

ITEM NO.	TITLE	DESCRIPTION	DWG NO.	QUANTITY	DESIGNED/SOURCED	MATERIAL	MANUFACTURING PROCESS	FINISH	TOOLING COST(GBP)	COST PER UNIT* (GBP)	COST PER PRODUCT (GBP)
1	Bike Light Lid	White Translucent Lid	B-001	1000	Designed	PP Copolymer	Blow Moulding	Smooth/Glossy	600	2	2000
2	Bike Light Body	White Translucent Housing (with printed words)	B-002	1000	Designed	PP Copolymer	Blow Moulding	Textured	600	2.2	2200
3	USB Cover	Protective cover for USB Port	B-003	1000	Designed	Silicone Rubber	Injection Moulding	Matte Texture	100	0.2	200
4	Mounting Strap	Rubber mounting strap (multicolour)	B-004	1000	Designed	Silicone Rubber	Injection Moulding	Textured	150	0.3	300
5	Li-ion Battery	3.7 V 260 mAh Rechargeable Battery	N/A	1000	Sourced	Lithium-ion	N/A	N/A	N/A	0.6	600
6	PCB	Printed Circuit Board (custom shape)	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.2	200
7	O-Ring	Rubber ring to seal off the assembly	B-005	1000	Designed	Silicone Rubber	Injection Moulding	Smooth	100	0.1	100
8	White LEDs	Surface Mount LEDs 1206 Series Package	N/A	4000	Sourced	N/A	N/A	N/A	N/A	0.01	40
9	Red LEDs	Surface Mount LEDs 1206 Series Package	N/A	4000	Sourced	N/A	N/A	N/A	N/A	0.01	40
10	Resistors	Surface Mount Resistors 10k 805 Series Package	N/A	16000	Sourced	N/A	N/A	N/A	N/A	0.002	32
11	Capacitors	Surface Mount Capacitors 805 Series Package	N/A	2000	Sourced	N/A	N/A	N/A	N/A	0.002	4
12	Transistors	Surface Mount Transistors 805 Series Package	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.001	1
13	Microcontroller	Surface Mount 8-pin microcontroller	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.001	1
14	USB mini port	Surface Mount mini USB - B connector	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.002	2
15	Tactile Switch	Surface Mount Tactile Switch	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.001	1
16	Power Management IC	Battery power management integrated circuit	N/A	1000	Sourced	N/A	N/A	N/A	N/A	0.002	2
									1550	5.631	5723

*Per Unit total consists of a set of front and rear lights

ITEM	SIZE	QUANTITY	STOCK	IF NON-STOCK, WHERE TO SOURCE	UNIT COST (£)	TOTAL COST (£)
High Impact Polystyrene -	1372 x 660 x 2.0mm	1	Y		20.5	20.5
High Impact Polystyrene -	1372 x 660 x 3.0mm	1	Y		30.7	30.7
ABS sheets - White	2500 x 1250 x 1.0mm	1	N	https://www.plasticstock.co.uk/	21.38	21.38
ABS sheets - White	1220 x 610 x 1.5mm	1	N	https://uk.rs-online.com/	22.73	22.73
ABS sheets - White	2500 x 1250 x 2.0mm	1	N	https://www.plasticstock.co.uk/	42.76	42.76
ABS sheets - White	1220 x 610 x 3.0mm	1	N	https://uk.rs-online.com/	44.76	44.76
ABS sheets - White	2500 x 1250 x 4.0mm	1	N	https://www.plastock.co.uk/	185.16	185.16
ABS sheets - White	2500 x 1250 x 5.0mm	1	N	https://www.plasticstock.co.uk/	106.88	106.88
Resin 8045	2 kg	1	N	https://www.renishaw.co.uk/	70	70
Resin 8891	2 kg	1	N	https://www.renishaw.co.uk/	70	70
Silicone for moulds	7.96 kg	1	N	https://www.benam.co.uk/	133	133
Surface Mount LEDs 1206	N/A	4	N	https://uk.farnell.com/leds	1.05	4.2
Surface Mount LEDs 1206	N/A	4	N	https://uk.farnell.com/leds	0.095	0.38
Surface Mount Resistors 10k	N/A	14	N	https://www.mouser.co.uk/	0.09	0.36
Surface Mount Capacitors 805	N/A	4	N	https://www.mouser.co.uk/	0.15	0.6
Surface Mount Transistors 805	N/A	2	N	https://uk.farnell.com/leds	0.035	0.07
Surface Mount 8-pin microcontroller	N/A	2	N	https://uk.rs-online.com/	0.56	1.12
Surface Mount mini USB - B connector	N/A	2	N	https://uk.rs-online.com/	0.73	1.46
Surface Mount Tactile Switch	N/A	2 (comes in 1000s)	N	https://uk.rs-online.com/	0.36	3.63
Battery power management integrated circuit	N/A	2	N	https://www.digikey.co.uk/	0.63	1.26
Rechargeable Li-ion Battery	N/A	2	N	https://www.alibaba.com/	2	4
RAL 3024 Luminous Red Spray paint	400 ml	1	N	https://www.yoursprayer.co.uk/	12.49	12.49
White primer spray paint	400 ml	1	N	https://www.sprayster.co.uk/	3.19	3.19
TOTAL						780.63