 V	80	40,000 h	OLITO	Λ.
LDRC0530WU1EUD	– 3000 K	355 lm	40°	• 640 cd	- 5.4 W	220 - 240 V	00	40,000 h	GU10	A+
NEUTRAL WHITE										
LDRC0540MU1EUD	4000.14	0701	25°	• 1,420 cd	5 4 M	000 04014		40.0001	01140	
LDRC0540WU1EUD	– 4000 K	370 lm	40°	• 680 cd	- 5.4 W	220 - 240 V	80	40,000 h	GU10	A+





among LED GU10 lamps. Designed to replace 50 W

halogen lamp, this lamp offers nearly 90% of energy savings. On top of that, the lamp has a 40,000 hour

lifespan and is dimmable which converts it into a

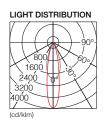
model of sustainability. Available in different color

kinds of applications.

temperatures and two beam angles, it will fit into all



The E-CORE PAR16 3,5W offers 90% of energy savings. As it reaches 250 lm, this is the perfect product to replace 35 W GU10 halogen lamp. Its compact size, long lifespan and wide range will ensure to meet the requirements of your relamping projects.



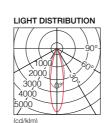


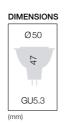


	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC0427MU1EU2	2700 K	000 lm	25°	• 900 cd		220-240 V	80	40.000 h	GU10	A+
LDRC0427WU1EU2	2700 K	230 lm	40°	• 450 cd	– – 3.5 W		00	40,000 11	GUIU	A+
LDRC0430MU1EU2	3000 K	230 lm	25°	• 900 cd	- 3.5 W	220 240 1/	00	40,000 h	GU10	A+
LDRC0430WU1EU2	3000 K		40°	• 450 cd	_	220-240 V	80		GUIU	A+
NEUTRAL WHITE										
LDRC0440MU1EU2	4000 K	250 lm	25°	• 960 cd	- 3.5 W	220-240 V	80	40.000 h	GU10	A++
LDRC0440WU1EU2	4000 K	200 1111	40°	• 480 cd	3.5 W	220-240 V	00	40,00011	G010	ATT



light output with the same number of watts.





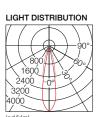


	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRA0727MU5EU	2700 K	000 l	25°	• 1,830 cd		12 V	. 00	40,000 h	OLIE 0	^
LDRA0727WU5EU	2700 K	360 lm	35°	• 1,050 cd	– – 7 W	12 V	> 80	40,000 h	GU5.3	А
LDRA0730MU5EU	0000 K	360 lm	25°	• 1,830 cd	7 VV	10.1/	. 00	40.000 h	GU5.3	^
LDRA0730WU5EU	3000 K		35°	• 1,050 cd	_	12 V	> 80	40,000 n		А
NEUTRAL WHITE										
LDRA0740MU5EU	4000 K	380 lm	25°	• 1,930 cd	- 7 W	12 V	> 80	40.000 h	GU5.3	Α
LDRA0740WU5EU	4000 K	300 1111	35°	• 1,150 cd	- / VV	1 ∠ V	> 00	40,000 11	GU5.3	A







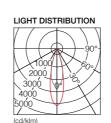


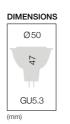




LUMINOUS FLUX COLOUR TEMPERATURE BEAM ANGLE LUMINOUS INTENSITY VOLTAGE 50/60 Hz Ra (min) ENERGY LABEL LIFESPAN WATTAGE BASE WARM WHITE LDRA0527MU5EU3 • 1,200 cd - 2700 K 12 V 40,000 h GU5.3 A LDRA0527WU5EU3 • 650 cd - 5.2 W LDRA0530MU5EU3 25° • 1,250 cd 3000 K 290 lm 12 V > 80 40,000 h GU5.3 A LDRA0530WU5EU3 35° • 700 cd NEUTRAL WHITE LDRA0540MU5EU3 • 1,250 cd 4000 K 40,000 h GU5.3 A 300 lm 5.2 W LDRA0540WU5EU3 • 700 cd









