

# OPPLE



## LED LIGHT SOURCE Catalogue 2016

OPPLE

LED LIGHT SOURCE CATALOGUE

2016

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# LED LIGHT SOURCE



LED EcoMax Bulb



LED EcoMax WV Bulb



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LED Performer Step Dim Bulb



LED Performer Sound Sensor Bulb



LED Performer High Power Bulb



LED EcoMax A90 Bulb (Cone Bulb)



LED Utility Low Bay Lamp



LED Performer C35/F35 Candle



LED EcoMax Filament Candle



LED EcoMax B38 Candle



LED Utility1 Candle



LED EcoMax PAR20/PAR30/PAR38



LED EcoMax R63/R80



LED Utility R63/R80



LED Performer MR16



LED EcoMax GU10/GX5.3 Dim & No-dim



LED EcoMax GU10/GX5.3

# LED LIGHT SOURCE



LED Performer T5 Batten



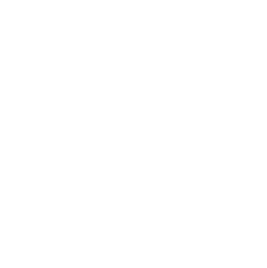
LED EcoMax T5 Batten



LED Utility T5 Batten



LED Performer T8 Batten



LED EcoMax T8 Batten



LED Utility T8 Batten



LED Performer T8 Tube



LED EcoMax T8 Tube



LED Utility T8 Tube



LED Performer Strip



LED EcoMax Strip



LED Utility Strip



LED Utility H Tube Module



LED EcoMax Ceiling Module



## ENERGY SAVING

Energy conservation and climate preservation are key elements of building a progressive and sustainable future. At OPPLE we pay close attention to improving the value of light while reducing the energy it takes to generate it. For us, saving energy is more than a sticker or sales point. It's at the core of our commitment to contributing to a better future for your bank account and our environment. The global switch to LED lighting is expected to be the leading energy saving innovation in the coming decade, make the switch now and save precious resources for both yourself and our planet.

## THE RIGHT LIGHT

Good light isn't one size fits all. We have built a wide product portfolio designed to meet the light and design needs of any space. Light fixtures work as a complete unit and each part contributes to the value of the whole. From the aesthetic details, to the technical features, to the warmth and intensity of the light emitted—every element has been considered to provide impeccable quality, form and function.

The catalogue selections we provide have been curated to offer a diverse and unique, yet essential, array of lighting solutions. Please do not hesitate to contact us with inquiries via our website at [OPPLE.com](https://www.opple.com) or by sending us an email at [GlobalService@OPPLE.com](mailto:GlobalService@OPPLE.com).





LED EcoMax Bulb

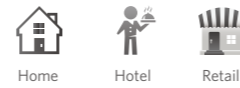
### Features

- Broad range of sizes, wattages and caps
- Long lifespan, install and forget
- Wide light diffusion angle up to 300°
- Energy efficient

### Benefits

- Easily retrofit conventional fixtures with LED
- Lasts 20 times longer than incandescent bulb, up to 20 years lifetime
- Light where you need it
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



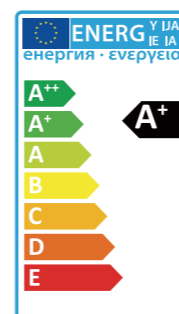
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E1 P45 E14 3W	3	0.5	250	83	24	80	3000K/4000K/6500K	20000	A+
LED E1 P45 E27 3W	3	0.5	250	83	24	80	3000K/4000K/6500K	20000	A+
LED E1 P45 B22 3W	3	0.5	250	83	24	80	3000K/6500K	20000	A+
LED E1 P45 E14 4.5W	4.5	0.5	350	78	33	80	3000K/4000K/6500K	20000	A+
LED E1 P45 E27 4.5W	4.5	0.5	350	78	33	80	3000K/4000K/6500K	20000	A+
LED E1 P45 B22 4.5W	4.5	0.5	350	78	33	80	3000K/6500K	20000	A+
LED E1 A50 E27 5W	5	0.5	400	80	41	80	3000K/4000K/6500K	20000	A+
LED E1 A50 B22 5W	5	0.5	400	80	41	80	3000K/6500K	20000	A+
LED E1 A60 E27 7W	7	0.5	650	93	56	80	3000K/4000K/6500K	20000	A+
LED E1 A60 B22 7W	7	0.5	650	93	56	80	3000K/6500K	20000	A+
LED E1 A60 E27 9W	9	0.5	850	94	65	80	3000K/4000K/6500K	20000	A+
LED E1 A60 B22 9W	9	0.5	850	94	65	80	3000K/6500K	20000	A+
LED E1 A70 E27 12W	12	0.5	1100	92	96	80	3000K/4000K/6500K	20000	A+
LED E1 A70 B22 12W	12	0.5	1100	92	96	80	3000K/6500K	20000	A+
LED E1 A70 E27 14W	14	0.5	1400	100	122	80	3000K/4000K/6500K	20000	A+
LED E1 A70 B22 14W	14	0.5	1400	100	122	80	3000K/6500K	20000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

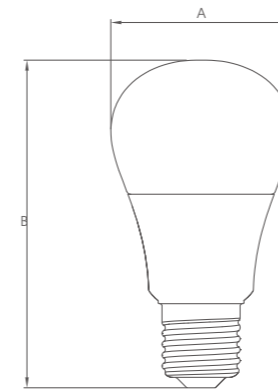
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E1 P45 E14 3.5W	92*47*47	0.07	490*250*110	3.5	50
LED E1 P45 E27 3.5W	92*47*47	0.075	490*250*110	3.75	50
LED E1 P45 B22 3.5W	92*47*47	0.075	490*250*110	3.75	50
LED E1 P45 E14 4.5W	92*47*47	0.09	490*250*110	4.5	50
LED E1 P45 E27 4.5W	92*47*47	0.102	490*250*110	5.1	50
LED E1 P45 B22 4.5W	92*47*47	0.102	490*250*110	5.1	50
LED E1 A50 E27 5W	96*51*51	0.083	530*270*115	4.15	50
LED E1 A50 B22 5W	96*51*51	0.083	530*270*115	4.15	50
LED E1 A60 E27 7W	122*62*62	0.095	640*265*140	3.8	40
LED E1 A60 B22 7W	122*62*62	0.095	640*265*140	3.8	40
LED E1 A60 E27 9W	111*61*61	0.099	630*260*130	3.96	40
LED E1 A60 B22 9W	111*61*61	0.099	630*260*130	3.96	40
LED E1 A70 E27 12W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 B22 12W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 E27 14W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 B22 14W	143*73*73	0.13	750*305*160	5.2	40

### Dimensional Drawing



	P45 E14	P45 E27	P45 B22	A50 E27	A50 B22	A60 E27	A60 B22	A70 E27	A70 B22
A (mm)	Φ46	Φ46	Φ46	Φ50	Φ50	Φ60	Φ60	Φ70	Φ70
B (mm)	91.5	91	89.5	95	93	109	108	130	128.5



LED EcoMax WV Bulb

### Features

- Wide voltage mains input: 100V-240V
- Long lifespan, install and forget
- Energy efficient, up to 100 lm/W
- Energy efficient

### Benefits

- Use in different regions
- Lasts 20 times longer than incandescent bulb, up to 20 years lifetime
- Bright light output
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



Home Hotel Retail

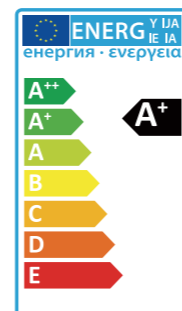
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E1 P45 E14 WV 3W	3	0.5	300	100	25	80	3000K/6500K	25000	A+
LED E1 P45 E27 WV 3W	3	0.5	300	100	25	80	3000K/6500K	25000	A+
LED E1 P45 B22 WV 3W	3	0.5	300	100	25	80	3000K/6500K	25000	A+
LED E1 P45 E14 WV 4.5W	4.5	0.5	400	89	38	80	3000K/6500K	25000	A+
LED E1 P45 E27 WV 4.5W	4.5	0.5	400	89	38	80	3000K/6500K	25000	A+
LED E1 P45 B22 WV 4.5W	4.5	0.5	400	89	38	80	3000K/6500K	25000	A+
LED E1 A60 E27 WV 7W	7	0.9	660	94	51	80	3000K/6500K	25000	A+
LED E1 A60 B22 WV 7W	7	0.9	660	94	51	80	3000K/6500K	25000	A+
LED E1 A60 E27 WV 9W	9	0.9	900	100	65	80	3000K/6500K	25000	A+
LED E1 A60 B22 WV 9W	9	0.9	900	100	65	80	3000K/6500K	25000	A+
LED E1 A70 E27 WV 12W	12	0.9	1200	100	103	80	3000K/6500K	25000	A+
LED E1 A70 B22 WV 12W	12	0.9	1200	100	103	80	3000K/6500K	25000	A+
LED E1 A70 E27 WV 14W	14	0.9	1400	100	103	80	3000K/6500K	25000	A+
LED E1 A70 B22 WV 14W	14	0.9	1400	100	103	80	3000K/6500K	25000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

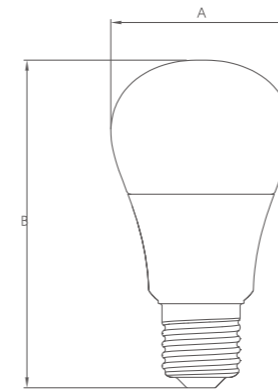
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	100V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E1 P45 E14 WV 3W	92*47*47	0.07	490*250*110	3.5	50
LED E1 P45 E27 WV 3W	92*47*47	0.075	490*250*110	3.75	50
LED E1 P45 B22 WV 3W	92*47*47	0.075	490*250*110	3.75	50
LED E1 P45 E14 WV 4.5W	92*47*47	0.09	490*250*110	4.5	50
LED E1 P45 E27 WV 4.5W	92*47*47	0.102	490*250*110	5.1	50
LED E1 P45 B22 WV 4.5W	92*47*47	0.102	490*250*110	5.1	50
LED E1 A60 E27 WV 7W	122*62*62	0.095	640*265*140	3.8	40
LED E1 A60 B22 WV 7W	122*62*62	0.095	640*265*140	3.8	40
LED E1 A60 E27 WV 9W	122*62*62	0.099	640*265*140	3.96	40
LED E1 A60 B22 WV 9W	122*62*62	0.099	640*265*140	3.96	40
LED E1 A70 E27 WV 12W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 B22 WV 12W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 E27 WV 14W	143*73*73	0.13	750*305*160	5.2	40
LED E1 A70 B22 WV 14W	143*73*73	0.13	750*305*160	5.2	40

### Dimensional Drawing



	P45 E14	P45 E27	P45 B22	A60 E27	A60 B22	A70 E27	A70 B22
A (mm)	Φ46	Φ46	Φ46	Φ60	Φ60	Φ70	Φ70
B (mm)	91.5	91	89.5	109	108	130	128.5



LED EcoMax Bulb Dim

### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E G50 E27 4W Dim	111*52*52	0.0572	368*280*136	1.716	30
LED E G50 E14 4W Dim	111*52*52	0.0544	368*280*136	1.632	30
LED E G50 E27 6W Dim	111*52*52	0.0752	368*280*136	2.256	30
LED E G50 E14 6W Dim	111*52*52	0.0734	368*280*136	2.202	30
LED E2 A50 E27 6.5W Dim	111*52*52	0.083	350*285*140	2.49	30
LED E2 A50 B22 6.5W Dim	111*52*52	0.096	350*285*140	2.88	30
LED E2 A60 E27 9.5W Dim	122*62*62	0.117	410*225*150	3.51	30
LED E2 A60 B22 9.5W Dim	122*62*62	0.12	410*225*150	3.6	30
LED E A70 E27 12W Dim	143*73*73	0.165	480*390*175	4.95	30
LED E A70 B22 12W Dim	143*73*73	0.17	480*390*175	5.1	30

### Features

- Dimmable from 10-100% brightness
- Wide light diffusion angle up to 300°
- Broad range of wattages and caps
- Energy efficient

### Benefits

- Tune light intensity to suit your environment or the time of day
- Light where you need it
- Easily retrofit conventional fixtures with LED
- Up to 80% energy savings compared to incandescent bulb, 35% compared to CFL

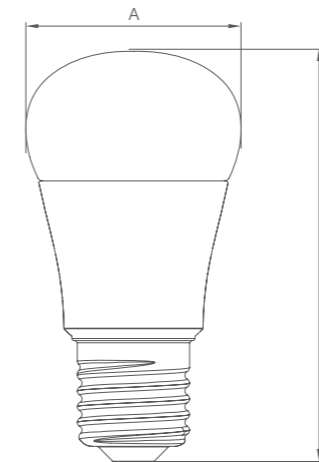
### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E G50 E27 4W Dim	4	0.7	250	63	24	80	2700	15000	A+
LED E G50 E14 4W Dim	4	0.7	250	63	24	80	2700	15000	A+
LED E G50 E27 6W Dim	6	0.7	420	70	32	80	2700	15000	A+
LED E G50 E14 6W Dim	6	0.7	420	70	32	80	2700	15000	A+
LED E2 A50 E27 6.5W Dim	6.5	0.7	470	72	37	80	2700/6500	15000	A+
LED E2 A50 B22 6.5W Dim	6.5	0.7	470	72	37	80	2700/6500	15000	A+
LED E2 A60 E27 9.5W Dim	9.5	0.7	806	85	52	80	2700/6500	15000	A+
LED E2 A60 B22 9.5W Dim	9.5	0.7	806	85	52	80	2700/6500	15000	A+
LED E A70 E27 12W Dim	12	0.7	1055	88	62	80	2700/6500	15000	A+
LED E A70 B22 12W Dim	12	0.7	1055	88	62	80	2700/6500	15000	A+

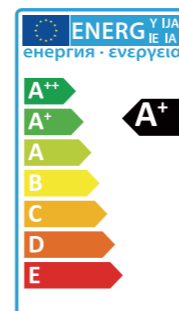
### Dimensional Drawing



	G50 E14	G50 E27	A50 E27	A50 B22	A60 E27	A60 B22	A70 E27	A70 B22
A (mm)	Φ50	Φ50	Φ50	Φ50	Φ60	Φ60	Φ70	Φ70
B (mm)	95	95	95	93	109	107	130	128

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White





LED EcoMax Filament Bulb

### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E A60 E27 4W FILA	120*67*67	0.057	693*357*142	2.85	50
LED E A60 E27 6W FILA	120*67*67	0.057	693*357*142	2.85	50
LED E A60 E27 8W FILA	120*67*67	0.06	693*357*142	3	50

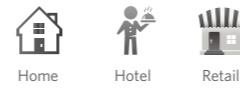
### Features

- Reach same lighting performance as incandescent.
- Above 117lm/W efficiency and 360°beam angle
- Energy efficient

### Benefits

- Could replace incandescent lamps directly
- Light where you need it
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

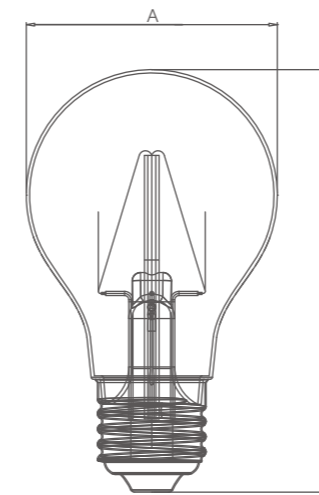
### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E A60 E27 4W FILA	4	0.5	400	100	35	80	2700K	20000	A++
LED E A60 E27 6W FILA	6	0.5	700	117	51	80	2700K	20000	A++
LED E A60 E27 8W FILA	8	0.5	900	113	62	80	2700K	20000	A++

### Dimensional Drawing



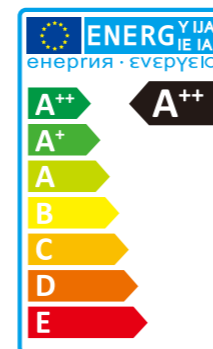
A60 E27	
A (mm)	Φ60
B (mm)	110

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

Mechanical and Finishing Properties	
Optical Material	Glass
Housing Material	Glass
Finishing Colour	Clear







LED Performer Tunable White Bulb

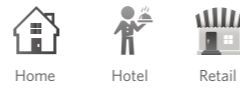
### Features

- Change CCTs from 6000K to 3000K and 4000K by switch on/off
- Long lifespan, install and forget
- Energy efficient

### Benefits

- Easy control by switch and no need any app or remote control.
- Lasts 20 times longer than incandescent bulb, up to 20 years lifetime
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED P A60 E27 7W Tunable White	7	0.5	650	93	51	80	3000K/4000K/6000K	25000	A+
LED P A60 B22 7W Tunable White	7	0.5	650	93	51	80	3000K/4000K/6000K	25000	A+
LED P A60 E27 9W Tunable White	9	0.5	806	90	65	80	3000K/4000K/6000K	25000	A+
LED P A60 B22 9W Tunable White	9	0.5	806	90	65	80	3000K/4000K/6000K	25000	A+

#### Application Conditions

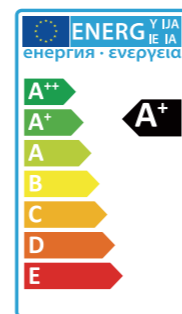
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

#### Electrical supply

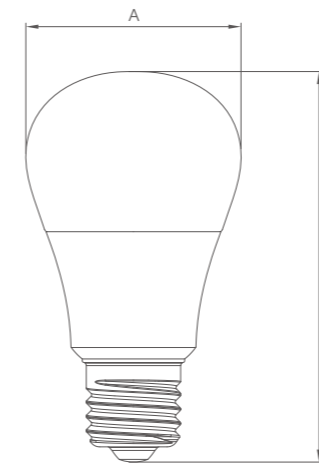
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED P A60 E27 7W TW	122*62*62	0.093	640*265*140	3.72	40
LED P A60 B22 7W TW	122*62*62	0.093	640*265*140	3.72	40
LED P A60 E27 9W TW	122*62*62	0.093	640*265*140	3.72	40
LED P A60 B22 9W TW	122*62*62	0.093	640*265*140	3.72	40

### Dimensional Drawing



	A60 E27	A60 B22
A (mm)	Φ60	Φ60
B (mm)	109	107



## LED Performer Step Dim Bulb

### Features

- Change brightness from 10% to 50% and 100% by switch on/off.
- Long lifespan, install and forget
- Energy efficient

### Benefits

- Easy control by switch and no need any app or dimmer.
- Lasts 20 times longer than incandescent bulb, up to 20 years lifetime
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED P A60 E27 7W Step Dim	7	0.5	650/325/65	93	51	80	3000K/6000K	25000	A+
LED P A60 B22 7W Step Dim	7	0.5	650/325/65	93	51	80	3000K/6000K	25000	A+
LED P A60 E27 9W Step Dim	9	0.5	806/403/80	90	65	80	3000K/6000K	25000	A+
LED P A60 B22 9W Step Dim	9	0.5	806/403/80	90	65	80	3000K/6000K	25000	A+
LED P A70 E27 12W Step Dim	12	0.5	1100/550/110	92	103	80	3000K/6000K	25000	A+
LED P A70 B22 12W Step Dim	12	0.5	1100/550/110	92	103	80	3000K/6000K	25000	A+

