

# LED Industrial & Outdoor

LED Linear Waterproof

LED Highbay

LED Floodlight

LED Street light

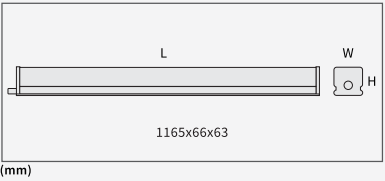


## LED Linear Waterproof

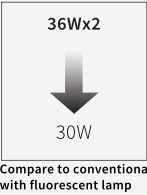
Toshiba LED linear waterproof have been specifically developed with IP65-rated linear luminaires and produce an excellent efficiency of 127 lm/W. They are widely suitable for underground parking, warehosue which is designed for best replacement of waterproof flourescent fittings.



### DIMENSION



### EQUIVALENT



### ENERGY SAVING



IP 65

IK 08



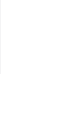
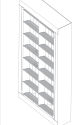
λ800, 1955-2551



Non-DIMMABLE

Product code	Voltage (V)	Rated Wattage (W)	Luminous Flux (lm)	Efficacy (lm/W)	Colour Temperature	Color Rendering Index (Ra)	Power Factor	Beam Angle	Lifespan (Hrs.)
RLDTLC03065CTH1	220-240	30	3800	127	6500K	≥80	>0.9	125°	50,000h

Operation temperature : -20°C to 45°C



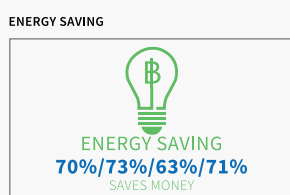
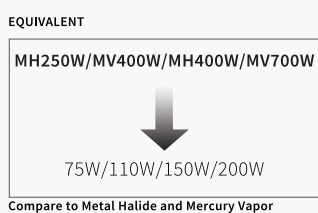
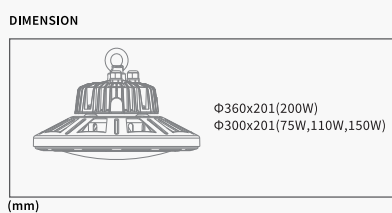




## LED Highbay

This LED Highbay lighting with superior lumen output extremely endurance with IP65 and IK08, save on maintenance costs and provide ample illumination for your high ceiling and multiple application : Both indoor and Outdoor use

- Workshop
- Warehouse
- Industrial
- Commercial



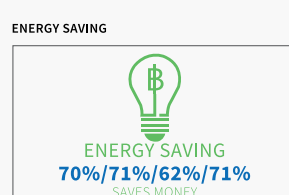
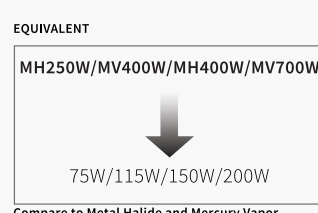
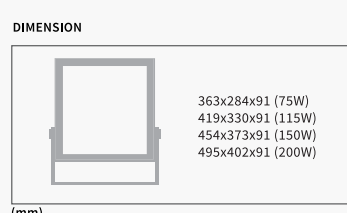
Product code	Voltage (V)	Rated Wattage (W)	Luminous Flux (lm)	Efficacy (lm/W)	Colour Temperature	Color Rendering Index (Ra)	Power Factor	Beam Angle	Weight (Kg)	Lifespan (Hrs.)
RLDJC07550WTH1	220-240	75	10,500	140	5000K	≥80	>0.9	110°	2.67	50,000h
RLDJC07565WTH1	220-240	75	10,500	140	6500K	≥80	>0.9	110°	2.67	50,000h
RLDJC11050WTH1	220-240	110	15,400	140	5000K	≥80	>0.9	110°	2.71	50,000h
RLDJC11065WTH1	220-240	110	15,400	140	6500K	≥80	>0.9	110°	2.71	50,000h
RLDJC15050WTH1	220-240	150	21,000	140	5000K	≥80	>0.9	110°	2.76	50,000h
RLDJC15065WTH1	220-240	150	21,000	140	6500K	≥80	>0.9	110°	2.76	50,000h
RLDJC20050WTH1	220-240	200	28,000	140	5000K	≥80	>0.9	110°	3.04	50,000h
RLDJC20065WTH1	220-240	200	28,000	140	6500K	≥80	>0.9	110°	3.04	50,000h

Operation temperature : -40°C to 50°C



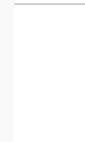
## LED Floodlight

Toshiba LED Floodlight provides lighting that draws attention to a large area and helps to emphasize textures on vertical surfaces and walls.They can be used in outdoor fields providing steady lumen output and weatherproof functionality. Toshiba LED Floodlight is perfect to use in Facade, signboard and parking area.



