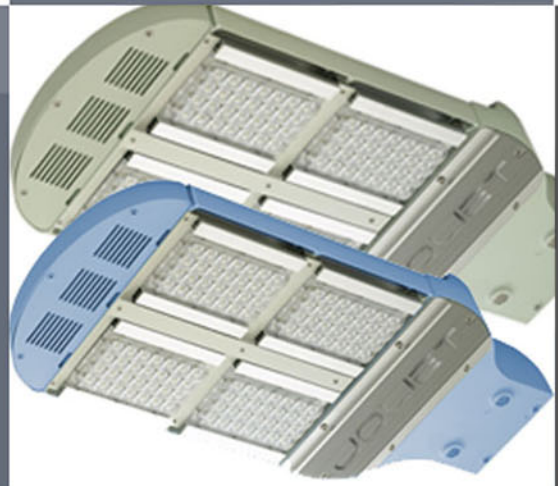


...Light Emitting Diode...

MASTHEAD street lighting



JOLIET

High Power LED Streetlight - Beam pattern comparison

7.5-meter-high **250W** Metal Halide Lamp

4-meter-high 250W Metal Halide Lamp

7.5-meter-high **112W LED street lights**

250W Metal halide Lamp

Lamp power 285W, rectifier power 23W
Power factor 0.5

Total consumption 616W

Brightness is significantly less than the LED lamp.

Maximum intensity is 34 lux with an average intensity of 15 lux.

The beam pattern is oval and undefined.

Uniformity of illumination is poor with high intensity concentrated in the centre of the beam.

112W LED Streetlight (JOL4)

LED consumption 125W
Power consumption 20W
Power factor 0.99

Total consumption 145W

Brightness is significantly higher than the metal halide lamp.

Maximum intensity is 40 lux with an average intensity of 30 lux.

The beam pattern is rectangular 26x10 and highly undefined.

Uniformity of illumination is excellent without light loss at the beam extremities