#### Application Conditions

IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

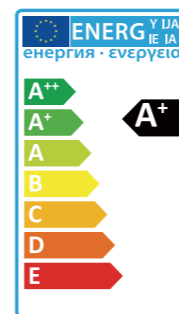
#### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

#### Electrical supply

Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

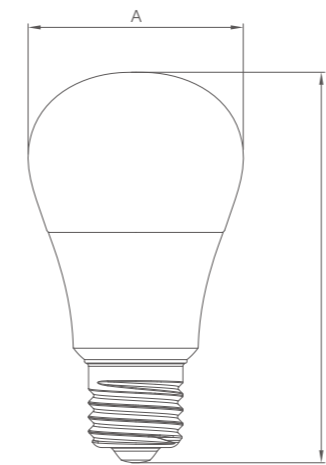
CE CB



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED P A60 E27 7W Step Dim	122*62*62	0.099	640*265*140	3.96	40
LED P A60 B22 7W Step Dim	122*62*62	0.099	640*265*140	3.96	40
LED P A60 E27 9W Step Dim	122*62*62	0.099	640*265*140	3.96	40
LED P A60 B22 9W Step Dim	122*62*62	0.099	640*265*140	3.96	40
LED P A70 E27 12W Step Dim	143*73*73	0.13	750*305*160	5.2	40
LED P A70 B22 12W Step Dim	143*73*73	0.13	750*305*160	5.2	40

### Dimensional Drawing



	A60 E27	A60 B22	A70 E27	A70 B22
A (mm)	Φ60	Φ60	Φ70	Φ70
B (mm)	109	108	130	128.5



LED Performer Sound Sensor Bulb

### Features

- Sensor bulb internal integrated illumination and sound sensors
- Will turn on 60s when illuminance below 15Lux and sound over than 75dB at the same time.
- Energy efficient

### Benefits

- Easy installation and no need any sensor socket or switch
- Quickly response and automatically turn on and turn off
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



### Specification

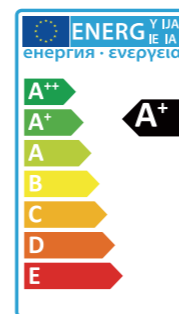
Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED P A50 E27 4W Sound Sensor	4	0.5	300	75	31	80	6500K	25000	A+
LED P A50 B22 4W Sound Sensor	4	0.5	300	75	31	80	6500K	25000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

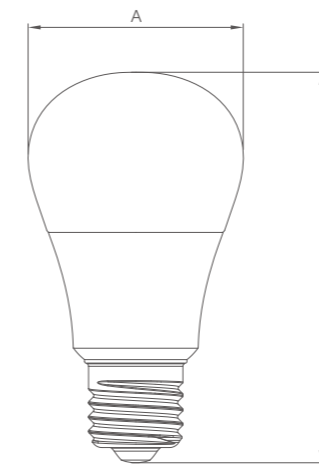
CE CB



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED P A50 E27 4W Sound Sensor	96*61*51	0.063	530*270*115	3.15	50
LED P A50 B22 4W Sound Sensor	96*61*51	0.063	530*270*115	3.15	50

### Dimensional Drawing



	A50 E27	A50 B22
A (mm)	Φ50	Φ50
B (mm)	95	93



## LED Performer High Power Bulb

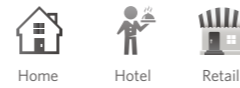
### Features

- High lumen output up to 100lm/W
- Better design and keep the heat off
- Energy efficient

### Benefits

- Easy replace 50-150W HID
- 2.5 times lifetime longer than HID
- Up to 44% energy savings compared to HID

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED P HPB E27 28W	28	0.9	2800	100	70°/140°	80	5700K	25000	A+
LED P HPB E27 40W	40	0.9	4000	100	70°/140°	80	5700K	25000	A+
LED P HPB E40 70W	70	0.9	7000	100	70°/140°	80	5700K	25000	A+
LED P HPB E40 90W	90	0.9	9000	100	70°/140°	80	5700K	25000	A+

#### Application Conditions

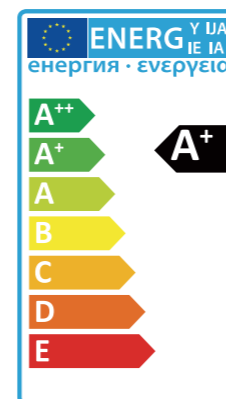
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

#### Electrical supply

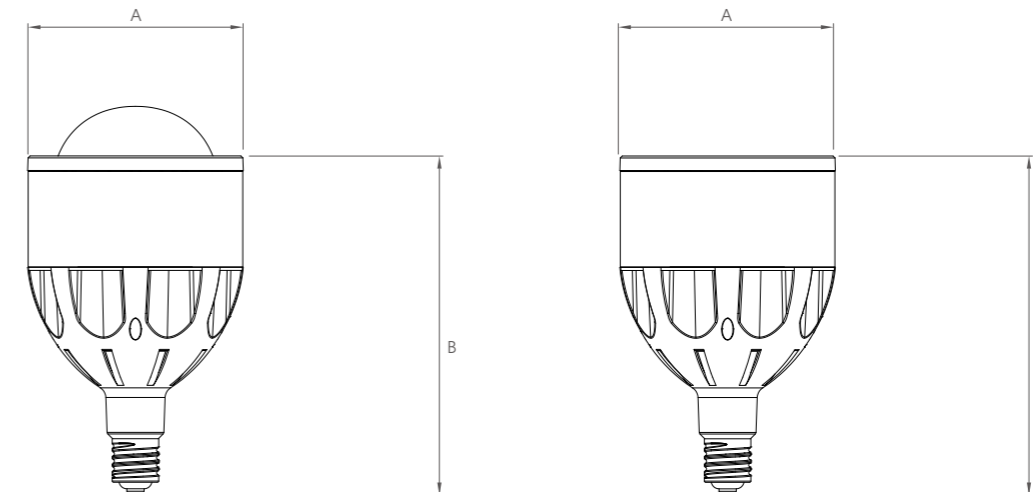
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED P HPB E27 28W 70D	224*224*271	1.176	690*465*290	7.056	6
LED P HPB E27 28W 140D	224*224*313	1.183	690*465*330	7.098	6
LED P HPB E27 40W 70D	224*224*271	1.176	690*465*290	7.056	6
LED P HPB E27 40W 140D	224*224*313	1.186	690*465*330	7.116	6
LED P HPB E40 70W 70D	224*224*286	1.684	750*500*305	10.104	6
LED P HPB E40 70W 140D	224*224*368	1.764	750*500*385	10.584	6
LED P HPB E40 90W 70D	224*224*361	2.161	750*500*380	12.966	6
LED P HPB E40 90W 140D	224*224*403	2.199	750*500*420	13.194	6

### Dimensional Drawing



	28W/40W 70°	28W/40W 70°	70W 70°	70W 140°	70W 140°	90W 70°
A (mm)	Φ60	Φ60	Φ60	Φ60	Φ60	Φ60
B (mm)	109	107	107	109	107	107





LED EcoMax A90 Bulb (Cone Bulb)

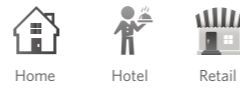
### Features

- High lumen output up to 100lm/W
- 270° wide beam angle produces balanced light
- Energy efficient

### Benefits

- Easy replace 50W CFL
- Bring soft ambient light when used to replace CFL
- Up to 50% energy savings compared to CFL

### Application



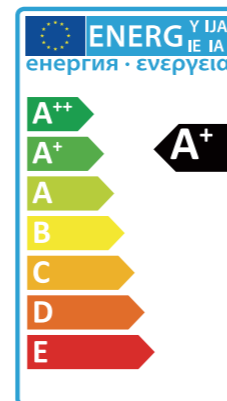
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E A90 E27 25W	25	0.5	2500	100	270°	75	6500K	20000	A+
LED E A90 B22 25W	25	0.5	2500	100	270°	75	6500K	20000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

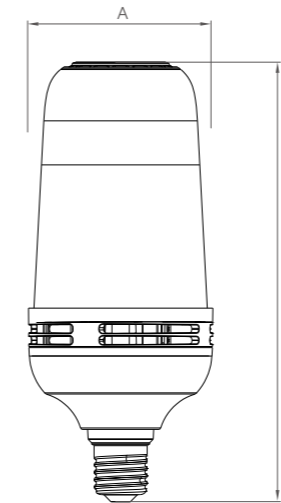
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E A90 E27 25W	94*94*240	0.454	0.454	9.08	20
LED E A90 B22 25W	94*94*240	0.454	0.454	9.08	20

### Dimensional Drawing



25W	
A (mm)	Φ91
B (mm)	216



LED Utility Low Bay Lamp

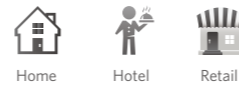
### Features

- High lumen output
- Unique design
- Energy efficient

### Benefits

- To easily replace 35-65W CFL
- Fashion and durable
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED U LBL E27 18W	18	0.5	1600	89	160	80	3000K/6500K	20000	A+
LED U LBL E27 20W	20	0.5	1700	85	160	80	3000K/6500K	20000	A+
LED U LBL E27 22W	22	0.5	2200	100	220	80	3000K/6500K	20000	A+
LED U LBL E27 32W	32	0.5	3200	100	280	80	3000K/6500K	20000	A+

#### Application Conditions

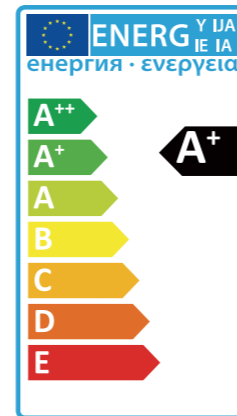
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

#### Electrical supply

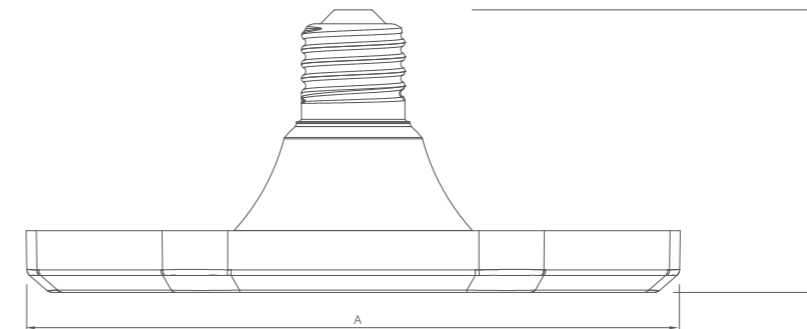
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED U LBL E27 18W	168*150*77	0.222	465*350*415	6.66	30
LED U LBL E27 20W	168*150*77	0.222	465*350*415	6.66	30
LED U LBL E27 22W	168*150*77	0.228	465*350*415	6.84	30
LED U LBL E27 32W	290*265*142	0.57	595*445*280	3.42	6

### Dimensional Drawing



	LBL 18/20/22W	LBL 32W
A (mm)	Φ164	Φ280
B (mm)	73	126



LED Performer C35/F35 Candle

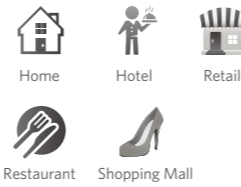
### Features

- High lumen output up to 350lm
- Gold and silver color options
- Long lifespan, install and forget
- Energy efficient

### Benefits

- Enhanced beautiful sparkling effect
- Easily match fixture color
- Lasts 20 times longer than incandescent candle, up to 20 years lifetime
- Up to 85% energy savings compared to incandescent candle

### Application



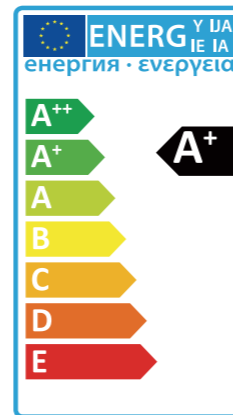
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level	Finishing Colour	Tail Shape
LED P C35 E14 4.5W G	4.5	0.50	400	89	35	270	80	2700	20000	A+	Golden	Bubble
LED P C35 E14 4.5W S	4.5	0.50	400	89	35	270	80	2700	20000	A+	Silver	Bubble
LED P F35 E14 4.5W G	4.5	0.50	400	89	35	270	80	2700	20000	A+	Golden	Flame
LED P F35 E14 4.5W S	4.5	0.50	400	89	35	270	80	2700	20000	A+	Silver	Flame

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	Plastic + Aluminum
Finishing Colour	Golden/Silver

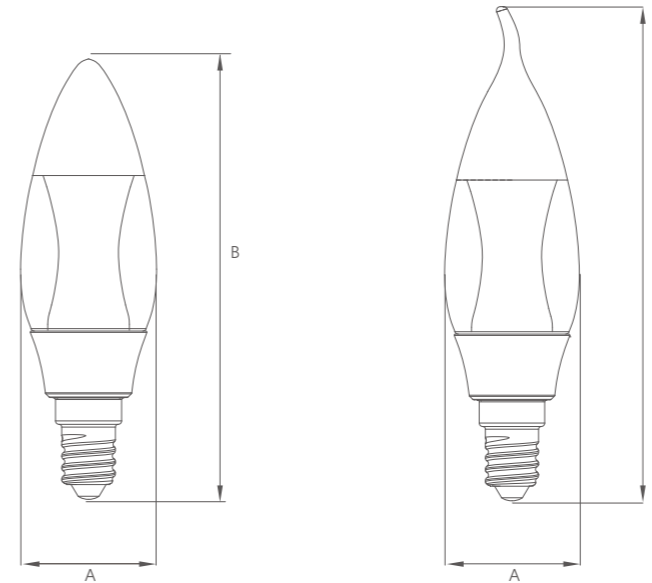
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED P C35 E14 4.5W G	140x37x37	0.063	385x160x160	2.52	40
LED P C35 E14 4.5W S	140x37x37	0.063	385x160x160	2.52	40
LED P F35 E14 4.5W G	140x37x37	0.063	385x160x160	2.52	40
LED P F35 E14 4.5W S	140x37x37	0.063	385x160x160	2.52	40

### Dimensional Drawing



	C35	F35
A (mm)	Φ35	Φ35
B (mm)	114	129



## LED EcoMax Filament Candle

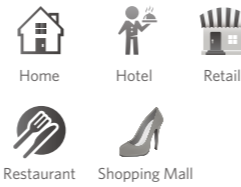
### Features

- Reach same lighting performance as incandescent.
- Above 125lm/W efficiency and 360°beam angle
- Energy efficient

### Benefits

- Could replace incandescent lamps directly
- Light where you need it
- Up to 85% energy savings compared to incandescent bulb, 40% compared to CFL

### Application



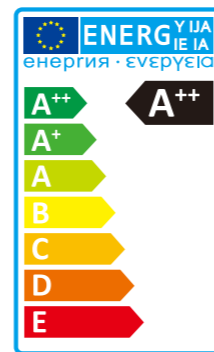
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E C35 E14 2W FILA	2	0.50	250	125	20	80	2700	20000	A++
LED E F35 E14 2W FILA	2	0.50	250	125	20	80	2700	20000	A++
LED E C35 E14 4W FILA	4	0.50	400	100	35	80	2700	20000	A++
LED E F35 E14 4W FILA	4	0.50	400	100	35	80	2700	20000	A++

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	Glass
Housing Material	Glass
Finishing Colour	Clear

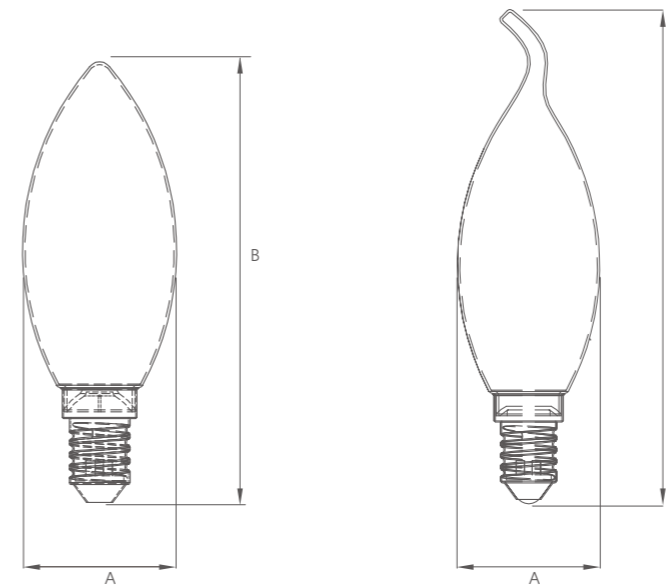
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E C35 E14 2W FILA	114*40*40	0.026	415*220*134	1.3	50
LED E F35 E14 2W FILA	141*40*40	0.026	415*220*160	1.3	50
LED E C35 E14 4W FILA	114*40*40	0.027	415*220*134	1.35	50
LED E F35 E14 4W FILA	141*40*40	0.027	415*220*160	1.35	50

### Dimensional Drawing



	C35 E14	F35 E14
A (mm)	Φ35	Φ35
B (mm)	100	120





LED EcoMax B38 Candle

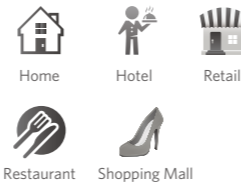
### Features

- Dimmable from 10-100% brightness
- Wide light diffusion angle up to 300°
- Energy efficient

### Benefits

- Tune light intensity to suit your environment or the time of day
- Light where you need it
- Up to 80% energy savings compared to incandescent bulb, 35% compared to CFL

### Application



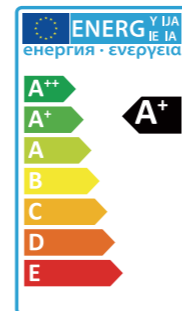
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED E B38 E14 3.5W	3.5	0.5	250	71	30	80	2700	15000	A+
LED E B38 E14 6.5W	6.5	0.5	470	72	56	80	2700	15000	A+
LED E B38 E14 4W Dim	4	0.7	250	63	24	80	2700	15000	A+
LED E B38 E14 6W Dim	6	0.7	420	70	32	80	2700	15000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT + Aluminum
Finishing Colour	White

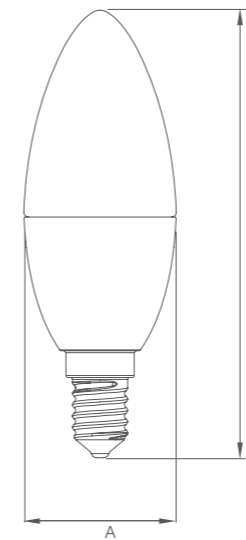
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED E B38 E14 3.5W	126*42*42	0.0492	225*133*92	1.476	30
LED E B38 E14 6.5W	126*42*42	0.0802	225*133*92	2.406	30
LED E B38 E14 4W Dim	126*42*42	0.0514	225*133*92	1.542	30
LED E B38 E14 6W Dim	126*42*42	0.0802	225*133*92	2.406	30

### Dimensional Drawing



	B38
A (mm)	Φ38
B (mm)	112



LED Utility1 Candle

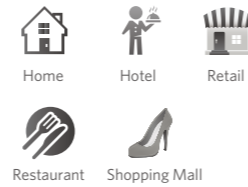
### Features

- Light emitted through prism lens
- Gold and silver color options
- Energy efficient

### Benefits

- Ideal for use in chandeliers, produces beautiful sparkling effect
- Easily match fixture color
- Up to 85% energy savings compared to incandescent candle

