THE NEW LIGHTING INNOVATION

E-CORE™ LED Lighting

UK PRODUCT CATALOGUE 2012

Edition 1


Reflector Lamps


Decorative Lamps


LED Light Engines


Indoor Lighting


Outoor Lighting

TOSHIBA eco style

TOSHIBA

Leading Innovation

TOSHIBA LED LIGHTING
LIGHT FROM THE START

Light for the world

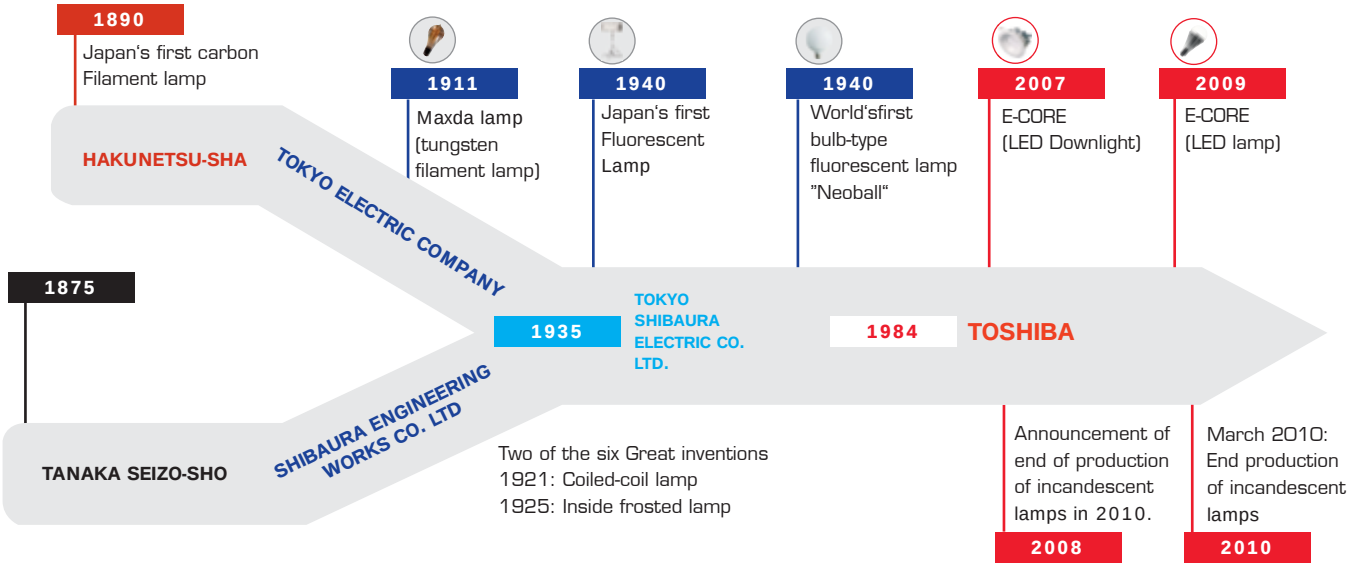
Today the availability of electric light is something we largely take for granted – but there has long been a new goal at the centre of future-thinking: bringing our technologies into line with sustainability requirements. Toshiba was very quick to set itself this target and lead the way by instigating the discontinuation of incandescent light bulb production. However, this did not mean Fujioka's dream had come to an end in any shape or fashion. This is because Toshiba's lighting engineers were able to develop an entirely new dimension to lighting through intelligent incorporation of innovative semi-conductor technology: resource saving, top quality components and providing exemplary efficiency. In brief: Toshiba E-Core LED. Lighting today for tomorrow.

Light for people

When Ichisuke Fujioka, the founder of what is now the Toshiba Corporation, met inventor Thomas Edison in 1884, many of his contemporaries were literally in the dark. But that was about to change significantly. This is because the meeting inspired Fujioka to realise his dream: in 1890 he founded the first factory for electric light bulbs in Japan and from then on brought light into the lives of those around him. A few years later, a company merger set the foundations for the technological expertise Toshiba is synonymous with today. Proof of this is born out by the sheer number of lighting innovations that have been decisive in pushing the development of lighting forward. These are the outcomes of a desire to innovate with which Toshiba has made its name worldwide for 120 years.

HISTORY OF TOSHIBA'S LIGHTING BUSINESS

OVER 120 YEARS



E-CORE LED Lighting

E-CORE LED LIGHTING
THE LIGHTING REVOLUTION

Harmonious light colours

Extremely low power consumption

No UV or IR radiation

No forward heat in beam

Lead and Mercury-free

Extremely long lifetime

Instant high quality light

Very high colour uniformity

Dimmable*

E-CORE – much more than just LEDs

E-Core's light quality is unique. This is because in addition to boasting sector-best figures for light characteristics, E-Core lighting also excels in comparison to conventional LED solutions.

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

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LED Lighting Solutions for sustainability

More ecologically responsible

- Contains no mercury
- Generate less heat and Infra-Red
- No ultraviolet rays
- Comply with the latest RoHS regs
- Reduce WEEE waste

TAKE CONTROL OF YOUR ENVIRONMENTAL IMPACT

Reducing CO_2 emissions

- Reducing carbon emissions is essential to fighting climate change
- Lighting accounts for almost 20% of all energy consumed
- LED Lighting can help considerably reduce CO_2

TAKE CONTROL OF YOUR CARBON FOOTPRINT

No maintenance required

- LED lamps can last up to 40'000 hours
- LED luminaires can last up to 60'000 hours
- That's around 10 years with no maintenance required*
- Significantly reduce maintenance costs and lamp replacement expenses

TAKE CONTROL OF YOUR MAINTENANCE COSTS

Consume 80% less energy

- Energy costs are soaring, LED lighting can help reduce electricity consumption by up to 80% and save you money on your bills
- Reduce heat generated by lighting = cut down on air-conditioning costs

TAKE CONTROL OF YOUR ELECTRICITY BILLS

Redefining lighting design

- Revolutionise the way lighting designers imagine the next generation of homes, work and public spaces
- Available in wide ranges of shapes, sizes and formats for maximum flexibility

TAKE CONTROL OF YOUR DESIGN

Stronger and safer

- Toshiba applies a layer of acrylic protection to all its lamps, greatly reducing risk of breakage and shattered glass
- Toshiba lighting products are designed for maximum resitance to shock and vibrations to stand the test of time

TAKE CONTROL OF YOUR QUALITY AND SAFETY

E-CORE LED Lighting

* based on 4'000 burning hours per year

Case Studies - Delivering LED Solutions

Bluewater Shopping Centre (London, UK)

Bluewater Shopping Centre wanted to bring their lighting into the 21st century and use the most innovative technologies to drive down their carbon footprint and reduce their electricity expenditure.

The old lighting inside Bluewater featured combinations of mostly highly inefficient Halogen combined with some Compact Fluorescent downlights and CDM downlights. With frequent lamp replacements and high energy usage, one thousand of Bluewater‘s luminaires were converted to using Toshiba‘s E-CORE 2000 26W LED downlights.

Owed to good service and great quality products, Toshiba delivered a new LED lighting range which has helped Bluewater Shopping Centre to reduce its electricity bills by over £76‘000 a year and dramatically reduce their lighting maintenance costs.

The Louvre Museum (Paris, France)

For this prestige project Toshiba Corporation has had to develop a bespoke range of outdoor lighting products to meet the very stringent high colour rendering, specific colour temperature and exceptional colour uniformity needed.

Many in the industry said it could not be done but Toshiba, using all the expertise accumulated in its 120 years as a top quality lighting manufacturer, found the solution.

The new LED lighting solutions uses the very latest in efficient lighting technology to deliver a true lighting spectacle, making this leading light in the cultutral world a strong innovator and honouring its environmental responsability to reduce energy usage and carbon footprint. The renovation has meant the end of 4‘500 energy sapping xenon lighting and has been replaced with 3‘500 LED luminaires, reducing energy conumption by 73% from 393‘000 KWh to 105‘000 KWh.

