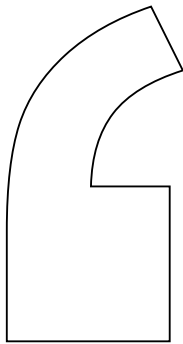
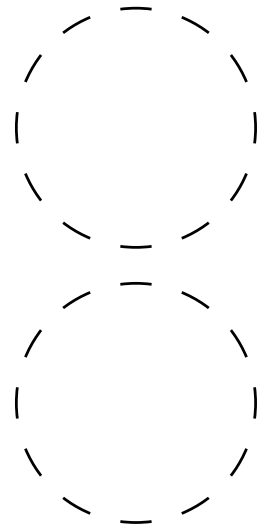


Natural light works
ENVIRONMENTAL & DAYLIGHT DESIGN

The background of the entire page is a sunburst pattern of radiating lines in two shades of orange, emanating from a central point at the bottom right.

gja



Light and illumination are inseparable components of form, space and light. These are the things that create ambience and feel of a place, as well as the expression of a structure that houses the functions within it and around it. Light renders texture, illuminates surface, and provides sparkle and life.

Le Corbusier © FLC





Natural... **evolution**



For me, architecture is the form of light. Architecture is the physical manifestation of an idea of human experience. Architecture is the realization of coming together in a presence of light.

Leading US architect, Richard Meier
Richard Meier & Partners Architects LLP

GIA


GIA is a leading adviser on the impact and quality of natural light for planning applications, working on multi-million pound developments in London and major cities throughout the UK. At GIA we are fascinated by the built environment. This drives our innovation, our understanding and our growth.

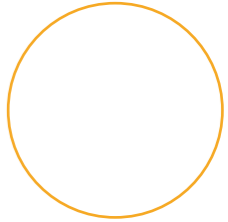
A shifting and increasingly sensitive environmental and political agenda has significantly impacted development. Our existing role as advisers to the property industry on lighting related matters within this climate led directly to the launch of our Environmental & Daylight Design department in 2003.

As Daylight Designers, we work closely with architects and developers to establish how natural light within a building scheme proposal can be enhanced and used most effectively to optimise its amenity, value and overall quality.



Natural... **environment**

 Light is the theme.
Louis Kahn



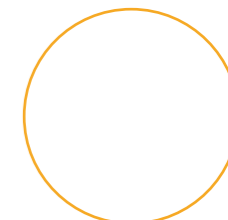
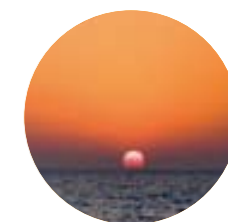
Why light matters

The sun is the source of all light and this is fundamental to our existence on earth. Without light there would be no life, whether human, plant or animal. Light governs our daily lives, our health and our emotions.

A well-lit space draws people to it. Our designers seek to capture the natural power and beauty of sunlight by harnessing its energy to define and enhance spaces for the benefit of those living and working within them.



Natural... **enhancement**



Why use a Daylight Designer?

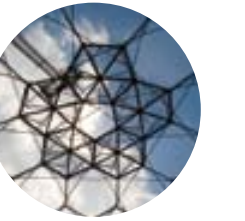
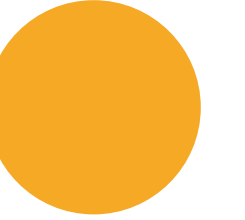
An architect's role is to lead design. A Daylight Designer's role is to bring a niche knowledge of light within the built environment to compliment the architect's design process in order to create the very best results.

Daylight Designers bring **4** key elements to a scheme:

