Visual quality
Illuminating objects

The foundation has more than 3,000 exhibits, including vehicles that are highly sought after by collectors. Some of these highly diverse exhibits with extremely different characteristics make exacting demands on visual lighting quality. The ARCOS spotlight range provides just the right end-to-end solution. This spotlight features superb glare control thanks to a light source that is embedded deep in its reflector. Anti-glare shades provide sharp-edged light on the walls. Regardless of colour temperature, it achieves an excellent colour rendering index (Ra > 90).

Lighting solution

ARCOS 2 xpert LED | 22 W
ARCOS 3 tunableWhite 2700 K
The curvaceous lines of the newly built museum are echoed in its interior by curved wall geometries, different room heights and sloping ceilings. The brief for the lighting solution was to stick to this principle and cut energy consumption by using innovative LED and control technologies. The ARCOS museum spotlight product range was the solution. The LED spotlights were recessed in ceiling ducts because the ceilings were low in some places. ARCOS manifests its artistic talents in many lighting scenarios: a sequence of lighting scenes accompanied by dramatic music starts to unfold as soon as visitors enter the dark room. ARCOS spotlights complement a sophisticated art installation on the staircase. An unremarkable image reveals its full splendour in the darkness.
Flexibility and versatility
for temporary exhibitions

Exhibits include classic vehicles, images and sculptures – mainly from Southwest Germany. Exhibitions change several times a year and a unique combination of items is always on show. The optimal lighting system therefore needs to be extremely flexible in terms of its mechanical features, beam angles and light colours. A meticulously planned combination of high-performance ARCOS 3 tunable-White spotlights and compact ARCOS 2 xpert LED spotlights is able to deliver the required versatility. This flexibility is leveraged by a comprehensive range of accessories such as different glass lenses, anti-glare shades and interchangeable reflectors.
Conservational aspects
Lighting exhibits gently

ARCOS museum spotlights are very gentle on delicate exhibits. The spotlights’ high-quality LED light sources reduce potential damage significantly compared with conventional halogen lighting. This makes longer exhibition opening hours or higher lighting levels possible for a given exposure to light. In the Museum Art & Cars the concrete effects of this are as follows: based on a standard material constant $b = 0.012$ according to CIE and an illuminance level of 200 lx, the difference in exhibition time is approximately 10,700 hours. For a given exhibition time, the illuminance level can be increased by approximately 90 lx.

Web app for comparing two lighting solutions. The app compares various light sources with respect to the potential risk they pose to sensitive materials. Professional background knowledge makes lighting design based on scientific methods straightforward and easily understandable.
and certified sources.

chlorine-free paper from sustainably managed forests

For the sake of the environment: Luxo Light

Technical data was correct at time of going to press.

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