

Parameters of LED luminaires and their verifications (according to IEC 62717-14)

Clause	Parameter	Rated Values	Tolerance	Verdict
7.1	LED Street Light Power	25W	≤ 1.1 Rating	P
8.1	Luminous Flux	3125lm	≥ 0.9 Rating	P
8.2.3	Luminous Intensity Distribution	/	/	/
8.2.4	Peak Intensity Value	1405cd	≥ 0.75 Rating	P
8.2.5	Beam Angle Value	120°	[0.75 Rating, 1.25 Rating]	P
8.3	Luminous Efficacy	/	/	/
9.1	Chromaticity Coordinates (Both Initial and Maintained)	5-step MacAdam ellipse	$\leq n$	P
9.2	Correlated Color Temperature (CCT)	4000K	$\leq 4260K$	P
9.3	CRI (Initial)	70	\geq Rating-3	P
	CRI (Maintained)		\geq Rating-4	P
10.2	Lumen Maintenance	Luminous flux maintenance factor 70%	The measured luminous flux value \geq The initial luminous flux, multiplied by the rated luminous flux maintenance factor	P
		Lumen maintenance code 7	All the measured values shall be of the same maintenance code as the provided values	P
10.3.2	Temperature Cycling Test Alternative Test 1 with 10 K/min	/	At the end of the test all the LED Street Lights shall operate and have a luminous flux which stays within the claimed lumen maintenance code for a period of at least 15 min and show no physical effects of temperature cycling such as cracks or delaminating of the label.	/
	Temperature Cycling Test Alternative Test 2 with 1 K/min	/		P
10.3.3	Supply Switching Test	/		P
10.3.4	Accelerated Operation Life Test	/	At the end of this period and being stabilized at $t_{p, rated}$, all the LED Street Lights have an allowed decrease of light output at the end of the test of maximum 20 % compared to the initial value, for at least 15 min.	P
P=(Pass), /=(Not applicable)				