



ZUMTOBEL



Ferrari Classiche

A special kind of car workshop: LEDs and lighting management are the engines that drive extreme precision and efficiency.

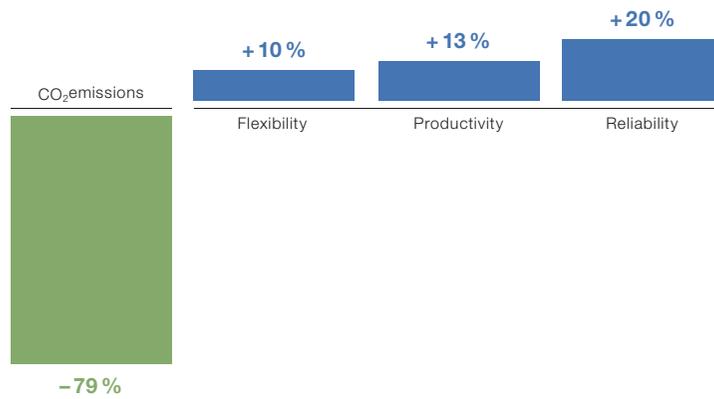


Live-cell therapy for historic sports cars

Almost all the Ferrari models that have left the works in Maranello since the company was formed in 1947 are still roadworthy. "Ferrari Classiche" – a mixture of car workshop, laboratory and museum – is committed to ensuring that they stay roadworthy in the future. Inspecting, examining and repairing these sports cars demands impeccable precision and hence large amounts of light.

The building, a former foundry covering an area of 950m², has undergone extensive refurbishment. The first step was to glaze part of the roof in order to let more daylight into the white factory floor areas. A LUXMATE daylight-based lighting control system and a TECTON LED IP50 continuous-row lighting system are responsible for delivering the required amounts of artificial light.

zumtobel.com/Industriallighting



Ferrari s.p.a., Maranello | IT

Architects: Arch. Simona Franci, Fortebis Group, Roma | IT

Electrical consultant: Prospazio, Modena | IT

Lighting solution: TECTON LED IP 50 continuous-row system,
LUXMATE daylight lighting control system

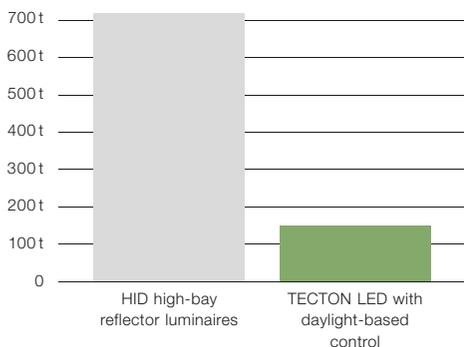
1. CO₂ efficiency and cost efficiency

-79% CO₂

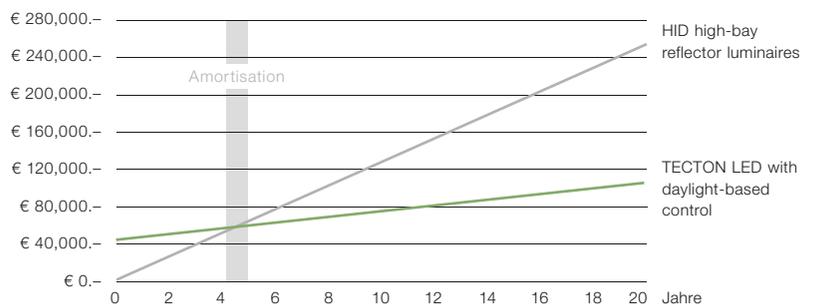
LEDs and daylight slash energy consumption

Ten TECTON light lines up to 30m long span the room. The 1.5 m long TECTON LED modules butt up against each other with no visible gap between luminaires. The continuous-row luminaires, each with power consumption of 53 W, embody the very latest LED technology: They consume roughly 55% less electricity than conventional metal halide lamps, even though their light output is twice as high. The lighting solution developed for Maranello is controlled by a LUXMATE PROFESSIONAL lighting management system. Daylight streaming in through the glazed roof and the daylight-based lighting control system ultimately slash power consumption by 79 percent. This will save 560 tonnes of CO₂ over the next 20 years.