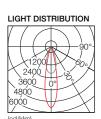
	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRA0527MU5EU2	- 2700 K	220 lm	25°	• 920 cd		12 V	> 80	25.000 h	GU5.3	Δ.
LDRA0527WU5EU2	- 2700 K	220 1111	35°	• 550 cd	4 W	12 V	> 00	25,000 11	G05.3	A+
LDRA0530MU5EU2	- 3000 K	230 lm	25°	• 950 cd	4 VV	12 V	> 80	25,000 h	GU5.3	A+
LDRA0530WU5EU2	- 3000 K	230 1111	35°	• 600 cd		12 V	> 00	25,000 11	G05.3	A+
NEUTRAL WHITE										
LDRA0540MU5EU2	- 4000 K	260 lm	25°	• 1,050 cd	4 W	12 V	> 80	25,000 h	GU5.3	A+
LDRA0540WU5EU2	4000 IX	200 1111	35°	• 650 cd	→ vv	1	/ 00	20,00011	G05.5	ΛT







The AR111 pin-base lamps are in a class of their own in the low-voltage sector: pure luminosity for downlights, gimbal and catenary lights. Their potential for savings is also as eye catching as it is impressive.



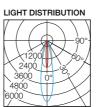


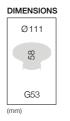


COLOUR TEMPERATURE LUMINOUS FLUX LUMINOUS INTENSITY WATTAGE VOLTAGE 50/60 Hz ENERGY BASE LABEL BEAM ANGLE LIFESPAN WARM WHITE LDREU001A27MA0 • 600 lm 24° 3,400 cd - 2700 K G53 A 40,000 h LDREU001A27WA0 • 600 lm 40° 1,200 cd LDREU001A30MA0 24° • 640 lm 3,600 cd 3000 K 40,000 h G53 A LDREU001A30WA0 • 640 lm 40° 1,300 cd NEUTRAL WHITE LDREU001A40MA0 • 690 lm 3,800 cd 4000 K 40,000 h G53 A 10.5 W LDREU001A40WA0 • 690 lm 1,300 cd



Thanks to the light quality, the light intensity and the beam angle variety, this range is the ideal solution to replace AR111 halogen lamps. It will convert any space into the most appealing one.







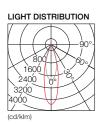
	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDREU002A27NA0		• 810 lm	8°	16,000 cd						
LDREU002A27MA0	2700 K	• 810 lm	24°	4,500 cd	_	12 V	80	40,000 h	G53	Α
LDREU002A27WA0		• 810 lm	40°	1,600 cd	- - 14.5 W					
LDREU002A30NA0	_	• 860 lm	8°	16,700 cd	- 14.5 VV					
LDREU002A30MA0	3000 K	• 860 lm	24°	4,700 cd		12 V	80	40,000 h	G53	Α
LDREU002A30WA0		• 860 lm	40°	1,700 cd						
NEUTRAL WHITE										
LDREU002A40NA0	_	• 920 lm	8°	17,900 cd						
LDREU002A40MA0	4000 K	• 920 lm	24°	5,000 cd	14.5 W	12 V	80	40,000 h	G53	Α
LDREU002A40WA0		• 920 lm	40°	1,800 cd						







If you need even more light, then you can choose the E-CORE PAR38 18,8W. With 980 lm, its wide range of colour temperatures and a service life of up to 40,000 hours makes it a true all-rounder.