### Application



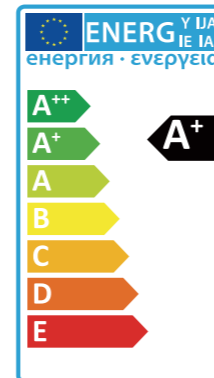
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input current (mA)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level	Finishing Colour	Tail Shape
LED U1 C35 E14 3W G	3	0.5	220	73	25	290°	80	2700K/4000K/6500K	15000	A+	Golden	Bubble
LED U1 C35 E14 3W S	3	0.5	220	73	25	290°	80	2700K/4000K/6500K	15000	A+	Silver	Bubble
LED U1 F35 E14 3W G	3	0.5	220	73	25	290°	80	2700K/4000K/6500K	15000	A+	Golden	Flame
LED U1 F35 E14 3W S	3	0.5	220	73	25	290°	80	2700K/4000K/6500K	15000	A+	Silver	Flame
LED U1 C35 E14 4.5W G	4.5	0.5	350	78	35	290°	80	2700K/4000K/6500K	15000	A+	Golden	Bubble
LED U1 C35 E14 4.5W S	4.5	0.5	350	78	35	290°	80	2700K/4000K/6500K	15000	A+	Silver	Bubble
LED U1 F35 E14 4.5W G	4.5	0.5	350	78	35	290°	80	2700K/4000K/6500K	15000	A+	Golden	Flame
LED U1 F35 E14 4.5W S	4.5	0.5	350	78	35	290°	80	2700K/4000K/6500K	15000	A+	Silver	Flame

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT
Finishing Colour	Golden / Silver

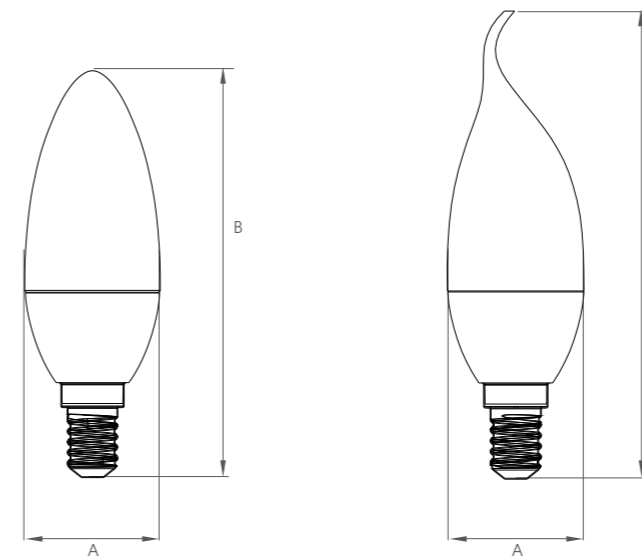
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



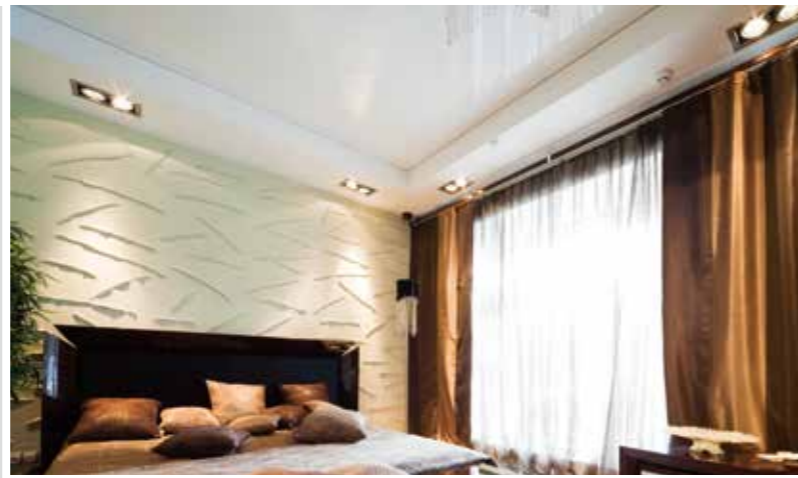
### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED U1 C35 E14 3W G	111*38*38	0.051	400*205*130	2.55	50
LED U1 C35 E14 3W S	111*38*38	0.051	400*205*130	2.55	50
LED U1 F35 E14 3W G	142*38*38	0.052	400*205*160	2.6	50
LED U1 F35 E14 3W S	142*38*38	0.052	400*205*160	2.6	50
LED U1 C35 E14 4.5W G	111*38*38	0.052	400*205*130	2.6	50
LED U1 C35 E14 4.5W S	111*38*38	0.052	400*205*130	2.6	50
LED U1 F35 E14 4.5W G	142*38*38	0.057	400*205*160	2.85	50
LED U1 F35 E14 4.5W S	142*38*38	0.057	400*205*160	2.85	50

### Dimensional Drawing



	F35	C35
A (mm)	Φ35.5	Φ35.5
B (mm)	130	110



LED EcoMax PAR20/PAR30/PAR38

### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-PAR20-8W-50-WV-830	93x72x72	0.150	305x380x380	14.50	75
LED-PAR20-8W-50-WV-840	93x72x72	0.150	305x380x380	14.50	75
LED-PAR20-8W-50-WV-860	93x72x72	0.150	305x380x380	14.50	75
LED-PAR30-15W-75-WV-830	110x105x105	0.250	355x438x438	15.50	48
LED-PAR30-15W-75-WV-840	110x105x105	0.250	355x438x438	15.50	48
LED-PAR30-15W-75-WV-860	110x105x105	0.250	355x438x438	15.50	48
LED-PAR38-24W-100-WV-830	150x130x130	0.520	320x406x406	12.50	18
LED-PAR38-24W-100-WV-840	150x130x130	0.520	320x406x406	12.50	18
LED-PAR38-24W-100-WV-860	150x130x130	0.520	320x406x406	12.50	18

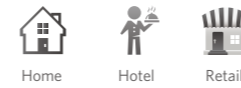
### Features

- Wide voltage mains input
- Optimized lens design
- High power factor of 0.8
- Energy efficient

### Benefits

- Use in different regions
- Focused beam tailored for accent lighting in track spotlight, grille spotlight, and downlight
- Government subsidies, reduced utility fees
- Up to 80% energy savings compared to halogen PAR lamp

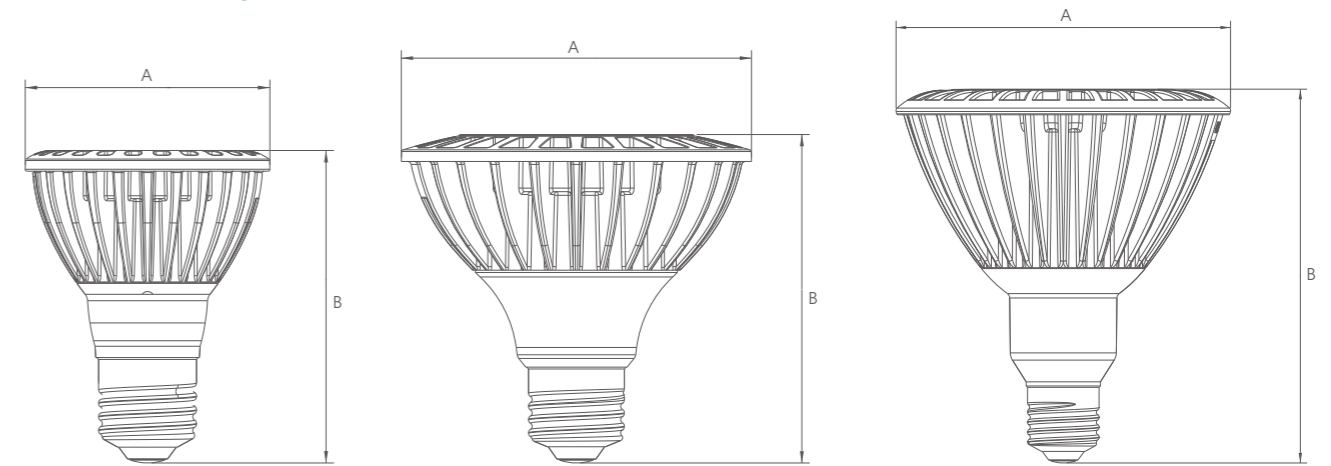
### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	CRI	CCT (K)	CBCP (cd)	Average Lifetime(hrs)	Energy Level
LED-PAR20-8W-50-WV-830	8	0.8	480	60	25	80	3000	1050	20000	A
LED-PAR20-8W-50-WV-840	8	0.8	480	60	25	80	4000	1050	20000	A
LED-PAR20-8W-50-WV-860	8	0.8	480	60	25	75	6000	1050	20000	A
LED-PAR30-15W-75-WV-830	15	0.8	900	60	25	80	3000	3700	20000	A
LED-PAR30-15W-75-WV-840	15	0.8	900	60	25	80	4000	3700	20000	A
LED-PAR30-15W-75-WV-860	15	0.8	900	60	25	75	6000	3700	20000	A
LED-PAR38-24W-100-WV-830	24	0.8	1680	70	25	80	3000	9100	20000	A
LED-PAR38-24W-100-WV-840	24	0.8	1680	70	25	80	4000	9100	20000	A
LED-PAR38-24W-100-WV-860	24	0.8	1680	70	25	75	6000	9100	20000	A

### Dimensional Drawing



	PAR20	PAR30	PAR38
A (mm)	Φ65	Φ95	Φ122
B (mm)	83	88.8	136

### Application Conditions

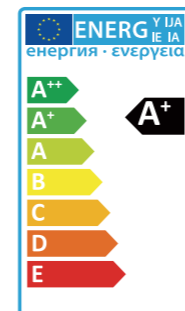
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

### Mechanical and Finishing Properties

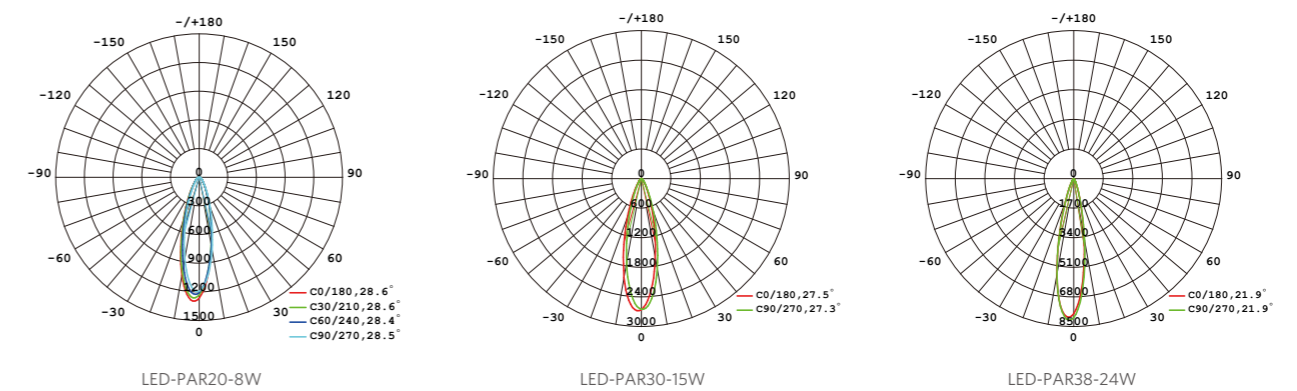
Optical Material	PC
Housing Material	Aluminum
Finishing Colour	White

### Electrical supply

Frequency (Hz)	50/60Hz
Voltage (V)	100V-240V
AC/DC	AC



### Light Distribution





LED EcoMax R63/R80

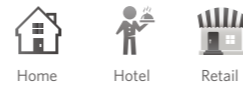
### Features

- High Lumen Output
- Perfect Optical Design
- Energy efficient

### Benefits

- Up to 750lm for R63 and 1050lm for R80
- An optimized optical design allows use in downlights without reflectors
- Up to 80% energy savings compared to halogen R63/R80

### Application



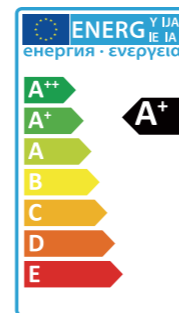
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E-R63-E27-9W-3000K-CT	9	0.5	700	78	80	3000	20000	A+
LED-E-R63-E27-9W-6000K-CT	9	0.5	750	83	80	6000	20000	A+
LED-E-R80-E27-12W-3000K-CT	12	0.5	950	79	80	3000	20000	A+
LED-E-R80-E27-12W-6000K-CT	12	0.5	1050	88	80	6000	20000	A+

Application Conditions	
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PBT+Aluminum
Finishing Colour	White

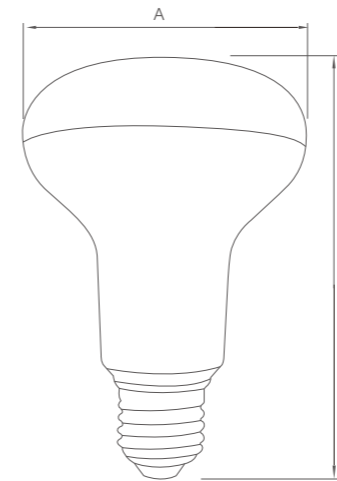
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

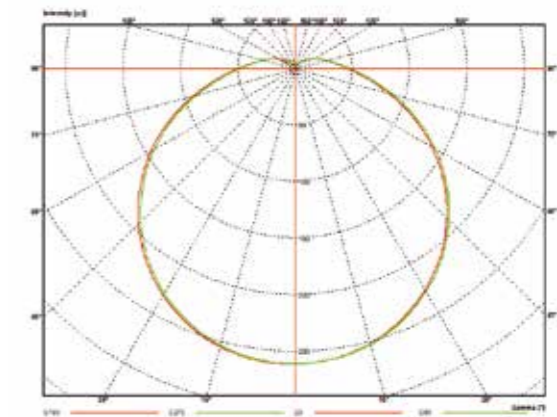
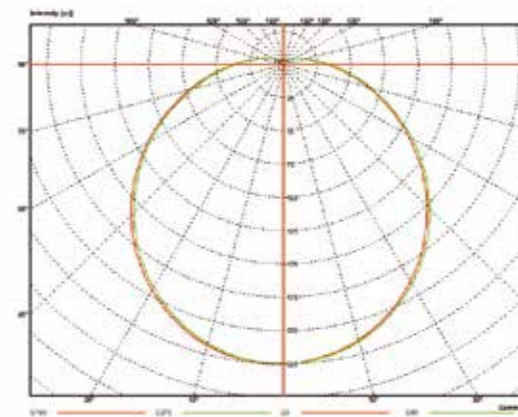
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E-R63-E27-9W-3000K-CT	66x66x123	0.081	350x350x270	0.091	50
LED-E-R63-E27-9W-6000K-CT	66x66x123	0.081	350x350x270	0.091	50
LED-E-R80-E27-12W-3000K-CT	83x83x136	0.137	440x440x295	0.147	50
LED-E-R80-E27-12W-6000K-CT	83x83x136	0.137	440x440x295	0.147	50

### Dimensional Drawing



	R63	R80
A (mm)	Φ63	Φ80
B (mm)	104	117

### Light Distribution







LED Utility R63/R80

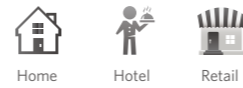
### Features

- Crystal glass cover with integrated reflector
- Two size choices
- Energy efficient

### Benefits

- Focused beam tailored for accent lighting, allows use in downlights without reflectors
- Easily retrofit conventional fixtures with LED
- Up to 80% energy savings compared to halogen R63/R80

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-RF-R63-E27-HV-4.5W-30-830-60°	4.5	0.5	330	73	60	80	3000	20000	A+
LED-RF-R63-E27-HV-4.5W-30-860-60°	4.5	0.5	330	73	60	80	6000	20000	A+
LED-RF-R80-E27-HV-6W-40-830-60°	6	0.5	450	75	60	80	3000	20000	A+
LED-RF-R80-E27-HV-6W-40-860-60°	6	0.5	450	75	60	80	6000	20000	A+

#### Application Conditions

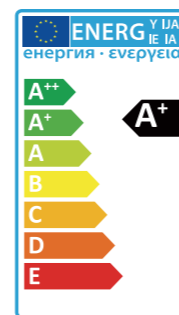
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	Glass
Housing Material	PBT+Aluminum
Finishing Colour	Silver

#### Electrical supply

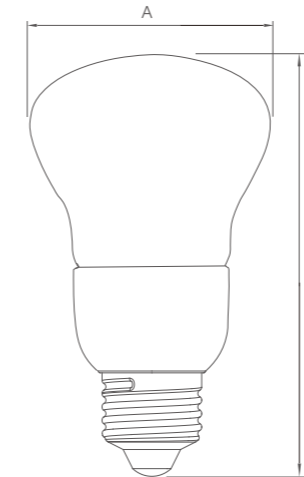
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

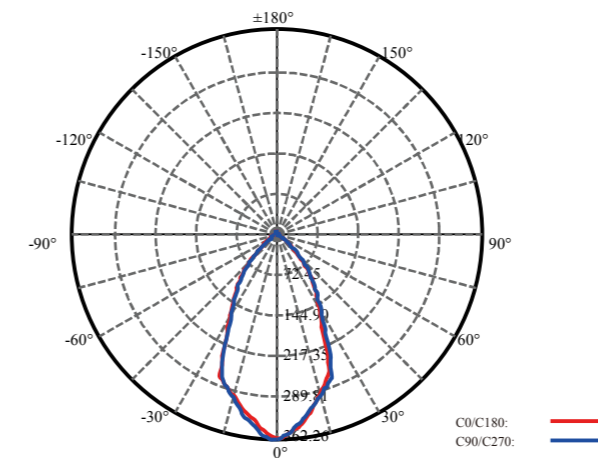
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-RF-R63-E27-HV-4.5W-30-830-60°	136x67x67	0.180	295x360x360	9.00	50
LED-RF-R63-E27-HV-4.5W-30-860-60°	136x67x67	0.180	295x360x360	9.00	50
LED-RF-R80-E27-HV-6W-40-830-60°	148x87x87	0.210	315x460x460	10.50	50
LED-RF-R80-E27-HV-6W-40-860-60°	148x87x87	0.210	315x460x460	10.50	50

### Dimensional Drawing



	R63	R80
A (mm)	Φ63	Φ80
B (mm)	113	123

### Light Distribution





## LED Performer MR16

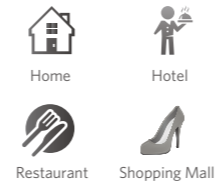
### Features

- Unique design, recipient of iF Product Design Award
- Optimized lens design
- Long lifespan, install and forget
- Energy efficient

### Benefits

- Easily identify color temperature based on housing color
- Focused beam tailored for accent lighting in track spotlight, grille spotlight, and downlight
- Lasts 20 times longer than halogen MR16, up to 20 years lifetime
- Up to 85% energy savings compared to halogen MR16

