Table 3.5 Summary of lamp characteristics

Comments		Large variety of shapes and sizes of lamp			There are some higher power lamps available for special applications such as cold stores										The lamp range is increasing rapidly
Life (h) (1)		1,000	1,500–5,000		8,000–12,000	8,000-17,000 (5)	8,000–19,000 (5)		Up to 15,000 (5)	5,000–15,000		8,000-10,000		2,000 – 7000	6,000–10,000
Dimming		Easy to 0%	Easy to 0%		Limited to 25%	Easy to 2%	Easy to 2%		Some types to 5%	Some types to 20%		No		°Z	Limited (7)
Run-up time		Instant	Instant		30 sec	30 sec	30 sec		15–90 sec	90 sec		4 min		1–8 min	2 min
Colour rendering (Ra)		100	100 (3)		50 – 90	50–98	82–95		85–90	> 80		40–50		06-09	78–93
Colour temp (K)		2500–2700	2700–3200		3000-6500	2700-17000	2700-17000		2700–6500	2700		3200–3900		3000-6000	3000–4400
Control		°Z	No (2)		Yes	Yes	Yes		Yes	No		Yes		Yes	Yes
Efficacy (lm/W)		8–14	15–25		50-80	50-96	20–93 (6)		30–70	20–50		33–57		86-09	65–97
Power range (W)		1–1000	4-2000		25–140	13–70	6-120		8–120	5–30		60-1040		85–2050	20–250
Output range (lm)		5–12,000	40–50,000		1000–10,500	650–6200	120–8850		250–9000	100–1500	nercury	2000–58,500	sdı	5,200–200,000	1,600–26,000
Lamp name	Incandescent	GLS	TH	Fluorescent	T12 (4)	T8	T5	Compact (CFL)	CFLni (Non integral control gear)	CFLi (Integral control gear)	High pressure mercury	MBF/HPL	Metal halide lamps	Quartz tube	Ceramic Tube