Stokers Furniture Stores (Southport, UK)

Family-run furniture store Stokers has begun installing Toshiba LED PAR38 lamps across its 11 stores in the UK.

Since replacing 640 PAR38 100W incandescent lamps with Toshiba LED PAR38 19.7W, Stokers Fine Furniture store in Southport has already recorded savings of more than £1‘000 per month through energy savings.

Stokers are so happy with the product and the savings, they have decided to roll the scheme out nationally. This will give Stokers the potential to save £132‘000 per year from its energy bills and reduce its maintenance costs owed to the 40‘000 hours life and low energy of Toshiba‘s LED PAR38 lamps.

Hair Associates (Kingston-upon-Thames, UK)

Hair Associated in Kingston-upon-Thams, Surrey have converted the lighting in their salon from halogen to LED using Toshiba‘s E-CORE GU10 lamps.

Reducing their electricity consumption and reducing their lamp replacement costs was top priority to Hair Associates to achieve reductions in running costs and carbon footprint.

With around 1000 halogen downlights in the salon, huge amounts of energy were being wasted. The E-CORE GU10 lamps from Toshiba provided a long lasting solution (25‘000 hours) and reduced their electricity consumption from 50W per lamp to 6.5W (80% reduction).

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Toshiba is a member of

LIGHTING INDUSTRY ASSOCIATION

EUROPEAN LAMP COMPANIES FEDERATION

Zhaga

Toshiba is a member of the international consortium known as Zhaga. The group has been formed to define platforms of standardisation of interfaces for LED.

www.zhagastandard.org

Did you know?

TOSHIBA
Leading Innovation >>>

World's Fastest Lift

Toshiba manufactured and installed the world's fastest lift in the Taipei 101 skyscraper.

The lift can travel up to 1010m per minute.

Smallest Hard Drive

Toshiba holds the Guiness World record for the smallest hard drive ever made.

Announced in 2004, the hard drive measured 0.85 inches and designed for use in mobile phones and portable HDD.

First glasses-free 3D TV

In 2010 Toshiba announced the world's first glasses-free 3D TV.

E-CORE LED Lighting

TOSHIBA E-CORE LED RETROFIT LAMPS

Great Look. Cutting Edge Technology. Bring your lighting into the 21st century.

Replace existing light bulbs with Toshiba E-CORE and start taking control over your electricity and maintenance costs today!

Low energy LED will help reduce your electricty bills... all you have to do is take out the old one and simply screw in the new one and you‘re there!

Featuring GLS shapes, candle and ball shapes as well as LightEngine and with many forth coming products, Toshiba has the product to upgrade your existing lighting to the most efficient and long lasting solution.

GLS Classic

GLS
Wide Angle

Candle & Ball

LightEngine™

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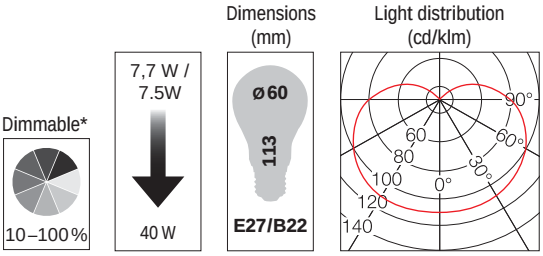
LED LIGHTING – GLS RETROFIT LAMPS

GLS Wide Angle - A new take on a classic

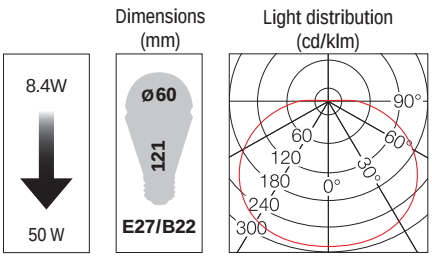
The new version of the popular archetype offers light in a familiar shape. However, its revolutionary inner workings marry minimal technology and the maximum angle of radiation perfectly.



Warm white	Colour temperature	Luminous Flux	Dimma-ble	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDAC0827WE7EU	2,700 K	470 lm	No	7.7W	220 – 240 V	> 80	25,000 h	E27
LDAC0827WB2EU								B22
LDAC0827WE7EUD			Yes	7.5W				E27
Cool white								
LDAC0840WE7EU	4,000 K	470 lm	No	7.7W	220 - 240 V	> 80	25,000 h	E27
LDAC0840WB2EU								B22
LDAC0840WB2EUD			Yes	7.5W				E27

8.4W Classic GLS - Pure luminosity

A small light generator in a robust cover. Further properties include excellent efficiency and admirable eco-friendly credentials.



Warm white	Colour temperature	Luminous flux	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDAC0827E7EU	2,700 K	600 lm	8.4 W	220 – 240 V	> 80	25,000 h	E27
LDAC0827B2EU							B22
Cool white							
LDAC0840E7EU	4,000 K	650 lm	8.4 W	220 - 240 V	> 80	25,000 h	E27
LDAC0840B2EU							B22

E-CORE LED Lighting

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

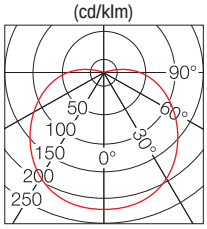
All wattage equivalences are based on the equivalence tables in regulation 244/2009

THE E-CORE RETROFIT GLS RANGE

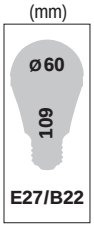
7W GLS Classic - Universal in use

This veritable all-rounder is flexible, long-lasting and robust: a good solution for a wide range of uses.

Light distribution (cd/klm)



Dimensions (mm)

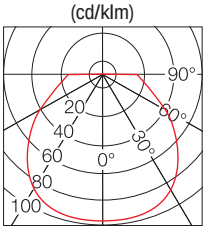


Warm white	Colour temperature	Luminous flux	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDAC0727E7EU	2,700 K	325 lm	7.0 W	220 – 240 V	> 80	25,000 h	E27
LDAC0727B2EU							B22
Cool white							
LDAC0740E7EU	4,000 K	340 lm	7.0 W	220 - 240V	> 80	25,000 h	E27
LDAC0740B2EU							B22

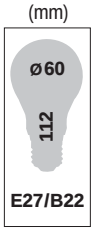
5.5 / 6W GLS Classic - Visibly elegant

Less is more. A real light source whose design combines efficiency with classically streamlined styling. A light that can be seen – and also dimmed as you wish!

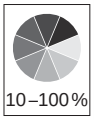
Light distribution (cd/klm)



Dimensions (mm)



Dimmable*



Warm white	Colour temperature	Luminous flux	Dimma-ble	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDAC0627E7EU	2,700 K	325 lm	No	5.5 W	220 – 240 V	> 80	40,000 h	E27
LDAC0627E7EUD			Yes	6.0 W				E27
LDAC0627B2EU			No	5.5 W	220 – 240 V	> 80	40,000 h	B22
LDAC0627B2EUD			Yes	6.0 W				B22
Cool white								
LDAC0640E7EU	4,000 K	325 lm	No	5.5 W	220 – 240 V	> 80	40,000 h	E27
LDAC0640E7EUD			Yes	6.0 W				E27
LDAC0640B2EU			No	5.5 W	220 – 240 V	> 80	40,000 h	B22
LDAC0640B2EUD			Yes	6.0 W				B22

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

All wattage equivalences are based on the equivalence tables in regulation 244/2009

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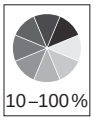
E-Core optics for more brilliance

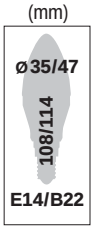
6W Candle Shape - Simply brilliant

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.