Product code	Voltage (V)	Rated Wattage (W)	Luminous Flux (lm)	Efficacy (lm/W)	Colour Temperature	Color Rendering Index (Ra)	Power Factor	Beam Angle	Weight (Kg)	Lifespan (Hrs.)
RLDFD07565BTH1	100-240	75	10,000	130	6500K	≥80	>0.9	110°	3.35	50,000h
RLDFD11565BTH1	100-240	115	15,000	130	6500K	≥80	>0.9	110°	4.15	50,000h
RLDFD15065BTH1	100-240	150	20,000	130	6500K	≥80	>0.9	110°	5.36	50,000h
RLDFD20065BTH1	100-240	200	26,000	130	6500K	≥80	>0.9	110°	5.87	50,000h

Operation temperature : -20°C to 50°C

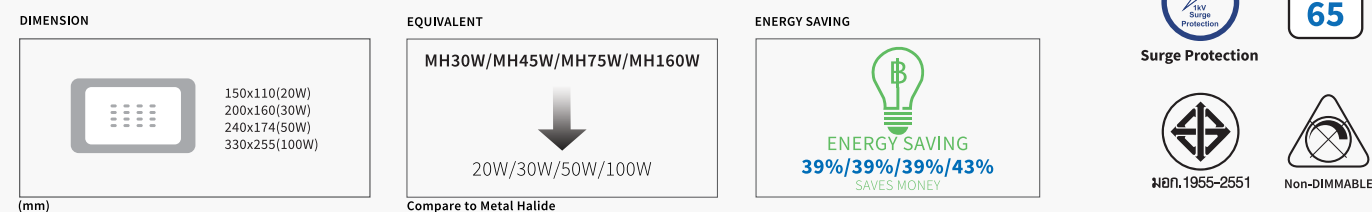






## LED Floodlight Eco

Brand new series LED Floodlight has a wider power option from 20W to 100W. Comes with bracket light weight design. Optimal lighting, IP65 rating, suitable for indoor and outdoor lighting fixtures to give you a bright and safe night. Fit for landscape lighting, garden, building lighting, hotels and residential, and other outdoor place for atmosphere decorate.



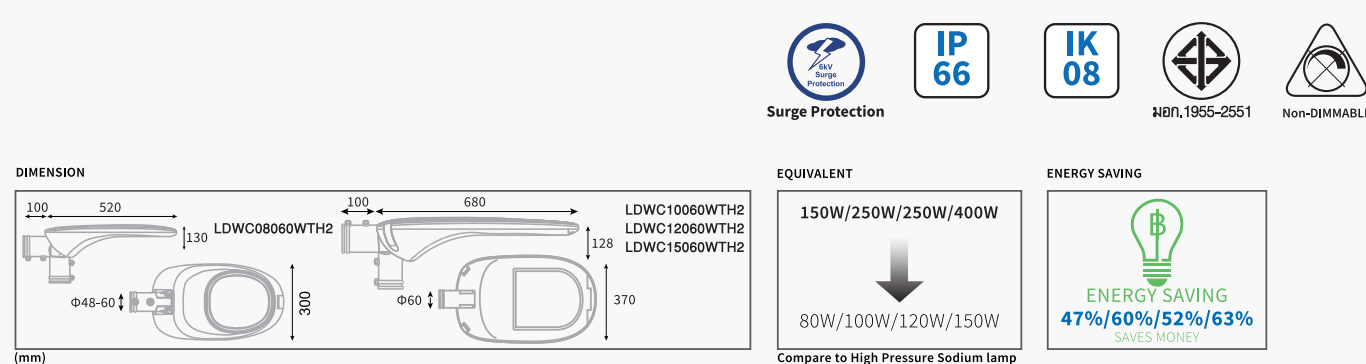
Product code	Voltage (V)	Rated Wattage (W)	Luminous Flux (lm)	Efficacy (lm/W)	Colour Temperature	Color Rendering Index (Ra)	Power Factor	Beam Angle	Weight (Kg)	Lifespan (Hrs.)
RLCFC02030CTH1	220-240	20	1,600	80	3000K	≥80	0.9	120°	0.3	30,000h
RLCFC02065CTH1	220-240	20	1,700	85	6500K	≥80	0.9	120°	0.3	30,000h
RLCFC03030CTH1	220-240	30	2,400	80	3000K	≥80	0.9	120°	0.6	30,000h
RLCFC03065CTH1	220-240	30	2,550	85	6500K	≥80	0.9	120°	0.6	30,000h
RLCFC05030CTH1	220-240	50	4,250	85	3000K	≥80	0.9	120°	0.8	30,000h
RLCFC05065CTH1	220-240	50	4,500	90	6500K	≥80	0.9	120°	0.8	30,000h
RLCFC10030CTH1	220-240	100	8,500	85	3000K	≥80	0.9	120°	2.1	30,000h
RLCFC10065CTH1	220-240	100	9,000	90	6500K	≥80	0.9	120°	2.1	30,000h

