



# Essential LED - Affordable LED solution

## Essential LED

Essential LED is an affordable LED spot lamp that is suitable for replacing halogen spot lamps. It provides a natural lighting effect as well as instant energy savings – an environmentally friendly solution. The Philips Essential LED family is designed for spot and general lighting applications in the hospitality, retail and home segments.

### Benefits

- Reduced operational cost thanks to energy savings of up to 80%
- Lower maintenance cost thanks to more than five times longer lifetime than conventional halogen spot lamps
- Easy retrofit, upgrading the existing luminaire to LED technology

### Features

- Lower energy consumption compared to halogen spot lamp
- Retrofit replacement of halogen spot lamps with existing transformers
- No UV/IR or mercury

### Application

- Hospitality (restaurants, hotels, coffee bars)
- Retail
- Homes

# Essential LED

## Versions



SL052 RD SPOT WH WV



LEDspot ESS 7W E27 R63 827-865  
12D ND RCA



LEDspot ESS 10W E27 R80  
827-865 12D ND RCA

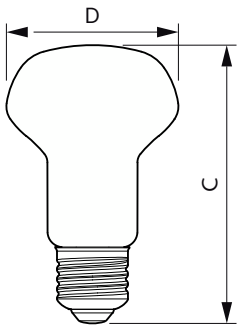


65W E27 A60 FR



LEDBright T70 E27

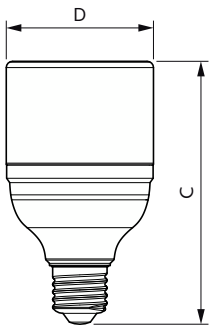
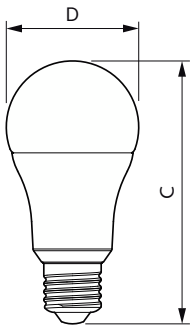
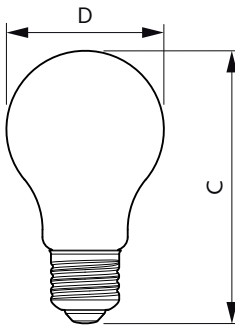
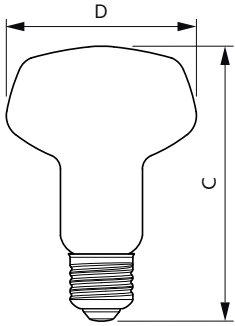
## Dimensional drawing



Product	D	C
ESS LED 7W E27 2700K 230V R63	63 mm	102 mm
ESS LED 7W E27 6500K 230V R63	63 mm	102 mm

# Essential LED

## Dimensional drawing



Product	D	C
ESS LED 9W E27 2700K 230V R80	80 mm	115 mm
ESS LED 9W E27 6500K 230V R80	80 mm	115 mm

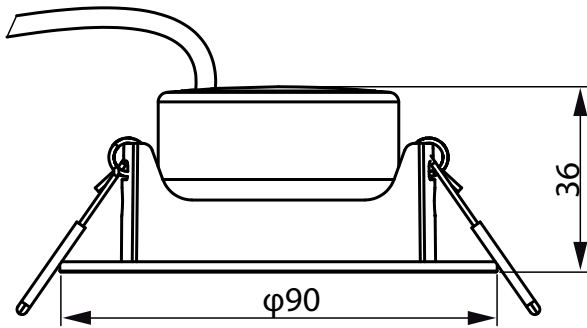
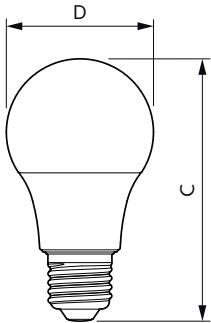
Product	D	C
LEDBulb 10-75W E27 2700K 1PF/12 TR	60 mm	108 mm
LEDBulb 10-75W E27 6500K 1PF/12 TR	60 mm	108 mm

Product	D	C
ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	60 mm	120 mm
ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	60 mm	120 mm
ESS LEDBulb 13W E27 3000K 1CT/12 TR	60 mm	120 mm
ESS LEDBulb 13W E27 6500K 1CT/12 TR	60 mm	120 mm
LEDBulb 13-100W E27 2700K 1PF/12 TR	60 mm	120 mm
LEDBulb 13-100W E27 6500K 1PF/12 TR	60 mm	120 mm
LEDBulb 13W E27 3000K 1PF/12 TR	60 mm	120 mm
LEDBulb 13W E27 6500K 1PF/12 TR	60 mm	120 mm