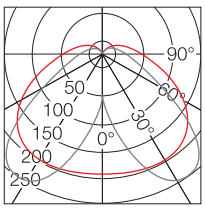
Dimmable*



Dimensions (mm)



Light distribution (cd/klm)



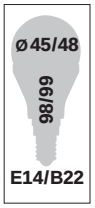
Warm white	Colour temperature	Luminous flux	Finish	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan/ L70	Base
LDCC0627FE4EUD	2,700 K	250 lm	• frosted	6 W	220 – 240 V	> 80	20,000 h	E14
LDCC0627CE4EUD			• clear					
LDCC0627FB2EUD	2,700 K	250 lm	• frosted	6 W	220 – 240 V	> 80	20,000 h	B22
LDCC0627CB2EUD			• clear					

6W Ball Shape - In a nutshell

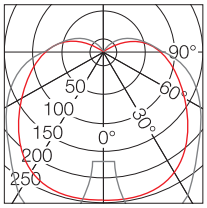
This is what the master of directed accent lighting looks like: dimmable and compact in size, the ideal light source for ambient lighting.

Dimmable*

Dimensions (mm)



Light distribution (cd/klm)



Warm white	Colour temperature	Luminous flux	Finish	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan/ L70	Base
LDGC0627FE4EUD	2,700 K	250 lm	• frosted	6 W	220 – 240 V	> 80	20,000 h	E14
LDGC0627CE4EUD			• clear					
LDGC0627FB2EUD	2,700 K	250 lm	• frosted	6 W	220 – 240 V	> 80	20,000 h	B22
LDGC0627CB2EUD			• clear					

E-CORE LED Lighting

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

All wattage equivalences are based on the equivalence tables in regulation 244/2009

Did you know?

What are Lumens?

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

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

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 Lumens.

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 to compare Lumen output.

How do I compare incandescent lamp using Lumens?

Using the table below you can see the Lumen values of typical products against the equivalent incandescent lamp.

LED lamps must achieve at least 10% more than the lamp they replace.

Most Halogen Eco and CFL Products fail to meet the Lumen Output of the lamp they replace. LED offers a true alternative to incandescent lamps without any of the drawbacks.

LED Lamps last longer, are more Efficient, can be dimmed, and Switch on instantly.

Old Light Bulb	How Much Light	New Light Bulb			
GLS	LUMENS	Halogen Eco - 30%	Decorative CFL	Stick & Spiral CFL	LED
	1400				18W 1450Lm
100W = 1300Lm	1300				
	1200	70W 1200Lm	20W 1150Lm	20W 1200Lm	15W 1100Lm
	1100				
	1000				
75W = 920Lm	900	53W 850Lm	15W 810Lm	15W 845Lm	12W 806Lm
	800				
60W = 710Lm	700	42W 630Lm	11W 610Lm	11W 630Lm	
	600				
	500				7W 470Lm
40W = 415Lm	400	28W 405Lm	9W 405Lm	9W 405Lm	
	300		7W 286Lm		4W 250Lm
25W = 225Lm	200	18W 205Lm	5W 205Lm	5W 210Lm	
10W = 100Lm	100				2W 100Lm
GLS	LUMENS	Halogen Eco - 30%	Decorative CFL	Stick & Spiral CFL	LED

All wattage equivalences are based on the equivalence tables in regulation 244/2009

TOSHIBA
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TOSHIBA LIGHTENGINE™

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

Concept

LightEngine 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 .

LightEngine is a new generation of replaceable light sources, using LED. Just as you would replace your fluorescent tube, the LightEngine 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

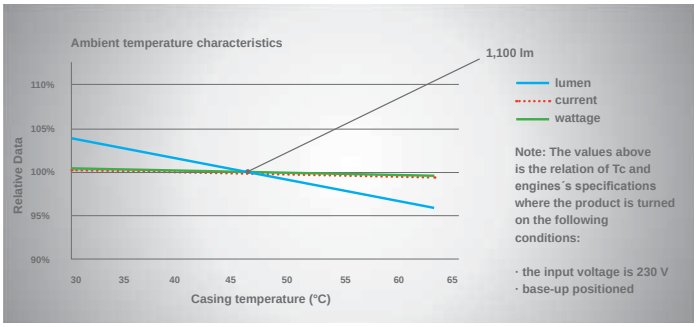
Without effective thermal management, LEDs will not operate well and could fail prematurely or opearte inefficiently. The LightEngine has been designed to take all that worry off your shoulders.

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

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

LightEngine offers 40‘000 hours of life (L70), that‘s up to 4 times longer than CFL, drammatically reducing maintenance costs.

Delivering 53Lm/W+, the LightEngine offers high light output without draining your wallet. Combined with its dimming capabilities, the LightEngine is the perfect choice for efficient, flexible, low energy lighting.



Reduce Investment Risk

What an LED can do today, it will do it twice as well in the future. At Toshiba we understand how quickly technology changes. Like TV‘s and laptop computers, LED lighting is improving all the time. So why invest now?

Unlike ‘Fit and Forget‘ LED luminaires, LightEngine allows you to make an the latest LED light source without having to replace the entire light fitting. Investment in LED today but then allows you to upgrade your lighting to the latest LED light source without having to replace the entire light fitting.

E-CORE LED Lighting

Designed For Flexibility

LightEngine enables you to make choices with your lighting, and change your mind later. Choose what colour temperature you want, which beam angle suits you better and if you don‘t like it anymore simply switch your LightEngine to a different version.

This interchangeability also 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.

Designed for Simplicity

LightEngine is a lamp in the traditional sense of the word.

- You dont need to attach a driver.
- You dont need to add optical controls.
- You don‘t need to add thermal management.

LightEngine is designed to be a simple to fit light source with everything included, making it easier to replace. Simply fit int he socket, twist 15 degrees and its done.

Twist and Lock

Enabling LED luminaire designs

LightEngine enables lumnaire designers to create a standard lumninaire with many variations without the need for additional tooling. Designers can use conventional luminaires and upgrade them to LED.

The standard GH76p base from BJB means you can use parts from conventional fixtures and add the LightEngine.

Appropriate use conditions	
Power Supply	**220 – 240 V**
Ambient temperature for fixture	5 – 35°C
Tcase	65 °C or
Relative humidity	85 °C or

Designed for compatibility

LightEngine uses the GH76p connector from BJB. This means that other LED sources could be interconnected to this connector making your lighting future-proof.

TOSHIBA
Leading Innovation

TOSHIBA LIGHTENGINE™

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

- **Variable optics**
- **Choice of two beam angles - 45 and 85 degrees**
- **Two Lumen packages - 1100Lm, 1600Lm**
- **Three colour temperatures - 2700k, 3000k and 4000k**
- **Dimmable down to 10% (trailing edge or 1-10V)**
- **High Efficiency - up to 70Lm/W (PART L Compliant)**
- **40'000 hours life (L70)**
- **All integrated = No driver or secondary optics needed**
- **Simple twist and lock solution**
- **Low heat**
- **Future-proof design**

Item Code	Colour temperature	Luminous flux	Beam Angle	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan/ L70	Base	Dimmable*
LEV112320M827TE	2,700 k	1,050 lm	45°	20.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV112320W827TE			85°						
LEV112320M830TE	3,000 k	1,100 lm	45°	20.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV112320W830TE			85°						
LEV112318M840TE	4,000 k	1,100 lm	45°	18.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV112318W840TE			85°						
LEV162324M827TE	2,700 k	1,400 lm	45°	24.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV162324W827TE			85°						
LEV162324M830TE	3,000 k	1,400 lm	45°	24.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV162324W830TE			85°						
LEV162323M840TE	4,000 k	1,600 lm	45°	23.0W	220 - 240V	> 80	40,000 h	GH76p-2	PC
LEV162323W840TE			85°						
LEV112320M827AE	2,700 k	1,050 lm	45°	20.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV112320W827AE			85°						
LEV112318M830AE	3,000 k	1,100 lm	45°	20.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV112318W830AE			85°						
LEV112317M840AE	4,000 k	1,100 lm	45°	18.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV112317W840AE			85°						
LEV162324M827AE	2,700 k	1,400 lm	45°	24.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV162324W827AE			85°						
LEV162324M830AE	3,000 k	1,400 lm	45°	24.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV162324W830AE			85°						
LEV162323M840AE	4,000 k	1,600 lm	45°	23.0W	220 - 240V	> 80	40,000 h	GH76p-2	1-10V
LEV162323W840AE			85°						

PC = Phase control only dimmable on trailing edge dimmers. Specifications correct at time of going to print and are subject to changes.

