

# CITYOFLIGHT

illuminating Liverpool's beautiful, historic architecture



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## CPL 2007 - A Description of the illuminated area (Site, monument, suburb, street....)

Liverpool City Centre has a rich architectural heritage which includes the world famous waterfront, Cultural Quarter and two iconic Cathedrals. The City owes its wealth of civic buildings and historic architecture to its development throughout the 18th and 19th Centuries as one of the worlds most prominent commercial ports. Today, Liverpool is enjoying a new period of revival, inscribed onto the UNESCO World Heritage List in 2004 and selected as European Capital of Culture for 2008.

Aspiring to be a premier European city, Liverpool has seen more than £3 billion invested in the regeneration of the city centre, enhancing the public realm, and developing the business, retail and tourist offer.

The existence of a high quality night time environment is central to Liverpool's renaissance, with the City's Urban Planners and Strategists recognizing the contribution of urban lighting to the presentation and economy of the city. Significant planning and investment was required in this area given a starting point where urban lighting in all its forms had lacked attention and investment.

Working within the Strategic Framework outlined within the description of designers objectives (Page 3), Liverpool has delivered a 5 year programme of architectural and feature lighting for the City Centre.

Phase 1 of the programme targeted landmark buildings and key beacons, defining the city identity & aiding orientation. Later phases focused on building up a critical mass of lighting within priority areas, giving consideration to key vistas and pedestrian routes. During the period 2002 to 2007 the City Centre Feature Lighting Programme has seen more than 60 buildings and monuments lit in the heart of Liverpool. The impetus of this programme has also encouraged additional lighting schemes by building owners and developers outside of the programme.

The illuminated area encompasses the core of the city centre, with concentrations of lighting in key zones that include The Waterfront, The Cultural Quarter, The Commercial District, Castle Street Conservation area, Hope Street, and the Cavern Quarter

The Long term strategy also identifies other key zones within the City Centre, outlining an individual approach to lighting for each one. In particular two significant projects currently underway are:

- Paradise Street Development Area - a new £928m mixed use development bridging Liverpool's retail core and the waterfront. This major development incorporates its own lighting masterplan
- Pier Head / Mann Island Development - Major new developments and public realm regeneration schemes on this historic waterfront site.
- Liverpool's commitment to urban lighting extends beyond that of architectural illumination, and the Feature Lighting Programme is one element within a mid to long term plan that incorporates other urban lighting proposals and special events including:
- Lime Street Rail Cuttings - proposal to light the mainline rail gateway approach,
- St John's Beacon - special event lighting infrastructure to a skyline beacon
- Edge Lane - Philips appointed to develop a lighting proposal for the Rocket Junction City Gateway.
- River of Light - proposals for a special event Lighting spectacle along the Mersey estuary.
- Festival of Light - to be organized as part of the 2008 Capital of Culture Celebrations.

The overarching aspiration has been to integrate lighting within the context of major regeneration investment, ensuring the appreciation of the City's historic form is not lost and raising the city environment and public realm to that befitting a World Heritage Site and European Capital of Culture.





## CPL Award 2007. A technical sheet detailing the lighting installation, including budget



### Technical principles

There are a diverse range of schemes ranging from the lighting of landmark historic buildings; large scale new buildings and major public realm schemes, through to small schemes on existing commercial buildings. Design work has been undertaken by a number of different designers and consultancies. The following general principles of good practice have been applied:

**Independent Designers** - Most schemes have been undertaken by independent lighting consultants ensuring that appropriate equipment has been selected for each task from a wide pool of manufacturers enabling the strengths of each supplier to be fully exploited and to ensure best value for their clients.

**Trials** - Most of the designers involved use the trials and mock ups as an integral part of the design process to inform their work. This is particularly pertinent with respect to work on existing heritage buildings.

**Control** - The equipment selected will have been chosen with regard to its photometric performance and will be fitted with accessories appropriate for the task for which it has been chosen to perform. The control of glare and light spill are essential criteria with any lighting scheme.