Operation temperature : -20°C to 45°C



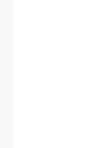
## LED Streetlight

The Toshiba LED streetlight series offer more 15 years of service life to significantly reduce maintenance frequency and expense, base on a 50,000 hours life and 12 hours of operation per day. This efficiency fixture can yield up to a 60 percent reduction in system energy compared with standard HID system, depending on roadway applications.



Product code	Voltage (V)	Rated Wattage (W)	Luminous Flux (lm)	Efficacy (lm/W)	Colour Temperature	Color Rendering Index (Ra)	Power Factor	Beam Angle	Weight (Kg)	Lifespan (Hrs.)
LDWC08060WTH2	220-240	80	8,000	110	6000K	70	>0.95	Wide	5.3	50,000h
LDWC10060WTH2	220-240	100	11,000	110	6000K	70	>0.95	Wide	8.5	50,000h
LDWC12060WTH2	220-240	120	13,200	110	6000K	70	>0.95	Wide	8.5	50,000h
LDWC15060WTH2	220-240	150	16,500	110	6000K	70	>0.95	Wide	8.5	50,000h

Operation temperature : -20°C to 50°C





Fluorescent lamp

Fluorescent Standard

Fluorescent Extra

Fluorescent Shatter proof

Fluorescent Super daylight

Fluorescent Repel & Lure insects

Fluorescent Special colors

Fluorescent Buddhist religious set

Fluorescent Control gears

Fluorescent Circline lamp

Compact Fluorescent lamp

Fluorescent Lamps

Standard

“Toshiba’s standard, the world fluorescent’s standard”

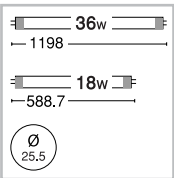
Pre- heat start lamps use a “ start switch “ which operates only at the moment the lamp is switched on to pre-heat the cathodes. The use of this starter permits more economical ballast designs. Of all fluorescent lamps this is the most economical type with long life, high lumen output and low initial cost.

Specification

- » Luminous efficacy up to 75 lm/W for fluorescent 36 W and 61 lm/W for fluorescent 18 W.
- » Available in 3 colors : Daylight, Cool White and Warm White
- » First certificate approval of Green label in Thailand.
- » First TIS certificate of 20,000 hrs. approval in Thailand.



Dimension



(mm)

Socket



Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Daylight							
FL18W/T8/DAYLIGHT	18	6,500	1,090	70	61	20,000	30
FL36W/T8/DAYLIGHT	36		2,500		70		
Cool White							
FL18W/T8/COOLWHITE	18	4,200	1,200	70	67	20,000	30
FL36W/T8/COOLWHITE	36		3,100		86		
Warm White							
FL18W/T8/WARMWHITE	18	3,000	1,200	70	67	20,000	30
FL36W/T8/WARMWHITE	36		3,100		86		







# Fluorescent Lamps

## Extra (3 Band Phosphors)

“The more clear, the more relieve”

With 3 types of phosphor colored blue, green and red, color performance (the way that the color looks) is vastly improved and color is reproduced vividly. Color performance, where the quality of light has become luxuriant, is obtained by these lamps with the ideal conditions to meet your needs for high quality, authenticity and nature.

### Specification

- » Relief with 25% brighter but less power consume as usual.
- » Generate light as close natural light with high color accuracy, CRI 85, while only CRI 69-70 by general fluorescent lamp.
- » Suitable for areas that require more clear such as terrace light, building light.