FOR MORE INFORMATION - PLEASE CONTACT YOUR TOSHIBA LIGHTING SALES REPRESENTATIVE OR CALL US ON 01932 841 600

E-CORE LLE DOWNLIGHTS

Check out our ranges of E-CORE downlights for the LightEngine. See the LED Downlights section

E-CORE LED Lighting

* Dimmable on suitable dimmers.

TOSHIBA E-CORE
LED REFLECTOR LAMPS

Stunning performance. Low Energy. Fast, easy solution to higher efficency.

Switching to Toshiba E-CORE reflector lamps can help reduce both your electricity and lamp maintenance costs.

LED reflector lamps are the perfect replacement for those inneficient halogen lamps that fail all the time.

Switch to E-CORE reflector lamps from Toshiba and start enjoying the benefits of high efficiency and considerably longer life.

With up to 40‘000 hours life you won‘t have to worry about changing one of these for a while.

GU10

MR16

AR111

PAR20

PAR30

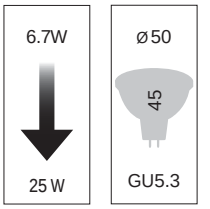
PAR38

TOSHIBA
Leading Innovation

LED LIGHTING
REFLECTOR REPLACEMENT LAMPS

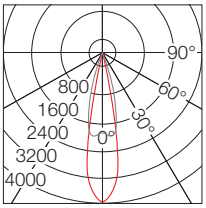
E-CORE makes our all-rounder for low-voltage lighting fit for the future. The GU5.3 pin-base lamp is available in twelve versions, providing maximum flexibility when it comes to economical accent and general lighting.

6.7W GU5.3



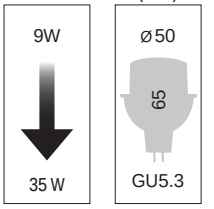
Dimensions (mm)

Light distribution (cd/klm)



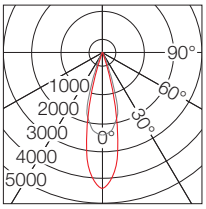
Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRA0727MU5EUD	2,700 K	300 lm	25°	• 1,200 cd	6.7 W	12 V	> 80	25,000 h	GU5.3
LDRA0727WU5EUD			35°	• 650 cd					
LDRA0730MU5EUD	3,000 K	310 lm	25°	• 1,250 cd	6.7 W	12 V	> 80	25,000 h	GU5.3
LDRA0730WU5EUD			35°	• 700 cd					
Cool white									
LDRA0740MU5EUD	4,000 K	320 lm	25°	• 1,250 cd	6.7 W	12 V	> 80	25,000 h	GU5.3
LDRA0740WU5EUD			35°	• 700 cd					

9W GU5.3



Dimensions (mm)

Light distribution (cd/klm)



Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRA0927MU5EUD	2,700 K	410 lm	25°	• 1,810 cd	9 W	12 V	> 80	25,000 h	GU5.3
LDRA0927WU5EUD		415 lm	35°	• 990 cd					
LDRA0930MU5EUD	3,000 K	440 lm	25°	• 1,900 cd	9 W	12 V	> 80	25,000 h	GU5.3
LDRA0930WU5EUD		445 lm	35°	• 1,040 cd					
Cool white									
LDRA0940MU5EUD	4,000 K	470 lm	25°	• 2,030 cd	9 W	12 V	> 80	25,000 h	GU5.3
LDRA0940WU5EUD		475 lm	35°	• 1,110 cd					

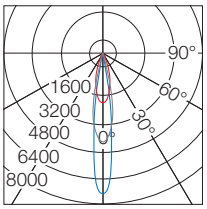
All wattage equivalences are based on the latest equivalence tables of DIM2 and are subject to changes

E-CORE LED LAMP TECHNOLOGY

The 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.

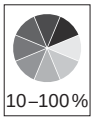
8.5W GU10

Light distribution (cd/klm)



Dimensions (mm)

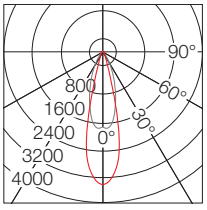
Dimmable*



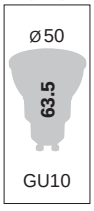
Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRC0930NU1EUD	3,000 K	275 lm	15°	• 2,050 cd	8.5 W	220 – 240 V	> 80	40,000 h	GU10
LDRC0930MU1EUD			25°	• 1,100 cd					
LDRC0930WU1EUD			35°	• 530 cd					

6.5W GU10

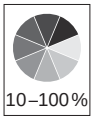
Light distribution (cd/klm)



Dimensions (mm)



Dimmable*



Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRC0627MU1EUD	2,700 K	270 lm	25°	• 900 cd	6.5 W	220 – 240 V	> 80	25,000 h	GU10
LDRC0627WU1EUD			35°	• 460 cd					
LDRC0630MU1EUD	3,000 K	280 lm	25°	• 950 cd	6.5 W	220 – 240 V	> 80	25,000 h	GU10
LDRC0630WU1EUD			35°	• 480 cd					
Cool white									
LDRC0640MU1EUD	4,000 K	280 lm	25°	• 950 cd	6.5 W	220 – 240 V	> 80	25,000 h	GU10
LDRC0640WU1EUD			35°	• 480 cd					

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

All wattage equivalences are based on the latest equivalence tables of DIM2 and are subject to changes

TOSHIBA
Leading Innovation

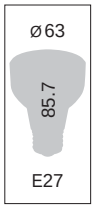
LED LIGHTING
REFLECTOR REPLACEMENT LAMPS

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 perfect way in to contemporary room lighting.

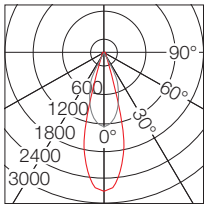
PAR20

Dimmable*

Dimensions (mm)



Light distribution

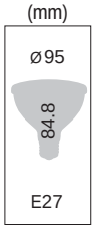


Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRC0927ME7EUD	2,700 K	370 lm	25°	• 950 cd	9 W	220 – 240 V	> 80	40,000 h	E27
LDRC0927WE7EUD			40°	• 450 cd					
Cool white									
LDRC0940WE7EUD	4,000 K	380 lm	40°	• 460 cd	9 W		> 80	40,000 h	E27

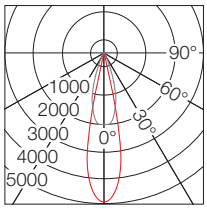
16W PAR30

Dimmable*

Dimensions (mm)



Light distribution (cd/klm)



Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRC1627ME7EUD	2,700 K	740 lm	23°	• 3,400 cd	16 W	220 – 240 V	> 80	40,000 h	E27
LDRC1627WE7EUD			32°	• 1,500 cd					
LDRC1630ME7EUD	3,000 K	740 lm	23°	• 3,400 cd	16 W	220 – 240 V	> 80	40,000 h	E27
LDRC1630WE7EUD			32°	• 1,500 cd					
Cool white									
LDRC1640ME7EUD	4,000 K	740 lm	23°	• 3,400 cd	16 W	220 – 240 V	> 80	40,000 h	E27
LDRC1640WE7EUD			32°	• 1,500 cd					
Daylight									
LDRC1665ME7EUD	6,500 K	760 lm	23°	• 3,400 cd	16 W	220 – 240 V	> 65	40,000 h	E27
LDRC1665WE7EUD			32°	• 1,600 cd					