**Lamp Sources** - Many of the buildings that have been lit are historic or are located in a context where they are surrounded by historic buildings or within a conservation area or the UNESCO World Heritage Site. In these circumstances the choice of light source has been informed by colour temperature and colour rendering. In many instances Ceramic Metal Halide has been used, alongside high quality fluorescent with HF electronic gear with a colour temperature of 3000\_K. On more recent projects LEDs have also been used as products with appropriate colour temperatures and consistency of colour have begun to become available. On new schemes other colour temperatures and coloured light has been used where appropriate - again ceramic metal halide and fluorescent have been popular. SON is being used for a number of new road lighting schemes, this is for economic reasons or to ensure that the colour contrast with adjacent existing areas will not be detrimental.

There is a commitment amongst all the designers involved to investigate the use of new technology to improve energy efficiency and maintenance frequencies. The Philips Cosmopolis White lamp is being used extensively on the Pier Head and other public realm schemes, along with the Extreme long life T8 Fluorescents. The Philips 20W CMD has been used extensively to bring down the overall intensity of schemes and allow very small / discreet luminaires to be used. The new generation of LEDs has been used widely on more recent and pending schemes often in luminaires developed specially for these projects.

**Historic Buildings** - As detailed above the choice of source is important. In addition the location and visual appearance of luminaires is critical. Strict guidelines have been imposed to ensure schemes are discreet and where possible luminaires are well concealed. Schemes have been designed to ensure that the electrical installation has minimal impact on the fabric of the building and is as well concealed as possible.

**Light Pollution & Light Trespass** - Schemes are designed so that when properly focused light pollution and unwanted light spill is kept to a minimum. Coordination between scheme designers and street lighting engineers is allowing proper coordination of lighting to minimise the impact street lighting will have on adjacent architectural schemes and in turn allows architectural designers to reduce the intensity of lighting required for some building schemes.

**Controls** - All exterior schemes are fitted with appropriate controls. Many of the City funded schemes utilise solar/astrological time switches to ensure consistency throughout the year and avoid the reliability and location relates issues associated with photocells.

**Manufacturers** - A very diverse range of manufacturers have been employed across Liverpool as would be expected on such a diverse range of projects. Typical examples are as follows; Meyer, Sill, Urbis, DW Windsor, Philips, Martin Architectural, iGuzzini, Encapsulite, Light Projects, Commercial Lighting, Mike Stoane Lighting, Louis Poulsen, Hess and Siteco

## CPL Award 2007 - A sheet describing the objectives of the creator, designer

Key objectives of the Cities Lighting Strategy and Architectural Feature Lighting Programme are:

- To help create a more sustainable environment.
- Boost the night time economy and increase the perception of public safety within the City Centre at night.
- To integrate lighting of buildings with public realm lighting as part of the wider regeneration projects.
- To create a night time identity for the city and for individual areas within the City Centre.
- To show off the beautiful historic architecture of Liverpool in a sensitive and appropriate way.
- To generate a culture within the city where lighting is recognised as an important part of the nightscape to raise the awareness of good lighting that is sensitive to the building and its environment.
- To encourage developers and the designers of new buildings to use lighting in a way that will integrate with the strategy for lighting within the city.
- To generate a culture of cooperation between all those involved with lighting within the city.
- To use lighting as a trigger to generate discussion on sustainability, energy use and light pollution.
- To promote energy efficiency and best environmental practice.
- To continue to promote good lighting by means of lighting events, public art and festivals and the involvement of the community in educational, arts and cultural events. To work with cultural organisations such as the Liverpool Biennial and Liverpool Culture Company to further this aim.
- To become one of Europe's lit cities

In order to achieve these objectives The City of Liverpool and Liverpool Vision commissioned Lighting Consultants to develop a Strategy / Masterplan for the lighting within the city centre as part of an Architectural Feature Lighting Programme. This was undertaken in two phases - an initial piece of work identified beacon buildings and identified a general

approach to further work, the second phase looked in more detail at a street level approach with the aim of complimenting target regeneration areas, to highlight important corridors and routes within the city centre and to provide a strong impression of a lit city for residents and visitors. This second phase has looked more closely at other public realm works and new developments with a view to integrating the design of new works where possible, and to respond to the challenges set by independent projects outside of the direct control of the City.