CO₂ emissions over service life (20 years)



Amortisation 4,5 Jahre (total cost)



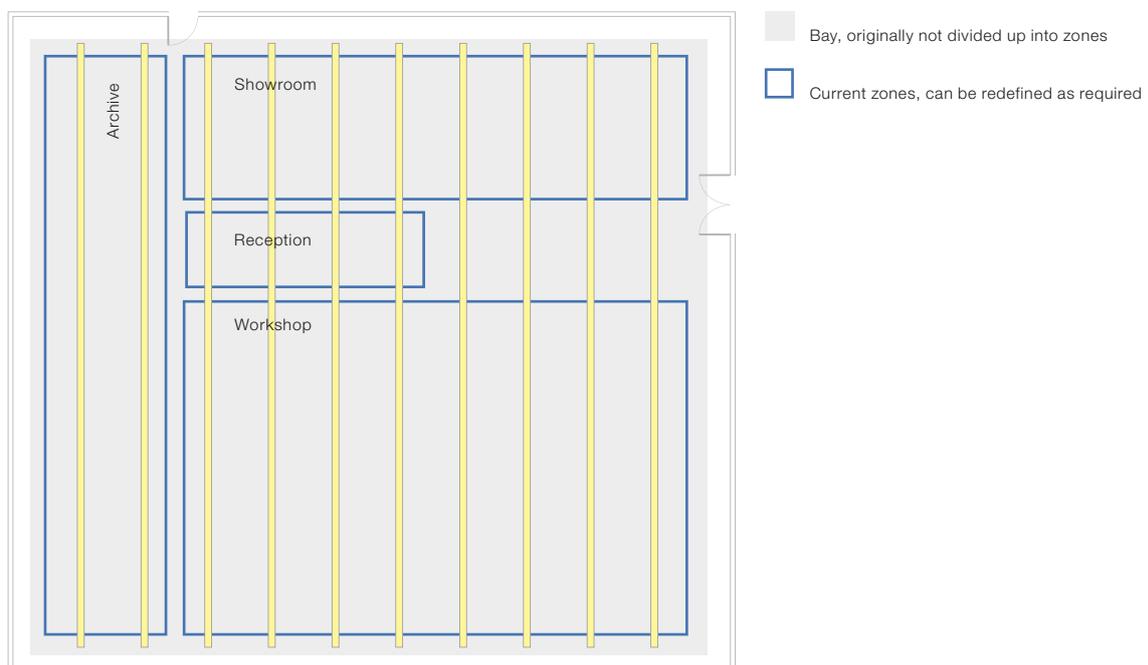
2. Flexibility

+10%

Flexible use of space thanks to dimmable luminaires

A huge variety of tasks are performed at Ferrari: several restored sports cars are on show and visiting customers are welcomed in the 4 m high bays. Cars are inspected, examined and repaired in the workshop area. The original construction plans of every vehicle Ferrari has ever built are kept in the archives. If previous owners have made modifications or done conversions, vehicles will be restored to their original condition. Precise replicas can be produced in the foundry if necessary. Faced with performing such a wide variety of tasks, the general dimmability of LED luminaires makes it easy to adjust the lighting to cope with various activities and usage periods.

Usable area of car workshop 34.4 x 32 x 4 m (Length x Width x Height)



3. Productivity

+ 13 %

Peak performance with daylight and higher illuminance levels

Daylight streaming in through the new glazed roof, high lighting levels and excellent colour rendering all boost productivity and meet the exacting requirements associated with very demanding visual tasks involving precision work and fine details. The intensity of the artificial lighting is continuously kept in balance with daylight brightness by the LUXMATE PROFESSIONAL lighting control system to ensure that workbenches are illuminated at a constant 1,000 lx at all times. The colour temperature (4,000 K) is ideal for precision craftsmanship and shows off the familiar red Ferrari livery to splendid effect.

