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Whitecroft
lighting

Energising the Office

Creating productive working environments
with LG3 2001 compliant solutions

Office Lighting: True Costs and

In constructing and refurbishing office buildings, initial project cost has traditionally been the prime consideration. From the users point of view the key issues should be people costs and lifecycle costs.

This has been recognised in the 1:5:200* value ratio. In the lifetime of a typical building, for every £1 spent on a facilities construction, £5 will be incurred in facilities management and no less than £200 in the cost of the people who use the building.

Relative Expenditure



Total solutions

Recognising all these factors, Whitecroft has extended its range of lighting systems to meet every requirement in terms of cost and performance for all office projects. Our product range, design service and complete project support capabilities allow us to deliver office lighting solutions best adapted to the needs of people at optimum cost-effectiveness, whatever the application.

THE 1:5:200 RATIO

This is particularly relevant to lighting installations, where efficiency, economy and the long-term impact of the working environment on staff performance are all crucial.

- 1 = The initial construction cost which is just the tip of the life cycle cost (LCC) iceberg.
- 5 = FM or operational costs. These must be added to the initial cost to arrive at the LCC.
- 200 = The cost of people to the building user. Better environments = better staff performance.
- CIBSE lighting guides, LG3 2001 and LG7 2004, emphasise the need to design, specify and install the most effective lit environments to achieve compliance.

* Source: 'The Long -Term Cost of Owning and Using Buildings, Evans, Harigott, Haste & Jones. Royal Academy of Engineering, November 1998

1:5:200

Real Benefits

A woman with long brown hair, wearing a white blazer over a black top, is seated in an office cubicle. She is holding a black mobile phone to her ear and looking upwards and to the right with a thoughtful expression. The office environment is visible in the background, featuring cubicle walls, computer monitors, and fluorescent lighting on the ceiling. The overall lighting is cool and blue-toned.

Development: West tec, Hangar Lane, London
Client: Blackfriars Investments
Architect: Twigg Brown Architects
Consultants: Chapman & Bathurst
Electrical Contractor: RAP Electrical

**Every business recognises
people as its most
valuable asset.**

The expansion in the use of technology, the universal use of PC's and the versatility required of modern offices imposes increased demands on lighting.

As a result, office working is now a more intense experience where a lit environment conducive to physical comfort and productivity is vital. Conversely badly lit environments can be responsible for higher levels of absence, inefficiency and staff turnover.

Lighting for People

Valuable assets, expensive resources

As well as being a company's greatest asset, its people normally represent its greatest cost.

- The average UK salary is £24603, rising to £34672 in London. (April 2002 – New Earnings Survey, Labour Market Trends – Office of National Statistics).
- The cost of recruiting and training office personnel is estimated at anything between £10k and £40k.
- LG3 2001 emphasises the importance of the lit environment. This impacts on staff performance.
- Organisational behavioural studies show environmental factors such as lighting have an important effect on staff motivation and productivity.

Development: City University Business School
Consultant: Speirs and Major
Architect: Bennetts Associates

*The first aim of every office lighting system should be to energise the people who work there. It should make their office a place that increases **morale** and enhances **productivity**.*

ENERGISING THE OFFICE

Recognising the high cost of people, the first lighting objective should be to help create an environment where their performance can be optimised, this involves much more than achieving a prescribed lighting level. The Whitecroft range of office luminaires can assist in achieving the following objectives.

- Maximising productivity.
- Minimising stress.
- Improving staff comfort and morale
- Aiding recruitment and retention
- Achieving positive, measurable financial benefits

5:2000



Designed

Development: N°1 Cavendish Place, London
Client: O&H Properties
Consultant: PSM Property Services + Management
Electrical Contractor: W&L Installations

Lower operating and maintenance costs

Of all the elements involved in office building and refurbishment, better lighting has perhaps the greatest potential to offer lifecycle cost savings.

At Whitecroft our products are designed at the outset to minimise operating and maintenance costs. Continuous research, extensive experience and regular dialogue with our clients help us to incorporate long-term cost and energy savings into every project.

Energy efficiency

Minimising lifecycle costs on lighting installations depends particularly on energy efficiency. We achieve this in a variety of ways, using efficient optics and advanced T5 fluorescent lamps and electronic gear. This is combined with sophisticated control and monitoring systems to ensure only the necessary energy is used, thus eliminating the wasted cost of lighting empty offices while also exploiting daylight.

SAVING COSTS AND TIME

Energy saving and maintenance friendly features are built in to all our products. For example, maintenance without tools allows quicker, easier replacements and repairs. These features give a payback many times over in the lifetime of the lighting installation.

- Simple installation
- In-built features to reduce both the frequency of maintenance required and time and cost involved at each visit
- Energy-efficient T5 fluorescent lamps to reduce running costs and extend intervals between scheduled lamp changes
- Sophisticated control and monitoring systems to eliminate wasted energy where life cycle cost analysis shows an acceptable payback

for Efficiency

1:5:2000

Specifying Whitecroft lighting, gives access to some of the most technically advanced lighting systems available today.

