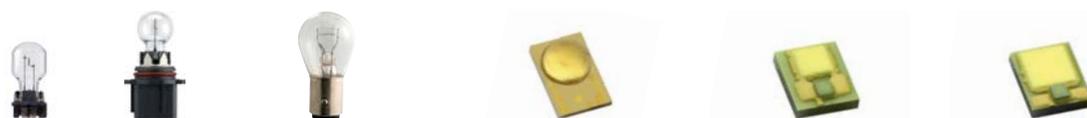


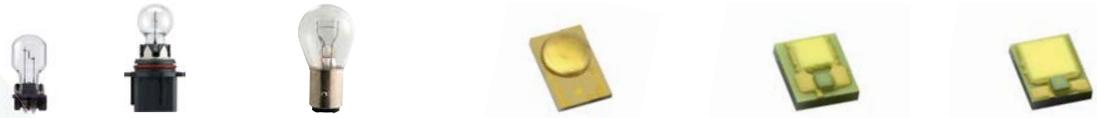


# DRL

## Product comparison



	HiPerVision range	P21/5W XL	LUXEON Rebel White	LUXEON F CW	LUXEON F ES CW
Lumen output	250 / 500 lm at 13.5V	440/35 lm at 13.5V	120 lm at 350 mA, MP Tc = 25°C	110 lm at 350 mA, DC Tc = 85°C	220 lm at 700 mA, DC Tc = 85°C
Power	16/24W	25/6W	1W at 350 mA	1W at 350 mA	2W at 700 mA
Lifetime	B3 = 750/4,000 h Tc = 1,500/8,000 h	B3 = 1,500/4,000 h Tc = 3,000/8,000 h	<b>B3L70C90</b> 19,000 h  <b>B50L70C90</b> 72,000 h (350 mA, Tc = 120°C)	<b>B3L70C90</b> 17,000 h  <b>B50L70C90</b> 65,000 h (350 mA, Tc = 120°C)	<b>B3L70C90</b> 16,000 h  <b>B50L70C90</b> 63,000 h (700 mA, Tc = 120°C)
Color temperature	2,950 K	2,700 K	5,800 K	5,800 K	5,800 K
Styling	Offers high design flexibility in limited packages	Simple style options, driven by functionality	Offers distributed reflector designs using fewer LEDs	Distributed light source	Combines multiple functions into a single Light Guide



	HiPerVision range	P21/5W XL	LUXEON Rebel White	LUXEON F CW	LUXEON F ES CW
Design-in	<ul style="list-style-type: none"> <li>▪ Excellent PWM behavior</li> <li>▪ High accuracy</li> <li>▪ Axial filament</li> <li>▪ 35% more compact bulb</li> <li>▪ Smaller optics and better design possible</li> </ul>		<ul style="list-style-type: none"> <li>▪ Higher total flux using fewer LEDs</li> <li>▪ Lower forward voltage for higher lighting efficacy</li> </ul>	<ul style="list-style-type: none"> <li>▪ Miniaturized footprint for increased design flexibility</li> </ul>	<ul style="list-style-type: none"> <li>▪ High optical coupling efficiency minimizes light loss enabling complex Light Guide solutions</li> </ul>
				<ul style="list-style-type: none"> <li>▪ Low thermal resistance and forward voltage for higher lighting efficacy</li> </ul>	
	<p><b>Example with HiPerVision 19W</b></p> <ul style="list-style-type: none"> <li>▪ HiPerVision bulbs offer a double function: DRL/position light, using the same light source</li> <li>▪ Proven good behavior with PWM</li> </ul>		<ul style="list-style-type: none"> <li>▪ Using Pulse Width Modulation (PWM), LEDs offer multiple functions using the same light source</li> <li>▪ Enhanced color harmony with xenon or LED headlighting</li> </ul>		
Efficiency	<ul style="list-style-type: none"> <li>▪ Saves up to 35% of energy consumption compared to conventional solutions</li> </ul>		<ul style="list-style-type: none"> <li>▪ DRL has major impact on CO<sub>2</sub> emission due to long usage time (60-70%)</li> <li>▪ Up to 45W can be saved with LED solutions, CO<sub>2</sub> reduction of ~0.6 g/km</li> </ul>		