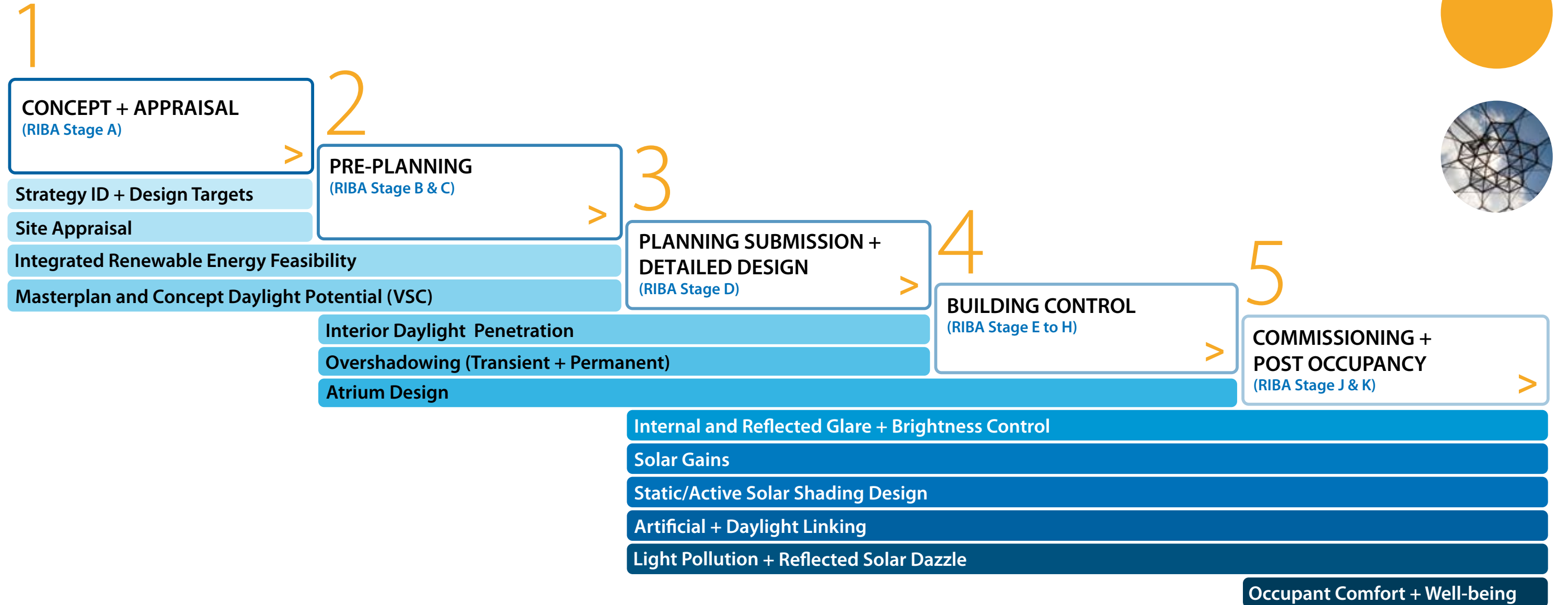
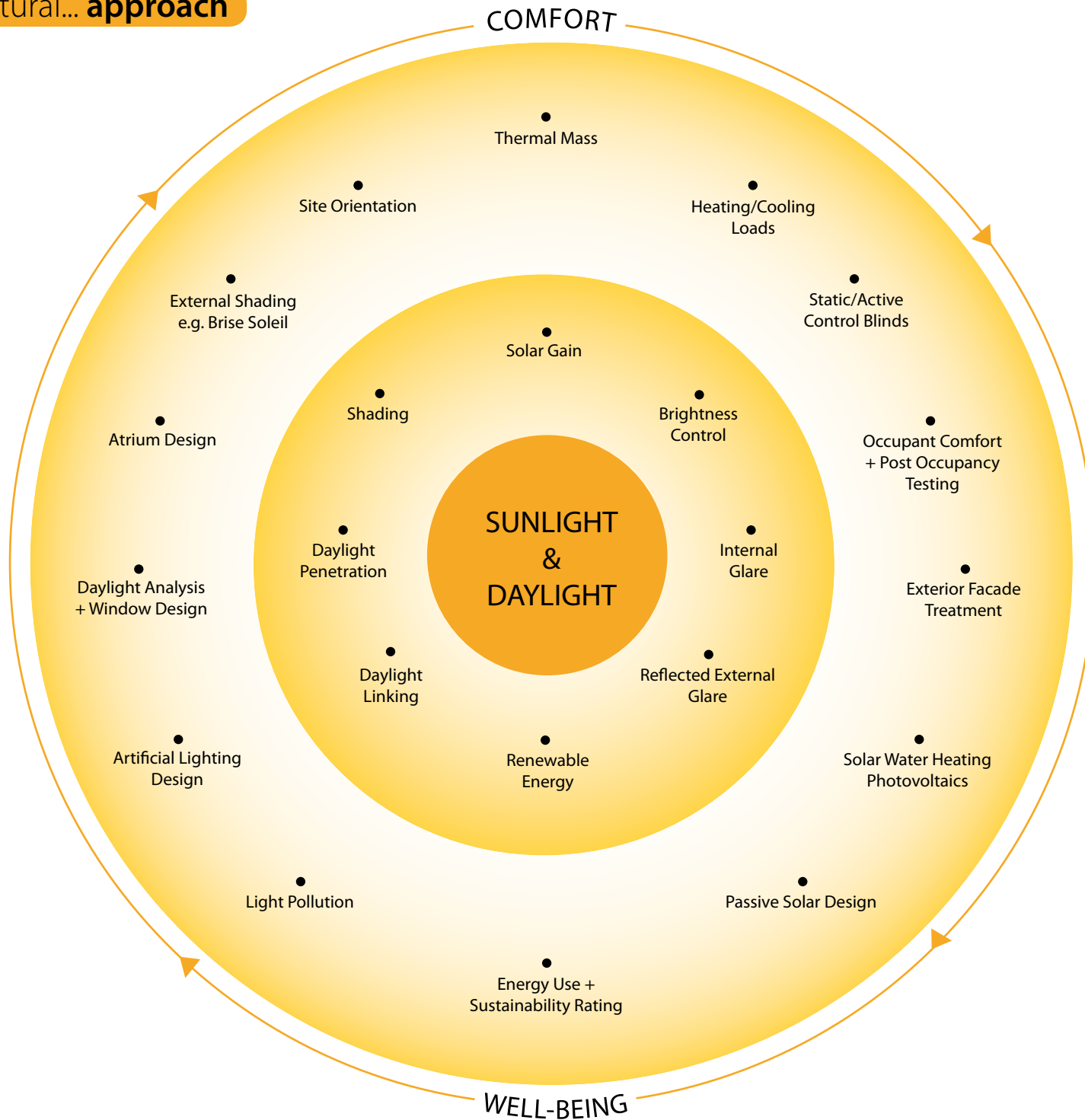
1. Support throughout the design process
2. Technical knowledge and experience
3. Beautifully lit buildings
4. More valuable space