Better performance thanks to more light



Reception 500 lx



Workshop 1,000 lx



Archives 500 lx



Showroom 1,000 lx

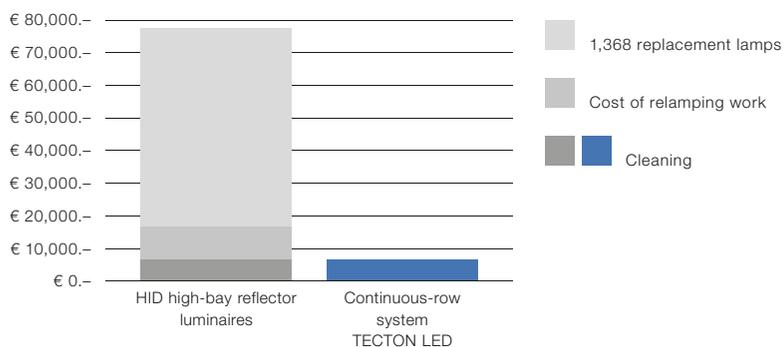
4. Reliability

+20%

Maintenance-free lighting for general and emergency lighting

By switching over to a TECTON LED continuous-row system, the customer is saving a considerable portion of its operating costs. Lamp failures and the associated maintenance work and lamp costs are now a thing of the past. The lighting is also protected against dust by its IP 50 protection rating, which meets the recommended specifications in the industry standard. This extra reliability is achieved thanks to the LEDs long service life and a high IP 50 rating. When it came to the emergency lighting, ensuring that luminaires appeared as unbroken lines and avoiding the conventional interruptions associated with emergency lighting were decisive criteria. Every third TECTON LED luminaire is operated by a separate emergency power supply in order to prevent the lights going out in the event of a power failure.

Maintenance costs over service life (20 years)



IP 50



ZUMTOBEL

United Kingdom

Zumtobel Lighting Ltd.
Chiltern Park
Chiltern Hill, Chalfont St. Peter
Buckinghamshire SL9 9FG
T +44/(0)1753 482 650
F +44/(0)1753 480 350
uksales@zumtobel.com
zumtobel.co.uk

USA and Canada

Zumtobel Lighting Inc.
17-09 Zink Place, Unit 7
Fair Lawn, NJ 07410
3300 Route 9W
Highland, NY 12528
T +1/(0)845/691 6262
F +1/(0)845/691 6289
zli.us@zumtobel.com
zumtobel.us

Australia and New Zealand

Zumtobel Lighting Pty Ltd
333 Pacific Highway
North Sydney, NSW 2060
T +61/(2)89135000
F +61/(2)89135001
info@zumtobel.com.au
zumtobel.com.au

China

Zumtobel Lighting China
Shanghai office
Room 101,
No 192 YIHONG Technology Park
Tianlin Road, Xuhui District
Shanghai City, 200233, P.R. China
T +86/(21) 6375 6262
F +86/(21) 6375 6285
sales.cn@zumtobel.com
zumtobel.cn

Hong Kong

Zumtobel Lighting Hong Kong
Unit 4319-20, Level 43,
Tower 1, Metroplaza,
223 Hing Fong Road,
Kwai Fong, N.T.
T +852/(0)2503 0466
F +852/(0)2503 0177
info.hk@zumtobel.com

India

Zumtobel Lighting GmbH
A 274, 1st Floor,
Defence Colony,
110024 New Delhi
T +91/98 102 19 531
enquiries.india@zumtobel.com

