Professional lighting solutions for Offices
The human light

Lighting is essential for human health and well-being. Light determines our circadian rhythm, influences our mood and changes the atmosphere around us. Therefore an appropriate workplace lighting is a key driver of comfort and performance, while the consequences of an inadequate lighting are proven to be low efficiency and motivation, and physical diseases.

Artemide has a wide range of luminaires made for offices, with different types of light emission - indirect / direct darklight / direct Prismoptic - that provide the best solutions for any kind of office layout (openspace, individual office, home working) and configuration of architectural spaces.

The advantage is a combined lighting: one general and uniform for the space, the other one focused on the desk. Thereby, the user has the opportunity to personally manage his workstation, to supplement the general lighting, according to his individual requirements.

Innovation in energy saving

To create environmentally sustainable solutions can be considered the basic rule and the new trend in Office Lighting, in order to save electricity and guarantee the planet well being, this according of Kyoto agreements on gas emission reductions, and of the European Directive on the improvement of building energy efficiency (2002/91/CE - 2010/31/CE).

The energy efficiency of a lighting project is achieved either by intelligent control systems integration - regulating artificial light according to natural one - that uses last generation Led sources, optimizing consumption significantly compared to traditional sources, aiming at a real “green office”. The care for sustainability of Artemide - a Company certified ISO 9001 and WMT - is ensured by its French plant Megalit, in charge of designing and manufacturing the appliances of the architectural line, accredited with ISO 14001 and implementing the Carbon Footprint, and by its focus on product lifecycle (LCA), i.e. design, choice of raw materials, processing in view to minimise transportation, and down to assembly, packaging, and disposal.

As far as appliance efficiency at use is concerned, continuous improvement is ongoing in terms of energy saving, reliability, and durability of the implemented technical solutions, as well as to reduce CO2 emissions.

Artemide has developed solutions that carry significant energy saving, up to 75% vs systems of an earlier design:

- Latest generation top quality Led that guarantee extremely high efficiency and lighting performance,
- High efficiency fluorescent lamps (up to 104lm/W) with a 20,000 hour service life,
- Major makes of electronic ballasts (A classes only),
- High performance optical systems,
- Light management systems combining motion sensors with lighting level.

The design effort dedicated to the control and management intelligence embedded in the appliances also includes minimized consumption in the standby mode, anticipating future regulations. Combining soundly designed and functional appliances with emotional light and customizable luminous scenarios, with special care for sustainability, is the cultural challenge pursued by Artemide, which is capable to supply with its technologies designers and sensible lighting, operators to implement ideas in their creations.
In reception areas

For defining functional, cool or strict atmospheres. For creating spectacular effects by alternating clear powerful light and soft white or coloured illumination.

Corridors and passage ways

These are generally the least occupied areas inside an office building. Nevertheless their illumination has to be secure and has to offer a sufficient lighting level to walk around easily. Intelligent solutions will naturally be preferred for such spaces, with dimming capacity or movement detection for example.

The Artemide Led lighting solutions for a challenging and caring workplace, and a more environmentally friendly working area.

Led lighting moves ahead

Since their invention in 1962 and the development of the white light emitting diode in the late 1990s, the Led know a current growth and evolution in their performance, not only in terms of luminous flux but also in terms of colour rendition.

While Led products already meet the main needs of outdoor lighting or accent lighting in those environments that do not require a high illumination level, it is more recently that they are perfectly convenient also for the illumination of outdoor and indoor architecture, shops, hotels or well-being spaces.

The continuously evolving development of highly-energy efficient white Led opens up new possibilities. Thanks to their aesthetic qualities, compactness, low energy consumption, lighting comfort, longer service life and reduced maintenance, the Led products are now suitable for general lighting and establish themselves more and more as a preferred lighting solution for office environments.

Good news at the time when eco-citizenship and sustainable development form concepts with an increasing awareness among people and businesses, while the Building industry and its Lighting component are subject to regularly evolving standards and regulations.

Led: major advantages

- Very high luminous efficiency.
- Innovative optics systems allow a perfectly directed and controlled light, the guarantee for a higher efficiency and ultimate precision to create exactly the right light to suit needs, moods or tasks.
- Service life of up to 50 000 hours at 70% luminous flux, or even more.
- Very long maintenance-free intervals, thanks to this extremely long life.

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Waiting spaces and relaxation areas

Comfort and well-being are the key rules for the illumination of those areas that are friendly places by definition. Low-glare fittings and luminaires able to provide a relaxing light will be preferred.

