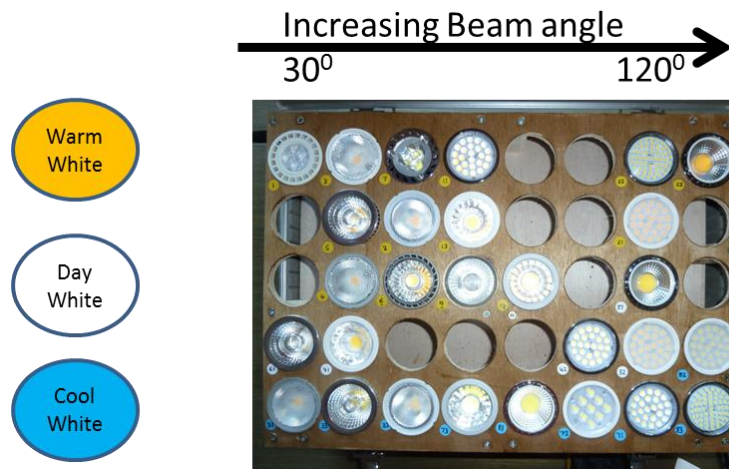


3

GU10 'Database'

- These sheets contain a summary of the capabilities of each LED which has been assigned a unique number. The label on the bulb, its label to the bottom left of the hole (holder) in the kit, and the number to the top left of its entry in this 'database' should all correspond
- The kit with the yellowest bulbs at the top (yellow labels) through to the 'bluest' colour bulbs at the bottom. And, organised with the narrowest beam angles on the left through to the widest on the right:



- When selecting bulbs you should home in of the area of the tray which best represents your choice of beam angle and bulb colour

- Each entry in the following 'database' summarises the key characteristics of the bulbs:

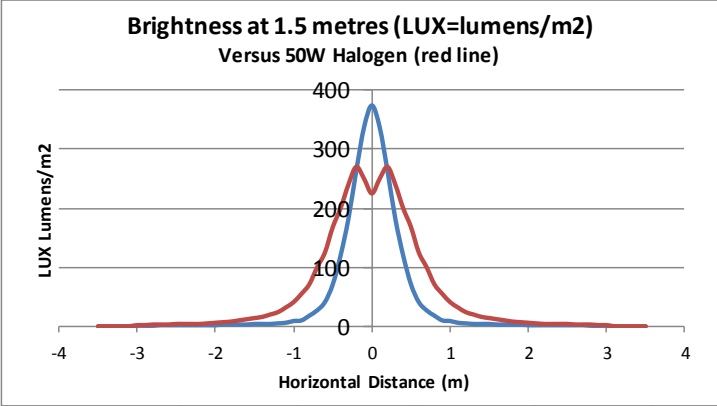
Colour: ranges from warm white to cool white

Wattage: this shouldn't matter too much as the shift from a 50W halogen to a 5W LED is more important than whether the LED is 4W or 6W!

Guarantee: you should aim to purchase bulbs with 3 or ideally 5 year guarantees. Most LEDs come with a quoted life of 25,000+ hours but this doesn't represent the reliability of the bulb well, the guarantee is a better indicator. Halogens have a 2,000 hour life.

Depth: this is the depth of the bulb from face to socket. Halogens are about 55mm and most sockets will accommodate deeper LED bulbs – but you need to check by trying the bulbs in your light fittings

1	Description:	1 TCP Warm white GU10 4W 250lumen 30deg Normal £5	
	Colour	Warm white	
	Suppliers Specification	Transition Bath Measurement	
	Lumens	250	252
	Beam Angle	30	15
	Wattage	4.0	4.2
	Cost (non-dim/dim)	£5/£0	Homebase
	Guarantee (yrs)	0	
	Depth	50mm	
	Dimmable	No	
	Comment	Homebase LED - low lumen output, no guarantee	



'Brightness graph' and 'Transition Bath Measurements': this is experimental and should not be taken as gospel, but has been provided for 2 reasons:

1. Manufacturer beam angles are necessarily a good indicator of the distribution of light, so we thought the brightness graph which we measured may help? The red line is a standard halogen bulb
2. Our experience we ebay sourced bulbs is that they very rarely met their specifications, so we started measuring them. The bulbs in this kit are from carefully selected suppliers whose figures for lumens and watts are reasonably accurate

Lumens defines how much light it outputs, 400 to 500 lumens is equivalent to a 50W halogen

Supplier and price: the price includes the prices of the dimmable and non-dimmable versions of the bulbs. £0 indicates there isn't that version available. In the online version of this database the link against the price takes you straight to the suppliers website

Dimmable: this just indicates whether the bulb in the kit is dimmable, not whether a version is available (see price above)

