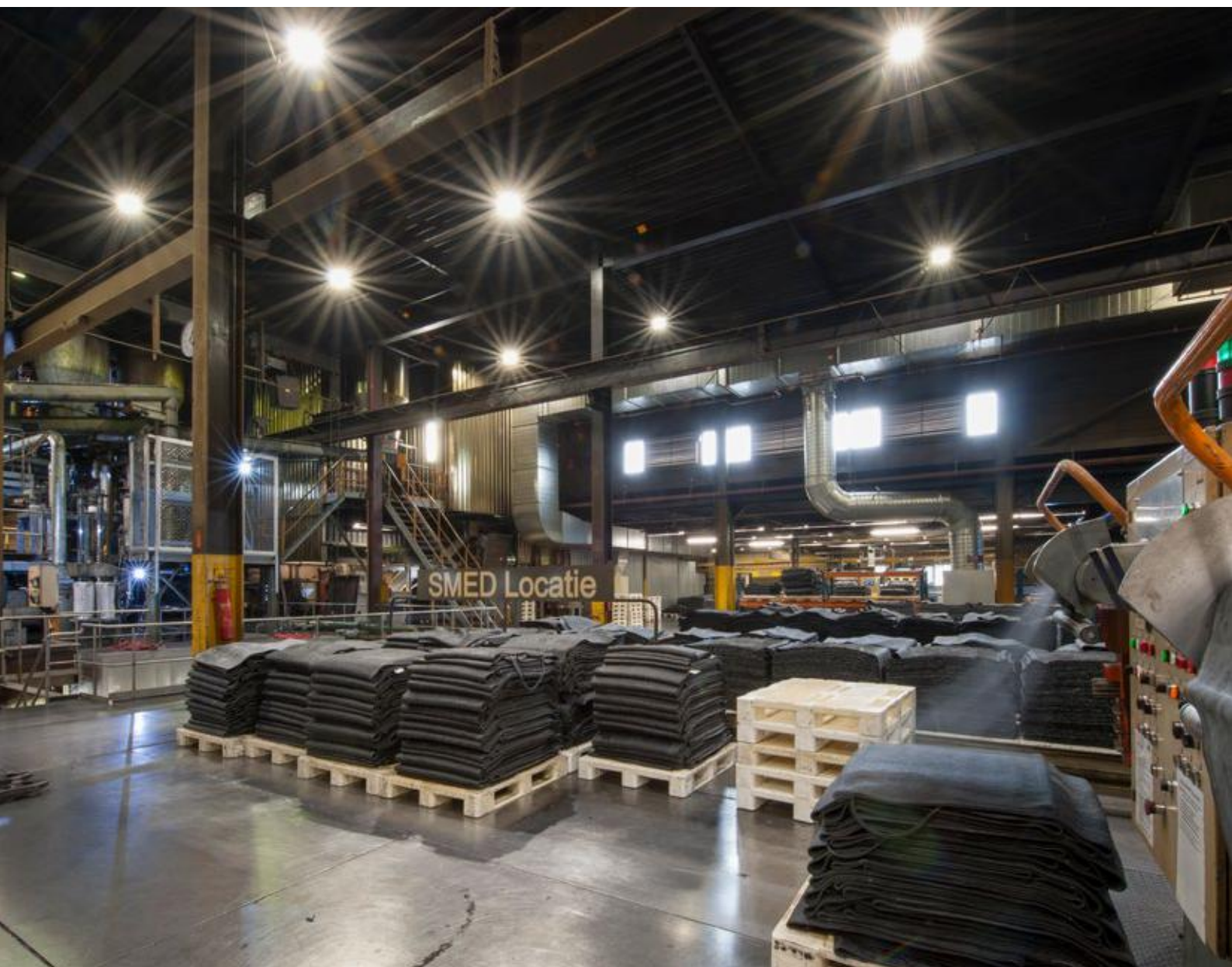


CASE STUDY



CLIENT: Apollo Vredestein
LOCATION: Enschede, The Netherlands
PROJECT: Lighting existing building replaced with LED



CASE STUDY

APOLLO VRESESTEIN - ENSCHEDE

'Our Luci Series Industry LED luminaries were specially developed for extreme conditions.'



