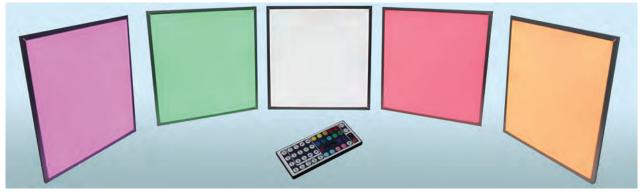
# SMART LIGHTING SYSTEM



Several light shades that can be irradiated by SLS

## **Areas of Application**

This LED lighting system has a controllable spectral composition and light intensity and optical parameters of artificial light adaptable to the natural light

#### **Advantages**

The Smart Lighting System is unique in Ukraine and differs from foreign counterparts by option of getting white light with chromaticity coordinates corresponding to the Planck curve, with a color temperature range from 2700 K to 10000 K, and with color rendering index higher than 85

#### **Specification**

Dimensions, mm	$600\times 600\times 150$
Power supply, V	180 - 260
Power consumption, W	5 - 40
Luminous flux, lm	500 - 4000
Luminous efficiency, lm/W	>100
Power factor	>0,9
Full harmonic distortion	
factor (ITHD), %	<15
Intensity curve	Wide
Fall in light flux since switch-on	
until the stable mode is reached	
(30 min), %	<1
Stability of luminous flux	
at a temperature from 0 to 40 °C, %	6 <1

# Stage of Development. Suggestions for Commercialization

### IRL7, TRL6

The manufacture, delivery, warranty service, and staff training, upon request

# **IPR Protection**

IPR2

## **Contact Information**

*Anna S. Stanetska,* V.Ye. Lashkaryov Institute of Semiconductor Physics of the NAS of Ukraine; +38 044 525 60 43, +38 099 292 66 60, e-mail: stanetska\_anna@ukr.net