Description	Socket Type	Colour	Colour Temperature (K)	Beam Angle	Wattage	Claimed Halogen Equivalent	Claimed lumens	CRI	Life (hours)	Guarantee	Depth (mm)	Distributor	Non-dim Cost	Dimmable Cost
1 TCP Warm white GU10 4W 250lumen 30deg Normal £5	GU10	Warm white	3000	30	4	50	250	80	0	0	50	Homebase	£5.00	£0.00
2 Megaman Warm white GU10 4W 320lumen 35deg Normal £7	GU10	Warm white	2800	35	4	20	320	80	25000	5	58	LEDStop	£6.75	£0.00
3 Megaman Warm white GU10 7W 500lumen 35deg Normal £0	GU10	Warm white	2800	35	7	50	500	80	25000	5	56	LEDStop	£0.00	£12.84
4 Megaman Warm white GU10 6W 410lumen 35deg Normal £0	GU10	Warm white	2800	35	6	35	410	80	25000	5	58	LEDStop	£0.00	£9.80
5 LUMiLife Warm white GU10 6W 450lumen 38deg Normal £8	GU10	Warm white	3000	38	6	60	450	80	25000	5	72	LEDHut	£8.33	£9.33
6 CivilLight Warm white GU10 7W 345lumen 36deg Normal £15	GU10	Warm white	2700	36	7	50	345	95	25000	3	58	Well-Lit	£0.00	£14.98
7 Spiral XL Warm white GU10 6W 390lumen 45deg Normal £0	GU10	Warm white	0	45	6	50	390	80	50000	5	77	LightRabbit	£0.00	£9.24
9 Generic Halogen Warm white GU10 50W 560lumen 35deg Norm GU10	GU10	Warm white	2900	35	50	50	560	100	2000	0	52	Homebase	£1.50	£1.50
11 LUMiLife Warm white GU10 5W 350lumen 60deg SMD £7	GU10	Warm white	2800	60	5	60	350	80	25000	5	53	LEDHut	£7.49	£8.49
12 Lightwell Warm white GU10 6W 580lumen 60deg COB £9	GU10	Warm white	0	60	6	60	580	0	50000	5	58	LightRabbit	£8.79	£9.79
13 Well-Lit Warm white GU10 5W 440lumen 60deg COB £10	GU10	Warm white	2700	60	5	50	440	80	25000	3	56	Well-Lit	£9.98	£11.98
21 LUMiLife Warm white GU10 5W 330lumen 120deg SMD £6	GU10	Warm white	3000	120	4.5	0	330	80	25000	5	53	LEDHut	£5.68	£8.18
22 Lightwell Warm white GU10 5W 380lumen 120deg SMD £0	GU10	Warm white	0	120	4.5	60	380	80	50000	5	53	LightRabbit	£0.00	£6.66
23 LUMiLife Warm white GU10 5W 320lumen 90deg SMD £6	GU10	Warm white	3000	90	4.5	0	320	80	25000	5	55	LEDHut	£6.39	£6.89
31 Megaman Cool white GU10 6W 410lumen 35deg COB £0	GU10	Cool white	4000	35	6	50	410	80	25000	5	56	LEDStop	£0.00	£9.80
32 Megaman Cool white GU10 4W 320lumen 35deg COB £7	GU10	Cool white	4000	35	4	35	320	80	25000	5	57	LEDStop	£6.75	£0.00
33 LUMiLife Cool white GU10 6W 500lumen 38deg COB £8	GU10	Cool white	6000	38	6	0	500	80	25000	5	72	LEDHut	£8.33	£9.33
41 Well-Lit Natural white GU10 5W 480lumen 60deg COB £10	GU10	Natural white	4000	60	5	0	480	80	25000	3	54	Well-Lit	£9.98	£11.98
42 LUMiLife Day white GU10 5W 460lumen 60deg SMD £7	GU10	Day white	4500	60	5	60	460	80	25000	5	56	LEDHut	£7.49	£8.49
51 LUMiLife Day white GU10 5W 360lumen 90deg COB £6	GU10	Day white	4500	90	4.5	50	360	80	25000	5	55	LEDHut	£6.39	£6.89
52 LUMiLife Day white GU10 5W 350lumen 120deg SMD £6	GU10	Day white	4500	120	4.5	55	350	80	25000	5	54	LEDHut	£5.98	£8.48
61 LUMiLife Day white GU10 6W 500lumen 38deg COB £8	GU10	Day white	4500	38	6	60	500	80	25000	5	72	LEDHut	£8.33	£9.33
71 LUMiLife Cool white GU10 5W 460lumen 60deg SMD £7	GU10	Cool white	6000	60	5	60	460	80	25000	5	54	LEDHut	£7.49	£8.49
72 Lightwell Cool white GU10 4W 360lumen 60deg COB £4	GU10	Cool white	6000	60	4	40	360	80	50000	5	58	LightRabbit	£3.99	£0.00
73 Lightwell Cool white GU10 6W 580lumen 60deg COB £9	GU10	Cool white	0	60	6	60	580	80	50000	5	58	LightRabbit	£8.79	£9.79
81 LUMiLife Cool white GU10 5W 360lumen 90deg COB £6	GU10	Cool white	6000	90	4.5	50	360	80	25000	5	56	LEDHut	£6.39	£6.89
82 LUMiLife Cool white GU10 5W 350lumen 120deg SMD £6	GU10	Cool white	6000	120	4.5	55	350	80	25000	5	54	LEDHut	£5.68	£8.18
83 Lightwell Cool white GU10 5W 380lumen 120deg SMD £7	GU10	Cool white	6000	120	4.5	50	380	80	50000	5	55	LightRabbit	£0.00	£6.66