

# PHILIPS

sense **and** simplicity

## Seven Dials, Covent Garden

A Poppett

Outdoor Lighting

April 24, 2012

# Background



7 Dials Monument, Covent Garden

The Severn Dials Monument was originally erected in 1694 and removed 79 years later in 1773. The Monument was reconstructed again in 1988/9 and can now be viewed as a focal point from the 7 carriage-ways that make up Earlham Street, Mercer Street, Monmouth Street & Shands Bank

The Monument is currently illuminated by four No small tungsten recessed ground uplighters on the four sides, one illuminating each of the four plaques. Unfortunately the column and Sun Dials at the top are only illuminated by the spill light of the adjacent street lighting columns.



***Existing Lighting Installation***



# Proposal

It is proposed to re-illuminate the Monument in its entirety, to highlight the feature of the Sun Dials at the top whilst creating interest with contrasts of white lighting and modelling. The lighting proposals are therefore made up of the following:

### Seat & Base section Plinths

It is extremely difficult to illuminate the lower section of the Monument plinths, because of the protruding seating area around the bottom. It is impossible to install recessed ground uplighters in the paving without casting a shadow up the bottom half of each plinth. Mounting luminaires from adjacent columns or buildings, aiming down, will cause unwanted glare to pedestrians and car drivers. Also moving shadows would be created by moving traffic.

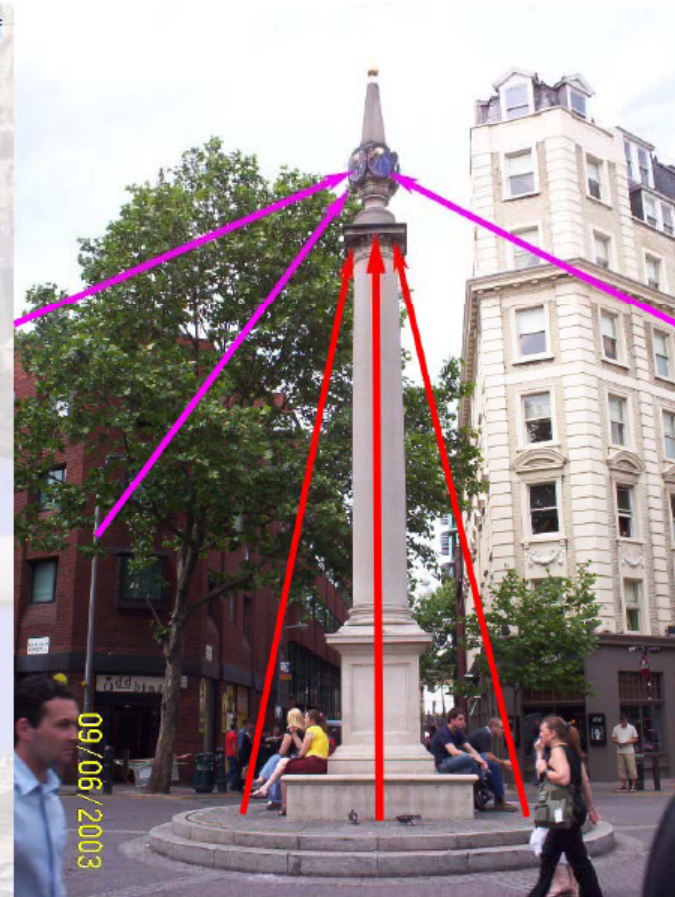
The only solution would be to install 4 No recessed Decoscene DBP522 ground uplighters with 70w CDM-T/940 elite lamps and Half Moon Frosted Glass (HMG-FR). With the luminaires tilted up to 20 deg maximum and the frosted side of the glass nearest the monument the light will spread the light out at low level whilst still punching up the column shaft. Some light will catch the under side of seat plinth and because of the depth of the seat plinth will cause a shadow on the lower section of the vertical base plinth, which cannot be avoided using recessed luminaires. The top half of the Base Plinth will be illuminated catching the underside of the protruding ledge above the Base Plinth. One advantage of the shadows is that it creates a sense of depth & modelling with the contrast of light & dark.