Product	D	C
LEDBright 20W E27 3000K HV 1PF/12 AR	70 mm	125.7 mm
LEDBright 20W E27 6500K HV 1PF/12 AR	70 mm	125.7 mm

# Essential LED

## Dimensional drawing



Product	D	C
ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	60 mm	108 mm
ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	60 mm	108 mm
LEDBulb 5-40W E27 6500K 1PF/12 TR	60 mm	108 mm
LEDBulb 5.5-40W E27 2700K 1PF/12 TR	60 mm	108 mm
LEDBulb 8-60W E27 2700K 1PF/12 TR	60 mm	108 mm
LEDBulb 8-60W E27 6500K 1PF/12 TR	60 mm	108 mm

### Light Technical

Color rendering index (CRI) 80

### Controls and Dimming

Dimmable No

## General Information

Order Code	Full Product Name	Cap-Base	Rated		
			Lifetime (Hours)	Switching Cycle	Nominal lifetime
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	-	-	7,500	-
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	-	-	7,500	-
929001857608	ESS LED 7W E27 2700K 230V R63	E27	-	50,000	15,000 hour(s)
929001857808	ESS LED 7W E27 6500K 230V R63	E27	-	50,000	15,000 hour(s)
929001857908	ESS LED 9W E27 2700K 230V R80	E27	-	50,000	15,000 hour(s)
929001858108	ESS LED 9W E27 6500K 230V R80	E27	-	50,000	15,000 hour(s)
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)

Order Code	Full Product Name	Cap-Base	Rated		
			Lifetime (Hours)	Switching Cycle	Nominal lifetime
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)

## Essential LED

Order Code	Full Product Name	Cap-Base	Rated		
			Lifetime (Hours)	Switching Cycle	Nominal lifetime
929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	E27	15,000 hour(s)	50,000	15,000 hour(s)
929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)

Order Code	Full Product Name	Cap-Base	Rated		
			Lifetime (Hours)	Switching Cycle	Nominal lifetime
929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	E27	12,000 hour(s)	50,000	12,000 hour(s)
929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	E27	-	50,000	9,000 hour(s)
929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	E27	-	50,000	9,000 hour(s)

### Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature		Color Code	LLMF At End Of Nominal	
			(Nom)			Lifetime (Nom)	Luminous Flux
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	-		2700 K	-	-	500 lm
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	-		6500 K	-	-	550 lm
929001857608	ESS LED 7W E27 2700K 230V R63	120 degree(s)		2700 K	827	70 %	680 lm
929001857808	ESS LED 7W E27 6500K 230V R63	120 degree(s)		6500 K	865	70 %	720 lm
929001857908	ESS LED 9W E27 2700K 230V R80	120 degree(s)		2700 K	827	0.7 %	880 lm
929001858108	ESS LED 9W E27 6500K 230V R80	120 degree(s)		6500 K	865	0.7 %	950 lm
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	150 degree(s)		3000 K	830	70 %	1,350 lm
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	150 degree(s)		3000 K	830	70 %	1,350 lm
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	150 degree(s)		6500 K	865	70 %	1,450 lm
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	150 degree(s)		6500 K	865	70 %	1,450 lm
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	150 degree(s)		2700 K	827	70 %	1,521 lm
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	150 degree(s)		2700 K	827	70 %	1,521 lm
929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	150 degree(s)		6500 K	865	70 %	1,521 lm
929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	150 degree(s)		6500 K	865	70 %	1,521 lm
929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	150 degree(s)		2700 K	827	70 %	1,055 lm
929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	150 degree(s)		6500 K	865	70 %	1,055 lm
929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	150 degree(s)		2700 K	827	70 %	470 lm
929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	150 degree(s)		6500 K	865	70 %	470 lm
929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	150 degree(s)		2700 K	827	70 %	806 lm
929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	150 degree(s)		2700 K	827	70 %	806 lm
929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	150 degree(s)		6500 K	865	70 %	806 lm
929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	150 degree(s)		6500 K	865	70 %	806 lm
929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	150 degree(s)		3000 K	830	70 %	2,250 lm
929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	150 degree(s)		6500 K	865	70 %	2,350 lm

### Operating and Electrical

Order Code	Full Product Name	Input Frequency	Input Voltage	Line Frequency	Power Consumption	Starting Time (Nom)	Wattage Equivalent
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	50 or 60 Hz	110 to 240 V	50 or 60 Hz	6.2 W	-	-
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	50 or 60 Hz	110 to 240 V	50 or 60 Hz	6.2 W	-	-
929001857608	ESS LED 7W E27 2700K 230V R63	50 to 60 Hz	-	50 to 60 Hz	7 W	0.5 s	70 W
929001857808	ESS LED 7W E27 6500K 230V R63	50 to 60 Hz	-	50 to 60 Hz	7 W	0.5 s	70 W
929001857908	ESS LED 9W E27 2700K 230V R80	50 to 60 Hz	-	50 to 60 Hz	9 W	0.5 s	80 W
929001858108	ESS LED 9W E27 6500K 230V R80	50 to 60 Hz	-	50 to 60 Hz	9 W	0.5 s	80 W
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	90 W
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	90 W