E-CORE LED Lighting

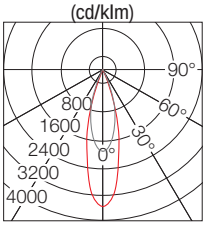
* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

All wattage equivalences are based on the latest equivalence tables of DIM2 and are subject to changes

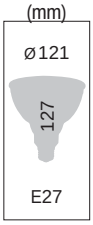
E-CORE TECHNOLOGIES…
FOR ALL YOUR LIGHTING NEEDS

19.7W PAR38

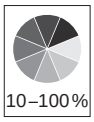
Light distribution (cd/klm)



Dimensions (mm)



Dimmable*

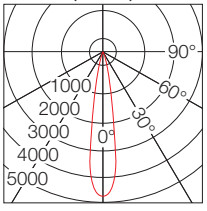


Warm white	Colour temperature	Luminous flux	Angle of radiation	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRC2027ME7EUD	2,700 K	920 lm	25°	3,200 cd	19.7 W	220 – 240 V	> 80	40,000 h	E27
LDRC2027WE7EUD			35°	1,650 cd					
LDRC2030ME7EUD	3,000 K	920 lm	25°	3,200 cd	19.7 W	220 – 240 V	> 80	40,000 h	E27
LDRC2030WE7EUD			35°	1,650 cd					
Cool white									
LDRC2040ME7EUD	4,000 K	920 lm	25°	3,200 cd	19.7 W	220 – 240 V	> 80	40,000 h	E27
LDRC2040WE7EUD			35°	1,650 cd					
Daylight									
LDRC2065ME7EUD	6,500 K	950 lm	25°	3,300 cd	19.7 W	220 – 240 V	> 65	40,000 h	E27
LDRC2065WE7EUD			35°	1,700 cd					

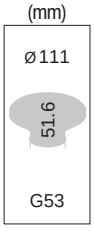
The new AR111 pin-base lamps are in a class of their own in the low-voltage sector: pure luminosity for downlights, gimbal and catenary lights. Their potential for savings is also as eye-catching as it impressive.

15W AR111

Light distribution (cd/klm)



Dimensions (mm)



Warm white	Colour temperature	Luminous flux	Beam Angle	Luminous intensity	Wattage	Voltage 50 – 60 Hz	Ra (min)	Lifespan (L70)	Base
LDRA1527MG5EU	2,700 K	750 lm	24°	3,600 cd	15 W	12 V	> 80	25,000 h	G53
LDRA1530MG5EU	3,000 K	800 lm		3,850 cd					
Daylight									
LDRA1550MG5EU	5,000 K	900 lm	24°	4,300 cd	15 W	12 V	> 72	25,000 h	G53

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

All wattage equivalences are based on the latest equivalence tables of DIM2 and are subject to changes

TOSHIBA
Leading Innovation >>>

TOSHIBA E-CORE LED DOWNLIGHTS

Compact size & high performance without compromise in light quality & comfort

Toshiba LED Downlights are a modern and elegant lighting solution to enhance the ambience of any room.

Perfect for domestic or commercial use, downlights provide a crisp, clear lighting ambience. Toshiba delivers high colour consistency across its products ensuring your lit space looks as amazing as it can.

With up to 50‘000 hours life and dimming capabilities, Toshiba downlights offer the sustainability and flexibilty you need.

PackAccent

E-CORE 1100 & 1600 LLE

PackOmni 1100 & 1600 LLE

E-CORE 3000

E-CORE 6000

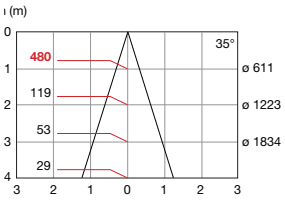
TOSHIBA
Leading Innovation

PackAccent GU10

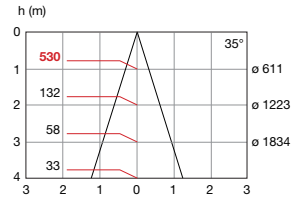
The PackAccent GU10 range is aimed at making life easier for installers - Easy to install and complete with Toshiba E-CORE GU10 LED, PackAccent is perfectly suited to the needs of architectural and domestic decorative lighting by providing a reliable spotlight for applications where lower energy costs and maintenance costs are required.

IP20

Dimmable*



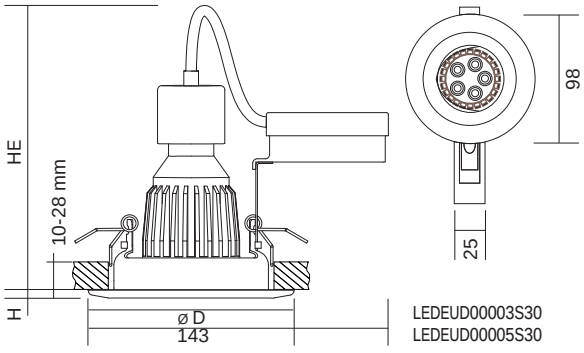
PackAccent GU10 8.5W



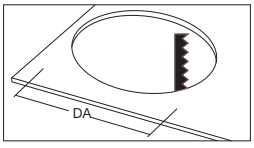
PackAccent GU10 6.5W

Item Code	Colour Temperature	Beam Angle	Luminous Intensity	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	Finish	Tilt
LEDEUD00003S30	3,000 K	35°	• 530 cd	8.5 W	220 – 240 V⎓	> 80	40,000 h	White	15°
LEDEUD00005S30			• 530 cd					Silver	
LEDEUD000023S30	3,000 K		• 480 cd	6.5 W			25,000 h	White	15°
LEDEUD000025S30			• 480 cd					Silver	

PackAccent GU10 8.5W

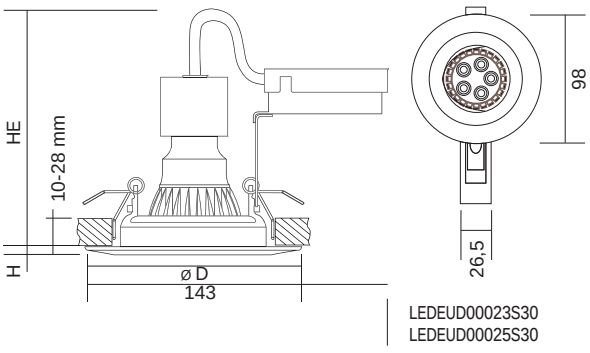


LEDEUD00003S30
LEDEUD00005S30

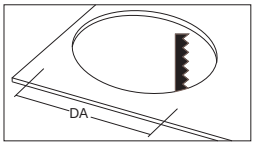


D	H	HE	DA
98	5.2	100	82

PackAccent GU10 6.5W



LEDEUD00023S30
LEDEUD00025S30



D	H	HE	DA
98	5.2	88	82

E-CORE LED Lighting

* Dimmable on suitable dimmers. Please see compatibility list at www.toshiba.co.uk/lighting

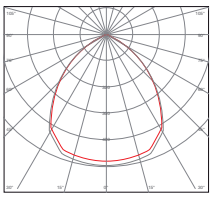
Specifications are subject to change

PACK LED LIGHTING
COMPETIVE LED LIGHTING

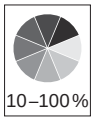
Pack Omni

Pack Omni is a compact low energy LED luminiare ideal for corridor, toilet and circulation area lighting.
Featuring the Toshiba LightEngine™, the PackOmni is a great investment in sustainable low energy lighting for areas that simply need reduced energy and lower maintenance without the huge up front costs.

