

## **Investment in sustainable lighting pays off**

### **LUCTRA® VITAWORK® lights up the new administrative building of the Federal Railway Authority (EBA)**

**Iserlohn/Bonn, 05.04.2022:** The Federal Railway Authority (EBA) is an independent German higher federal authority in the field of federal transport administration. In 2021, the public-sector institution moved into new premises. These had previously been extensively refurbished. One of the core tasks was the planning and implementation of the lighting for the offices, which had to be standard-compliant on the one hand and ergonomic on the other.

The offices of different sizes were equipped with conventional standard luminaires with fluorescent tubes. The idea was to keep the existing luminaires and supplement the individual desks with table lamps to meet the standard specifications for pleasant workplace lighting.

In an extensive consultation, Fabian Krumme, application consultant at LUCTRA®, recommended the use of the VITAWORK® floor lamp. This should not only replace the existing luminaires, but also save the purchase of additional table lighting.

For offices up to 25 square metres, only one floor lamp is required; for larger rooms with up to four workplaces, two luminaires are planned. The standard requirements of DIN EN 12464-1 and ASR 3.4 are met. The VITAWORK® version with 17,000 lumens was selected on the basis of the room plans.

„In order to make a decision, we carried out an amortisation calculation. This showed that the investment in new lighting with VITAWORK® is economically recommendable. This is because the modern LED technology in the VITAWORK® floor lamps can already save 55% energy compared to the free-standing luminaires with conventional fluorescent lamps. By using daylight and presence sensors, an additional energy saving potential of up to 20 % can be expected,“ says Krumme.

The LUCTRA® office luminaires create a visually ergonomic ambience and ensure uniform ceiling illumination. The innovative touch panel on the luminaire makes the control options visible. This allows each user to adjust the light according to their personal preferences.

The final impetus for the decision was the luxmeter test carried out by a certified occupational safety engineer. This confirmed that the lighting conditions on the work surfaces complied with the standards. The required 500 lux at the workplace was clearly exceeded. The extra light enables all employees to work without fatigue and improves the visual ergonomics in the room through the brightened ceilings and walls.

Michael Menges, EBA: „The calculations and the test convinced us. Economically, the investment in the innovative lighting solution makes absolute sense. Thanks to the savings in consumption, we not only save on expenses, but also sustainably protect the environment.“