Open plan and cell offices

Working spaces today are much more dynamic and evolving than before. The same applies to the lighting solutions for office areas, which have to be mobile, customizable according to the needs of the user, and smart. They should also meet the regulations in force in terms of quantity and quality of light.

Meeting rooms

Here more than elsewhere, lighting strongly impacts on how people feel. It has to be flexible, and able to offer quiet or stimulation ambiances according to the events which might take place.

Typical design example

Office with length x width 10x10 m. Maintenance factor 0.80. Required illuminance on the task level: 500 lux.

<table>
<thead>
<tr>
<th></th>
<th>Luceri Screen TC-DEL 2x26W electronic ballast</th>
<th>Luceri Led 27W</th>
<th>Luceri Led 37W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of luminaires</td>
<td>42</td>
<td>35</td>
<td>24</td>
</tr>
<tr>
<td>Mean illuminance</td>
<td>587 lux</td>
<td>504 lux</td>
<td>512 lux</td>
</tr>
<tr>
<td>Uniformity</td>
<td>0.647</td>
<td>0.754</td>
<td>0.641</td>
</tr>
<tr>
<td>Installed load indiv.</td>
<td>55 W</td>
<td>29 W</td>
<td>39 W</td>
</tr>
<tr>
<td>Installed load total</td>
<td>2310 W</td>
<td>1022 W</td>
<td>941 W</td>
</tr>
<tr>
<td>Surface</td>
<td>100 m²</td>
<td>100 m²</td>
<td>100 m²</td>
</tr>
<tr>
<td>Used W/m²</td>
<td>23.10 W/m²</td>
<td>10.22 W/m²</td>
<td>9.41 W/m²</td>
</tr>
<tr>
<td>Annual energy cost*</td>
<td>1143 €</td>
<td>506 €</td>
<td>466 €</td>
</tr>
<tr>
<td>Annual energy saving</td>
<td>-</td>
<td>55%</td>
<td>60%</td>
</tr>
</tbody>
</table>

Parameters for calculating the energy costs: 0.18 €/kWh, operating hours 11 hours, 250 days a year.

- White LED can now offer the guarantee for stable colour temperature throughout entire service life.
- RGB LED offer saturated and bright colour quality without the need for filters.
- The compact size allows a total creative and design freedom.
- No UV- or IR-radiation.
- Ecological quality thanks to low energy consumption level, no mercury, no lead.
- High environmental quality: less energy to illuminate the environment, less heat meaning less energy for air conditioning, less energy also to manufacture more and more compact fixtures.
Lighting in reception areas

The reception hall gives the visitor his first impression of the Company. Lighting design is limited to leading the visitor towards the reception area which is more brightly lit. The choice of light fittings is responsible for producing the Company’s brand image.
Lighting in passage ways

125 lux at ground level is enough to provide good visibility in corridors, stairways and lobbies. Recessed light fittings installed in a line perfectly meet this requirement. Indirect lighting fluorescent systems can also help to enhance passage way areas.
Lighting in waiting and rest areas

These convivial zones by definition require general, comfortable and calming lighting. The lighting designer will select lighting fixtures or the lighting effects on the basis of a varied range of criteria.
1. Vodafone HQs  
   Milan (IT)  
   Architectural project: Studio Dante Benini & Partners  
   Product: Cosmic Angel  
   Ph: Beppe Raso

2, 3. ChELSI Building  
   University of Sheffield  
   Sheffield (UK)  
   Architectural project: CPMG Architects  
   Product: Nur Gloss  
   Ph: Martine Hamilton Knight

4. Eurizon Capital SGR  
   Milan (IT)  
   Architectural project: S. Suartii / S. Aksu  
   Product: Mouette  
   Ph: Beppe Raso

5. NHN Corporation HQs  
   Seoul (KOR)  
   Architectural project: NHN SPX Team  
   Products: Castore, Dioscuri

6. Sparkasse Fulda  
   Fulda (DE)  
   Architectural project: Bredt und Partner  
   Products: Skydro, Mercury  
   Ph: Linus Lintner

7. Ernst & Young  
   Adelaide (AUS)  
   Architectural project: Woods Bagot  
   Product: Float
Lighting for individual work stations

