



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 | \cong 1.1 Rating | P |
| 8.1 | Luminous Flux | 3125lm | \cong 0.9 Rating | P |
| 8.2.3 | Luminous Intensity Distribution | / | / | / |
| 8.2.4 | Peak Intensity Value | 1405cd | \cong 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 | \cong n | P |
| 9.2 | Correlated Color Temperature (CCT) | 4000K | \cong 4260K | P |
| 9.3 | CRI (Initial) | 70 | \cong Rating-3 | P |
| | CRI (Maintained) | | \cong Rating-4 | P |
| 10.2 | Lumen Maintenance | Luminous flux maintenance factor 70% | The measured luminous flux value \cong 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) | | | | |