Singapore

Zumtobel Lighting Southeast Asia
5 Kaki Bukit Crescent,
#04-02 Koyotech Building
416238 Singapore
T +65 6844 5800
F +65 6745 7707
info.sg@zumtobel.com

United Arab Emirates

Zumtobel Lighting GmbH (Branch)
Dubai Airport Free Zone,
Building 6W, B Block, 233
PO Box 54302
Dubai
T +971/(0)4 299 3530
F +971/(0)4 299 3531
info@zumtobeluae.ae

Romania

Zumtobel Lighting Romania SRL
Tipografilor 11-15,
S-Park Office, Wing A1-A2
013714 Bucharest
T +40 312253801
F +40 312253804
welcome.ro@zumtobel.com
zumtobel.com

Hungary

Zumtobel Lighting Kft
Váci út 49
1134 Budapest
T +36/(1) 35 00 828
F +36/(1) 35 00 829
welcome@zumtobel.hu
zumtobel.hu

Croatia, Bosnia and Herzegovina

Zumtobel Licht d.o.o.
Radnička cesta 80 – Zagrebtower
10000 Zagreb
T +385/(1) 64 04 080
F +385/(1) 64 04 090
welcome@zumtobel.hr
welcome.ba@zumtobel.com

Serbia

Zumtobel Licht d.o.o.
Karadjordjeva 2-4
Beton Hala
11000 Belgrade
T +381/(0)11 65 57 657
F +381/(0)11 65 57 658
welcome@zumtobel.rs

Czech Republic

Zumtobel Lighting s.r.o.
Jankovcova 2
Praha 7
170 00 Praha
T +420/(2) 66 782 200
F +420/(2) 66 782 201
welcome@zumtobel.cz
zumtobel.cz

Slovak Republic

Zumtobel Lighting s.r.o.
Vlčie Hrdlo 1,
824 12 Bratislava
welcome@zumtobel.sk
zumtobel.sk

Poland

Zumtobel Licht GmbH Sp.z.o.o.
Platinum III
ul. Woloska 9a
02-583 Warszawa
T +48/(22) 856 74 31
F +48/(22) 856 74 32
welcome@zumtobel.pl
zumtobel.pl

Slovenia

Zumtobel Licht d.o.o.
Štukljeva cesta 46
1000 Ljubljana
T +386/(1) 5609 820
F +386/(1) 5609 866
welcome@zumtobel.si
zumtobel.si

Russia

Zumtobel Lighting GmbH
Official Representative Office
Skakovaya Str. 17
Bld. No 1, Office 1104
125040 Moscow
T +7/(495) 945 36 33
F +7/(495) 945 16 94
info-russia@zumtobel.com
zumtobel.ru

Norway

Zumtobel Belysning
Hoffsveien 4
Postboks 1025 Hoff
0218 Oslo
T +47 22 06 50 50
F +47 22 06 50 52
firmapost@zumtobel.com
zumtobel.no

Sweden

Zumtobel Belysning
Birger Jarlsgatan 57
113 56 Stockholm
T +46 8 26 26 50
F +46 8 26 56 05
info.se@zumtobel.com
zumtobel.se

Denmark

Zumtobel Belysning
Indiavej 1
2100 København
T +45 35 43 70 00
F +45 35 43 54 54
info.dk@zumtobel.com
zumtobel.com

Headquarters

Zumtobel Lighting GmbH
Schweizer Strasse 30
Postfach 72
6851 Dornbirn, AUSTRIA
T +43/(0)5572/390-0
F +43/(0)5572/22 826
info@zumtobel.info

Zumtobel Licht GmbH
Grevenermarschstrasse 74-78
32657 Lemgo, GERMANY
T +49/(0)5261 212-0
F +49/(0)5261 212-7777
info@zumtobel.de

zumtobel.com



Top quality – with a five-year guarantee.

As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products subject to registration within 90 days from the invoice date and in accordance with the terms of guarantee at zumtobel.com/guarantee.

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