

BIODYNAMIC LIGHT



Illumination with tunable colour temperature

Pelechova street is residential street in the suburb of Domžale town near Ljubljana. Speed is limited to 50km/h, near school to 30km/h. Street is surrounded with many residential houses, lots of nature around.

Existing situation before renovation:

Street is illuminated with LED street lamp, 80W, no reduction.

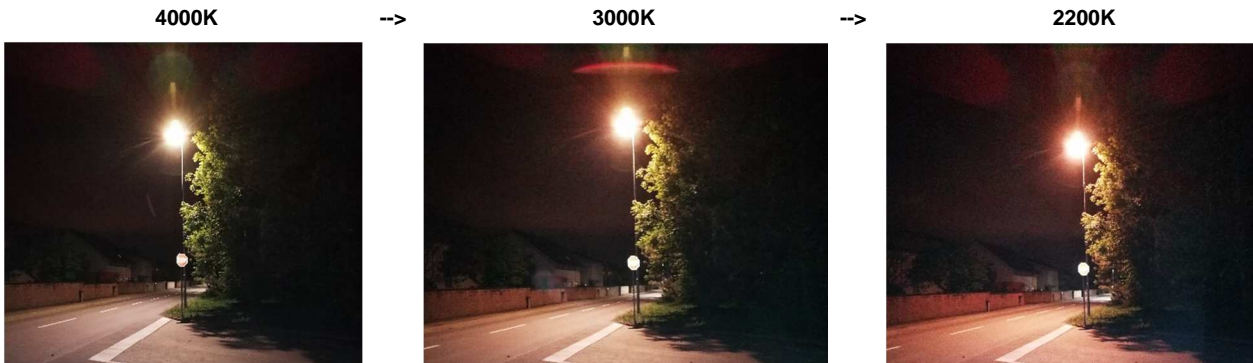
- 4000 K
- 20 lux below lamp
- 19 lux on middle of roadway
- 7 lux on pavement on opposite side

Objective:

- Reduce the power consumption
- During the midnight reduce the light
- Change the colour temperature to reduce blue light and follow the biodynamic rhythm of natural light

New situation:

We have placed biodynamic LED lamp Luxtella with tunable colour temperature LED street lamp, 43W, tunable colour temperature form 4000K to 2200K



With nearly **50% less power** the lux level on road is reduced for about 12% (at 4000K) that is barely detectable with eye.

	21:00	22:00	23:00	4:00	5:00
	4000K	3000K	2200K	3000K	4000K
Below lamp	18 lux	15 lux	14 lux	15 lux	18 lux
Middle of roadway	17,5 lux	14 lux	13 lux	14 lux	17,5 lux
Pavement on opposite side	5 lux	4 lux	3 lux	4 lux	5 lux



Contact our sales representative for more information and quotations!