E27







	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC1627ME7EUD2	2700 K	950 lm	25°	• 3,200 cd	- 18.8 W	220 - 240 V	> 80	40.000 h	E27	Α
LDRC1627WE7EUD2	2700 K	950 1111	35°	• 1,650 cd	- 10.0 VV	220 - 240 V	> 00	40,000 11	E21	А
LDRC1630ME7EUD2	3000 K	000 lm	25°	• 3,300 cd	- 18.8 W	220 - 240 V	> 80	40.000 h	E27	Α
LDRC1630WE7EUD2	3000 K	980 lm	35°	• 1,700 cd	- 18.8 VV	220 - 240 V	> 80	40,000 n	E21	А
NEUTRAL WHITE										
LDRC1640ME7EUD2	4000 K	980 lm	25°	• 3,300 cd	- 18.8 W	220 - 240 V	> 80	40.000 h	E27	Α
LDRC1640WE7EUD2	4000 K	900 1111	35°	• 1,700 cd	- 10.0 VV	220 - 240 V	> 00	40,000 11	E21	A
COOL WHITE										
LDRC1665ME7EUD2	6500 K	980 lm	25°	• 3,300 cd	— 18.8 W	3 W 220 - 240 V	> 80	40.000 h	E27	۸
LDRC1665WE7EUD2	0000 K		35°	• 1,700 cd			> 00	40,000 11	E21	Α



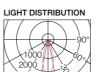
It can be used in almost all areas: Since you will

receive the E-CORE PAR30 14W in warm white,

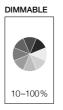
neutral white and cold white. It can be dimmed

and equipped with an E27 screw base to work

as a high-voltage reflector lamp.









	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC1327ME7EUD	07001/	770 les	23°	• 3,400 cd	- 14 W	000 040 1/	. 00	40,000 h	F07	^
LDRC1327WE7EUD	- 2700 K	770 lm	32°	• 1,500 cd	- 14 VV	220 - 240 V	> 80	40,000 h	E27	Α
LDRC1330ME7EUD	0000 14	700 l	23°	• 3,400 cd	4.4.14	000 040 1/	. 00	40,000 h	F07	^
LDRC1330WE7EUD	- 3000 K	780 lm	32°	• 1,600 cd	- 14 W	220 - 240 V	> 80	40,000 h	E27	Α
NEUTRAL WHITE										
LDRC1340ME7EUD	4000 K	780 lm	23°	• 3,400 cd	14.10/	000 040 1/	. 00	40,000 h	E27	^
LDRC1340WE7EUD	- 4000 K	780 IIII	32°	• 1,600 cd	- 14 VV	220 - 240 V	> 80	40,000 h	E27	Α
COOL WHITE										
LDRC1365ME7EUD	- 6500 K	780 lm	23°	• 3,400 cd	14.\\/	220 240 1/	. GE	40,000 b	F07	^
LDRC1365WE7EUD	- 0000 K	780 IIII	32°	• 1,600 cd	- 14 W	220 - 240 V	> 00	40,000 h	E27	Α

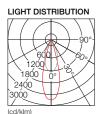


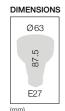




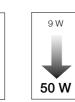
E-CORE PAR20 9W

The E-CORE PAR range's performance class, beam distribution characteristics and light quality leave no lighting wish unanswered. With its high efficiency, it provides the suitable way in to contemporary room lighting.









	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	LUMINOUS INTENSITY	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	ENERGY LABEL
WARM WHITE										
LDRC0927ME7EUD LDRC0927WE7EUD	2700 K	370 lm	25° 40°	• 950 cd • 450 cd	- 9 W	220 - 240 V	> 80	40,000 h	E27	Α
NEUTRAL WHITE										
LDRC0940WE7EUD	4000 K	380 lm	40°	• 460 cd	9 W	220 - 240 V	> 80	40,000 h	E27	Α

Commission Regulation EU No 1194/2012 has arrived

The new Ecodesign Directive

Europe is taking another step on the road to an energy-efficient future. With this purpose in mind, the EU issued the ErP Directive 2009/125/EC for energy-related products in 2009.

The Directive also outlines the changeover from non-directional lighting such as light bulbs for private use to energy-saving alternatives.