Optimising the balance between best fitness for purpose, high quality and value is at the core of our business philosophy. This is reinforced by an innovative approach to product design, quality assurance and environmental protection.

Technically

Our state-of-the-art research and development centre is constantly improving the performance of our luminaire optics, increasing energy efficiency so that we can reduce the number of luminaires required to light an area.

Development and innovation

Ongoing product development means that we strive not only to meet but to set today's and tomorrow's standards. Our design team constantly challenges established ideas and methods. We seek client input not only when working alongside customers to produce bespoke luminaires but also when developing innovative new standard solutions.

Committed to quality

Our investment in high-tech manufacturing processes not only ensures the highest possible quality, but also enables us to design and build complex new products. Governed by strict ISO9000 quality assurance every aspect of our design and manufacturing process is rigorously monitored.

Environmentally aware

We are continuously improving the energy efficiency of our luminaires, reducing the drain on natural resources as well as cutting client's running costs. At the same time, we are actively researching the use of environmentally friendly and recyclable materials in the construction of our luminaires.

CORE VALUES

- Corporate philosophy focused on delivering function, performance and value
- Quality without compromise
- Research and development dedicated to product improvement
- Proven track record in office lighting innovation
- Committed to listening to customers views
- Practical, effective environmental policies

1:5:2000

Brilliant



Development: City University Business School
Architect: Bennetts Associates
Consultant: Speirs and Major

*While the most
suitable lit
environment
delivered at an
affordable Life Cycle
Cost is extremely
important, aesthetic
design is also
critical to a
successful office
lighting installation.*

At Whitecroft, we understand the synergy created by effective lighting and interior design, and work closely with our architect partners to achieve the best results in terms of appearance and overall ambience. Our philosophy is 'neutral but memorable'. We seek to enhance and complement but not divert attention from the key architectural features in the space.

Bespoke designs

In particular, we have the capability and experience to design and create new bespoke luminaires to achieve the lighting effects required for any situation. Our aim is to help you realise creative ideas, and match imaginative design with precise technical performance.

Range and variety

In a typical modern office, 'statement' lighting may be effective in a reception area or to create focus, while in an open plan environment clean lines and unobtrusive luminaires are more desirable. We offer a wide range of options and provide a variety of different solutions for every possible office lighting requirement.

Intelligent Aest

1:5:2000

Development: HM Treasury, London
Architect: Foster and Partners
Consultant: Speirs & Major

hetics

DESIGN RULES

- Our design team works closely with you to achieve your objectives
- Choice of solutions based on different lighting approaches
- Range of product options
- Advice and support throughout from project management team



Achieving

1:5:200

At Whitecroft, we see standards and compliance as a challenge, not as a burden.

Our forward-looking and proactive approach means that we respond rapidly and positively to every change in standards, whenever it happens.

With the introduction of the LG3 2001 addendum, we have developed new products aimed specifically at meeting the new office lighting guidance given for display screen areas.

LG7 2004 is a more comprehensive document and addresses all spaces in an office building. We have a range of solutions to meet these needs.

Energy conservation is at the heart of all Whitecroft services, fully addressing the requirements of Part L2 of the Building Regulations 2000. Our systems also achieve the requirements prescribed in EN 12464-1, the new European Standard for Indoor Workplaces.

Design technology

LG3 2001 requires average lighting levels on walls and ceilings are >50% and >30% respectively of the average on the working plane. To achieve this, Whitecroft has developed products that embrace sophisticated technology to control light. This permits a holistic approach to office lighting, creating large open-plan spaces which can be re-configured without losing compliance.

LG3 2001

Compliance

MEETING STANDARDS

Whitecroft are able to offer solutions to enable lighting schemes to comply fully with

- LG3 2001 and LG7 2004
- Building Regulations 2000 Approved Document L2
- EN 12464-1
- Inland Revenue criteria for Enhanced Capital Allowances

Lighting the task

LG7 2004 requires that, whatever the nature of the workspace, lighting should be applied to task locations rather than uniformly across whole areas.

By understanding the building and the visual requirements of the people concerned, Whitecroft will ensure that C.I.B.S.E. guidance is satisfied at the same time as creating an interesting and stimulating working environment.

LG7 2004



Furthering



To provide you with further information on meeting current lighting standards, Whitecroft Lighting has produced a dedicated website containing detailed information on both LG3 and LG7 guidelines, as well as Building Regulations and Health & Safety issues. The site can be found online at www.LG3.co.uk or can be accessed offline from the enclosed CD.

As well as information on lighting standards, you will also find details of Whitecroft luminaires which can be used to create compliant schemes, along with photometric data which can be downloaded.

Your views and feedback are vital to our future product development, so please take the time to complete our online survey and help us better understand your needs.

www.LG3.co.uk

Knowledge





ENERGISING THE OFFICE

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