## Essential LED

Order Code	Full Product Name	Input Frequency	Input Voltage	Line Frequency	Power Consumption	Starting Time (Nom)	Wattage Equivalent
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	90 W
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	90 W
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	100 W
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	100 W
929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	100 W
929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	13 W	0.5 s	100 W
929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	10 W	0.5 s	75 W
929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	10 W	0.5 s	75 W
929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	5.5 W	0.5 s	40 W
929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	5 W	0.5 s	40 W
929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	8 W	0.5 s	60 W
929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	8 W	0.5 s	60 W
929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	50 to 60 Hz	-	50 to 60 Hz	8 W	0.5 s	60 W
929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	50 to 60 Hz	-	50 to 60 Hz	8 W	0.5 s	60 W
929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	50 to 60 Hz	-	50 to 60 Hz	20 W	0.5 s	140 W
929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	50 to 60 Hz	-	50 to 60 Hz	20 W	0.5 s	145 W

### Temperature

Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)	Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	-20 to +40 °C	-	929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	-	95 °C
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	-20 to +40 °C	-	929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	-	95 °C
929001857608	ESS LED 7W E27 2700K 230V R63	-	68 °C	929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	-	90 °C
929001857808	ESS LED 7W E27 6500K 230V R63	-	68 °C	929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	-	90 °C
929001857908	ESS LED 9W E27 2700K 230V R80	-	72 °C	929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	-	75 °C
929001858108	ESS LED 9W E27 6500K 230V R80	-	72 °C	929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	-	75 °C
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	-	95 °C	929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	-	90 °C
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	-	95 °C	929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	-	90 °C
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	-	95 °C	929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	-	90 °C
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	-	95 °C	929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	-	90 °C
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	-	95 °C	929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	-20 °C to 45 °C	85 °C
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	-	95 °C	929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	-20 °C to 45 °C	85 °C

### Mechanical and Housing

## Essential LED

Order Code	Full Product Name	Bulb Finish	Bulb Shape	Housing Color
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	-	-	White
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	-	-	White
929001857608	ESS LED 7W E27 2700K 230V R63	-	R63	-
929001857808	ESS LED 7W E27 6500K 230V R63	-	R63	-
929001857908	ESS LED 9W E27 2700K 230V R80	-	R80	-
929001858108	ESS LED 9W E27 6500K 230V R80	-	R80	-
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	Frosted	A65	-
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	Frosted	A65	-
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	Frosted	A65	-
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	Frosted	A65	-
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	Frosted	A65	-
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	Frosted	A65	-
929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	Frosted	A65	-

Order Code	Full Product Name	Bulb Finish	Bulb Shape	Housing Color
929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	Frosted	A65	-
929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	Frosted	A60	-
929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	Frosted	A60	-
929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	Frosted	A60	-
929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	Frosted	A60	-
929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	Frosted	A60	-
929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	Frosted	A60	-
929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	Frosted	A60	-
929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	Frosted	A60	-
929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	Frosted	T70	-
929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	Frosted	T70	-