Commission Regulation EU No 1194/2012 has been in force since September 1st 2013.

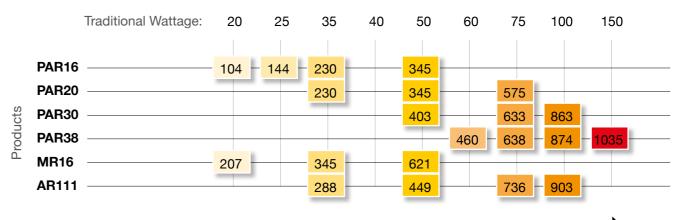
This Directive introduces new regulations for lamps with directional light and comes along with a new one for lamp packaging (EU/874/2012). The focus of the ErP Directive is our environment and the best way to look after it.

It is up to all of us to live up to this ambitious objective, which is why the EU is giving this responsibility to both consumers and manufacturers.

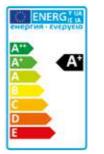
With its lamps, Toshiba is offering a range of products that is 100% ErP-compliant. All our products already hold the "greenest" energy efficiency ratings, A, A+ or A++.

Even though the consumer will have to get used to working with different units - lumens instead of Watts - the new Directive will make a considerable contribution to the ecological protection of our environment. We are pleased to be making this journey with you.

Equivalence table for directional lamps



Rated lamp luminous flux φ [lm]



The new energy efficiency label, in force since September 1st 2013, introduces the two new energy efficiency ratings A+ and A++. The older, lower classes F and G have been discontinued.













and production sites.

Toshiba leads the field when it comes to environmental protection. So it is no surprise that the new E-CORE LED TUBE GX16t-5 impress through top performance and are competitively priced.

It's the ideal time for a switch-over – don't you think?

Every feature of the E-CORE LED TUBE GX16t-5 represents a good investment:

- Their 40,000-hour lifespan is double that of conventional fluorescent lamps.
- An external LED driver ensures especially high performance.
- The modules can be easily integrated into your existing lighting system.
- They impress thanks to an approximately 1.7 x greater lumen output than conventional LED lamps with integrated drivers.

professionals.

The E-CORE LED TUBE GX16t-5 are more than just a competitively priced entry-level model. Their output and optimal performance are just as impressive as other innovative LED concepts from Toshiba. And because their fittings are identical to those of conventional fluorescent lamps, using them is particularly easy.

Do you wish to present your sales area in an impressive way? This is also easily achieved with the E-CORE LED TUBE GX16t-5, because they are available in all lengths and a great variety of colours.

The choice is yours! Choose modern LED technology that is durable, highly efficient, and that features full luminance immediately after being switched on.



External LED driver

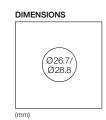


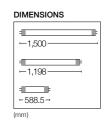




The E-CORE LED TUBE GX16t-5 is the perfect linear module to upgrade the linear fluorescent fixtures to LED. This module has been designed for manufacturers willing to implement LED technology at an affordable cost. Available in all lengths and many colour temperatures of traditional linear lamps, it enables to keep the same fixture bodies and makes the switch to LED very easy. As it works with a separated Toshiba driver, the light flux can be dimmed and it prevents from many disadvantages of other solutions like heat management or over load risks.