Dimension

36w

1198

18w

588.7

Ø 25.5

Socket

G13

T8

Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Extra Daylight							
FL18W/T8/EX-D	18	6,500	1,300	85	72	18,000	30
FL36W/T8/EX-D	36		3,250		90		
Extra Cool White							
FL18W/T8/EX-W	18	4,000	1,350	85	75	13,000	30
Extra Warm White							
FL36W/T8/EX-WW	36	3,000	3,350	85	93	13,000	30

# Fluorescent Lamps

## Shatter Proof

“Meticulously developed to protect you”

Due to safety of you all from broken fluorescent tube. Toshiba has developed the Shatter Proof lamps by covered the whole lamp with transparency resin in order to cover the glass not to spread and do harm to you.

### Specification

- » Protected more by cover one more layer on the glass tube with qualitatively resin
- » 25% brighter but small energy consume as usual.
- » Generate light as close natural light with high color accuracy, CRI 85, while only CRI 69-70 by general fluorescent lamp.
- » Suitable to high safety wanted areas such as food factory or office.



Dimension

36w

1198

18w


588.7

Ø 25.5

Socket

G13

T8

Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Daylight							
FL18W/T8/EX-D-P	18	6,500	1,260	84	70	18,000	30
FL36W/T8/EX-D-P	36		3,250		90		
Super Daylight							
FL18T8 12K/18	18	12,000	940	70	52	12,000	25
FL36T8 12K/36	36		2,320		64		
Super Extra Daylight 							
FL20T8 EX-12K/18	18	12,000	1,118	85	62	12,000	25
FL40T8 EX-12K/36	36		2,795		78		







# Fluorescent Lamps

## “Repel & Lure” insects



### 3-Band Insect Repellant

ลดแมลงรบกวน  
ได้มากกว่า  
**60%**  
เมื่อเทียบกับ  
หลอดยี่ห้ออื่น

**Specification**

- » Insects are hard to near to this lamp because this lamp have ultraviolet filter to cut wave length lower than 380nm.
- » Reduce insect infestation than 60%.
- » Last up to 18,000 hrs.
- » 25% brighter than typical fluorescent lamps.

### Insect Repellent (Deep Yellow)

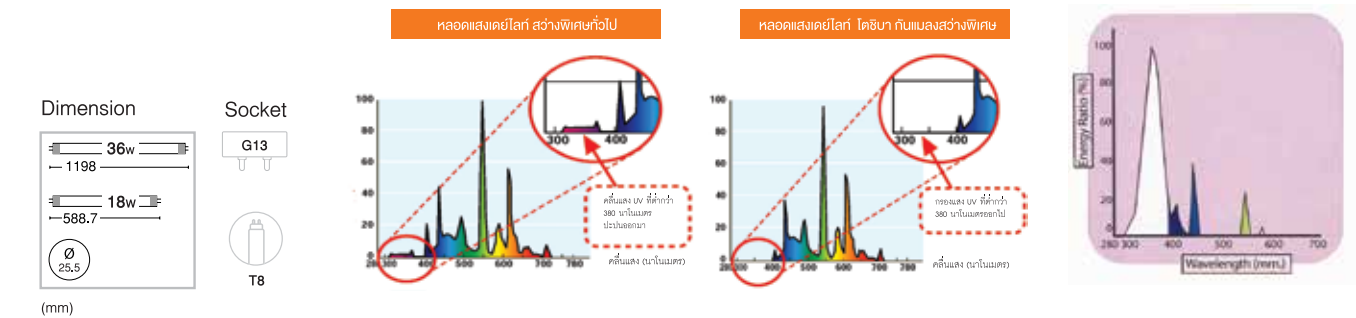
**Specification**

- » Coated with a yellow pigment to cut out wavelengths below 450nm that tend to attract insects. This lamp is ideal for use where insects and pests are undesirable, such as orchards.
- » Last up to 12,000 hrs.

### Black Light Fluorescent

**Specification**

- » This black light lamp emit violet light which attract most nocturnal flying insects such as mole cricket, grasshoppers, crickets and giant water bug.
- » Last up to 5,000 hrs.



Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Insect Repellant							
FL18W/T8/EX-D-MS	18	6,500	1,300	84	72	18,000	30
FL36W/T8/EX-D-MS	36		3,250		90		
Deep Yellow							
FL18W/T8/DY	18	Deep Yellow	-	-	-	12,000	30
FL36W/T8/DY	36						
Black Light Fluorescent							
FL20T8BL/18	18	Black Light	30	3.2	6.0	5,000	25
FL40T8BL/36	36		53				

# Fluorescent Lamps

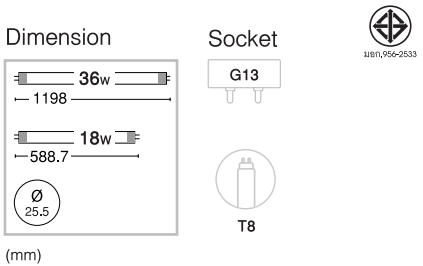
## Special Colors

6 colors variation (Red, Deep red, Blue, Green, Yellow and Deep yellow) provides attractive colorful decoration in shops, restaurants, festivals or special events.

Toshiba utilities in this regard. We focus on the development of color fluorescent to expand happiness, under light more than ever.

## Light & Color

- Red : is a warm and positive color associated with our most physical needs. Red light is widely used to decorate any celebration.
- Deep Red : is more sophisticated and serious and less energetic than red. It indicates controlled power and is often favored by the wealthy.
- Blue : is the color of trust and peace. It can suggest loyalty and integrity as well as conservatism and frigidity.
- Yellow : is the color of the mind and the intellect. It is optimistic and cheerful. However it can also suggest impatience, criticism and cowardice.
- Green : It is the color of natural, makes you open and free. While green light is well shining through the water. It is widely used in the shallow squid fishing.
- Deep Yellow : is the color of the loner with an intense curiosity and interest in investigating the finer details of its interests.



Product Code	Watts	Color	Average Life (hrs.)	Std. Packing
FL Color 18W				
FL18W/T8/DY	18	<div></div> Deep Yellow	12,000	30
FL18W/T8/DR		<div></div> Deep Red		
FL18W/T8/B		<div></div> Blue		
FL18W/T8/RE		<div></div> Red		
FL18W/T8/Y		<div></div> Yellow		
FL18W/T8/G		<div></div> Green		
FL Color 36W				
FL36W/T8/DY	36	<div></div> Deep Yellow	12,000	30
FL36W/T8/DR		<div></div> Deep Red		
FL36W/T8/B		<div></div> Blue		
FL36W/T8/RE		<div></div> Red		
FL36W/T8/Y		<div></div> Yellow		
FL36W/T8/G		<div></div> Green		







# Fluorescent Lamps

## Buddhist Religious Set

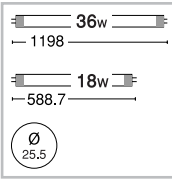
“Offering brightness, Bright up your life”

Toshiba's religious lamp set is used to offering to the monk in any Buddhist ceremony. Regarding to the believe of Buddhism about offering offering lighting things to a monk will return lightness to the life and dispel the misery.

The Toshiba's religious lamp sets are available as a set of 3, 5 and 9 tubes and also has the “All in one set” (The ready set of fluorescent with fixture, ballast and starter). Products come with nice package design and relevant hymns.



Dimension



Socket



(mm)

Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Buddhist Religious lamp sets							
FL18W/T8/D-3M	18	6,500	1,090	70	61	20,000	3
FL18W/T8/D-9M							9
FL36W/T8/D-3M	36		2,690		75		3
FL36W/T8/D-9M							9

## Fluorescent Control Gears Starter

### Specification

- » Strong resin encasement.
- » Perfect electrical insulation.
- » Moisture proof.
- » Heat-resistant.



Product Code	Voltage 50-60 HZ (V)	ชนิดหลอด	กำลังไฟ (Watts)				Std. Packing
FG-UP	220-240	T5	4	6	8	13	25
		T8	10	15	18	36	
		T9	19	38			
		T10	20	40			
		T12	20	40			
		หลอดกลม	22	30	32	40	

# Fluorescent Circline

## Extra

“Coverage all needs colors to fulfill happiness”

The modern round shape of the Toshiba Circline lamps is the basis, for many unique illumination applications. “Circline” is also available as a table lamp or chandelier and it can be used in conjunction with compact fluorescnt lamps as well.

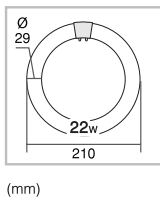
Toshiba's fluorescent lamp has been changed from liquid mercury to “Amalgam” in order to reduce the spread of mercury into the environment. Toshiba also changed from butyl coating to water base coating, which harmful to humans and the environment.



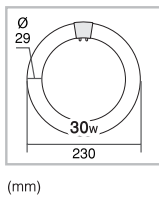
### Specification

- » 25% brighter but small energy consume as usual.
- » Generate light as close natural light with high color accuracy,
- » Ideal for an areas that require extra brightness.
- » Last up to 10,000 hrs.