Enschede-based Apollo Vredestein manufactures in excess of six million summer, winter and all-season car tyres a year, as well as high-quality agricultural tyres. Raw materials for the various tyres are mixed and car tyres are produced in the factory 24/7, which calls for a high degree of reliability on the part of all equipment. Including the lighting.

'In order to guarantee a high degree of reliability, we recently replaced all lighting in the existing building with LED. Even the new build has been fitted with LED lighting, for the purposes of which we went looking for sustainable, energy-efficient equipment with a lifespan exceeding 100,000 burning hours', says Gerrit Denneboom, Technical Engineer at Apollo Vredestein. 'There's no room for maintenance work on or replacement of the luminaries, as our production activities are under way 24/7, you see. What's more, various luminaries are in difficult-to-reach places, as well as at significant height. At any rate, with a lifespan of > 100,000 hours we won't have to worry about this for about 11.5 years. Bever Innovations proved to be the only supplier on the market that could fulfil our wishes. Furthermore, the light pattern produced by the Luci Series Industry LED luminaries closely matches the light pattern of our old mercury discharge lamps. In the existing building the luminaries were replaced on a one-for-one basis, without modifications needing to be made to the infrastructure.'

CONSIDERABLE SAVINGS ON ENERGY

'We installed 38 Luci luminaries in the mixing department', says Jeroen de Jonge, Sales Director at Bever Innovations Industrial. 'The customer selected our Classic luminaries, which enable considerable savings on energy. The luminaries make it possible to read out the number of burning hours, light intensities and temperatures, ensuring optimum insight into the lighting



equipment. Furthermore, the lighting can be dynamically set if need be. Controlling such aspects as lighting level, light intensity and daylight/motion sensors is simple with the control pad and EOS Manager.'

EXTREME CONDITIONS

Bever Innovations installed several Luci Classic test luminaries in the vulcanization room, with a view to testing their performance in extreme conditions. 'The vulcanization room is an exceedingly hot environment, with temperatures around +60°C', explains Denneboom. 'A lot of electronic products, including LED luminaries, can't cope with this. In addition to this, the room contains vulcanization fumes, which deposit on the light covers. This makes the covers dirty, which reduces the lighting level over time. An undesirable situation, which Reveb's Luci luminaries put a stop to. The luminaries have been in our room for three years now, without any problems cropping up. Unsurprisingly, we'll be expanding the number of Luci luminaries in the vulcanization room in the future.'

'Our Luci Series Industry LED luminaries are specially developed for extreme conditions, such as very high or low temperatures (-30°C to +60°C), dust or pollution and/or varying ceiling heights', says De Jonge. 'The fact that the optics warm up slightly after being switched on prevents particles of soot, dust and other contaminants from sticking to them. Meaning that the light level and light quality are guaranteed for > 100,000 burning hours.'

ADVANTAGES

Long lifespan:

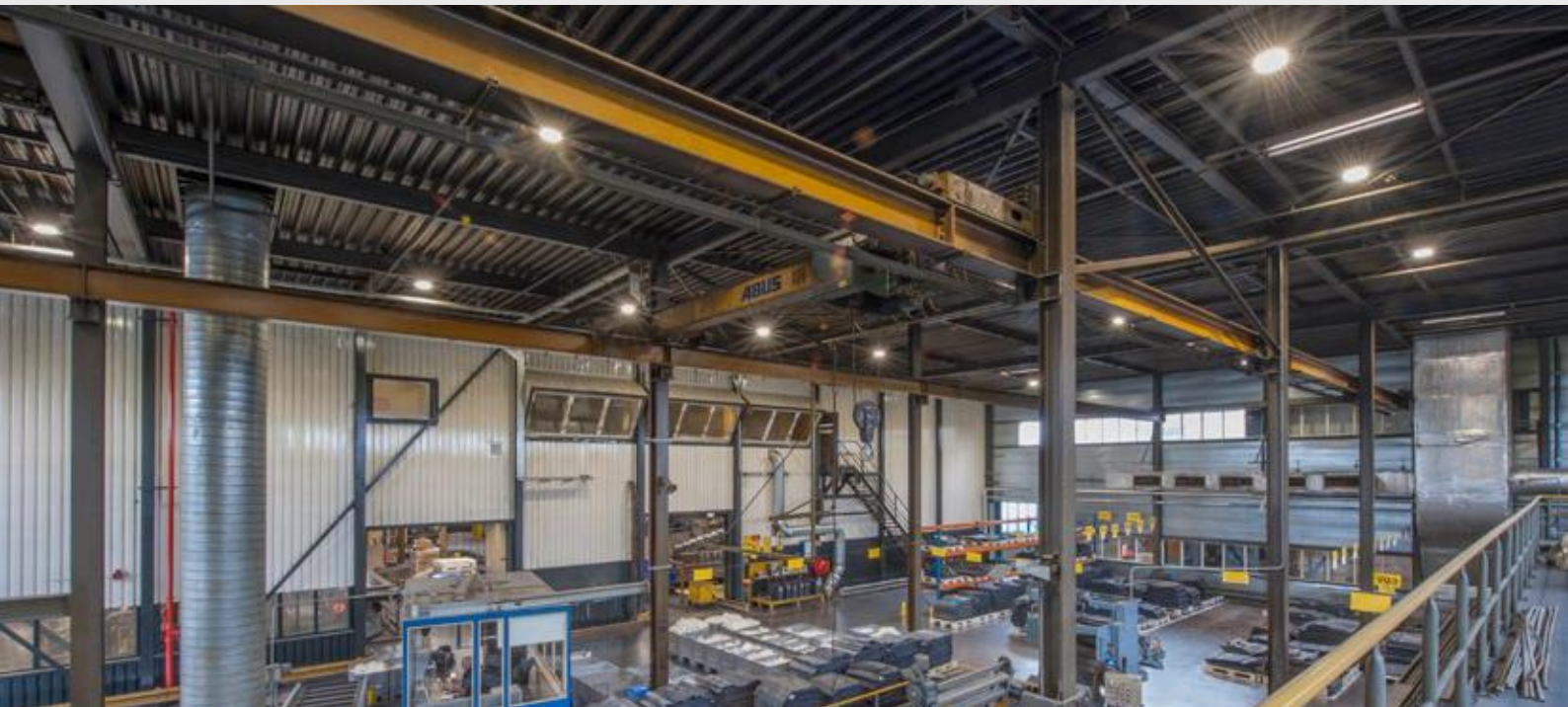
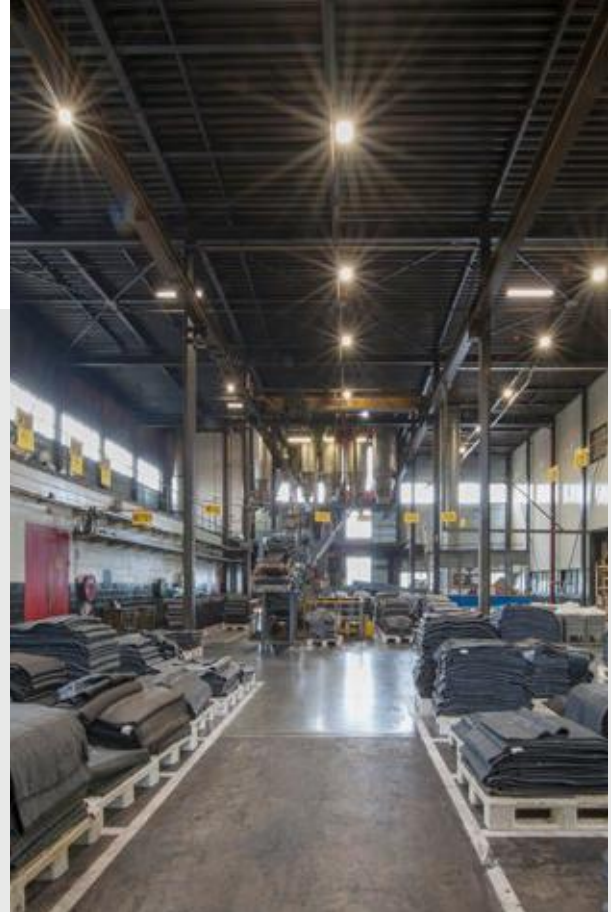
Our Luci Series Industry LED luminaries distinguish themselves by means of their longevity (> 100,000 burning hours) without light output and quality being diminished.

Extreme conditions:

The LED luminaries are pre-eminently well suited to being used in extreme conditions, such as very high or low temperatures (-30°C to +60°C), dust or pollution and/or varying ceiling heights.

Dynamic lighting concept:

controlling such aspects as lighting level, light intensity and daylight/motion sensors is simple with the control pad and EOS Manager.



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