In addition to the Cities own strategy the new Paradise Street development at the heart of the City Centre Retail Core - which combines new retail, leisure and residential buildings on a massive scale, has developed its own integrated Lighting Masterplan. This work has been undertaken in consultation with the city with a view to the lighting within this new area and the old City responding to each other ensuring an overall integrated approach.

In 2005 Liverpool City Council and Liverpool Vision commissioned independent consultants to undertake an independent evaluation of the impact of Phase 1 of the Feature Lighting Programme. Findings included:

- 84% of visitors felt safer after dark because of the buildings being lit
- 88% of visitors agreed that the lighting scheme had increased their enjoyment of Liverpool
- 50% of visitors (72 % from abroad) would make a special trip to the city centre to see the illuminated buildings and landmarks.

The study estimated that investment in lighting will generate additional spending of £3.2 million per annum.

This report is the only study to be undertaken into the economic and human impact of urban lighting, and evidences the positive outcomes of Liverpool's lighting strategy in terms of peoples' interaction with the city environment and on stimulating the night time economy.





## CPL Award 2007 - A sheet outlining the people involved in the conception and implementation of the project with a short profile



### Client Team:

Providing Strategic level direction and support for a co-ordinated city wide lighting strategy:

- Ian McCarthy, Programme Director, Liverpool Vision - The Observatory, One Old Haymarket, Liverpool L1 6EN  
Tel: 0151 703 2709 imccarthy@liverpoolvision.co.uk
- Martin Thompson, Liverpool City Council - City Centre Projects Team, Regeneration, Municipal Building, Dale Street, Liverpool L1 2DH. Tel: 0151 225 3735  
Martin.Thompson@liverpool.gov.uk

### Programme Management

A dedicated project management resource to drive forward implementation of the City Centre Feature Lighting programme, engaging building owners and generating private sector investment.

- Phase 1: Michael Haslam, Rose Project Services Limited, 1 North Parade, Parsonage Gardens, Manchester M3 2NH  
Tel: 0161 214 0853 ms@rppl.com
- Phase 2: Christine Johnson, 2020 Liverpool, part of the Mouchel Parkman Group, West House, Mercury Court, Tithebarn Street, Liverpool, L2 2QP. Tel: 0151 237 4105.  
christine.johnson2@2020liverpool.co.uk

Project Manager with 10 years experience of urban regeneration.

### Lighting Strategy

- Phase 1 Implementation Plan, Mark Sutton Vane, Sutton Vane Associates, Dimes Place, 106-108 King Street, London W6 0QP.  
Tel: 020 8563 9370 projects@sva.co.uk

Sutton Vane Associates was established over 12 years ago and is now a busy practice based in London. Mark Sutton Vane has wide ranging experience in all types of lighting projects having worked with two of the first lighting design practices in the uk, DPA and LDP, in their formative years.

- Phase 2 Lighting Strategy Framework, Graham Festenstein, Graham Festenstein Lighting Design, Myrtle Cottage, The Street, Thurlow, Suffolk, CB9 7LA. Tel: 01440 783709.  
graham@design-light.co.uk

Graham Festenstein has been working as an Architectural Lighting Designer for ten years and has run his own consultancy for the last six. He has worked extensively with historic buildings and on urban regeneration / public realm schemes

- Paradise Street Development Area: Martin Lupton & Laura Bayliss, BDP Lighting, Sunlight House, PO Box 85, Quay Street, Manchester, M60 3JA

### Designers

The wide range of designers used across the 60+ schemes in the City Feature Lighting Programme and on other lighting proposals within Liverpool are too numerous to list. Full details can be supplied upon request.

### Policy and Research Consultants

John Dawson Associates,

Authors of Feature Lighting in Liverpool City Centre An impact Assessment.