### Application



### Specification

Product Description	Voltage (V)	Power (W)	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	Central Intensity (cd)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
MR16 GU5.3 AC/DC12 3W-20 827-24°	AC/DC 12	3	200	67	24	1100	80	2700	30000	A+
MR16 GU5.3 AC/DC12 3W-20 840-24°	AC/DC 12	3	230	77	24	1300	80	4000	30000	A+
MR16 GU5.3 AC/DC12 3W-20 857-24°	AC/DC 12	3	240	80	24	1350	80	5700	30000	A+
MR16 GU5.3 AC/DC12 4W-35 827-24°	AC/DC 12	4	300	75	24	1700	80	2700	30000	A+
MR16 GU5.3 AC/DC12 4W-35 840-24°	AC/DC 12	4	330	83	24	2000	80	4000	30000	A+
MR16 GU5.3 AC/DC12 4W-35 857-24°	AC/DC 12	4	340	85	24	2150	80	5700	30000	A+
MR16 GU5.3 AC/DC12 5W-50 827-24°	AC/DC 12	5	340	68	24	2000	80	2700	30000	A+
MR16 GU5.3 AC/DC12 5W-50 840-24°	AC/DC 12	5	380	76	24	2400	80	4000	30000	A+
MR16 GU5.3 AC/DC12 5W-50 857-24°	AC/DC 12	5	400	80	24	2450	80	5700	30000	A+

#### Application Conditions

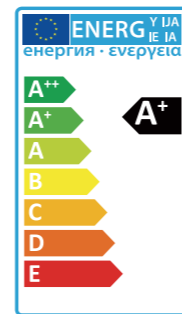
IP	20
Operating Temperature	-20-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Electrical supply

Frequency (Hz)	/
Voltage (V)	12V
AC/DC	AC/DC

#### Mechanical and Finishing Properties

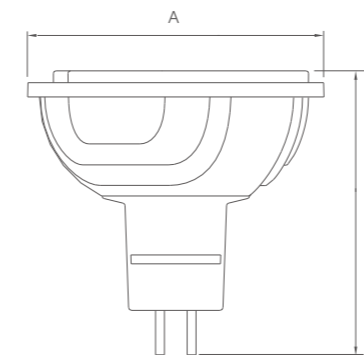
Optical Material	PMMA
Housing Material	Aluminium
Finishing Colour	Black
Ring Colour	Gold (2700K)/Silver (4000K) /White (5700K)



### Packaging Information

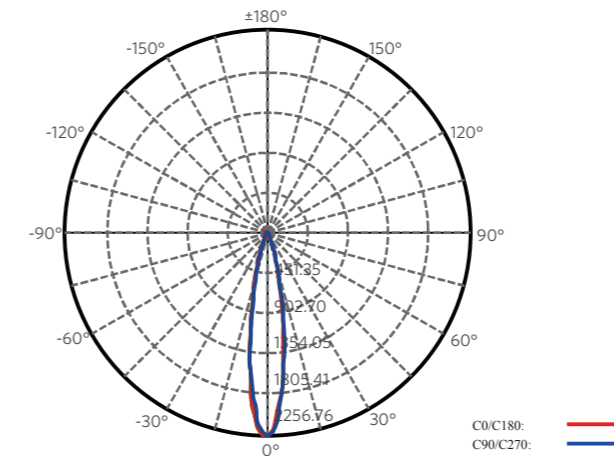
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
MR16 GU5.3 AC/DC12 3W-20 827-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 3W-20 840-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 3W-20 857-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 4W-35 827-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 4W-35 840-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 4W-35 857-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 5W-50 827-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 5W-50 840-24°	60x49x49	0.085	270x220x140	3.40	40
MR16 GU5.3 AC/DC12 5W-50 857-24°	60x49x49	0.085	270x220x140	3.40	40

### Dimensional Drawing



	3W	4W	5W
A (mm)	50	50	50
B (mm)	48	48	48

### Light Distribution





LED EcoMax GU10/GX5.3 Dim & No-dim

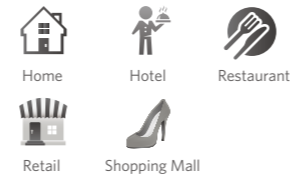
### Features

- Dimmable from 10-100% brightness
- Single lens and advanced COB LED chip technology
- Patent housing design
- Energy efficient

### Benefits

- Tune light intensity to suit your environment or the time of day
- Closely resembles look and feel of halogen spot
- Allowing for optimal dissipation of heat which reduces the temperature inside the lamp and ensure an ultra-long lifespan.
- Up to 85% energy savings compared to halogen GU10

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E1-GU10-7W-Dim-COB-2700K-36D-CT	7	0.5	450	64	36°	34	80	2700K	20000	A+
LED-E1-GU10-7W-Dim-COB-5700K-36D-CT	7	0.5	470	67	36°	34	80	5700K	20000	A+
LED-E1-GU10-7W-Dim-COB-2700K-24D-CT	7	0.5	450	64	24°	34	80	2700K	20000	A+
LED-E1-GU10-7W-Dim-COB-5700K-24D-CT	7	0.5	470	67	24°	34	80	5700K	20000	A+
LED-E1-GU10-5W-Dim-COB-2700K-36D-CT	5	0.5	350	70	36°	30	80	2700K	20000	A+
LED-E1-GU10-5W-Dim-COB-5700K-36D-CT	5	0.5	370	74	36°	30	80	5700K	20000	A+
LED-E1-GU10-5W-Dim-COB-2700K-24D-CT	5	0.5	350	70	24°	30	80	2700K	20000	A+
LED-E1-GU10-5W-Dim-COB-5700K-24D-CT	5	0.5	370	74	24°	30	80	5700K	20000	A+
LED-E1-GU10-7W-COB-2700K-36D-CT	7	0.5	450	64	36°	53	80	2700K	20000	A+
LED-E1-GU10-7W-COB-5700K-36D-CT	7	0.5	470	67	36°	53	80	5700K	20000	A+
LED-E1-GU10-7W-COB-2700K-24D-CT	7	0.5	450	64	24°	53	80	2700K	20000	A+
LED-E1-GU10-7W-COB-5700K-24D-CT	7	0.5	470	67	24°	53	80	5700K	20000	A+
LED-E1-GU10-5W-COB-2700K-36D-CT	5	0.5	350	70	36°	44	80	2700K	20000	A+
LED-E1-GU10-5W-COB-5700K-36D-CT	5	0.5	370	74	36°	44	80	5700K	20000	A+
LED-E1-GU10-5W-COB-2700K-24D-CT	5	0.5	350	70	24°	44	80	2700K	20000	A+
LED-E1-GU10-5W-COB-5700K-24D-CT	5	0.5	370	74	24°	44	80	5700K	20000	A+
LED-E1-GX5.3-7W-Dim-COB-2700K-36D-CT	7	0.5	450	64	36°	34	80	2700K	20000	A+
LED-E1-GX5.3-7W-Dim-COB-5700K-36D-CT	7	0.5	470	67	36°	34	80	5700K	20000	A+

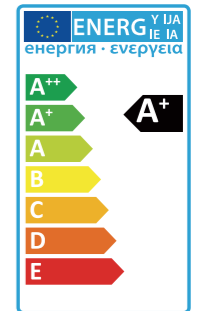
Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	Input current (mA)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E1-GX5.3-7W-Dim-COB-2700K-24D-CT	7	0.5	450	64	24°	34	80	2700K	20000	A+
LED-E1-GX5.3-7W-Dim-COB-5700K-24D-CT	7	0.5	470	67	24°	34	80	5700K	20000	A+
LED-E1-GX5.3-5W-Dim-COB-2700K-36D-CT	5	0.5	350	70	36°	30	80	2700K	20000	A+
LED-E1-GX5.3-5W-Dim-COB-5700K-36D-CT	5	0.5	370	74	36°	30	80	5700K	20000	A+
LED-E1-GX5.3-5W-Dim-COB-2700K-24D-CT	5	0.5	350	70	24°	30	80	2700K	20000	A+
LED-E1-GX5.3-5W-Dim-COB-5700K-24D-CT	5	0.5	370	74	24°	30	80	5700K	20000	A+
LED-E1-GX5.3-7W-COB-2700K-36D-CT	7	0.5	450	64	36°	53	80	2700K	20000	A+
LED-E1-GX5.3-7W-COB-5700K-36D-CT	7	0.5	470	67	36°	53	80	5700K	20000	A+
LED-E1-GX5.3-7W-COB-2700K-24D-CT	7	0.5	450	64	24°	53	80	2700K	20000	A+
LED-E1-GX5.3-7W-COB-5700K-24D-CT	7	0.5	470	67	24°	53	80	5700K	20000	A+
LED-E1-GX5.3-5W-COB-2700K-36D-CT	5	0.5	350	70	36°	44	80	2700K	20000	A+
LED-E1-GX5.3-5W-COB-5700K-36D-CT	5	0.5	370	74	36°	44	80	5700K	20000	A+
LED-E1-GX5.3-5W-COB-2700K-24D-CT	5	0.5	350	70	24°	44	80	2700K	20000	A+
LED-E1-GX5.3-5W-COB-5700K-24D-CT	5	0.5	370	74	24°	44	80	5700K	20000	A+

Application Conditions	
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220-240V
AC/DC	AC

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	5W PBT + Aluminum
	7W Thermal conductive plastic +Aluminum
Finishing Colour	Gray



### Packaging Information

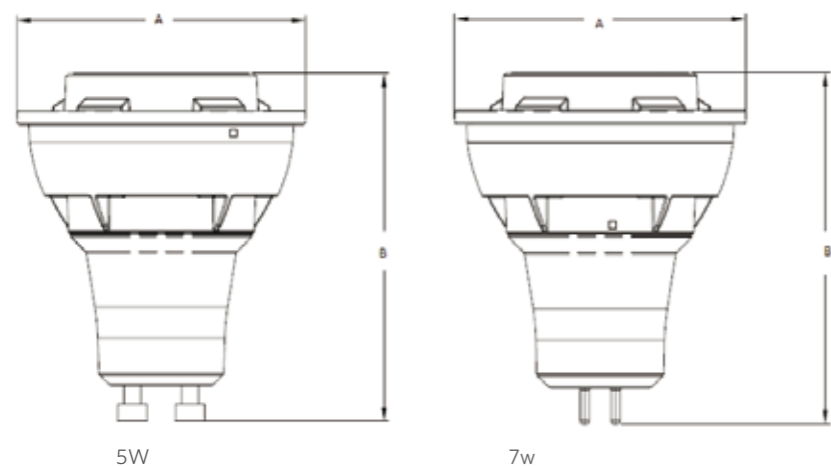
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E1-GU10-7W-Dim-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-Dim-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-Dim-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-Dim-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-Dim-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-Dim-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-Dim-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-Dim-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-7W-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GU10-5W-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-Dim-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-Dim-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E1-GX5.3-7W-Dim-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-Dim-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-Dim-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-Dim-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-Dim-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-Dim-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-7W-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-COB-2700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-COB-5700K-36D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-COB-2700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100
LED-E1-GX5.3-5W-COB-5700K-24D-CT	52x52x64	0.057	276x276x275	5.70	100



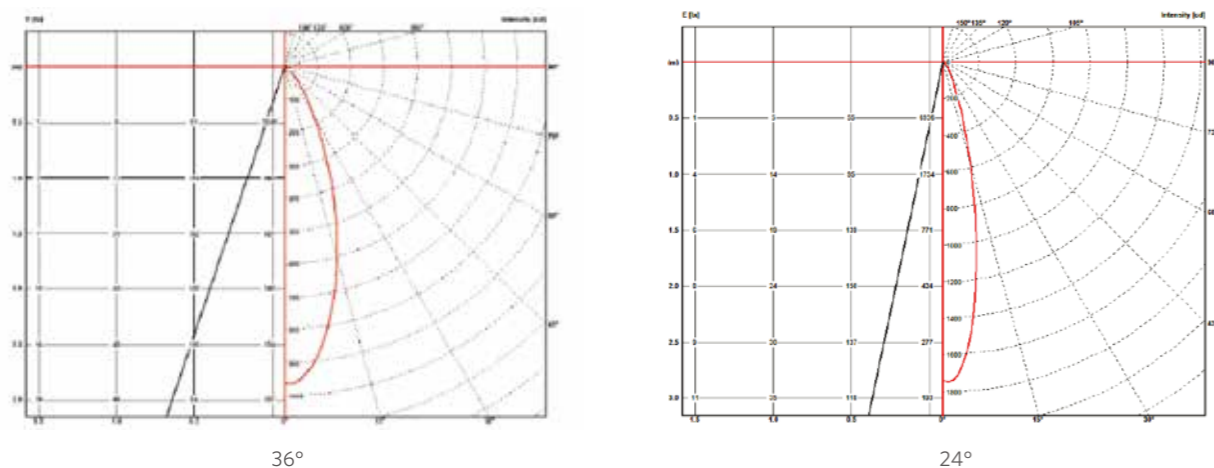
LED EcoMax GU10/GX5.3

### Dimensional Drawing



	5W 7W Dim	5W 7W No dim
A (mm)	50	50
B (mm)	60	60

### Light Distribution



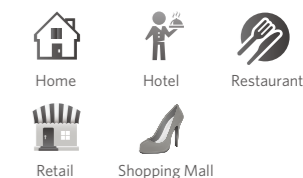
### Features

- Wide voltage mains input
- Optimized lens design
- Broad range of wattages and beam angles
- Energy efficient

### Benefits

- Use in different regions
- Focused beam tailored for accent lighting
- Easily retrofit conventional fixtures with LED
- Up to 85% energy savings compared to halogen GU10

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	Central Intensity (cd)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
GU10 WV 3W-20 827-24°	3	0.5	200	67	24°	530	80	2700	20000	A+
GU10 WV 3W-20 827-36°	3	0.5	200	67	36°	300	80	2700	20000	A+
GU10 WV 3W-20 840-24°	3	0.5	200	67	24°	530	80	4000	20000	A+
GU10 WV 3W-20 840-36°	3	0.5	200	67	36°	300	80	4000	20000	A+
GU10 WV 3W-20 857-24°	3	0.5	200	67	24°	530	80	5700	20000	A+
GU10 WV 3W-20 857-36°	3	0.5	200	67	36°	300	80	5700	20000	A+
GU10 WV 5W-35 827-24°	5	0.5	350	70	24°	1100	80	2700	25000	A+
GU10 WV 5W-35 827-36°	5	0.5	350	70	36°	620	80	2700	25000	A+
GU10 WV 5W-35 840-24°	5	0.5	350	70	24°	1100	80	4000	25000	A+
GU10 WV 5W-35 840-36°	5	0.5	350	70	36°	620	80	4000	25000	A+
GU10 WV 5W-35 857-24°	5	0.5	350	70	24°	1100	80	5700	25000	A+
GU10 WV 5W-35 857-36°	5	0.5	350	70	36°	620	80	5700	25000	A+
GU10 WV 6W-50 827-24°	6	0.5	450	75	24°	1600	80	2700	25000	A+
GU10 WV 6W-50 827-36°	6	0.5	450	75	36°	1100	80	2700	25000	A+
GU10 WV 6W-50 840-24°	6	0.5	450	75	24°	1600	80	4000	25000	A+
GU10 WV 6W-50 840-36°	6	0.5	450	75	36°	1100	80	4000	25000	A+
GU10 WV 6W-50 857-24°	6	0.5	450	75	24°	1600	80	5700	25000	A+
GU10 WV 6W-50 857-36°	6	0.5	450	75	36°	1100	80	5700	25000	A+
GX5.3 WV 3W-20 827-24°	3	0.5	200	67	24°	530	80	2700	20000	A+
GX5.3 WV 3W-20 857-24°	3	0.5	200	67	24°	530	80	5700	20000	A+
GX5.3 WV 3W-20 827-36°	3	0.5	200	67	36°	300	80	2700	20000	A+
GX5.3 WV 3W-20 857-36°	3	0.5	200	67	36°	300	80	5700	20000	A+
GX5.3 WV 5W-35 827-24°	5	0.5	350	67	24°	1100	80	2700	25000	A+
GX5.3 WV 5W-35 857-24°	5	0.5	350	67	24°	1100	80	5700	25000	A+
GX5.3 WV 5W-35 827-36°	5	0.5	350	70	36°	620	80	2700	25000	A+
GX5.3 WV 5W-35 857-36°	5	0.5	350	70	36°	620	80	5700	25000	A+
GX5.3 WV 6W-50 827-24°	6	0.5	450	75	24°	1600	80	2700	25000	A+
GX5.3 WV 6W-50 857-24°	6	0.5	450	75	24°	1600	80	5700	25000	A+
GX5.3 WV 6W-50 827-36°	6	0.5	450	75	36°	1100	80	2700	25000	A+
GX5.3 WV 6W-50 857-36°	6	0.5	450	75	36°	1100	80	5700	25000	A+

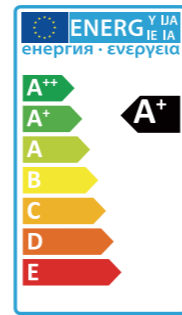


Application Conditions	
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

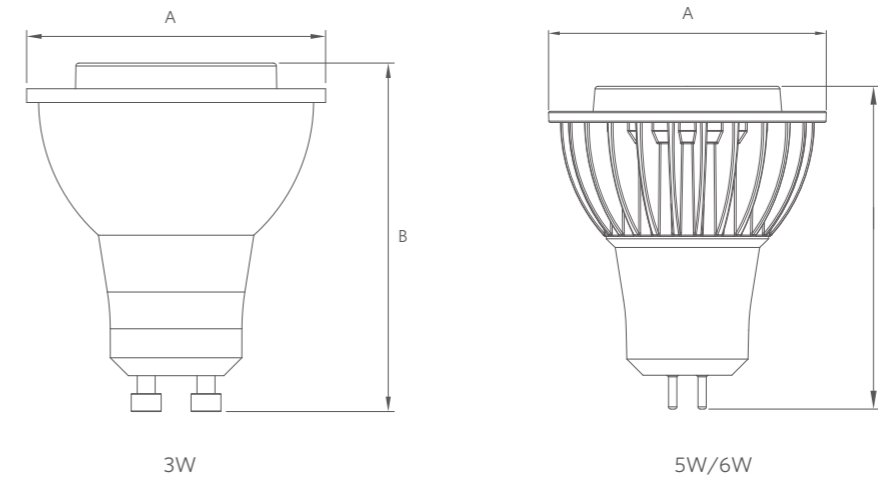
  

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	100V-240V
AC/DC	AC

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	Aluminium/Plastic
Finishing Colour	Silver