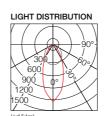
	COLOUR TEMPERATURE	LUMINOUS FLUX	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	DIAMETER (mm)	SIZE (mm)	ENERGY LABEL
WARM WHITE									
LDL82D1530X1EU	3000 K	1,550 lm	14.5 W	45 - 190 V	83	40,000 h	26.7	588.5	A+
LDL84D2830X1EU	3000 K	3,100 lm	28 W	45 - 190 V	83	40,000 h	26.7	1,198	A+
LDL95D3630X1EU	3000 K	3,800 lm	36 W	90 - 190 V	83	40,000 h	28.8	1,500	A+
NEUTRAL WHITE									
LDL82D1540X1EU	4000 K	1,650 lm	14.5 W	45 - 190 V	83	40,000 h	26.7	588.5	A+
LDL84D2840X1EU	4000 K	3,300 lm	28 W	45 - 190 V	83	40,000 h	26.7	1,198	A+
LDL95D3640X1EU	4000 K	4,000 lm	36 W	90 - 190 V	83	40,000 h	28.8	1,500	A+
COOL WHITE									
LDL84D2865X1EU	6500 K	3,350 lm	28 W	45 - 190 V	83	40,000 h	26.7	1,198	A+
LDL95D3665X1EU	6500 K	4,000 lm	36 W	90 - 190 V	83	40,000 h	28.8	1,500	A+

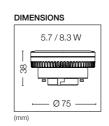
Working on seperated driver: LEK-3301CA02, LEK-3301CA02D, LEK-330S02CA02, LEK-330S02CA02D Please see connection details at www.toshiba.eu/lighting





NEW!





	COLOUR TEMPERATURE	LUMINOUS FLUX	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE
WARM WHITE								
LDFEU009C27M50D	2700 K	• 510 lm	40°	— 5.7 W	220 - 240 V	80	40,000 h	GX53-1
LDFEU009C27W50D	2700 K	• 510 lm	100°	— 5.7 VV	220 - 240 V	80	40,000 h	GX53-1
LDFEU010C27M50D	2700 K	• 700 lm	40°	0.0.11/	220 - 240 V	80	40,000 h	GX53-1
LDFEU010C27W50D	2700 K	• 700 lm	100°	— 8.3 W	220 - 240 V	80	40,000 h	GX53-1
NEUTRAL WHITE								
LDFEU009C40M50D	4000 K	• 550 lm	40°	— 5.7 W	220 - 240 V	80	40,000 h	GX53-1
LDFEU009C40W50D	4000 K	• 550 lm	100°	— 5.7 VV	220 - 240 V	80	40,000 h	GX53-1
LDFEU010C40M50D	4000 K	• 750 lm	40°	0.0.11/	220 - 240 V	80	40,000 h	GX53-1
LDFEU010C40W50D	4000 K	• 750 lm	100°	— 8.3 W	220 - 240 V	80	40,000 h	GX53-1



light output. Use this module with GX53-1 socket in

your creations and get an economical and sustain-

able light source.

A revolutionary new LED light source designed around the LED to maximise performance and efficiency

LED LIGHT ENGINE enables you to make choices with your lighting, and change your mind later.

This interchange ability allows you to extend the possibilities of your lit space and easily change the look and feel of the room depending on what you are lighting.

LIGHT ENGINE is a lamp in the traditional sense of the word.

- You don't need to attach a driver.
- You don't need to add optical controls.

Concept

LIGHT ENGINE from Toshiba has been designed as an evolution to conventional lighting to maximise the potential of LED and provide long life, high efficiency, instant light and higher luminous flux.

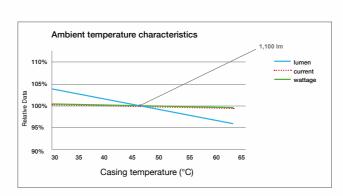
LIGHT ENGINE is a new generation of replaceable light sources, using LED. Just as you would replace your fluorescent tube, the LIGHT ENGINE too can be replaced or exchanged. This means that you do not have to replace the entire luminaire should the LED fail but simply untwist the old lamp and replace it.



Design for Life and Efficiency

Without effective thermal management, LEDs will not operate well and could fail prematurely or operate inefficiently. The LIGHT ENGINE has been designed to take all that worry off your shoulders.

With its 40 mm cross-sectional silicon heat pad, the LIGHT ENGINE ensures that all the heat generated is driven directly to the heatsink, away from the LED chip.