Light Distribution
(cd/klm)



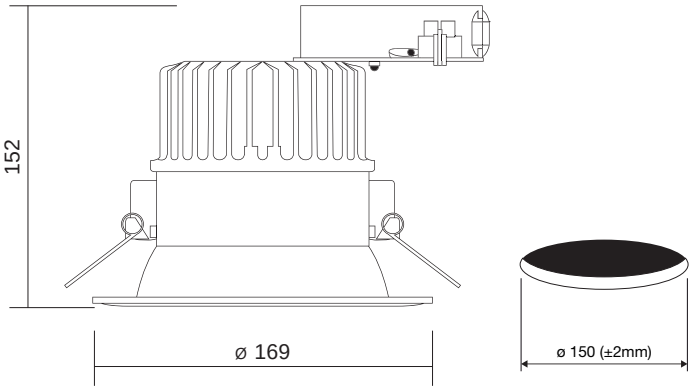
Dimmable*



IP20

Item Code	Complete with lamp	Colour temperature	Luminous Flux	Beam Angle	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	Finish	UGR
LEDEUD00076S40	Yes	4,000 K	• 1040 lm	90°	18 W	220 – 240 V	> 80	40,000 h	White	25
LEDEUD00077S40			• 1560 lm		23 W					25
LEDEUD00075C	No	Fixture only - Order lamp seperately								

Dimmable on suitable trailing edge dimmers



E-CORE 3hr Emergency ceiling ring available soon.
* Dimmable on suitable trailing edge PC dimmers. 1-10V TBC.
Specifications are subject to change

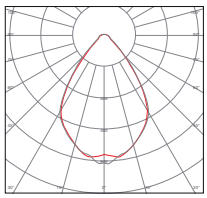
TOSHIBA
Leading Innovation

E-CORE LED LIGHTING – DOWNLIGHTS
HIGH PERFORMANCE AND VISUAL COMFORT

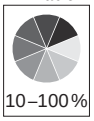
E-CORE DOWNLIGHT 1100/1600

A range of high quality, high performance compact LED downlights designed for use in a wide range fo applications. From circulation areas to offices, E-CORE downlight 1100/1600 encompasses the Toshiba LightEngine™ with tailorable secondary optics to deliver high light output while maximising visual comfort.

Light Distribution (cd/klm)

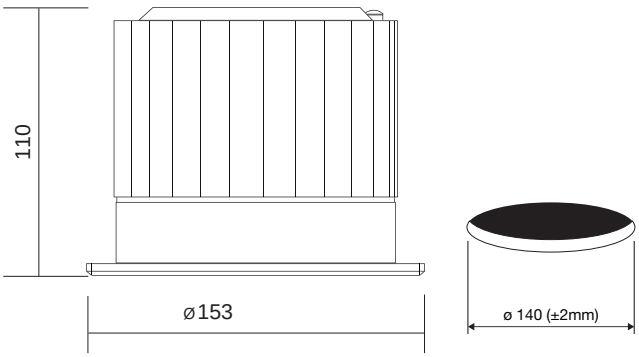


Dimmable*



IP20

Item Code	Complete with lamp	Colour temperature	Luminous Flux	Beam Angle	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	Finish	UGR
LEDEUD00049S30	Yes	3,000 K •	930 lm	72°	18 W	220 – 240 V	> 80	40,000 h	White	19
LEDEUD00049S40		4,000 K •	930 lm	72°	18 W					19
LEDEUD00050S30	Yes	3,000 K •	1340 lm	72°	23 W	220 – 240 V	> 80	40,000 h		21
LEDEUD00050S40		4,000 K •	1340 lm	72°	23 W					21
LEDEUD00006C	No	White frame - Silver semi-specular reflector							White	
LEDEUD00007C		White frame - White painted reflector								
LEDEUD00008C		Silver frame - Silver semi-specular reflector							Silver	
LEDEUD00009C		Silver frame - White painted reflector								
LEDEUD00010C		Black frame - Silver semi-specular reflector							Black	
LEDEUD00011C		Black frame - White painted reflector								



E-CORE LED Lighting

E-CORE 3hr Emergency ceiling ring available soon.
* Dimmable on suitable dimmers.
Specifications are subject to change

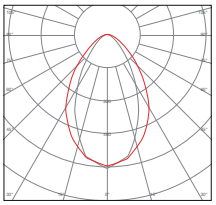
E-CORE LED LIGHTING
TECHNOLOGY WITHOUT COMPROMISE

E-CORE DOWNLIGHT 3000

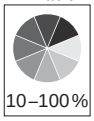
E-CORE 3000 is the perfect replacement for 2x26W TC-D / 1x32W CFL downlights or even 35W CDM downlights. 50'000 hours life (L70), DALI Dimmable, up to 2815 lumens, 61 lumens per watt... this downlight offers all the energy saving potential and maintenance savings with none of the drawbacks.

NEW

Light Distribution (cd/klm)



Dimmable*

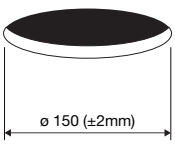


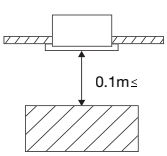
IP20

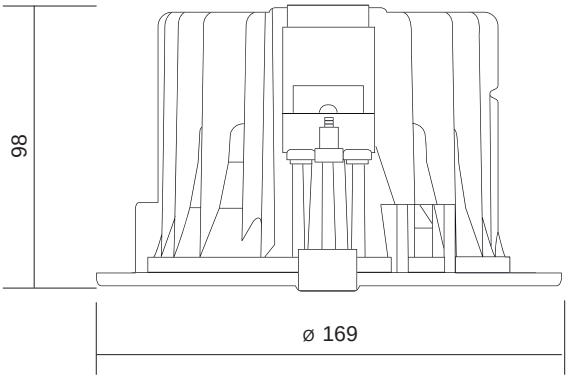
Item Code	Colour temperature	Luminous Flux	Beam Angle	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	Finish	UGR
Warm White									
LEDEUD00027D30	3,000 K	• 2535 lm	76°	46 W	220 – 240 V	> 80	50,000 h	White	28
LEDEUD00029D30		• 2675 lm	55°	46 W					25
Cool White									
LEDEUD00027D40	4,000 K	• 2665 lm	76°	46 W	220 – 240 V	> 80	50,000 h	White	28
LEDEUD00029D40		• 2815 lm	55°	46 W					25

Dont forget your driver! 1 driver required

Item Code	Description
LEK-50001CA01O	50W DALI Driver







E-CORE 3hr Emergency ceiling ring available soon.
* Dimmable on suitable DALI dimmers.
Specifications are subject to change

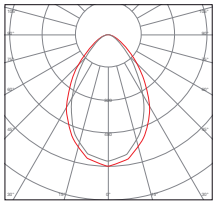
TOSHIBA
Leading Innovation

E-CORE LED LIGHTING – DOWNLIGHTS
EXCEPTIONAL LONG LIFE

E-CORE DOWNLIGHT 6000

E-CORE 6000 is the solution we have all been waiting for. It is the ideal replacement for high mounted downlights in areas that are difficult to access and maintain. With over 5'000 lumens, 50'000 hours life and DALI dimmable, E-CORE 6000 will easily replace 42W TC-T, 70W CDM and potentially 150W CDM downlights.