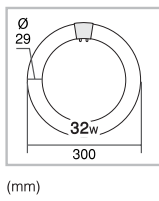
Dimension



Dimension



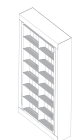
Dimension



Socket



Product Code	Watts	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
FCL 32D/30	32	6,500	1,890	70	59	10,000	20
Circular Fluorescent Extra EXTRA							
FCL 22 EX-D/21	22	6,500	1,220	85	55	10,000	30
FCL 30 EX-D/28	30		2,000		67		20
FCL 32 EX-D/30	32		2,360		74		20







# Compact Fluorescent

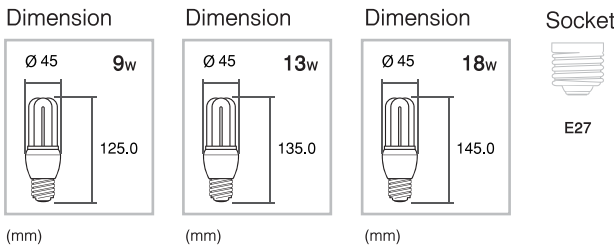
## NEOBALL 3U

### “EFD - they are super star”

The Toshiba's NEOBALL EFD provides high efficacy luminosity than other one on the same series. In advantage, it can save up to 80% energy consume than incandescent lamps and not cause electromagnetic interference during use. This is the super star like no one else.

#### Specification

- » High luminous efficacy.
- » Available in both 11W and 13W with E27 socket.
- » Up to 80% energy saving than incandescent lamps.
- » Last up to 6,000 hrs.
- » Not cause electromagnetic.
- » EMC standard certified.



Product Code	Watts	Replace to (W)	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Daylight								
EFD9D/65-E3U	9	50	6,500	510	84	57	6,000	20
EFD13D/65-E3U	13	70		710		55		
EFD18D/65-E3U	18	100		1,000		56		
Warm White								
EFD9L/27-E3U	9	50	2,700	560	84	62	6,000	20
EFD13L/27-E3U	13	70		810		62		
EFD18L/27-E3U	18	100		1,100		61		

NEOBALL 3U



# Compact Fluorescent

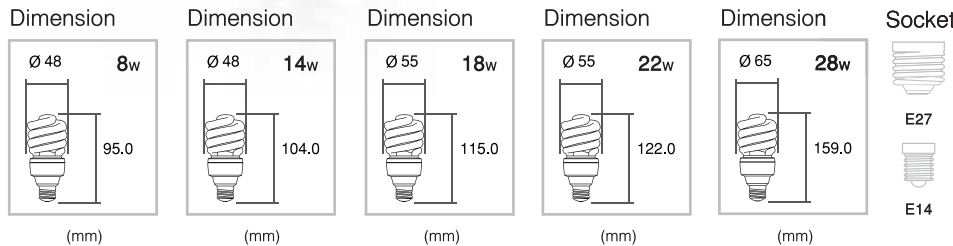
## NEOBALL Twist

### “Twist - compact and stylish”

Compact Fluorescent Lamp “Twist” was named from its shape which sompact and small. It is suitably to plenty type of luminaires such as downlight, table lamps and many more. In davantage, as the shape of twist so it can emit the light as same as other shape which has longer body.

#### Specification

- » High luminous efficiency.
- » E14 socket is available for EFS 8 Watts.
- » Up to 80 % less energy than incandescent lamps.
- » Last up to 6,000 hrs.
- » High efficiency (lumens / Watts).
- » Not cause electromagnetic interference during use.
- » EMC standard certified.



Product Code	Watts	Replace to (W)	Temp. (K)	Flux (lm)	Rendering Index (Ra)	Efficacy (lm/w)	Average Life (hrs.)	Std. Packing
Daylight								
EFS8D/65 (E14, E27)	8	50	6,500	520	84	65	6,000	20
EFS14D/65	14	80		900		64		
EFS18D/65	18	100		1,150		64		
EFS22D/65	22	115		1,380		63		
EFS28D/65	28	135		1,700		61		
Warm White								
EFS8L/27 (E14, E27)	8	50	2,700	570	84	71	6,000	20
EFS14L/27	14	80		1,000		71		
EFS18L/27	18	100		1,290		72		
EFS22L/27	22	115		1,550		74		
EFS28L/27	28	135		1,870		67		