The use of an individual lighting fixture, table lamp or floor lamp, is necessary in those offices that do not have general lighting or when its level is inadequate (300 to 500 lux required).
1 AF Steelcase
Madrid (ES)
Architectural project:
John Small
Product: Chocolate
Ph: Juanjo Fernández

2 Freyler
Kenzingen
Architectural project:
Freyler
Product: Tolomeo
Ph: Jo Hopemann

3 Lavazza Innovation Center
Settimo Torinese (IT)
Architectural project:
Gruppo Thema Progetti
Product: Tolomeo
Ph: Alessandro Albert

4 Innovatio SpA
Kilometro Rosso Science & Technology Park Bergamo (IT)
Architectural project:
Giovanni Rizzi
Product: Kalifa
Ph: Beppe Raso

5 Credit Suisse HQs
Rome (IT)
Architectural project:
Progetto CMR
Product: Chocolate
Ph: Beppe Raso
General and individual office lighting systems

The lighting design for open plan offices meets the requirements of precise quantitative and qualitative standards irrespective of the choice of light fitting, recessed, ceiling or suspended. Artemide can produce lighting studies on demand.

Combining a general system that provides a comfortable and uniform level of lighting with individual light fittings appliances for customised light level is a solution that is particularly welcomed by users.

The INTERACTIVE-DALI system (combining motion sensors and daylight control) not only provides true comfort to users, but also meets the environmental energy saving requirements.
1 Roberto Cavalli HQs
Milan (IT)
Architectural project: Roberto Cavalli A&DD
Head architect Barbara Picciolo
Products: Surf, Tolomeo Led
Ph: Beppe Raso

2 Innovatio SpA
Kilometro Rosso
Science & Technology Park
Bergamo (IT)
Architectural project: Giovanni Rizzi
Product: Kalifa
Ph: Beppe Raso

3 ABI
Milan (IT)
Architectural project: Progetto CMR
Product: Espit
Ph: Beppe Raso

4 SIA
Milan (IT)
Architectural project: Walter Incerti (IZed Partners)
Product: Espit
Ph: Beppe Raso
Lighting in meeting rooms

Lighting design for meeting rooms which constitute the venue for discussions and debates must meet several requirements: lighting working surfaces for tasks such as reading and writing but also providing light that does not inconvenience other people sitting round the table.

By combining two independent lighting systems, particular situations such as video presentations can be managed comfortably.
1. AF Steelcase
   - Madrid (ES)
   - Architectural project: John Small
   - Product: Talo
   - Ph: Juanjo Fernández

2. Sparkasse Fulda
   - Fulda (DE)
   - Architectural project: Bredt und Partner
   - Product: Mercury
   - Ph: Linus Lintner

3. SIA
   - Milan (IT)
   - Architectural project: Walter Incerti (IZed Partners)
   - Product: Mini Flap
   - Ph: Beppe Raso

4. NHN Corporation HQs
   - Seoul (KOR)
   - Architectural project: NHN SPX Team
   - Product: Orion

5. Innowatio SpA
   - Kilometro Rosso
     - Science & Technology Park
     - Bergamo (IT)
   - Architectural project: Giovanni Rizzi
   - Product: Kalifa
   - Ph: Beppe Raso

6. ABI
   - Milan (IT)
   - Architectural project: Progetto CMR
   - Product: Nothing linear
   - Ph: Beppe Raso

7. Sala Consiliare del Comune
   - Segrate (IT)
   - Architectural project: Edoardo Zanaboni
   - Products: Mouette, Tolomeo micro
   - Ph: Beppe Raso
Lighting for reading rooms

For these places where concentration and quiet predominate, lighting design tends to comprise a general lighting system enabling the works on the bookshelves to be identified (vertical lighting) and individual light fittings for use when reading documents on the reading table (horizontal lighting).
1. Biblioteca de la Universidad de Deusto
Bilbao (ES)
Architectural project: Rafael Moneo
Product: Atocha
Ph: Cesar San Milian

2. Queen Marys University
London (UK)
Architectural project: Projects Team
Product: One line

3. NHN Corporation HQs
Seoul (KOR)
Architectural project: NHN SPX Team
Product: Kalifa
The Artemide solutions

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<tr>
<th>Lighting in reception areas</th>
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<tr>
<td>Ceiling lamps</td>
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<td>Pendant lamps</td>
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<td>Recessed lamps</td>
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<td>Wall lamps</td>
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<td>Table lamps</td>
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<td>Floor lamps</td>
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<tr>
<td>Versatile lighting systems</td>
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