

Street Lighting Standards

City of Kannapolis, North Carolina

SECTION 1. Purpose

The purpose of this policy is to establish standards for the installation and maintenance of street lighting in the City of Kannapolis, NC. All street lighting will be installed and maintained by either Duke Energy or the City of Landis depending on the area to be served.

ARTICLE I – EXISTING STREETS

SECTION 2. Standards for Street Lighting

- A. Street lighting for residential and collector streets will ordinarily be 50-watt Roadway LED fixture, mounted at a height of approximately twenty-five (25) feet on a wooden pole. Spacing of lighting fixtures shall be approximately 200 – 250 feet except where warranted by special conditions.
- B. Street lighting for major thoroughfares and the central business district will ordinarily be 150-watt Roadway LED fixture. Spacing of fixtures along major thoroughfares and commercial areas will be determined by current engineering standards.
- C. Light fixtures on public right-of-way for the purpose of illuminating the roadway by private citizens will not be permitted.
- D. Private lighting fixtures mounted on the back of poles located on public right-of-way for the purpose of illuminating private property will be permitted with permission of the City of Kannapolis. All cost will be borne by the applicant and contractual arrangements made directly with the utility company.
- E. The City of Kannapolis will not be responsible for any lighting fixtures installed for the purpose of illuminating private property.

SECTION 3. Request for Street Lighting

Request for street lighting may be submitted to the office of the Engineering Director. Each request will be considered in accordance with approved standards and any special conditions of merit such as pedestrian activity, traffic volumes, accident history, crime rate, vertical and horizontal street alignment and hazardous traffic conditions. Any extensions of the lighting system will be subject to the limitations of appropriation of funds by City Council.

ARTICLE II – NEW RESIDENTIAL SUBDIVISIONS

SECTION 4. Lighting Plan Required

Lighting Plans shall be prepared by a qualified lighting designer. Lighting plans shall be submitted to the City for approval along with subdivision utility plans in accordance with applicable City ordinances, policy and regulations.

SECTION 5. Standards for Residential Subdivision Lighting

Standards for residential subdivision lighting for the purposes of the article shall be as follows:

- a. Fixtures shall be 50-Watt Roadway LED placed on wood poles, unless the developer chooses to install decorative lighting.
- b. A fixture shall be placed at each street intersection and in all cul-de-sacs.
- c. Streetlights shall alternate on both sides of the street.
- d. Streetlights shall be placed on property lines unless approved by the City.
- e. Required minimum levels of illumination (expressed in average maintained horizontal foot-candles) are presented in the following Table:

Street Classification	Illumination Levels (foot-candles)		Uniformity Ratio
	Commercial	Residential	
Major Arterial	1.3	0.8	3:1
Minor Arterial	1.6	0.8	3:1
Collector	1.1	0.6	4:1
Local	0.9	0.4	6:1
Alley	0.6	0.3	6:1
Sidewalk	0.9	0.3	6:1

SECTION 6. Lighting Installation Process

- a. The lighting design is completed by the service provider and approved by the City of Kannapolis.
- b. Contract with service provider is signed by the City of Kannapolis.
- c. The customer responsibility / site readiness form is signed by the developer.
- d. Developer pays the full decorative adder fee to the Service Provider.
- e. Service Provider order materials and installs streetlights per the approved lighting design.