Light Distribution (cd/klm)



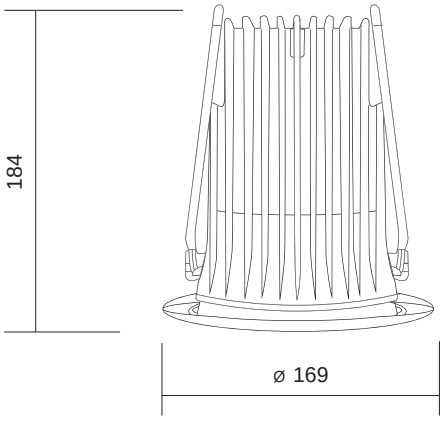
Dimmable*

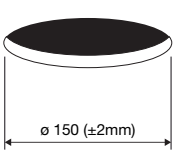
IP20

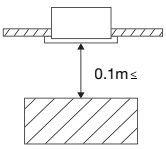
Item Code	Colour temperature	Luminous Flux	Beam Angle	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	Finish	UGR
Warm White									
LEDEUD00038D30	3,000 K	• 5060 lm	75°	92 W	220 – 240 V	> 80	50,000 h	White	28
LEDEUD00039D30	3,000 K	• 5515 lm	65°						26
Cool White									
LEDEUD00038D40	4,000 K	5325 lm	75°	92 W	220 – 240 V	> 80	50,000 h	White	28
LEDEUD00039D40	4,000 K	5805 lm	65°						26

Dont forget your driver! 2 x driver required

Item Code	Description
LEK-50001CA01O	50W DALI Driver







E-CORE LED Lighting

* Dimmable on suitable DALI dimmers.
Specifications are subject to change

TOSHIBA E-CORE LED OUTDOOR LUMINAIRES

Whiter. Brighter. Safer. Lower maintenance.

Long life means just that… with the outdoor range of fixtures from Toshiba you will no longer spend large amounts of time and money on replacing lamps.

Improve the look and feel of your outdoor spaces. LEDs from Toshiba offer whiter, brighter light for safer lighting and city beautification.

GarageLight

UrbanLight

Road Light

Flood Light

TOSHIBA
Leading Innovation

E-CORE LED LIGHTING – EXTERIOR
LONGER LASTING - INNOVATIVE

E-CORE LED WEATHERPROOF

E-CORE LED Weatherproof is a long lasting, durable solution to outdoor lighting where IP65 watherproof battens are required for tunnel lighting, pedestrian walkways, parking areas, passage ways, warehouses, garages and many many more applications. The integrated LED tube delivers a constant light output thanks to the Intital Lux Correction (ILC) technology and is extremely efficient (82.7Lm/W) and offers 40'000 hours life (L70).

NEW


Steel Clips


Steel Clips

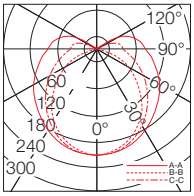

Suspension Kit


Through Wire

IP65 / Corrosion Resistant

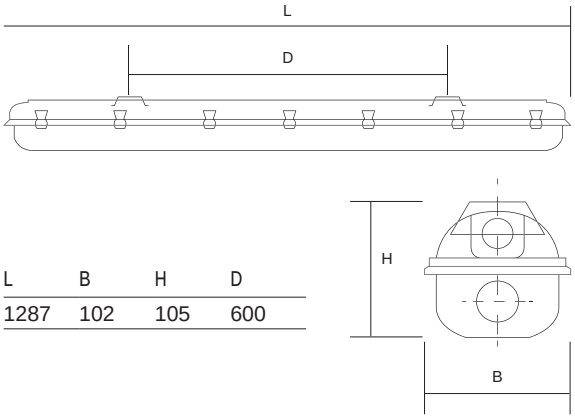
INITIAL LUX CORRECTION

Light Distribution (cd/klm)

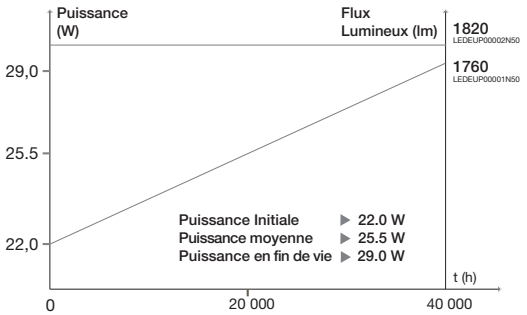


Item Code	Cover	Colour Temperature	Luminous Flux	Wattage (av.)	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	IP	IK	Glow Wire
LEDEUP00001N50	Polycarbonate	5,000 K	1760 lm	25,5 W	220 – 240 V	> 70	40.000 h	IP65	08	850°C
LEDEUP00002N50	PMMA		1820 lm					IP65	02	650°C
LEDEUPX0001	Stainless steel clips pack (x14 clips)									
LEDEUPX0002	Suspension Kit									
LEDEUPX0003	Through-wire system 1.5mm^2									
LEDEUPX0004	Through-wire system 2.5mm^2									
LEDEUPX0005	Plastic Clips pack (x14 x clips)									

E-CORE LED Weatherproof comes as standard complete with: LED Luminaire inc. module, Fixing kit, Compression gland, Mounting instructions



L	B	H	D
1287	102	105	600



E-CORE LED Lighting

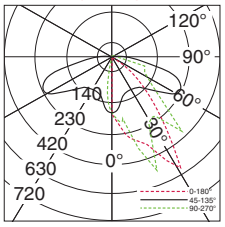
Emergency option available on special request and subject to leadtime
Please note integrated LED tube module cannot be replaced with standard or LED G13 lamps
Specifications are subject to change

E-CORE URBAN LED LIGHTING
MAKING YOUR SPACES SAFER

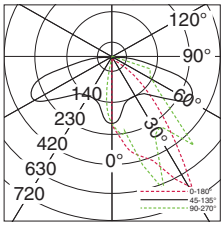
E-CORE URBAN LIGHT

Urban Light is designed to replace 50W / 70W High Pressure Sodium exterior wall lights.
Offering up to 50% energy savings and 60'000 hours maintenance free lighting, UrbanLight also delivers higher colour rendering of Ra70 compared to Ra20 of HPS systems. This will helpmake your outdoor spaces feel brighter and contribute to improved safety especially for CCTV controlled areas.

Light Distribution (cd/klm)

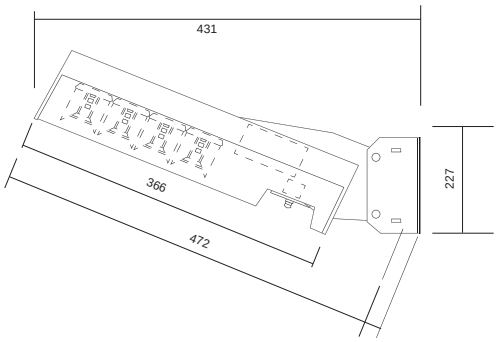


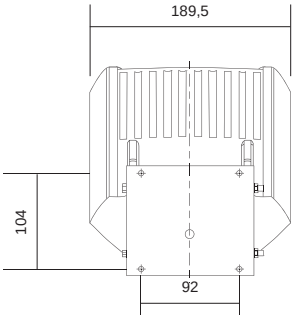
Light Distribution (cd/klm)

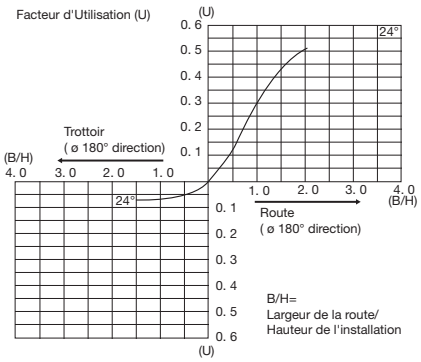


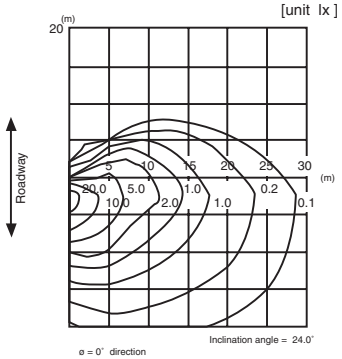
IP65

Item Code	Colour Temperature	Luminous Flux	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	IP	IK
LEDEUK00001N50	5,000 K	• 1250 lm	16.5 W	220 – 240 V	> 70	60.000 h	65	07
LEDEUK00002N50		• 2200 lm	32 W					









TOSHIBA
Leading Innovation

E-CORE LED LIGHTING – EXTERIOR ROAD LIGHTING

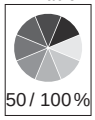
E-CORE ROAD LIGHT

E-CORE ROAD LIGHT is the next generation for road lighting. Low energy, long life and low maintenance means that this road light will save you a a lot of money over the course of its life. Featuring 2-step dimming will maximise the energy saving potential by dimming the lights when they are less needed. ROAD LIGHT also features the amazing Initial Lux Correction (ILC) technology, ensuring constant light output over life making your road ways safer.