Note: The values above is the relation of Tc and engines's specifications where the product is turned on the following conditions:

- · the input voltage is 230 V
- · base-up positioned

LIGHT ENGINE uses a special connector that presses the LIGHT ENGINE's silicon heat pad down with exact pressure to the heatsink to ensure a good thermal connection with no air gaps.

LIGHT ENGINE offers 40,000 hours of life (L70), that's up to 4 times longer than CFL, dramatically reducing maintenance costs.

Delivering 91 Im/W, the LIGHT ENGINE offers high light output without draining your wallet. Combined with its dimming capabilities, the LIGHT ENGINE is the perfect choice for efficient, flexible, low energy lighting.

Reduce Investment Risk

TOSHIBA LED LIGHT ENGINE is a future-proof solution. Indeed through this engine, we created a new standardized socket: GH76p-5. Thus, the LED engine becomes a lamp allowing end-users to upgrade their luminaires with the latest technology.



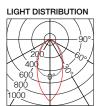




E-CORE LED LIGHT ENGINE 2

The unusual LED LIGHT ENGINE 2 from Toshiba offers creative users unlimited opportunities for a large number of lighting solutions. Depending on the application, you have a choice between different beam angles and luminous fluxes. The LIGHT ENGINE 2 is easy and safe to assemble.

Specifications and design may change without further notice.





-Ø90 -

DIMENSIONS

DIMENSIONS

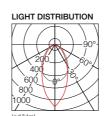
LUMINOUS USEFUL FLUX OUTPUT COLOUR BEAM ANGLE WATTAGE **VOLTAGE** LIFESPAN TEMPERATURE FLUX WARM WHITE LEV112313M830E 220 - 240 V • 1,020 lm • 765 lm 50° 40,000 h GH76p-5 > 80 LEV112313W830E • 1,020 lm • 690 lm 80° 220 - 240 V > 80 40,000 h GH76p-5 LEV162318M830E • 1.480 lm • 1.110 lm 50° GH76p-5 220 - 240 V > 80 40.000 h LEV162318W830E • 1,480 lm • 965 lm 80° 220 - 240 V 40,000 h GH76p-5 > 80 LEV222324M830E • 2,040 lm • 1,465 lm 50° 220 - 240 V > 80 40,000 h GH76p-5 LEV222324W830E 220 - 240 V 40,000 h GH76p-5 NEUTRAL WHITE LEV112313M840E • 1,100 lm • 825 lm 40,000 h GH76p-5 LEV112313W840E • 1,100 lm • 745 lm GH76p-5 80° 220 - 240 V > 80 40.000 h LEV162318M840E • 1,600 lm • 1,200 lm 220 - 240 V 40,000 h GH76p-5 > 80 4000 K LEV162318W840E • 1,600 lm • 1.045 lm 80° GH76p-5 220 - 240 V > 80 40.000 h LEV222324M840E • 2,200 lm • 1,580 lm GH76p-5 220 - 240 V > 80 40,000 h LEV222324W840E • 2,200 lm • 1,390 lm 220 - 240 V 40,000 h GH76p-5

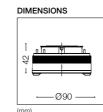


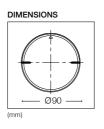


E-CORE LED LIGHT ENGINE DALI

The LED LIGHT ENGINE from Toshiba is the perfect module to development LED downlight systems and to adapt them to all the application requirements thanks to the wide range and the DALI dimming capability.