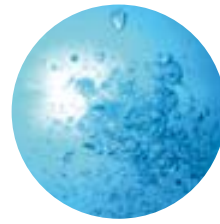
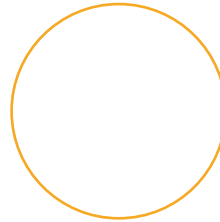
Our design philosophy combines these elements to help create truly striking spaces.

Design stages



Natural... approach





Natural... **leaders**



Support throughout the design process

Inception to completion

We work with developers and architects throughout the process. Analysis of masterplans and orientation will show the potential for natural lighting and the impact on thermal comfort and energy performance within a concept design, both internally and externally. The results guide the architect's decisions and so assessments should always take place before detailed designs are progressed.

Strategy & design targets

Early Daylight Design advice will reduce expensive reworking of design plans because the major issues are considered, and objectives agreed, at the outset thus maximising the amenity and value of the scheme.



... in some types of building, such as office blocks, 10-30% of the primary energy is used by lighting... The exploitation of daylight can do much to reduce this energy cost... Another study by the BRE indicated potential energy savings averaging 20-40% in offices and factories if daylighting is used effectively.

"Daylighting as a passive solar energy option: an assesment of its potential in non-domestic buildings"
BRE (Building Research Establishment)

Technical knowledge and experience

Depth

Our knowledge is grounded in years of commercial practice in the realm of light within the built environment. We understand its construction, its effects and how best to utilise it. No one specialises in this area as we do.

Compliance

Utilising daylight and sunlight can aid environmental efficiency. Sound design philosophy ensures compliance but guidelines do not form design principles. We support the design of environmentally responsive buildings that far exceed minimum standards.

Application

The environmental considerations of a building are entirely interrelated. The smallest design choice can

significantly affect the overall building. We guide each project from inception to completion, applying a 360° approach to design which guarantees every aspect is considered thoroughly and scientifically within the agreed timescale and budget.

Technology

Once construction is completed, changes come at a high cost. At GJA we research and invest constantly in new technology to ensure we have the best available in the market to test ideas and push the boundaries in design innovation:

- Computer simulation
- Physical model testing
- Assessing artificial and daylight linking



Natural... **partnership**



Occupants in daylight... office buildings reported an increase in general well-being. Specific benefits in these types of environments include better health, reduced absenteeism, increased productivity, financial savings and preference of workers.

"A literature review of the effects of natural light on building occupants"
US National Renewable Energy Laboratory

Beautifully lit buildings

Enhance

Light transforms a dull space into a special one. We work with architects and, where appropriate, our own in-house artificial lighting design team, to harness light in the most effective ways to accentuate space and shape, showcase colour and architectural detail and create stunning visual impact.