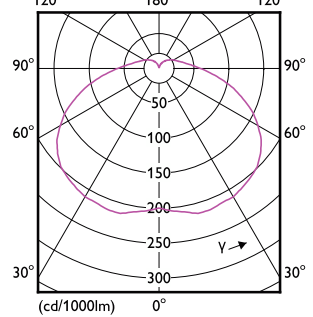
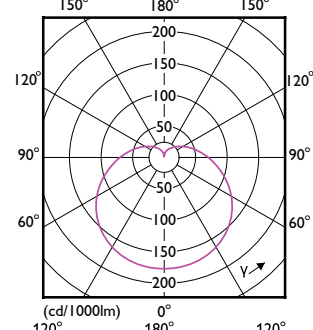
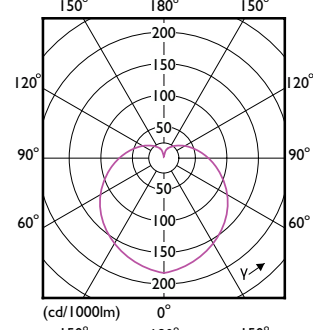
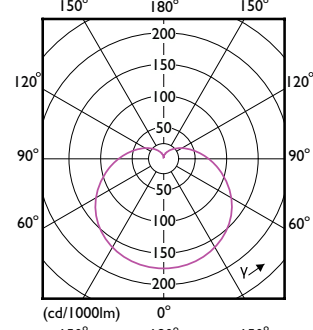
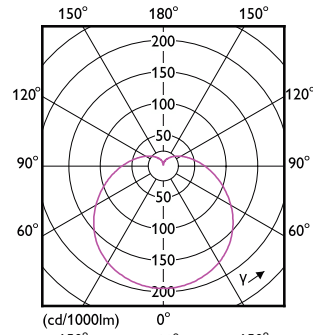
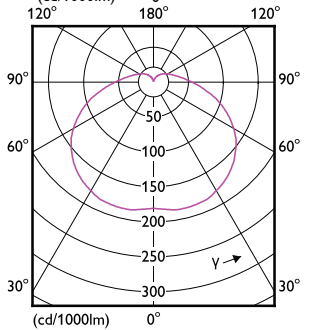
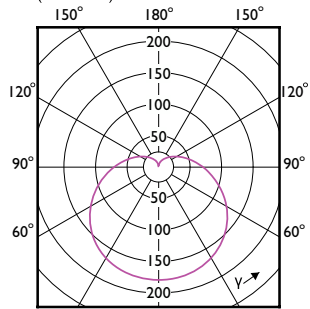
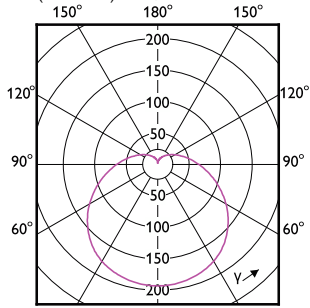
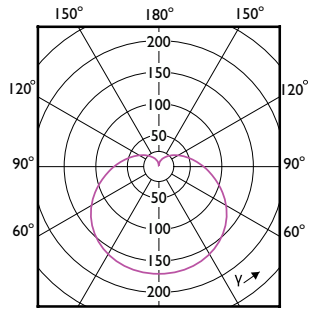
## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Ingress protection code
929002655401	SL052 RD SPOT 070 6.2W 27K WH WV	-	IP20
929002655601	SL052 RD SPOT 070 6.2W 65K WH WV	-	IP20
929001857608	ESS LED 7W E27 2700K 230V R63	7 kWh	-
929001857808	ESS LED 7W E27 6500K 230V R63	7 kWh	-
929001857908	ESS LED 9W E27 2700K 230V R80	9 kWh	-
929001858108	ESS LED 9W E27 6500K 230V R80	9 kWh	-
929002305027	LEDBulb 13W E27 3000K 1PF/12 TR	13 kWh	-
929002305028	ESS LEDBulb 13W E27 3000K 1CT/12 TR	13 kWh	-
929002305327	LEDBulb 13W E27 6500K 1PF/12 TR	13 kWh	-
929002305328	ESS LEDBulb 13W E27 6500K 1CT/12 TR	13 kWh	-

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Ingress protection code
929002306867	LEDBulb 13-100W E27 2700K 1PF/12 TR	13 kWh	-
929002306868	ESS LEDBulb 13-100W E27 2700K 1CT/12 TR	13 kWh	-
929002307067	LEDBulb 13-100W E27 6500K 1PF/12 TR	13 kWh	-
929002307068	ESS LEDBulb 13-100W E27 6500K 1CT/12 TR	13 kWh	-
929002306567	LEDBulb 10-75W E27 2700K 1PF/12 TR	10 kWh	-
929002306767	LEDBulb 10-75W E27 6500K 1PF/12 TR	10 kWh	-
929002305967	LEDBulb 5.5-40W E27 2700K 1PF/12 TR	6 kWh	-
929002306167	LEDBulb 5-40W E27 6500K 1PF/12 TR	5 kWh	-
929002306267	LEDBulb 8-60W E27 2700K 1PF/12 TR	8 kWh	-
929002306268	ESS LEDBulb 8-60W E27 2700K 1CT/12 TR	8 kWh	-

# Essential LED

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Ingress protection code
929002306467	LEDBulb 8-60W E27 6500K 1PF/12 TR	8 kWh	-
929002306468	ESS LEDBulb 8-60W E27 6500K 1CT/12 TR	8 kWh	-
929002433611	LEDBright 20W E27 3000K HV 1PF/12 AR	-	-
929002433711	LEDBright 20W E27 6500K HV 1PF/12 AR	-	-





# Essential LED