ı	DIMMABLE							
	DALI							

	COLOUR TEMPERATURE	LUMINOUS FLUX	USEFUL OUTPUT	BEAM ANGLE	WATTAGE	VOLTAGE 50/60 Hz	Ra (min)	LIFESPAN (L70)	BASE	DIMM- ABLE
WARM WHITE										
LEV112313M830ME		• 1,020 lm	• 765 lm	50°	- 12.9 W	220 - 240 V	> 80	40,000 h	GH76p-5	- - - 0 / 5- - 100% -
LEV112313W830ME		• 1,020 lm	• 690 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	
LEV162318M830ME		• 1,480 lm	• 1,110 lm	50°	- 17.8 W	220 - 240 V	> 80	40,000 h	GH76p-5	
LEV162318W830ME		• 1,480 lm	• 965 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	
LEV222324M830ME		• 2,040 lm	• 1,465 lm	50°	- 24.2 W	220 - 240 V	> 80	40,000 h	GH76p-5	
LEV222324W830ME		• 2,040 lm	• 1,285 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	
NEUTRAL WHITE										
LEV112313M840ME		• 1,100 lm	• 825 lm	50°	- 12.9 W	220 - 240 V	> 80	40,000 h	GH76p-5	- - 0/5- 100%
LEV112313W840ME		• 1,100 lm	• 745 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	
LEV162318M840ME	– 4000 K –	• 1,600 lm	• 1,200 lm	50°	17.8 W	220 - 240 V	> 80	40,000 h	GH76p-5	
LEV162318W840ME		• 1,600 lm	• 1,045 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	
LEV222324M840ME		• 2,200 lm	• 1,580 lm	50°	- 24.2 W	220 - 240 V	> 80	40,000 h	GH76p-5	
LEV222324W840ME		• 2,200 lm	• 1,390 lm	80°		220 - 240 V	> 80	40,000 h	GH76p-5	

DC capability: Yes

Specifications and design may change without further notice.



GLOSSARY

GLOSSARY

DIMMABILITY

Dimming of lights



DIMMABLE LED lights can be dimmed without sacrificing light quality. This is the main difference from lights fitted with fluorescent or high-pressure discharge lamps. Dimming also saves more energy. There are different types of dimming.

DALI DIMMABLE



Luminaires are controlled by the digital DALI (Digital Addressable Lighting Interface). This standard, adopted by all manufacturers, overcomes the disadvantages of the 1 - 10 V principle and is being used increasingly, particularly in more complex installations. DALI offers a two-wire line that is protected against

polarity reversal, with noise-resistant digital signal transmission, direct addressability, compact instruction set, error feedback and defined brightness values which are independent of line length. DALI is also supported by building and light management systems.

1 - 10 V



Luminaires can be dimmed via the 1 – 10 V interface. A voltage level between 1 V and 10 V is converted into corresponding lamp brightness.

Step dimming

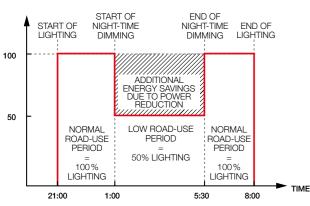
DIMMABLE



Streetlights have a facility for step dimming via a second, dry-contact circuit. When the second supply is switched to the lamp, the luminous flux and power consumption are reduced to approx. 50%. This provides a very simple way of reducing the light level at night, enabling further energy savings

at times when road usage is low.

POWER CONSUMPTION % EXAMPLE: STEP DIMMABLE E-CORE LED ROADLIGHT CONTROLLED BY TIMER



Phase control

Phase control widely used for incandescent and halogen lamps dimming this analogic control method apply also to LED lamps. Because there is no general compatibility between all dimmers available on the market, Toshiba has provided a list of recommended dimmers on its website www.toshiba.eu/lighting.

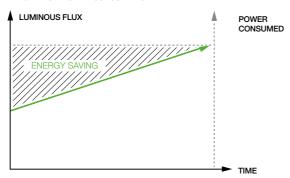
CONSTANT I UMFN OUTPUT

Constant luminous flux over the life of the lamp

The drop in luminous flux due to the LED technology over the service life of the system is compensated by increasing the power input. This results in constant and uniform photometric performance differentiating strongly TOSHIBA products from standard LED systems whose lumen output drastically drops over