People

This visual impact has the power to inspire, to evoke feelings and responses in people that makes an immediate and lasting impression.

Productivity

Studies demonstrate that a well-lit environment tailored for the user results in not just a happy, motivated workforce but a more productive one. We design for the well-being and comfort of users.

Identity

Skilful and imaginative design such as atriums, windows and open areas, highlights key architectural features as well as the personality of a space to embody the individuality of an organisation and create an iconic building.



Natural... **value**

Good natural light and unique design features in a building create a positive perception in potential buyers and occupants. This gives us a significant advantage as agents and can ultimately enhance the space's value.

Knight Frank, leading Independent Global Property Consultancy

More valuable space

Well-being

Our designs combine technical solutions with flair and imagination to transform a space for its users.

Return on investment

We create beautiful naturally lit spaces with enhanced aesthetic impact to help buildings sell or let at a premium market value.

Early consultation

Expensive amendments to plans or structural changes are avoided because every issue is considered before detailed designs and applications are progressed.

Operation and maintenance

Our extensive technical knowledge ensures you benefit from the latest and most efficient design solutions, such as solar gain, shading and renewable energy, to achieve significant energy savings that minimise environmental impact and long term running costs.



Natural... **understanding**

G
 Natural light in city buildings is essential for people’s health and satisfaction and for reduction of carbon emissions. Good daylighting design in high urban densities needs specialist knowledge. GIA has outstanding resources and long experience of working in London.

Professor Peter Tregenza BArch MBdgSc PhD RIBA MCIBSE CEng
 Co-author of *“The design of lighting”*

Some recent projects

Project	Architect
Royal Arsenal, London	Allies and Morrison
Puddle Dock, London	Alsop
Great Suffolk Street, London	Conran & Partners
The National Gallery, London	Dixon Jones
Fortress House, London	Eric Parry
Bishopsgate Goodyard, London	Foster + Partners
Walbrook Square, London	Foster + Partners
Treasury Building, London	Foster + Partners
King Alfred Centre, Brighton	Frank Gehry & HOK
Tate Modern Extension, London	Herzog & de Mueron
10 Queen Street Place, London	Hurley Robertson & Associates (BCO Award winner)
The Pinnacle, London	Kohn Pedersen Fox (KPF)
Goodmans Fields, London	Lifschutz Davidson Sandilands
Wandsworth Riverside Quarter, London	MAKE
Old Bailey, London	MAKE
Middlesex Hospital, London	MAKE
20 Fenchurch Street, London	Rafael Viñoly
Shard of Glass, London Bridge, London	Renzo Piano
Wood Wharf, London	Rogers Stirk Harbour + Partners
Chelsea Barracks, London	Rogers Stirk Harbour + Partners
1 Hyde Park, London	Rogers Stirk Harbour + Partners
The British Museum, London	Rogers Stirk Harbour + Partners
Copthorne Tara Hotel, London	Squire and Partners



GIA Environmental & Daylight Design... **the natural choice**



At GIA our overriding objective is to help our clients develop and realise a shared vision to create the most beautiful results. Our aim is always to improve the quality of the built environment to offer people a better lifestyle.

Barry Hood, Head of Environmental & Daylight Design



Barry Hood
Head of Environmental & Daylight Design

Barry Hood has extensive experience in the field of light. He works with international architects and leading developers to assess daylight and sunlight impacts, as well as the more sophisticated design of internal space. This ranges from masterplanning to detailed designs, including atriums and residential/commercial spaces.


The team

Our designers are all hugely passionate about architecture and the power of harnessing natural light within it. The team combines imagination with extensive technical knowledge and a commercial appreciation of the imperative to achieve maximum financial value from any space.

gjalighting

GIA Lighting is part of the GIA group. The team works with us and independently on many major projects in the UK and overseas. Artificial lighting can be powerfully used to compliment and replicate natural light within a space. This in-house resource ensures a seamless design solution to bring complete harmony between the natural and artificial lighting elements of any scheme.



The background of the entire page is a sunburst pattern. It consists of numerous rays of varying lengths and widths, all originating from a central circular area at the bottom left. The rays extend outwards towards the top and right edges of the page. The color palette is monochromatic, using two shades of orange: a lighter, pale orange for the rays and a darker, more saturated orange for the spaces between them.

GIA Environmental & Daylight Design
The Whitehouse
Belvedere Road
London SE1 8GA

T 020 7202 1400
F 020 7202 1401

info@gia.uk.com
www.gia.uk.com

Brochure created by GIA Design