### Dimensional Drawing

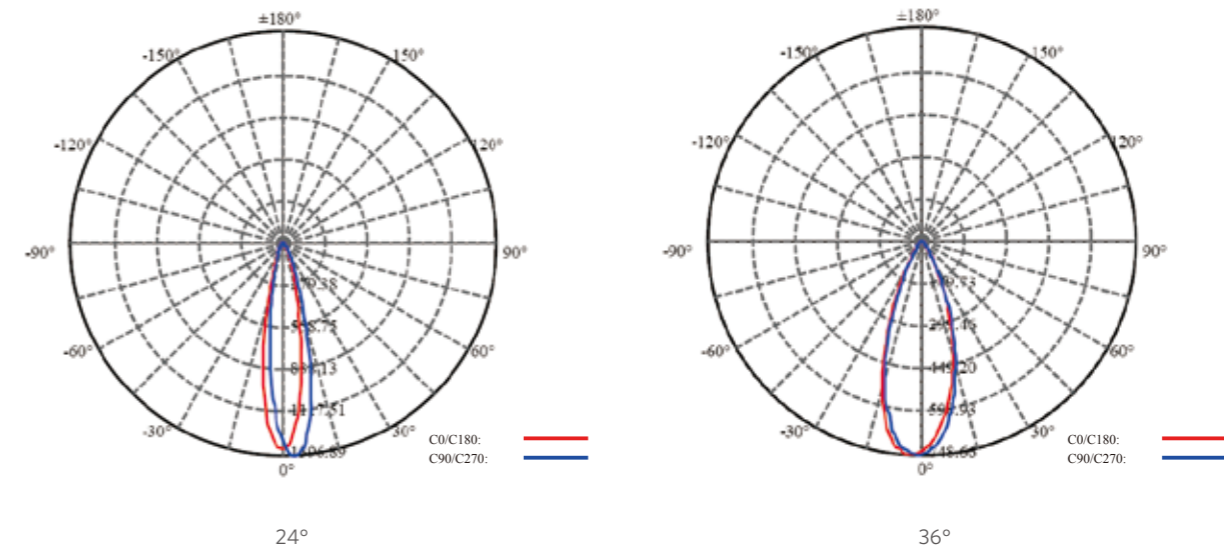


	3W	5W	6W
A (mm)	50	50	50
B (mm)	57	57	57

### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
GU10 WV 3w-20 827-24°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 3w-20 827-36°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 3w-20 840-24°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 3w-20 840-36°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 3w-20 857-24°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 3w-20 857-36°	52x52x65	0.058	275x275x280	5.8	100
GU10 WV 5w-35 827-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 5w-35 827-36°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 5w-35 840-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 5w-35 840-36°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 5w-35 857-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 5w-35 857-36°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 827-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 827-36°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 840-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 840-36°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 857-24°	52x52x65	0.085	275x275x280	8.5	100
GU10 WV 6w-50 857-36°	52x52x65	0.085	275x275x280	8.5	100
GX5.3 WV 3W-20 827-24°	52x52x65	0.058	275x275x280	5.80	100
GX5.3 WV 3W-20 857-24°	52x52x65	0.058	275x275x280	5.80	100
GX5.3 WV 3W-20 827-36°	52x52x65	0.058	275x275x280	5.80	100
GX5.3 WV 3W-20 857-36°	52x52x65	0.058	275x275x280	5.80	100
GX5.3 WV 5W-35 827-24°	52x52x65	0.058	275x275x280	8.50	100
GX5.3 WV 5W-35 857-24°	52x52x65	0.058	275x275x280	8.50	100
GX5.3 WV 5W-35 827-36°	52x52x65	0.085	275x275x280	8.50	100
GX5.3 WV 5W-35 857-36°	52x52x65	0.085	275x275x280	8.50	100
GX5.3 WV 6W-50 827-24°	52x52x65	0.085	275x275x280	8.50	100
GX5.3 WV 6W-50 857-24°	52x52x65	0.085	275x275x280	8.50	100
GX5.3 WV 6W-50 827-36°	52x52x65	0.085	275x275x280	8.50	100
GX5.3 WV 6W-50 857-36°	52x52x65	0.085	275x275x280	8.50	100

### Light Distribution







LED Performer T5 Batten

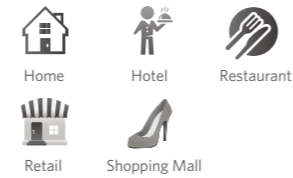
### Features

- Plastic T5 rectangular batten with no-gap connector
- Broad range of options: 3 lengths and 3 color temperatures
- High lumen output efficiency up to 100lm/W
- Long lifespan, install and forget

### Benefits

- Continuous light with no dark spots
- Easily retrofit conventional fixtures with LED
- Up to 50% energy savings compared to conventional T5 batten
- Lasts 4 times longer than conventional T5 batten, 40,000 hour lifetime

### Application



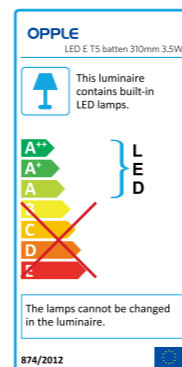
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-P-T5 batten-310mm-4W-3000K-CT	4	0.85	400	100	85	3000	40000	A+
LED-P-T5 batten-310mm-4W-4000K-CT	4	0.85	400	100	85	4000	40000	A+
LED-P-T5 batten-310mm-4W-5700K-CT	4	0.85	400	100	85	5700	40000	A+
LED-P-T5 batten-570mm-7W-3000K-CT	7	0.90	700	100	85	3000	40000	A+
LED-P-T5 batten-570mm-7W-4000K-CT	7	0.90	700	100	85	4000	40000	A+
LED-P-T5 batten-570mm-7W-5700K-CT	7	0.90	700	100	85	5700	40000	A+
LED-P-T5 batten-1170mm-14W-3000K-CT	14	0.90	1400	100	85	3000	40000	A+
LED-P-T5 batten-1170mm-14W-4000K-CT	14	0.90	1400	100	85	4000	40000	A+
LED-P-T5 batten-1170mm-14W-5700K-CT	14	0.90	1400	100	85	5700	40000	A+

Application Conditions	
IP	20
Operating Temperature	-10-50°C
Application Temperature	25°C
Storage Environment	-10-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PC
Finishing Colour	White

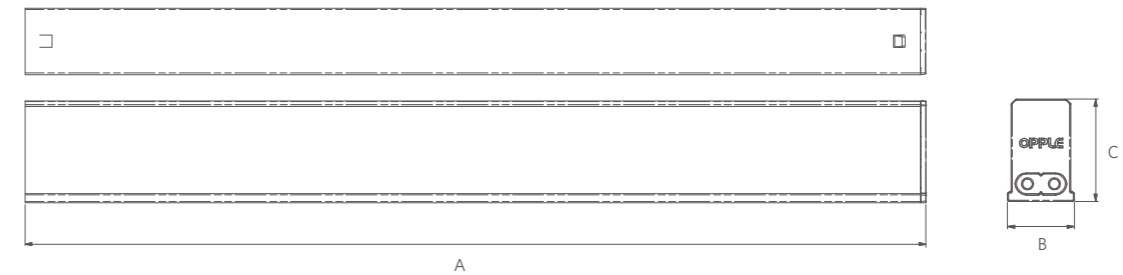
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

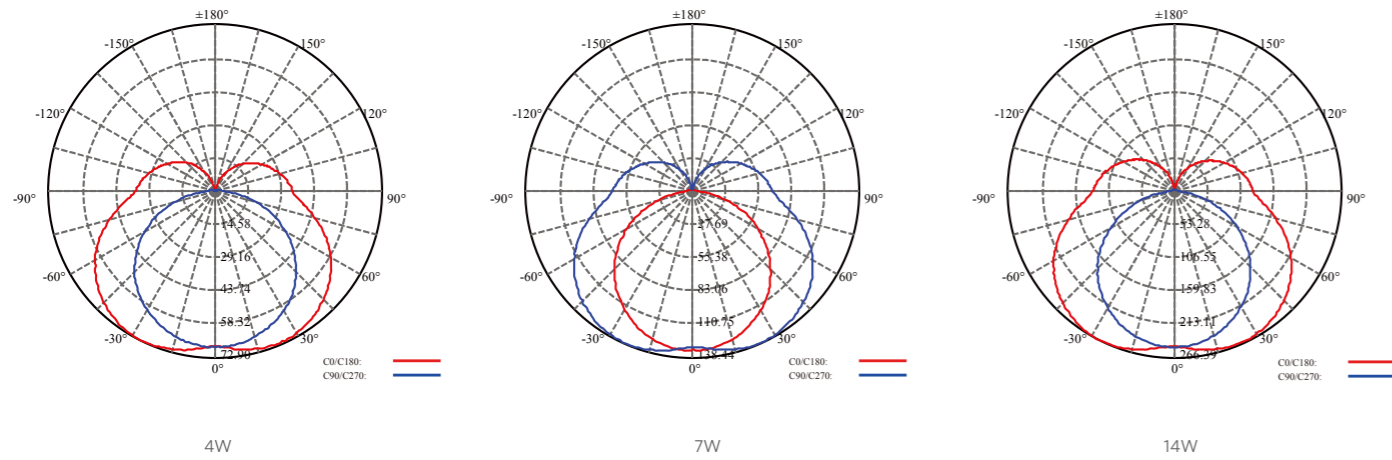
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-P-T5 batten-310mm-4W-3000K-CT	36x24x325	0.112	165x195x335	2.85	30
LED-P-T5 batten-310mm-4W-4000K-CT	36x24x325	0.112	165x195x335	2.85	30
LED-P-T5 batten-310mm-4W-5700K-CT	36x24x325	0.112	165x195x335	2.85	30
LED-P-T5 batten-570mm-7W-3000K-CT	36x24x625	0.178	165x195x635	4.23	30
LED-P-T5 batten-570mm-7W-4000K-CT	36x24x625	0.178	165x195x636	4.23	30
LED-P-T5 batten-570mm-7W-5700K-CT	36x24x625	0.178	165x195x637	4.23	30
LED-P-T5 batten-1170mm-14W-3000K-CT	36x24x1225	0.314	165x195x1235	5.97	30
LED-P-T5 batten-1170mm-14W-4000K-CT	36x24x1225	0.314	165x195x1236	5.97	30
LED-P-T5 batten-1170mm-14W-5700K-CT	36x24x1225	0.314	165x195x1237	5.97	30
Middle Connector			170x130x80	0.80	200
Leader Cable			310x210x120	2.60	200
Jumper Cable			420x270x140	6.00	200

### Dimensional Drawing



	4W	7W	14W
A (mm)	300	600	1200
B (mm)	22.2	22.2	22.2
C (mm)	34	34	34

## Light Distribution



LED EcoMax T5 Batten

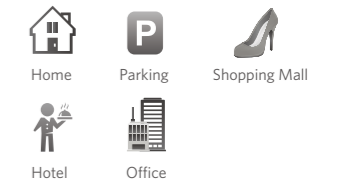
### Features

- Plastic unibody design with integrated connector
- Broad range of lengths and color temperatures
- Energy efficient

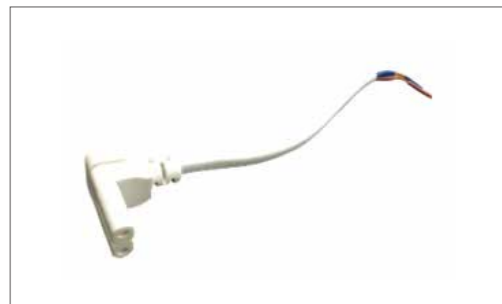
### Benefits

- Easy, accessory free installation
- Easily retrofit conventional fixtures with LED
- Up to 50% energy savings compared to conventional T5 batten

### Application



## Accessory Information



Leading Cable



Jumper Cable



Middle Connector  
(\*Each single packaging including one middle connector)

## Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E1-T5 batten-310mm-3.5W-3000K-CT-A	3.5	0.5	240	69	75	3000	20000	A+
LED-E1-T5 batten-310mm-3.5W-4000K-CT-A	3.5	0.5	260	74	75	4000	20000	A+
LED-E1-T5 batten-310mm-3.5W-5700K-CT-A	3.5	0.5	300	86	75	5700	20000	A+
LED-E1-T5 batten-570mm-7W-3000K-CT-A	7	0.5	480	69	75	3000	20000	A+
LED-E1-T5 batten-570mm-7W-4000K-CT-A	7	0.5	520	74	75	4000	20000	A+
LED-E1-T5 batten-570mm-7W-5700K-CT-A	7	0.5	600	86	75	5700	20000	A+
LED-E1-T5 batten-870mm-10.5W-3000K-CT-A	10.5	0.5	710	68	75	3000	20000	A+
LED-E1-T5 batten-870mm-10.5W-4000K-CT-A	10.5	0.5	770	73	75	4000	20000	A+
LED-E1-T5 batten-870mm-10.5W-5700K-CT-A	10.5	0.5	900	86	75	5700	20000	A+
LED-E1-T5 batten-1170mm-14W-3000K-CT-A	14	0.5	950	68	75	3000	20000	A
LED-E1-T5 batten-1170mm-14W-4000K-CT-A	14	0.5	1030	74	75	4000	20000	A+
LED-E1-T5 batten-1170mm-14W-5700K-CT-A	14	0.5	1200	86	75	5700	20000	A+
LED-E1-T5 batten-1170mm-18W-3000K-CT-A	18	0.5	1600	89	75	3000	20000	A+
LED-E1-T5 batten-1170mm-18W-4000K-CT-A	18	0.5	1600	89	75	4000	20000	A+
LED-E1-T5 batten-1170mm-18W-5700K-CT-A	18	0.5	1600	89	75	5700	20000	A+

### Application Conditions

IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

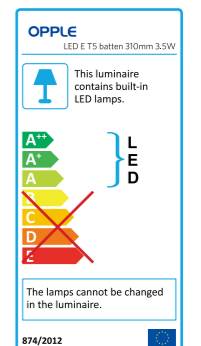
### Electrical supply

Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PC
Finishing Colour	White

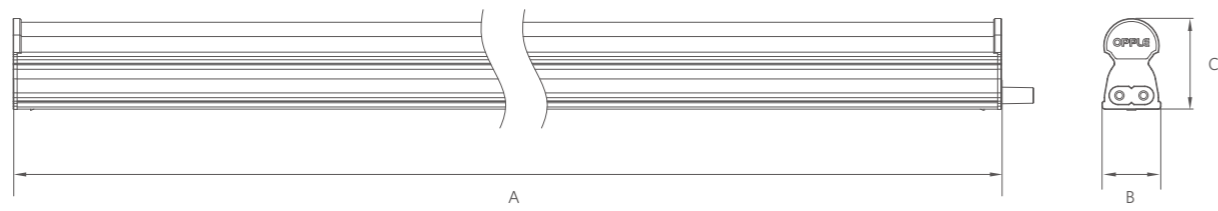
CE CB



## Packaging Information

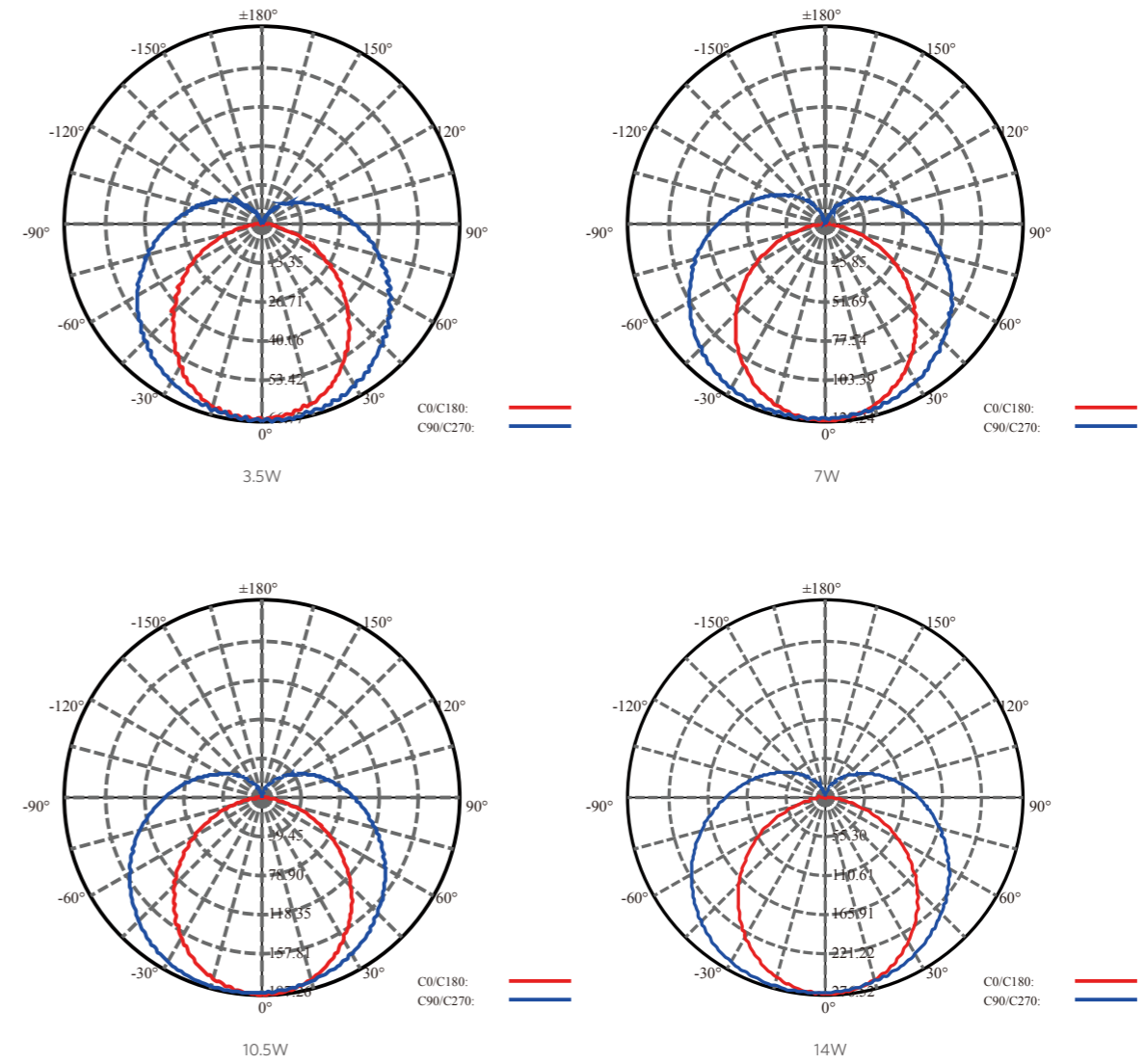
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E1-T5 batten-310mm-3.5W-3000K-CT-A	37x26x415	0.136	180x200x485	4.08	30
LED-E1-T5 batten-310mm-3.5W-4000K-CT-A	37x26x415	0.136	180x200x485	4.08	30
LED-E1-T5 batten-310mm-3.5W-5700K-CT-A	37x26x415	0.136	180x200x485	4.08	30
LED-E1-T5 batten-570mm-7W-3000K-CT-A	37x26x675	0.180	180x200x745	5.40	30
LED-E1-T5 batten-570mm-7W-4000K-CT-A	37x26x675	0.180	180x200x745	5.40	30
LED-E1-T5 batten-570mm-7W-5700K-CT-A	37x26x675	0.180	180x200x745	5.40	30
LED-E1-T5 batten-870mm-10.5W-3000K-CT-A	37x26x975	0.240	180x200x1045	7.20	30
LED-E1-T5 batten-870mm-10.5W-4000K-CT-A	37x26x975	0.240	180x200x1045	7.20	30
LED-E1-T5 batten-870mm-10.5W-5700K-CT-A	37x26x975	0.240	180x200x1045	7.20	30
LED-E1-T5 batten-1170mm-14W-3000K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
LED-E1-T5 batten-1170mm-14W-4000K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
LED-E1-T5 batten-1170mm-14W-5700K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
LED-E1-T5 batten-1170mm-18W-3000K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
LED-E1-T5 batten-1170mm-18W-4000K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
LED-E1-T5 batten-1170mm-18W-5700K-CT-A	37x26x1275	0.303	180x200x1345	9.09	30
Leader Cable			105X105X185	0.60	30
Jumper Cable(two pin to two pin)			105X105X185	0.60	30
Jumper Cable(two pin to three pin)			105X105X185	0.60	30

