

# LED EFFICIENCY TABLES



## Tube Lights

	Conventional	LED Equivalent	Energy Saving
Flourescent	18W - 2ft	LED Tube 8W	55%
Flourescent	24W - 3ft	LED Tube 14W	58%
Flourescent	36W - 4ft	LED Tube 18W	50%
Flourescent	58W - 5ft	LED Tube 22W	65%



## Floodlights

	Conventional	LED Equivalent	Energy Saving
Halogen	100W	LED 10W	90%
Halogen	150W	LED 25W	86%
Halogen	250W	LED 30W	88%
Halogen	350W	LED 50W	85%
Halogen	500W	LED 100W	80%



## Bulbs / Downlights

	Conventional	LED Equivalent	Energy Saving
Incadescent	45W	LED 5W	88%
Incadescent	60W	LED 7W	88%
Halogen	100W	LED 10W	90%
Incadescent	40W	LED R50 5W	87%
Halogen	100W	LED R80 9W	87%

## LED Efficiency and Colour Comparison

Light Source Type	Nominal efficiency (lumens/watt)	Lifetime / MTF (hours)	Colour temperature (kelvin)	Colour description
Incandescent	4-17	2 - 2000	2400-3400	Warm white (yellowish)
Halogen	16-23	3000 - 6000	3200	Soft white (yellowish)
Fluorescent	52-100	8 000 - 20 000	2700-5000	Various colour temperatures
LED	10-110	50 000 - 100 000	2700-6000	Various colour temperatures

Degrees Kelvin	Type of Light Source	Indoor (3200k) Color Balance	Outdoor (5500k) Color Balance
1700-1800K	Match Flame		
1850-1930K	Candle Flame		
2000-3000K	Sun: At Sunrise or Sunset		
2500-2900K	Household Tungsten Bulbs		
3000K	Tungsten lamp 500W-1k		
3200-3500K	Quartz Lights		
3200-7500K	Fluorescent Lights		
3275K	Tungsten Lamp 2k		
3380K	Tungsten Lamp 5k, 10k		
5000-5400K	Sun: Direct at Noon		
5500-6500K	Daylight (Sun + Sky)		
5500-6500K	Sun: through clouds/haze		
6000-7500K	Sky: Overcast		
6500K	RGB Monitor (White Pt.)		
7000-8000K	Outdoor Shade Areas		
8000-10000K	Sky: Partly Cloudy		