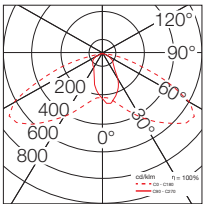
IP65

INITIAL LUX CORRECTION

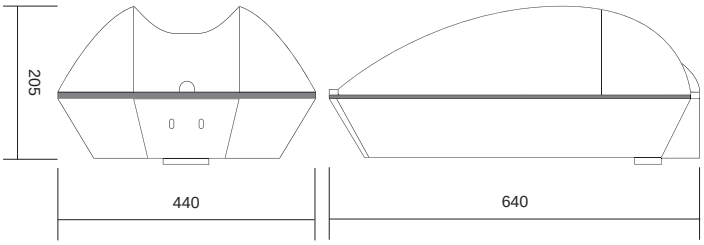
Dimmable*

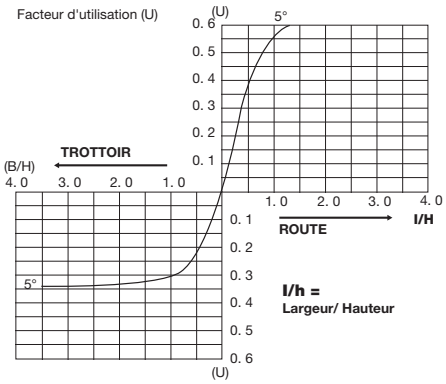


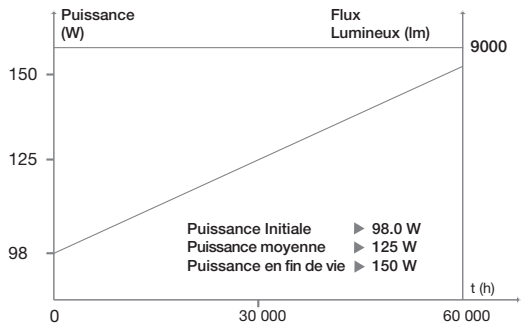
Light Distribution (cd/klm)



Item Code	Colour Temperature	Luminous Flux	Wattage (Av.)	Voltage 50 – 60 Hz	Ra (min.)	Durée de vie	IP	IK	Mounting Direction
LEDEUW00001L50	5,000 K	9000 lm	125 W	220 – 240 V	> 70	60,000 h	IP65	07	Vertical
LEDEUW00002L50									Horizontal







E-CORE LED Lighting

* Dimmable using dry contact switch - 100% or 50% only

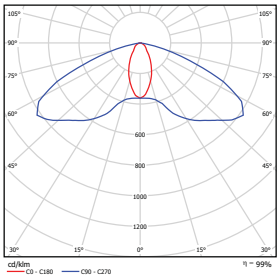
Specifications are subject to change

E-CORE LED LIGHTING
BETTER OPTICAL EFFICENCY

E-CORE LED FLOODLIGHT

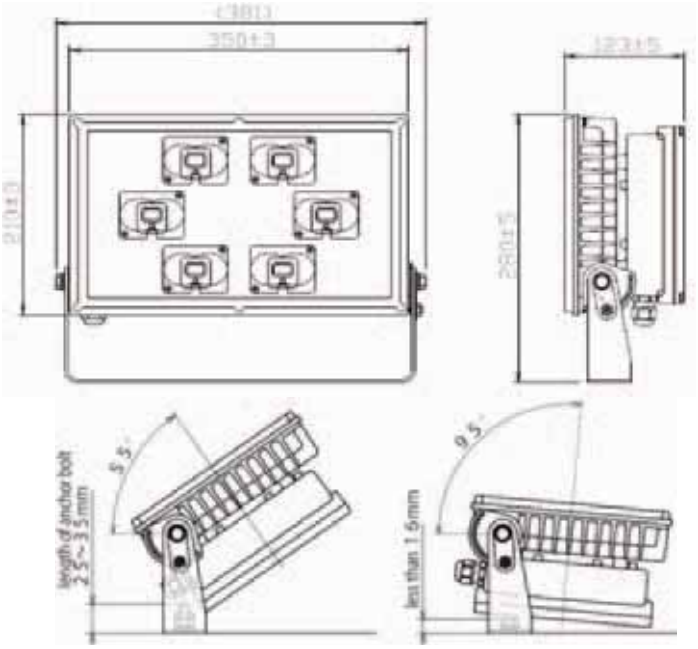
LED Floodlight is a brand new product in the Toshiba exterior luminaires range. 93W delivering 6000 lumens (64.5Lm/W) makes this floodlight extremely efficient and with 60'000 hours life (L70) you will not have to worry about changing the lamps, which in difficult to maintain areas will save you lts of money in labour charges.

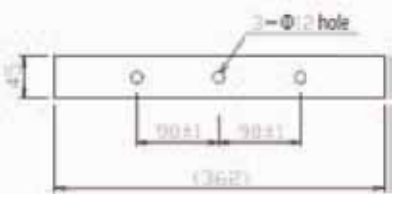
Light Distribution
(cd/klm)



IP65

Item Code	Colour Temperature	Luminous Flux	Wattage	Voltage 50 – 60 Hz	Ra (min.)	Lifespan (L70)	IP	IK
LEDEUK00012N50	5,000 K	6000 lm	93 W	220 – 240 V	> 70	60.000 h	65	07





WHY BUY TOSHIBA LED?

QUALITY YOU CAN COUNT ON

At Toshiba we apply the same rigorous quality checks on our lamps as we do our TV's and laptops. Should anything go wrong, every product has a unique serial number so we can identify and rectify the problem quickly.

3 YEAR WARRANTY

Toshiba believes so strongly in the quality of its products that we offer as standard a 3 year warranty on all our lamps and luminaires.

GREAT SERVICE

If your local authorised Toshiba reseller / distributor does not have our product on his shelf we will endeavour to get it there the next day*

* Typical delivry 48hrs.
Subject to stock availability

GREEN AND SUSTAINABLE

Toshiba's Environmental Vision 2050 sets out our plans to reduce the impact of all our products and processes on the environment.

In 2010 Toshiba was the first global lighting manufacturer to cease production of incandescent lamps.

For more information please visit our website:

http://www.toshiba.eu/eu/Environmental-Management/Environmental-Vision-2050/

LEADING INNOVATION

Since 1890 Toshiba has led innovation and best practice and is known the world over for its innovative products.

At Toshiba we are always striving to push the barriers of technology to deliver the very best quality products that not only reduce environmental impact but increase your quality of life.

E-CORE
LED Lighting

CORPORATE AND SOCIAL RESPONSABILITY

Toshiba is a corporate citizen of earth.
We believe in community spirit and supporting global and local environmental, educational, social, sporting and arts programs.

Toshiba is a proud sponsor of the England Rugby team for the 2011 World Cup and sponsored the England Football team for the 2010 World Cup.

RUGBY WORLD CUP 2011

NOTES...

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THE NEW LIGHTING INNOVATION

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For more information, please visit our website:
www.toshiba.co.uk/lighting

E-CORE LED Lighting

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TLUKB01-12