












Feature	Incandescent	Tungsten halogen	Linear fluorescent T8 (Φ26)	Linear fluorescent T5 (Φ16)	Compact fluorescent ¹⁾	Induction fluorescent	LED	Metal halide	High pressure sodium	Low pressure sodium	Mercury vapor	
lamp image												
luminous flux, max	24 000 lm	44 000 lm	8 200 lm	7 200 lm	9 000 lm	34 000 lm	1 900 lm	225 000 lm	146 000 lm	32 000 lm	63 000 lm	
efficacy	10..22 lm/W	14..28 lm/W	52..90 lm/W	65..95 lm/W	30..100 lm/W	63..137 lm/W	25..81 lm/W	80..115 lm/W	90..150 lm/W	100..189 lm/W	32..63 lm/W	
color rendering index	CRI 97..100		CRI 75..90	CRI 52..90	CRI 67..90	CRI 80..85	CRI 70..90	CRI 60..96	CRI 21..85	poor	CRI 15..50	
corelated color temperature (CCT)	2 700.. 3 000 K	2 600.. 3 100 K	2 700..6 500 K					2 800.. 6 000 K	1 900.. 2 700 K	1 700.. 1 800 K	3 000.. 6 800 K	
life to 70 % initial lumens ²⁾	750.. 10 000 h	1 000.. 8 400 h	7 500.. 46 000 h	16 000.. 36 000 h	6 000.. 20 000 h	60 000.. 100 000 h	10 000.. 45 000 h	3 000.. 24 000 h	10 000.. 40 000 h	16 000.. 18 000 h	12 000.. 24 000 h	
lumen maintenance	83..87 %	93..97 %	65..90 %	80..90 %	83..87 %	60..80 %	70 %	80..85 %	88..92 %	100 %	60..65 %	
start time	0							5..10 min	≤ 5 min	7..15 min	≤ 10 min	
restrike time	0							≤ 15 min	1 min	7..15 min	≤ 10 min	
effects of temperature	none		yes					none				
dimming	yes								none			
initial cost	low			medium			high			medium		
versatility estimate ³⁾	2		4			0	2		0	2	0	

¹⁾ Integrated and non integrated.

²⁾ Life to 70 % initial lumens, or to failure at ≥ 70 % initial lumens.

³⁾ Number of advantages (blue) minus number of disadvantages (red).

Sources: [Catalogues: Osram, Philips, GE], [US DOD (2010) Design: Interior and Exterior Lighting and Controls]...

Goran Kostić, 111011, 111014, 111017, 111124, 140324.