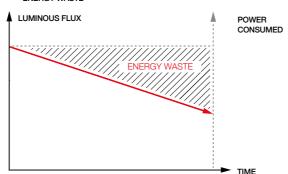
WITH CONSTANT LUMEN OUTPUT

=> STABLE PHOTOMETRIC PERFORMANCE OPTIMUM POWER CONSUMPTION



WITHOUT CONSTANT LUMEN OUTPUT

=> DECREASING PHOTOMETRIC PERFORMANCE ENERGY WASTE



Basic Photometric Units

There are several photometric base quantities in the definition of light sources, which characterise different qualities

LUMINOUS FLUX (Phi/lm)

Luminous flux ϕ in Im (Lumen)



The total radiating power emitted by a light source, which the eye perceives as

LUMINOUS INTENSITY (I/cd)

Luminous intensity I in cd (candela)

The luminous flux of a light source per solid angle. With the same luminous flux, the light intensity increases the more the light source focuses the light.

II I UMINANCE (E/Ix)



Illuminance E in Ix (Lux)

A measure of lighting power per lit surface. A minimum luminance is specified for many visual tasks and must be considered in the planning of the visual task and choice of light source.

Colour Rendering Index Ra

Colour Rendering Index (CRI) is a measure of how well a light source is able to accurately reproduce colours of objects being lit respective to the colour temperature (CCT) of the light source. The higher the colour rendering index, the more naturally the colours of an object are reproduced and therefore perceived by the observer. The sun has the highest CRI of 100. Most artificial light source are below that. The colour rendering index is determined using 8 standardised test colour references.

Dimmability by trailing edge phase control



DIMMABLE Luminaires can be dimmed very easily using trailing edge phase control. The advantage of trailing edge phase control compared with circuits in which the voltage is controlled by a resistance is that they have a very low power loss and are widely used in existing installations. The main disadvantage of trailing edge

phase control is the non-sinusoidal current profile. Because current and voltage do not have the same shape, so-called distortion reactive power occurs. Shifting the current backwards compared with the voltage curve has the same effect as an inductive load, which electricity supply companies can only tolerate at low power levels. Leading edge phase control is not recommended for Toshiba lamps. Because there is no general compatibility between all dimmers available on the market, Toshiba has provided a list of recommended dimmers on its website www.toshiba.eu/lighting.

Colour temperature (K Kelvin)

Colour temperature is a measure of the colour effect of a light source. Colour temperature is defined as the temperature of a black body which belongs to a particular light colour of this emission source.

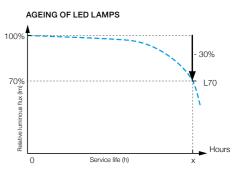
Typical colour temperatures for light sources are:

- below 3300 K = warm white, preferred for interior lighting
- 3300 K to 5300 K = neutral white, typical light colour for office, industrial and exterior lighting
- above 5300 K = cool white, especially common in exterior liahtina.

L70 service life of LED light sources

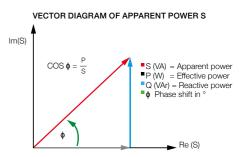
LEDs are characterised by their excellent service life. Because LEDs hardly ever fail completely, the service life is defined as having an L70 value. Their useful life is considered to be over when the luminous flux has dropped to 70% of the initial luminous flux. After this time the LEDs age at a dramatically accelerated rate.

The service life of an LED light source is not set by the LEDs alone, the other electrical components and the thermal design are also a factor. Therefore the given service life varies from product to product.



Power factor $\lambda = \cos \Phi$

The LED light sources need driver modules to operate which act capacitively from an electrical point of view. This leads to a phase shift between voltage and current consumption and consequently the apparent power S (given in Volt Amperes VA) has an effective power proportion P (Watts) and a reactive power Q (Volt Ampere reactive VAr). The relationship between effective power P and apparent power S is represented as the power factor λ .







www.toshiba.eu/lighting







This catalogue also for your tablet (iOS / Android)

Specifications and design as of April 2014. Specifications and design may change without further notice.



