



NEW LED LIGHTING AT VISIO SCHOOL

Breda, The Netherlands



FACTS AT A GLANCE

LOW GLARE

Homogenous light distribution and reduced glare of $UGR \leq 16$ thanks to the LEDVANCE LINEAR INDIVILED DIRECT DALI luminaire optics.

FLEXIBLE MOUNTING OPTIONS

The accessories of the LEDVANCE LINEAR INDIVILED DIRECT DALI luminaire offer broad options for mounting.

EFFICIENT SOLUTION

The bright, direct lighting of the LINEAR SURFACE IP44 luminaires from LEDVANCE provides an efficient replacement for traditional luminaires with T8 and T5 tubes.

EASY HANDLING

The very long lifetime of 50 000 hours of the LEDVANCE LINEAR SURFACE IP44 luminaires reduces maintenance to a minimum.

LINEAR INDIVILED DIRECT DALI



LINEAR SURFACE IP44



COMFORTABLE GLARE-FREE LED LIGHTING FOR HIGH DEMANDS

With the lighting for this school of special education, LEDVANCE LED lighting solutions meet all expectations in terms of light distribution, glare and energy efficiency.

THE CHALLENGE

Koninklijke Visio Onderwijs Breda is a school with high requirements on glare for children with multiple disabilities. In addition to a visual disability, all pupils have a mental disability. This target group has specific lighting requirements. The glare angle and the uniformity of the lighting played a very important role in this project.

THE SOLUTION

In close cooperation with LEDVANCE, a suitable lighting solution with low UGR, glare-free luminaires was sought within the portfolio of the LEDVANCE LED luminaires for the entire building. For the illumination of the classrooms, this solution was found in the LEDVANCE LINEAR INDIVILED DIRECT DALI, in 1500 50W and 1200 33W. The ideal luminaire for this application as it met the strict requirements of the project. One of these requirements was that the radiation of the lighting at an angle of 45 degrees should not exceed 500 candelas per square meter. In addition, the UGR had to be ≤ 16 and the light color 3000K – Warm White.

THE BENEFITS

The LEDVANCE LINEAR INDIVILED DIRECT DALI luminaire provides uniform light distribution and low glare of $UGR < 16$ thanks to its IndiVILED optic. In addition, the luminaire achieves maximum energy savings of 50 % compared to conventional luminaires with T5 tubes.

SUMMARY

A total of almost 400 LEDVANCE LED luminaires were used in this project. LINEAR SURFACE IP44 1500 43W luminaires and PANEL 1200 luminaires of LEDVANCE were used for the corridors. The LEDVANCE LINEAR SURFACE IP44 luminaires are also applied for the locker and shower rooms. LEDVANCE DOWNLIGHT SLIM SQUARE luminaires installed in the toilets, together with DOWNLIGHT SLIM frames and LEDVANCE SURFACE CIRCULAR luminaires chosen for lighting the walls, complete the new lighting concept.

"The new lighting solution by LEDVANCE has realized an energy saving of 60%. The lumen levels on the other hand has more than doubled compared to the old lighting".

Bart Verkerke, technical advisor at BINK Elektro



LEDVANCE LINEAR SURFACE IP44 luminaires as well as PANEL 1200 luminaires have been installed in the school corridors.



LEDVANCE LINEAR INDIVILED DIRECT DALI luminaires for the classrooms ensure a high quality and glare-free lighting.

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