## Dimensional Drawing



	3.5W	7W	10.5W	14W	14W&18W
A (mm)	310	570	870	1170	1170
B (mm)	22	22	22	22	22
C (mm)	32.6	32.6	32.6	32.6	32.6

## Light Distribution



## Accessory Information



Leader Cable



Jumper Cable  
(two pin to two pin)



Jumper Cable  
(two pin to three pin)



LED Utility T5 Batten

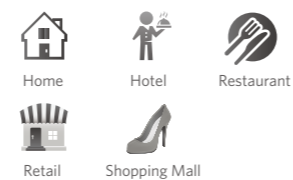
### Features

- Aluminum batten with no-gap connector
- Broad range of lengths and color temperatures
- Energy efficient

### Benefits

- Continuous light with no dark spots
- Easily retrofit conventional fixtures with LED
- Up to 50% energy savings compared to conventional T5 batten

### Application



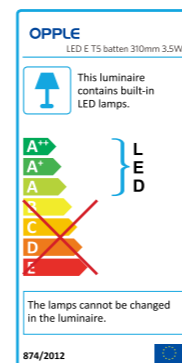
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED T5 HV 3.5W-8 830-120-SL	3.5	0.5	270	77	75	3000	20000	A+
LED T5 HV 3.5W-8 840-120-SL	3.5	0.5	270	77	75	4000	20000	A+
LED T5 HV 3.5W-8 857-120-SL	3.5	0.5	270	77	75	5700	20000	A+
LED T5 HV 7W-14 830-120-SL	7	0.5	530	76	75	3000	20000	A+
LED T5 HV 7W-14 840-120-SL	7	0.5	530	76	75	4000	20000	A+
LED T5 HV 7W-14 857-120-SL	7	0.5	530	76	75	5700	20000	A+
LED T5 HV 14W-28 830-120-SL	14	0.5	1050	75	75	3000	20000	A+
LED T5 HV 14W-28 840-120-SL	14	0.5	1050	75	75	4000	20000	A+
LED T5 HV 14W-28 857-120-SL	14	0.5	1050	75	75	5700	20000	A+

Application Conditions	
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	Aluminium
Finishing Colour	White+Silver

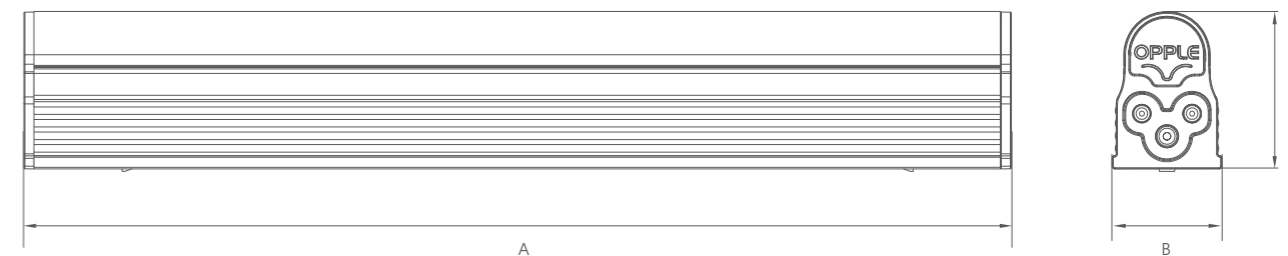
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED T5 HV 3.5W-8 830-120-SL	34x24x328	0.093	225x135x340	3.54	30
LED T5 HV 3.5W-8 840-120-SL	34x24x328	0.093	225x135x340	3.54	30
LED T5 HV 3.5W-8 857-120-SL	34x24x328	0.093	225x135x340	3.54	30
LED T5 HV 7W-14 830-120-SL	34x24x588	0.142	225x135x600	5.49	30
LED T5 HV 7W-14 840-120-SL	34x24x588	0.142	225x135x600	5.49	30
LED T5 HV 7W-14 857-120-SL	34x24x588	0.142	225x135x600	5.49	30
LED T5 HV 14W-28 830-120-SL	34x24x1188	0.251	225x135x1250	10.05	30
LED T5 HV 14W-28 840-120-SL	34x24x1188	0.251	225x135x1250	10.05	30
LED T5 HV 14W-28 857-120-SL	34x24x1188	0.251	225x135x1250	10.05	30
Leader Cable			140x185x185	1.10	50
Middle Connector(connect two T5 Battens without shadow)			120x140x170	1.00	200
Jumper Cable ( use for corner)			140x185x185	1.70	50

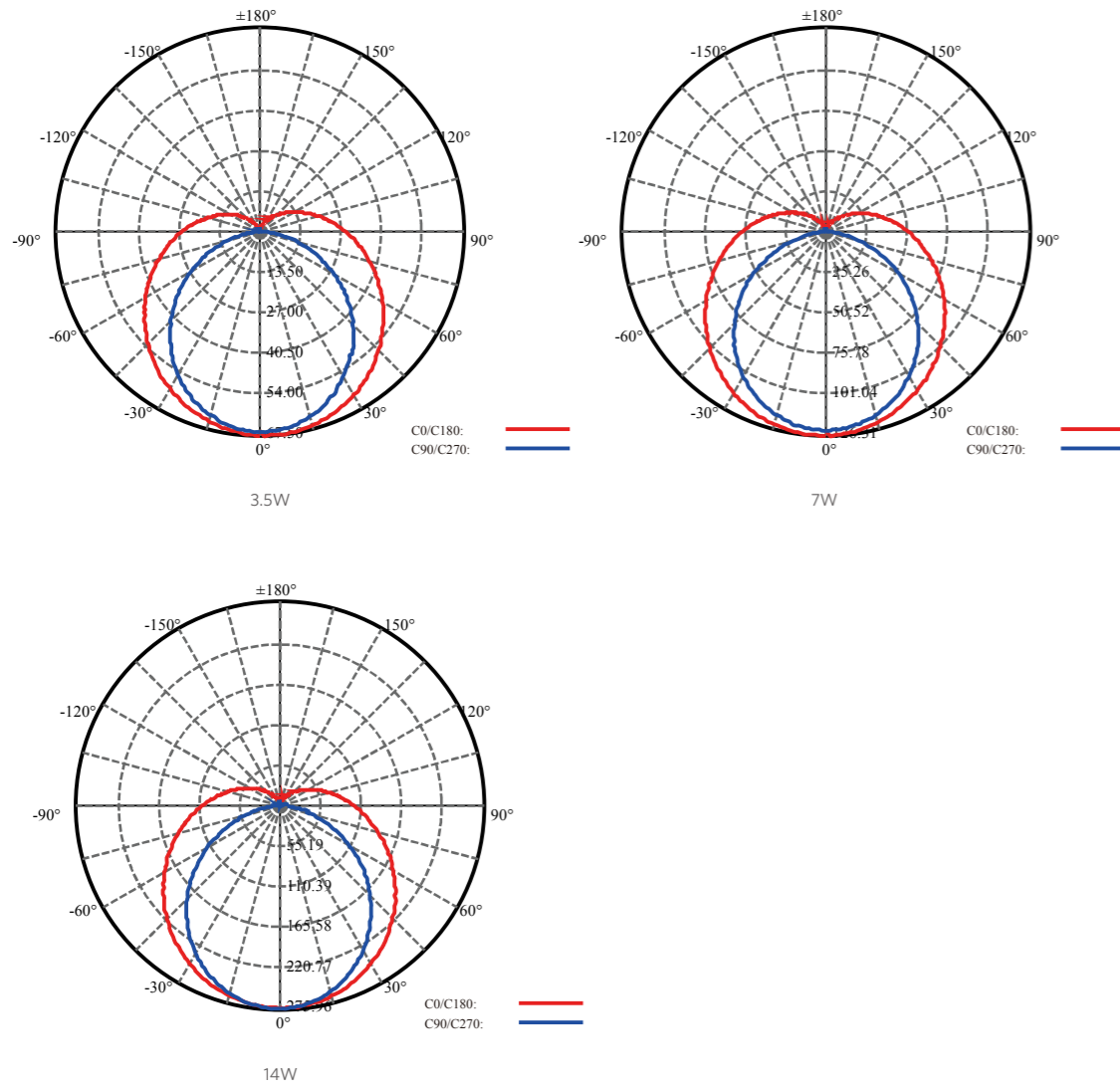
### Dimensional Drawing



	3.5W	7W	14W
A (mm)	310	570	1170
B (mm)	21.8	21.8	21.8
C (mm)	31.3	31.3	31.3



## Light Distribution



## Accessory Information



Leader Cable



Middle Connector  
(connect two T5 batten without shadow)



Jumper Cable  
(use for corner)



LED EcoMax T8 Batten

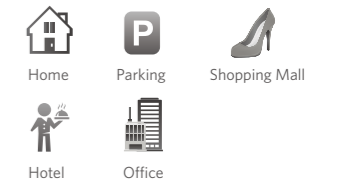
## Features

- High lumen efficacy, 88lm/W
- Plastic Unibody enclosure
- Broad range of lengths and color temperatures

## Benefits

- Up to 60% energy savings compared to conventional T8 batten
- No light leak, uniform light output
- Easily retrofit conventional fixtures with LED

## Application



## Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E-T8 batten-600mm-8W-3000K-CT	8	0.5	700	88	75	3000	20000	A+
LED-E-T8 batten-600mm-8W-4000K-CT	8	0.5	700	88	75	4000	20000	A+
LED-E-T8 batten-600mm-8W-6500K-CT	8	0.5	700	88	75	6500	20000	A+
LED-E-T8 batten-900mm-12W-3000K-CT	12	0.5	1050	88	75	3000	20000	A+
LED-E-T8 batten-900mm-12W-4000K-CT	12	0.5	1050	88	75	4000	20000	A+
LED-E-T8 batten-900mm-12W-6500K-CT	12	0.5	1050	88	75	6500	20000	A+
LED-E-T8 batten-1200mm-16W-3000K-CT	16	0.5	1400	88	75	3000	20000	A+
LED-E-T8 batten-1200mm-16W-4000K-CT	16	0.5	1400	88	75	4000	20000	A+
LED-E-T8 batten-1200mm-16W-6500K-CT	16	0.5	1400	88	75	6500	20000	A+

### Application Conditions

IP	20
Operating Temperature	-10-40°C
Application Temperature	25°C
Storage Environment	-25-50°C

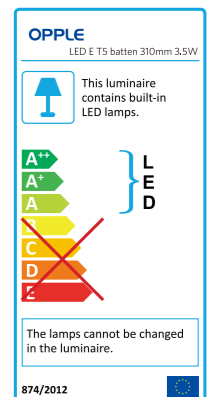
### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PC
Finishing Colour	White

### Electrical supply

Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

CE CB





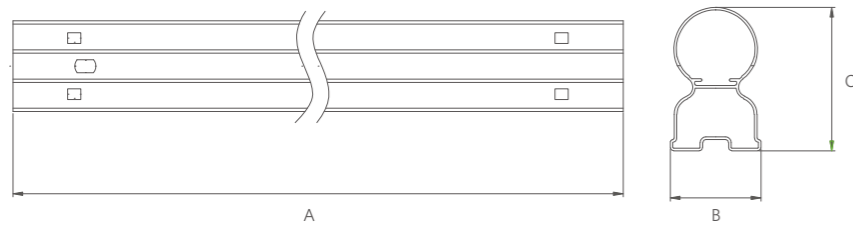
## Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E-T8 batten-600mm-8W-3000K-CT	48x33x620	0.200	220x255x630	6.00	30
LED-E-T8 batten-600mm-8W-4000K-CT	48x33x620	0.200	220x255x630	6.00	30
LED-E-T8 batten-600mm-8W-6500K-CT	48x33x620	0.200	220x255x630	6.00	30
LED-E-T8 batten-900mm-12W-3000K-CT	48x33x920	0.207	220x255x930	6.21	30
LED-E-T8 batten-900mm-12W-4000K-CT	48x33x920	0.207	220x255x930	6.21	30
LED-E-T8 batten-900mm-12W-6500K-CT	48x33x920	0.207	220x255x930	6.21	30
LED-E-T8 batten-1200mm-16W-3000K-CT	48x33x1220	0.339	220x255x1230	10.17	30
LED-E-T8 batten-1200mm-16W-4000K-CT	48x33x1220	0.339	220x255x1230	10.17	30
LED-E-T8 batten-1200mm-16W-6500K-CT	48x33x1220	0.339	220x255x1230	10.17	30



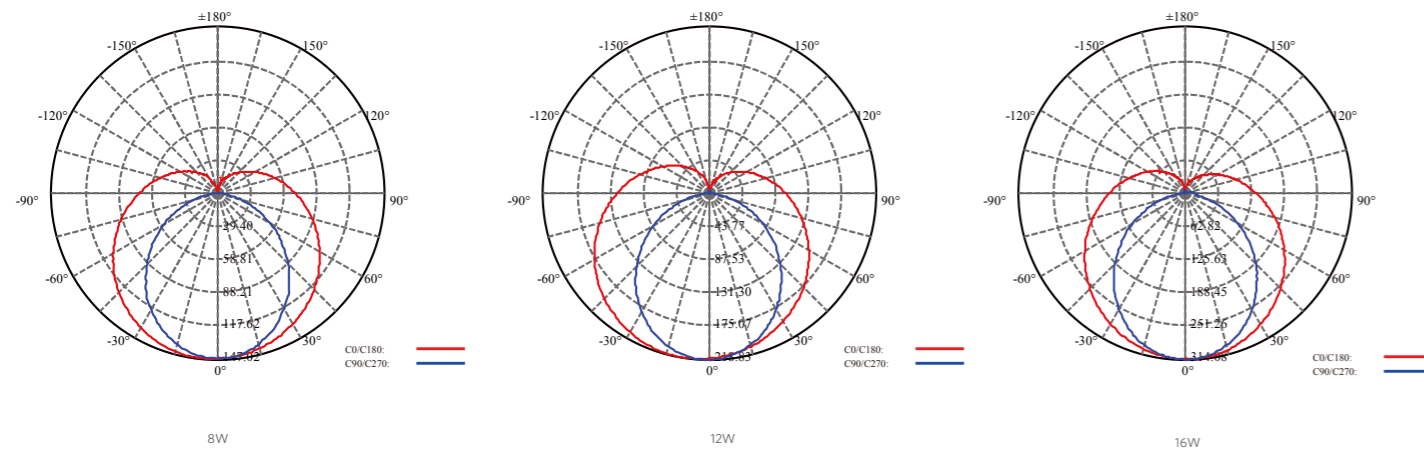
LED Performer T8 Tube

## Dimensional Drawing



	8W	12W	16W
A (mm)	600	900	1200
B (mm)	28	28	28
C (mm)	44	44	44

## Light Distribution



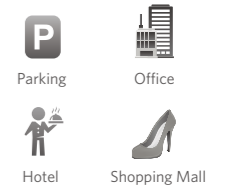
## Features

- Wide voltage mains input
- Advanced coating technology
- Flicker free driver
- LED dummy starter
- Long lifespan, install and forget

## Benefits

- Use in different regions
- Even, balanced light
- Stress free ambient light
- Prevents overheating toward end of lifespan
- Lasts 2 times longer than conventional T8 tube with electronic system

## Application



## Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-P-T8-600mm-10W-WV-3000K-Glass	10	0.9	900	90	80	3000	40000	A+
LED-P-T8-600mm-10W-WV-4000K-Glass	10	0.9	1000	100	80	4000	40000	A+
LED-P-T8-600mm-10W-WV-6500K-Glass	10	0.9	1000	100	80	6500	40000	A+
LED-P-T8-1200mm-20W-WV-3000K-Glass	20	0.9	1800	90	80	3000	40000	A+
LED-P-T8-1200mm-20W-WV-4000K-Glass	20	0.9	2000	100	80	4000	40000	A+
LED-P-T8-1200mm-20W-WV-6500K-Glass	20	0.9	2000	100	80	6500	40000	A+

### Application Conditions

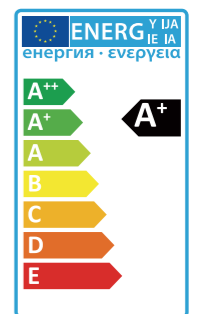
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

### Mechanical and Finishing Properties

Optical Material	Glass
Housing Material	Glass
Finishing Colour	White

### Electrical supply

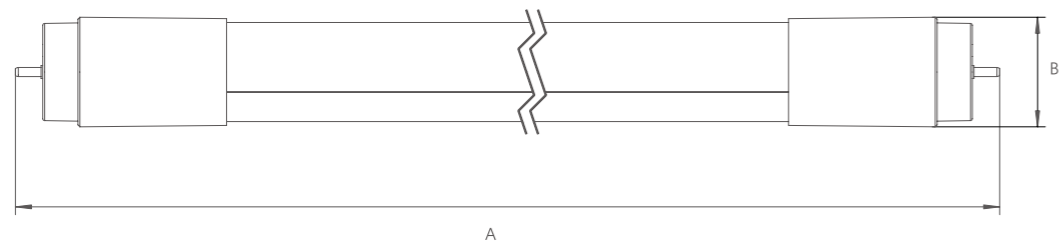
Frequency (Hz)	50/60Hz
Voltage (V)	100V-240V
AC/DC	AC



## Packaging Information

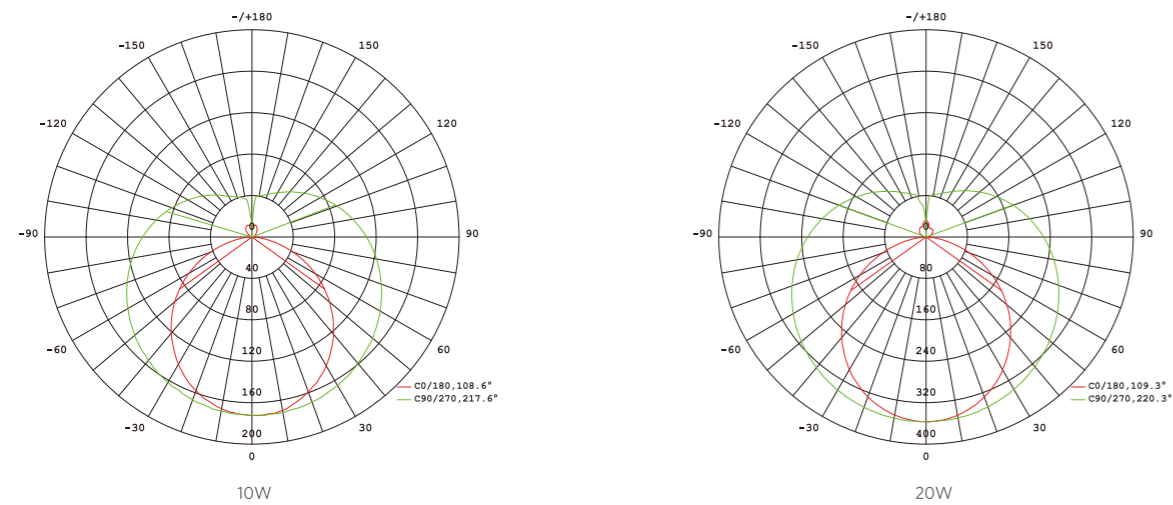
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-P-T8-600mm-10W-WV-3000K-Glass	28.5x28.5x605	0.215	195x230x705	4.30	20
LED-P-T8-600mm-10W-WV-4000K-Glass	28.5x28.5x605	0.215	195x230x705	4.30	20
LED-P-T8-600mm-10W-WV-6500K-Glass	28.5x28.5x605	0.215	195x230x705	4.30	20
LED-P-T8-1200mm-20W-WV-3000K-Glass	28.5x28.5x1214	0.325	195x230x1305	6.50	20
LED-P-T8-1200mm-20W-WV-4000K-Glass	28.5x28.5x1214	0.325	195x230x1305	6.50	20
LED-P-T8-1200mm-20W-WV-6500K-Glass	28.5x28.5x1214	0.325	195x230x1305	6.50	20
LED-Starter-250V-250mA	45x87x120	0.09 (20pcs)	145x190x245	1.00	200
LED-U-T8 empty batten-600mm	27x37x610	0.130	200x175x615	4.00	30
LED-U-T8 empty batten-1200mm	27x37x1210	0.220	200x175x1220	7.00	30
LED-U-T8 empty batten-600mm-TT-CT			130x175x653	5.80	20
LED-U-T8 empty batten-1200mm-TT-CT			130x175x1260	10.80	20
LED-U-T8 empty batten-600mm-TTR-CT			113x177x653	5.80	10
LED-U-T8 empty batten-1200mm-TTR-CT			113x177x1260	10.80	10