### Column Shaft

The unfrosted section of the optic in the Decoscene luminaires will punch light up the column shaft. Again there will be a small section at the bottom in shadow caused by the protruding ledge, but then the light will uniformly run up the shaft and catch the underside of the Sundial ledge.

### Sun Dials

The sun dials are to be separately illuminated using three No "ew-Burst 19 Neutral White (4000k) LEDs with tight 8 deg beam optic & Louvre. The luminaires will be mounted 5m up the 3 No adjacent lighting columns & aim upwards to the Sun Dial faces. The white light will enhance the blue colour of the dials and also highlight the spire and gold ball at the top. As the luminaires are above the traffic line and aiming up Glare should not be an issue to pedestrians & traffic, particularly with louvre.



**Proposed Lighting**

# Proposed Luminaires



DBP522 70w CDM-T luminaire



DBP522 Tilting optic (up to 20 deg)



DBP522 Half Moon Frosted Glass (HMG-FR)



Optional Vandal Resistant Screws (SVP)



DBP522 70w Assembly inc in ground housing



DBP522 Optional Stainless Steel Trim (DR)



DVP522 Square tile for fitting in paved (areas (SV)



ew- Burst luminaire



ew- Burst louvre

**Proposed Luminaires:**

**4 No**

**Decoscene DBP522 70w CDM-T/940 with Half Moon Frosted Glass, Square mounting Tile, In Ground Recessed box and Anti Vandal Resistant Screws**

**Ref: DBP522 CDMT70w/940-240v I NB RMR SV SVP HMG-FR**

**3 No**

**eW-Burst Neutral White 19 LED 8 deg beam with Honeycomb Louvre & Trim Ring**

## **Proposed Luminaires**





Visualisation

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## Review of current lighting

- following site visit on Thursday 12<sup>th</sup> April 2012

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# Existing Lighting



# Options – Pick up the ‘dials’



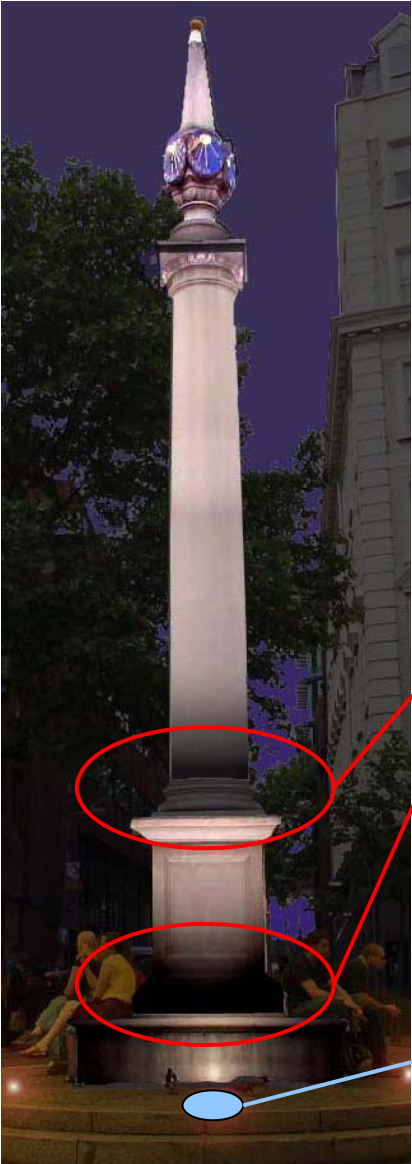
This is the location Philips would recommend aiming the lights. This would then make a feature of the dials at the top of the monument

Locations of existing lights seem okay, tree foliage does slightly affect 2 of the lights. In total 4 floodlights are aimed at the monument. Ideally these would be positioned 1-2metres higher.

The red arrow shows the point where the existing lights are focused. Picking out the ‘dials’ could potentially be achieved with the Current lights if they were re aimed. The existing lights have a wide beam, more than what Philips would suggest.



# The Plinth and Column of the monument



Due to the location of any potential fittings at the base of the columns it is not possible to stop 'half moon shadowing' from any recessed up lighters, this is caused by the monument itself

Location of any potential up lighters



**PHILIPS**