## Dimensional Drawing



	10W	20W
A (mm)	Φ28	Φ28
B (mm)	604	1213

## Light Distribution



## Accessory Information



LED-Starter  
(Replacement for conventional T8 Batten starter)



LED Utility T8 Empty Batten  
(Match with single-ended T8 Tube)



## LED EcoMax T8 Tube

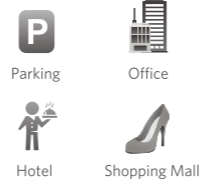
### Features

- Advanced coating technology
- Flicker free driver
- LED dummy starter
- Energy efficient
- Long lifespan, install and forget

### Benefits

- Even, balanced light
- Stress free ambient light
- Prevents overheating toward end of lifespan
- Up to 60% energy savings compared to conventional T8 tube
- Lasts 2 times longer than conventional T8 tube with electromagnetic system

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level	Packaging
LED-E-T8-600mm-9W-3000K-GLASS-CT	9	0.5	800	89	80	3000	25000	A+	Color Box
LED-E-T8-600mm-9W-4000K-GLASS-CT	9	0.5	850	94	80	4000	25000	A+	Color Box
LED-E-T8-600mm-9W-6500K-GLASS-CT	9	0.5	850	94	80	6500	25000	A+	Color Box
LED-E-T8-1200mm-18W-3000K-GLASS-CT	18	0.5	1600	89	80	3000	25000	A+	Color Box
LED-E-T8-1200mm-18W-4000K-GLASS-CT	18	0.5	1700	94	80	4000	25000	A+	Color Box
LED-E-T8-1200mm-18W-6500K-GLASS-CT	18	0.5	1700	94	80	6500	25000	A+	Color Box
LED-E-T8-600mm-9W-3000K-Glass-ENC	9	0.5	800	89	80	3000	25000	A+	Paper sleeve
LED-E-T8-600mm-9W-4000K-Glass-ENC	9	0.5	850	94	80	4000	25000	A+	Paper sleeve
LED-E-T8-600mm-9W-6500K-Glass-ENC	9	0.5	850	94	80	6500	25000	A+	Paper sleeve
LED-E-T8-1200mm-18W-3000K-Glass-ENC	18	0.5	1600	89	80	3000	25000	A+	Paper sleeve
LED-E-T8-1200mm-18W-4000K-Glass-ENC	18	0.5	1700	94	80	4000	25000	A+	Paper sleeve
LED-E-T8-1200mm-18W-6500K-Glass-ENC	18	0.5	1700	94	80	6500	25000	A+	Paper sleeve

#### Application Conditions

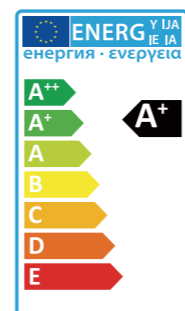
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	Glass
Housing Material	Glass
Finishing Colour	White

#### Electrical supply

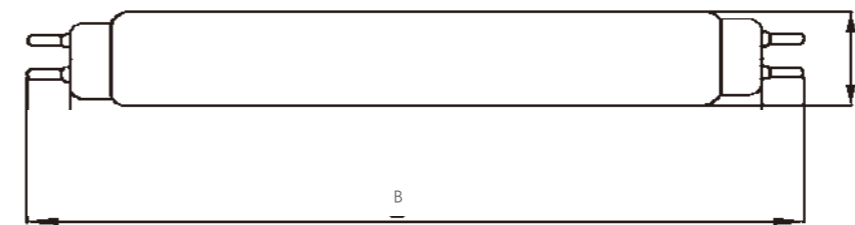
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

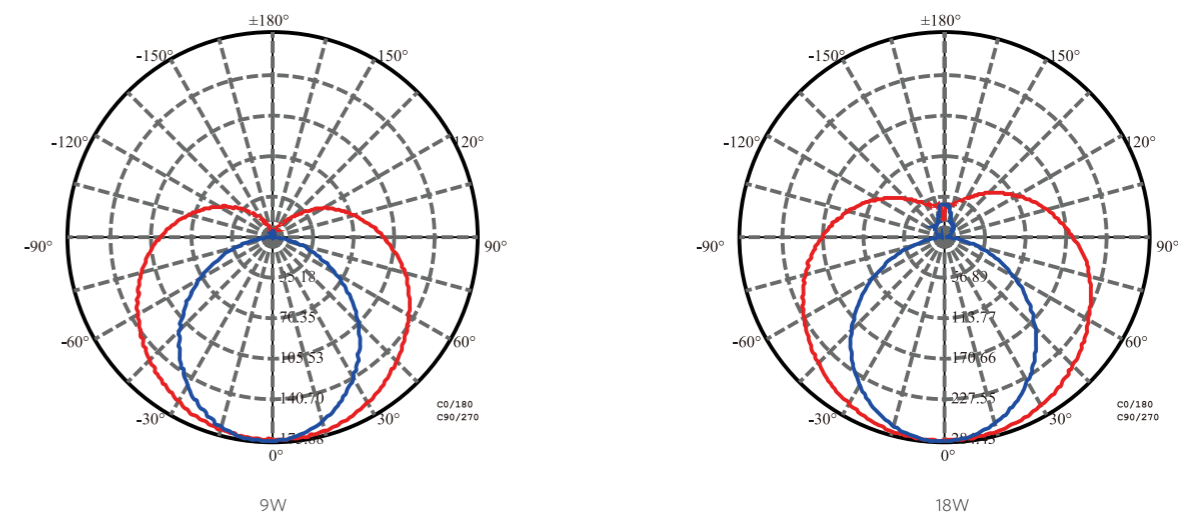
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E-T8-600mm-9W-3000K-GLASS-CT	27x27x660	0.178	140x167x740	3.55	20
LED-E-T8-600mm-9W-4000K-GLASS-CT	27x27x660	0.178	140x167x740	3.55	20
LED-E-T8-600mm-9W-6500K-GLASS-CT	27x27x660	0.178	140x167x740	3.55	20
LED-E-T8-1200mm-18W-3000K-GLASS-CT	27x27x1270	0.323	160x167x1350	6.46	20
LED-E-T8-1200mm-18W-4000K-GLASS-CT	27x27x1270	0.323	160x167x1350	6.46	20
LED-E-T8-1200mm-18W-6500K-GLASS-CT	27x27x1270	0.323	160x167x1350	6.46	20
LED-E-T8-600mm-9W-3000K-Glass-ENC	28.5x28.5x605	0.179	165x205x680	3.57	20
LED-E-T8-600mm-9W-4000K-Glass-ENC	28.5x28.5x605	0.179	165x205x680	3.57	20
LED-E-T8-600mm-9W-6500K-Glass-ENC	28.5x28.5x605	0.179	165x205x680	3.57	20
LED-E-T8-1200mm-18W-3000K-Glass-ENC	28.5x28.5x1214	0.293	165x205x1290	5.85	20
LED-E-T8-1200mm-18W-4000K-Glass-ENC	28.5x28.5x1214	0.293	165x205x1290	5.85	20
LED-E-T8-1200mm-18W-6500K-Glass-ENC	28.5x28.5x1214	0.293	165x205x1290	5.85	20
LED-Starter-250V-250mA	45x87x120	0.09kg (20pcs)	145x190x245	1.00	200
LED-U-T8 empty batten-600mm	27x37x610	0.130	200x175x615	4.00	30
LED-U-T8 empty batten-1200mm	27x37x1210	0.220	200x175x1220	7.00	30
LED-U-T8 empty batten-600mm-TT-CT			130x175x653	5.80	20
LED-U-T8 empty batten-1200mm-TT-CT			130x175x1260	10.80	20
LED-U-T8 empty batten-600mm-TTR-CT			113x177x653	5.80	10
LED-U-T8 empty batten-1200mm-TTR-CT			113x177x1260	10.80	10

### Dimensional Drawing



	10W	20W
A (mm)	Φ26	Φ26
B (mm)	604	1213

### Light Distribution



## Accessory Information



LED-Starters  
(Replacement for conventional T8 Batten starter)



LED Utility T8 Empty Batten  
(Match with single-ended T8 Tube)



LED Utility T8 Tube

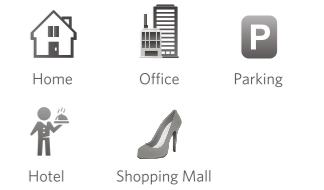
### Features

- Flicker free driver
- Energy efficient
- Long lifespan, install and forget

### Benefits

- Stress free ambient light
- Up to 60% energy savings compared to conventional T8 tube
- Lasts 2 times longer than conventional T8 tube with electromagnetic system

### Application



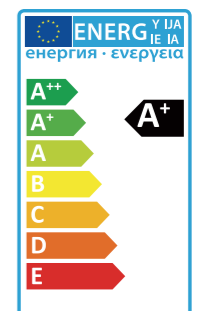
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level	Packaging
LED-U1-T8-600mm-9W-3000K-Glass-CT	9	0.5	750	83	70	3000	15000	A+	Color Box
LED-U1-T8-600mm-9W-4000K-Glass-CT	9	0.5	800	89	70	4000	15000	A+	Color Box
LED-U1-T8-600mm-9W-6500K-Glass-CT	9	0.5	800	89	70	6500	15000	A+	Color Box
LED-U1-T8-1200mm-18W-3000K-Glass-CT	18	0.5	1500	83	70	3000	15000	A+	Color Box
LED-U1-T8-1200mm-18W-4000K-Glass-CT	18	0.5	1600	89	70	4000	15000	A+	Color Box
LED-U1-T8-1200mm-18W-6500K-Glass-CT	18	0.5	1600	89	70	6500	15000	A+	Color Box
LED-U1-T8-600mm-9W-3000K-Glass-ENC	9	0.5	750	83	70	3000	15000	A+	Paper sleeve
LED-U1-T8-600mm-9W-4000K-Glass-ENC	9	0.5	800	89	70	4000	15000	A+	Paper sleeve
LED-U1-T8-600mm-9W-6500K-Glass-ENC	9	0.5	800	89	70	6500	15000	A+	Paper sleeve
LED-U1-T8-1200mm-18W-3000K-Glass-ENC	18	0.5	1500	83	70	3000	15000	A+	Paper sleeve
LED-U1-T8-1200mm-18W-4000K-Glass-ENC	18	0.5	1600	89	70	4000	15000	A+	Paper sleeve
LED-U1-T8-1200mm-18W-6500K-Glass-ENC	18	0.5	1600	89	70	6500	15000	A+	Paper sleeve

Application Conditions	
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

Mechanical and Finishing Properties	
Optical Material	Glass
Housing Material	Glass
Finishing Colour	White





## Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-Starter-250V-250mA	45x87x120	0.09 (20pcs)	145x190x245	1.00	200
LED-U-T8 empty batten-600mm	27x37x610	0.130	200x175x615	4.00	30
LED-U-T8 empty batten-1200mm	27x37x1210	0.220	200x175x1220	7.00	30
LED-U-T8 empty batten-600mm-TT-CT			130x175x653	5.80	20
LED-U-T8 empty batten-1200mm-TT-CT			130x175x1260	10.80	20
LED-U-T8 empty batten-600mm-TTR-CT			113x177x653	5.80	10
LED-U-T8 empty batten-1200mm-TTR-CT			113x177x1260	10.80	10

## Accessory Information

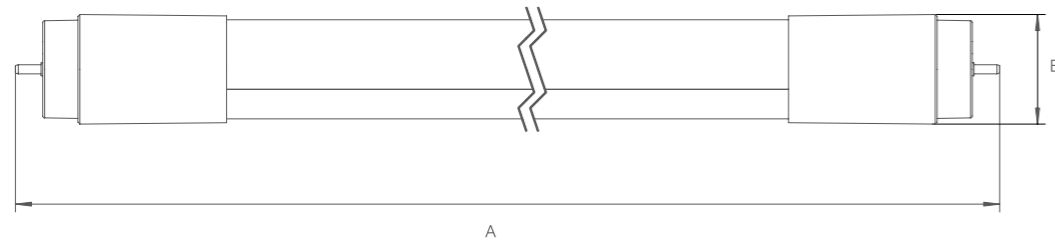


LED-Starter  
(Replacement for conventional T8 Batten starter)



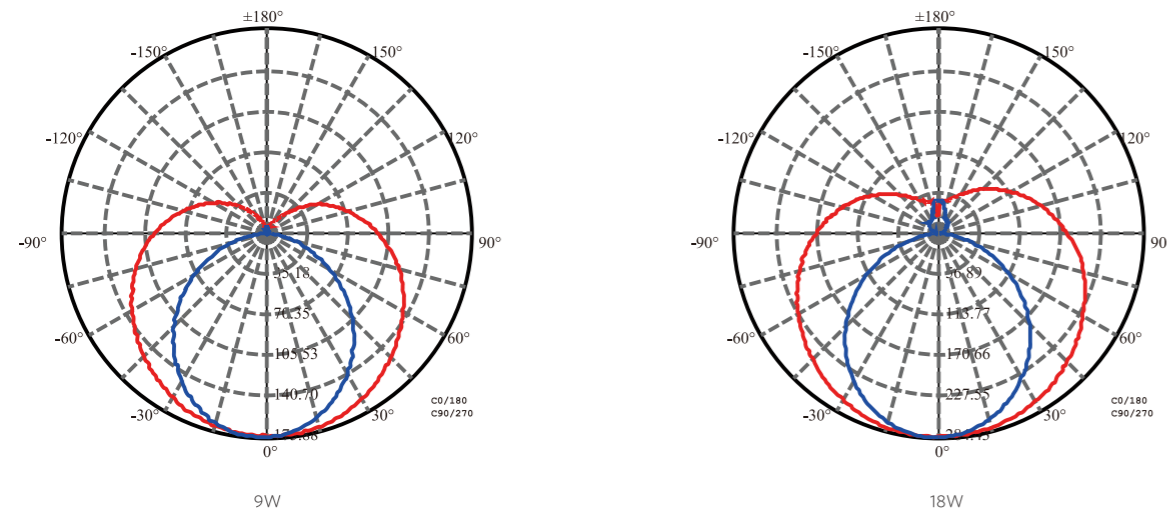
LED Utility T8 Empty Batten  
(Match with single-ended T8 Tube)

## Dimensional Drawing

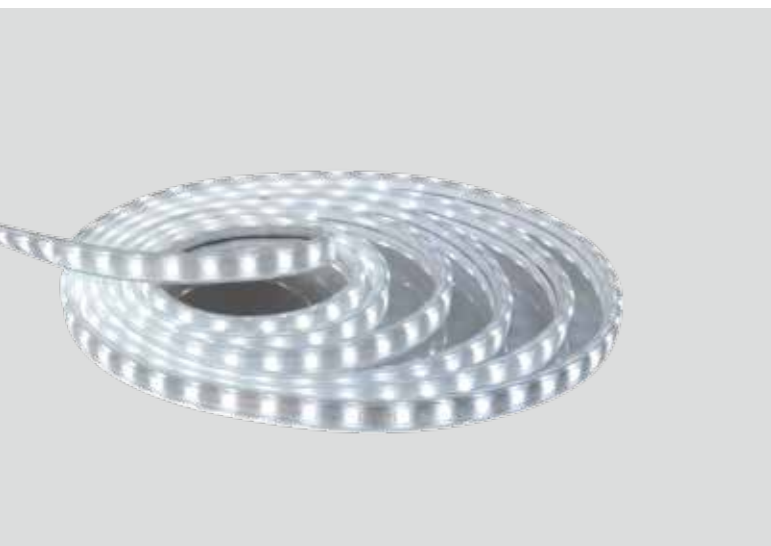


	9W	18W
A (mm)	Φ28	Φ28
B (mm)	604	1213

## Light Distribution







LED Performer Strip

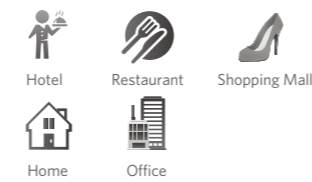
### Features

- Highly efficient 5050 chip with diffuser
- Anti-sulphide LED chip
- High quality, high transparency PVC
- Thick copper inner wire

### Benefits

- Bright and uniform light output
- Prevents light drop or color change
- Maintains lumen output and color over time
- Increased durability for bending, reduces risk of early failure

### Application



### Specification

Product Description	Power (W/m)	Power Factor	Lumen (lm/m)	CRI	CCT (K)	Average Lifetime(hrs)
LED-Strip-5050-HV-8W/M-50M-830-WH	8	0.9	500	70	3000	20000
LED-Strip-5050-HV-8W/M-50M-840-WH	8	0.9	500	70	4000	20000
LED-Strip-5050-HV-8W/M-50M-860-WH	8	0.9	500	70	6000	20000
LED-Strip-5050-HV-8W/M-50M-RED-WH	8	0.9	500	70	Red	20000
LED-Strip-5050-HV-8W/M-50M-YELLOW-WH	8	0.9	500	70	Yellow	20000
LED-Strip-5050-HV-8W/M-50M-BLUE-WH	8	0.9	500	70	Blue	20000
LED-Strip-5050-HV-8W/M-50M-GREEN-WH	8	0.9	500	70	Green	20000

Application Conditions	
IP	65
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	Ethoxylene Resin
Housing Material	High quality PVC
Finishing Colour	White

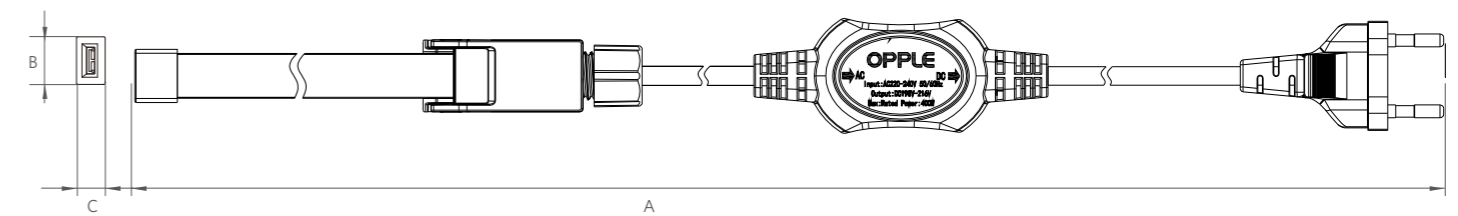
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Packaging Unit			
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)	Remark
LED-Strip-5050-HV-8W/M-50M-830-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-840-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-860-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-RED-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-YELLOW-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-BLUE-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-HV-8W/M-50M-GREEN-WH	155x330x330	6.65	1Roll	50M/Roll
LED-Strip-5050-WH-Accessory package	220x220x280	4.64	40	

### Dimensional Drawing



	8W
A (mm)	50000
B (mm)	14
C (mm)	6.5

### Accessory Information



LED-Strip-5050-WH-Accessory package



## LED EcoMax Strip

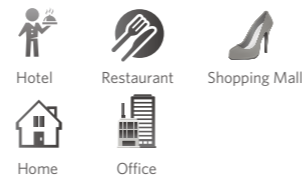
### Features

- Multiple lumen output and color options
- Anti-sulphide LED chip
- High quality, high transparency PVC
- Thick copper inner wire

### Benefits

- Fit different application uses
- Prevents light drop or color change
- Maintains lumen output and color over time
- Increased durability for bending, reduces risk of early failure

### Application



### Specification

Product Description	Power (W/m)	Power Factor	Lumen (lm/m)	CRI	CCT (K)	Average Lifetime(hrs)
LED-220/4-3528-60RN	4	0.9	200	70	3000	20000
LED-220/4-3528-60RC	4	0.9	200	70	4000	20000
LED-220/4-3528-60RR	4	0.9	200	70	6500	20000
LED-220/4-3528-60-RED	4	0.9	200	70	Red	20000
LED-220/4-3528-60-YELLOW	4	0.9	200	70	Yellow	20000
LED-220/4-3528-60-BLUE	4	0.9	200	70	Blue	20000
LED-220/4-3528-60-GREEN	4	0.9	200	70	Green	20000
LED-220/12-5050-60RN	12	0.9	400	70	3000	20000
LED-220/12-5050-60RC	12	0.9	400	70	4000	20000
LED-220/12-5050-60RR	12	0.9	400	70	6500	20000
LED-220/12-5050-60-RED	12	0.9	400	70	Red	20000
LED-220/12-5050-60-YELLOW	12	0.9	400	70	Yellow	20000
LED-220/12-5050-60-BLUE	12	0.9	400	70	Blue	20000
LED-220/12-5050-60-GREEN	12	0.9	400	70	Green	20000

Application Conditions	
IP	65
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

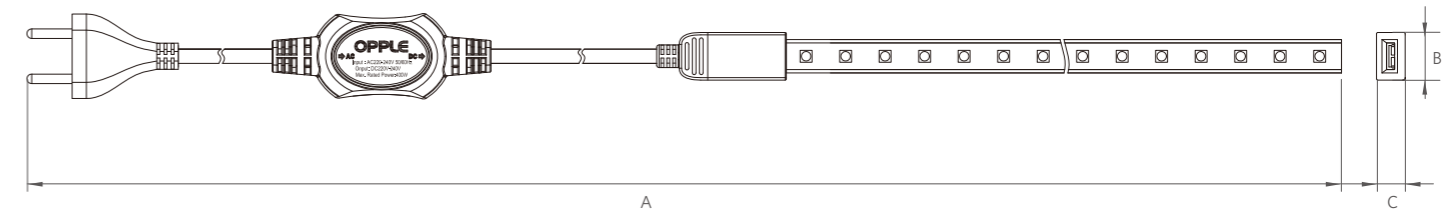
Mechanical and Finishing Properties	
Optical Material	High quality PVC
Housing Material	High quality PVC
Finishing Colour	Transparency

Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

### Packaging Information

Product Description	Packaging Unit			
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)	Remark
LED-220/4-3528-60RN	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60RC	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60RR	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60-RED	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60-YELLOW	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60-BLUE	155x330x330	9.50	1Roll	100M/Roll
LED-220/4-3528-60-GREEN	155x330x330	9.50	1Roll	100M/Roll
LED-220/12-5050-60RN	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60RC	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60RR	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60-RED	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60-YELLOW	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60-BLUE	155x330x330	6.90	1Roll	50M/Roll
LED-220/12-5050-60-GREEN	155x330x330	6.90	1Roll	50M/Roll
Accessories Bag-3528	220x220x280	3.36	40	
Accessories Bag-5050	220x220x280	4.32	40	

### Dimensional Drawing



	3528	5050
A (mm)	100000	50000
B (mm)	11	14
C (mm)	7.5	7

### Accessory Information



LED Strip 3528 Accessory package



LED Strip 5050 Accessory package



LED Utility Strip

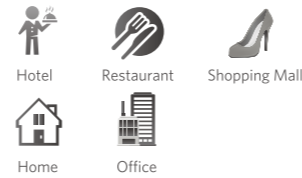
### Features

- High quality
- Good flexibility for any shape
- Easy installation

### Benefits

- Less than 0.1% failure rate
- Ideal choice for decoration
- Fit and forget

### Application



### Specification

Product Description	Power (W/m)	Power Factor	Lumen (lm/m)	CRI	CCT (K)	Average Lifetime(hrs)
LED-U-Strip-100M-4.5W/M-2216-6500K	4.5	0.9	200	70	6500	20000
LED-U-Strip-100M-4.5W/M-2216-4000K	4.5	0.9	200	70	4000	20000
LED-U-Strip-100M-4.5W/M-2216-3000K	4.5	0.9	200	70	3000	20000
LED-U-Strip-50M-8W/M-5730-6500K	8	0.9	400	70	6500	20000
LED-U-Strip-50M-8W/M-5730-4000K	8	0.9	400	70	4000	20000
LED-U-Strip-50M-8W/M-5730-3000K	8	0.9	400	70	3000	20000

Application Conditions	
IP	65
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	High quality PVC
Housing Material	High quality PVC
Finishing Colour	Transparency

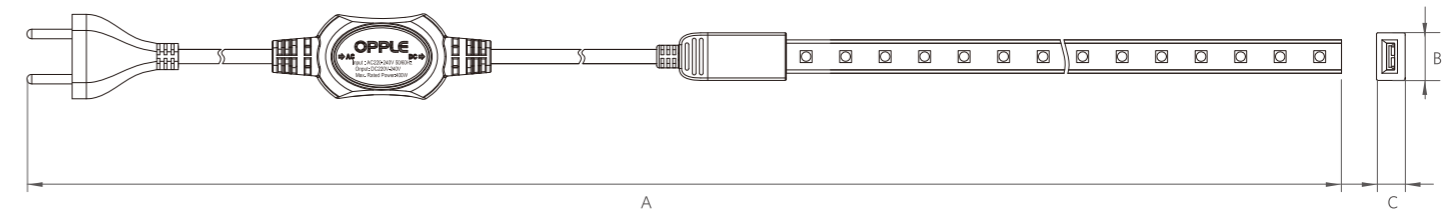
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC

CE CB

### Packaging Information

Product Description	Packaging Unit			
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)	Remark
LED-U-Strip-100M-4.5W/M-2216-6500K	330x330x155	9.40	1 Roll	100M/Roll
LED-U-Strip-100M-4.5W/M-2216-4000K	330x330x155	9.40	1 Roll	100M/Roll
LED-U-Strip-100M-4.5W/M-2216-3000K	330x330x155	9.40	1 Roll	100M/Roll
LED-U-Strip-50M-8W/M-5730-6500K	330x330x155	7.01	1 Roll	50M/Roll
LED-U-Strip-50M-8W/M-5730-4000K	330x330x155	7.01	1 Roll	50M/Roll
LED-U-Strip-50M-8W/M-5730-3000K	330x330x155	7.01	1 Roll	50M/Roll
LED-U-Strip-2216 Accessories Bag	280x220x220	4.40	40pcs	
LED-U-Strip-5730 Accessories Bag	280x220x220	4.40	40pcs	
LED-U-Strip-2216-100-Fixing	280x220x220	4.00	4000pcs	
LED-U-Strip-5730-100-Fixing	280x220x220	4.00	4000pcs	

### Dimensional Drawing

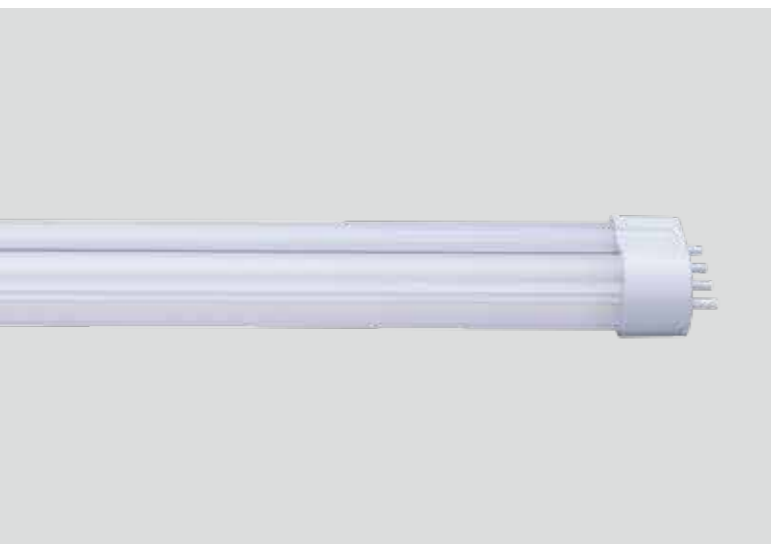


	2216	5730
A (mm)	100000	50000
B (mm)	11	14
C (mm)	7.5	7

### Accessory Information



LED-Strip-5050-WH-Accessory package



LED Utility H Tube Module

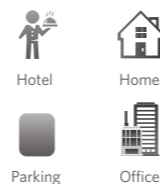
### Features

- 2G11 cap base
- Patented optical design
- Instant on, zero light run up
- Energy efficient

### Benefits

- Easily replace fluorescent H-tubes with LED
- Insure wide beam angle and uniform light effect
- 100% of light produced instantaneously, no wait time in winter
- Up to 60% energy savings compared to conventional fluorescent H-tube

### Application



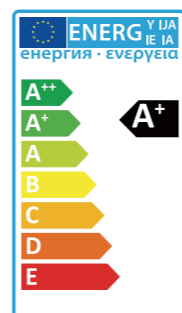
### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Beam Angle (°)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-U-H-module-15W-5700K	15	0.5	1400	93	180°	80	5700	20000	A+
LED-U-H-module-21W-5700K	21	0.5	2000	95	180°	80	5700	20000	A+

Application Conditions	
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

Mechanical and Finishing Properties	
Optical Material	PC
Housing Material	PC
Finishing Colour	White

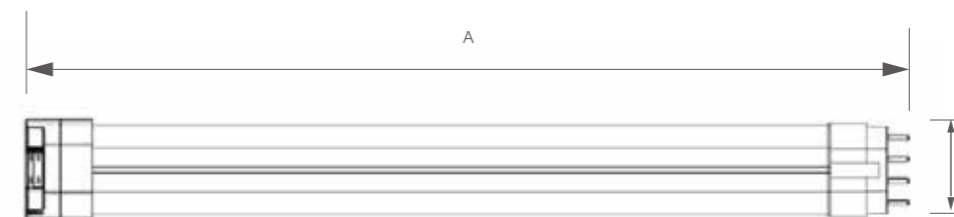
Electrical supply	
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

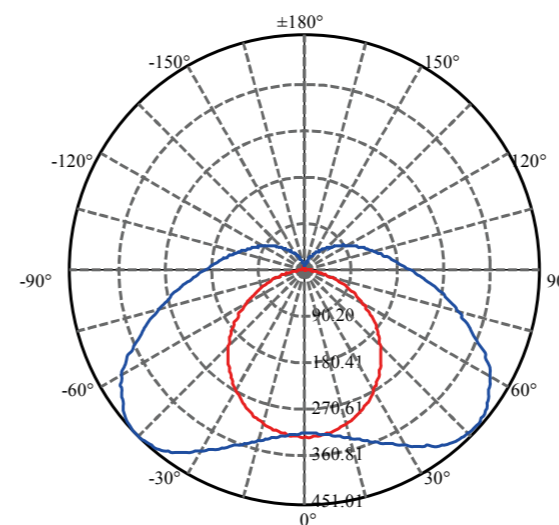
Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-U-H-module-21W-5700K	43x23x420	0.184	430x230x255	9.2	50
LED-U-H-module-15W-5700K	43x23x543	0.148	555x230x255	7.4	50

### Dimensional Drawing



	21W	15W
A (mm)	533	410
B (mm)	41.6	41.6

### Light Distribution







LED EcoMax Ceiling Module

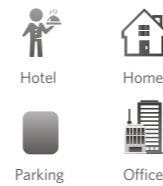
### Features

- High quality magnetic mount
- Optimized lens design
- Instant on, zero light run up
- Energy efficient

### Benefits

- Easily replace circular fluorescent lamps with LED
- Uniform light in ceiling lamps, no dark spots
- 100% of light produced instantaneously, no wait time in winter
- Up to 60% energy savings compared to conventional circular fluorescent lamp

### Application



### Specification

Product Description	Power (W)	Power Factor	Lumen (lm)	Efficacy (lm/W)	CRI	CCT (K)	Average Lifetime(hrs)	Energy Level
LED-E-C module-9W-3000K	9	0.5	750	83	80	3000	15000	A+
LED-E-C module-9W-4000K	9	0.5	900	100	80	4000	15000	A+
LED-E-C module-9W-5700K	9	0.5	1000	111	80	5700	15000	A+
LED-E-C module-13W-3000K	13	0.5	1150	88	80	3000	15000	A+
LED-E-C module-13W-4000K	13	0.5	1350	104	80	4000	15000	A+
LED-E-C module-13W-5700K	13	0.5	1400	108	80	5700	15000	A+
LED-E-C module-16W-3000K	16	0.5	1450	91	80	3000	15000	A+
LED-E-C module-16W-4000K	16	0.5	1700	106	80	4000	15000	A+
LED-E-C module-16W-5700K	16	0.5	1750	109	80	5700	15000	A+

#### Application Conditions

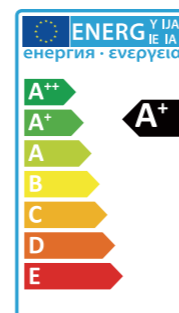
IP	20
Operating Temperature	-10-45°C
Application Temperature	25°C
Storage Environment	-25-50°C

#### Mechanical and Finishing Properties

Optical Material	PC
Housing Material	PC
Finishing Colour	White

#### Electrical supply

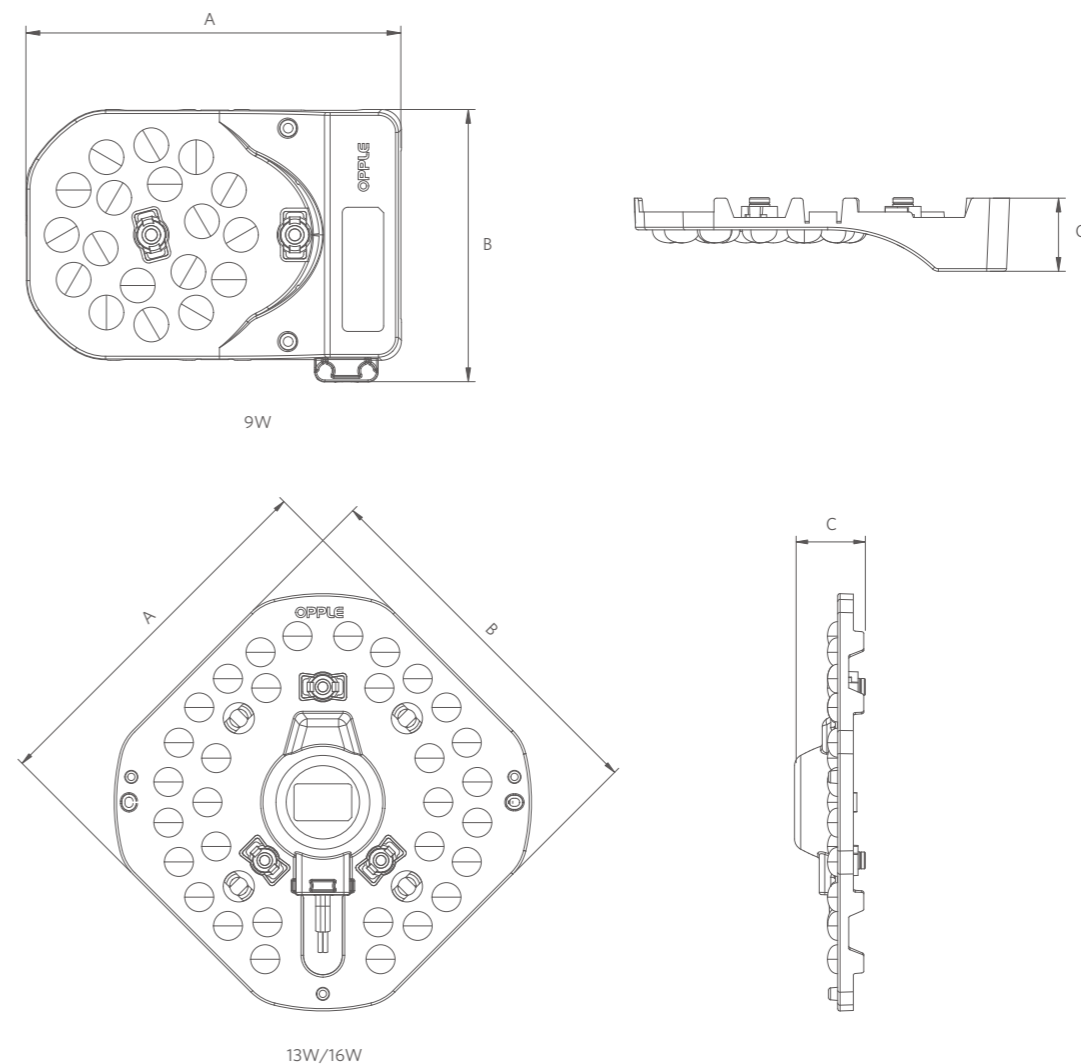
Frequency (Hz)	50/60Hz
Voltage (V)	220V-240V
AC/DC	AC



### Packaging Information

Product Description	Single Box(1pc/box)		Packaging Unit		
	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Dimensions(mm) (HxWxL)	Gross Weight (kg)	Packing QTY (pcs/CTN)
LED-E-C module-9W-3000K	28x106x138	0.114	125x290x300	2.28	20
LED-E-C module-9W-4000K	28x106x138	0.114	125x290x300	2.28	20
LED-E-C module-9W-5700K	28x106x138	0.114	125x290x300	2.28	20
LED-E-C module-13W-3000K	32x162x162	0.194	180x340x340	3.88	20
LED-E-C module-13W-4000K	32x162x162	0.194	180x340x340	3.88	20
LED-E-C module-13W-5700K	32x162x162	0.194	180x340x340	3.88	20
LED-E-C module-16W-3000K	32x162x162	0.194	180x340x340	3.88	20
LED-E-C module-16W-4000K	32x162x162	0.194	180x340x340	3.88	20
LED-E-C module-16W-5700K	32x162x162	0.194	180x340x340	3.88	20

### Dimensional Drawing



	9W	13W/16W
A (mm)	136	162
B (mm)	99	162
C (mm)	27	30