



## sunDial quad optimized for ETC Source Four Mini LED

*sunDial quad, the PLASA Gold award-winning mains LED dimmer from Artistic Licence, demonstrates just how good the dimming achievable with an ETC Source Four Mini LED can be. Artistic Licence used its photometric lab to create a custom dimming curve for the fixture, with impressive results....*



The Source Four Mini LED from ETC is a miniature version of their classic stage spot. It uses a 12W LED and some clever optics to provide impressive projection, aimed at the museum, retail and restaurant markets.

It has an onboard LED driver that can be controlled with mains phase dimming - as such, it is compatible with the sunDial quad dimmer. Curious to see the results, Artistic Licence trialled the Source Four using sunDial's default linear curve. The dimming was excellent, but limited to the central 70-80% of the DMX512 range. Additionally, the linear curve provides limited control over the critical low light end of the curve.

Artistic Licence then used its photometric lab to create a custom dimming curve for the Source Four Mini LED. The ability to upload custom dimming curves is one of the unique features of sunDial quad (see below for a full description). Artistic Licence maintains an ever-growing library of dimming curves on its website, available to sunDial customers as a free downloadable resource.

The Source Four Mini LED curve spreads the response over the entire DMX range and adds a logarithmic response to improve low level control. The results show the ETC product off to its fullest potential, with a response that should satisfy the most demanding of lighting professionals.

The curve (reference number 40) is available for download from the dimming curves table on the sunDial product page (<https://artisticlicence.com/product/sundial-quad/>).



Buy sunDial from £395



## Introducing sunDial quad

[sunDial quad](#) is unlike any trailing edge mains dimmer currently found on the market. Our product offers a professional DMX512/RDM (or optionally Xicato wireless) controlled solution, with advanced safety features. There are four channels each providing 250W (or up to 500W per pair) - more than ample for LED, but also suitable for crossover markets that might have legacy incandescent technology.

The product works 'out of the box' with any dimmable replacement LED bulb (or dimmable incandescent or CFL source), but performance can be further optimized by the selection (via RDM) of one of four dimming curves on a per-channel basis.

### Changing perceptions

sunDial quad will trigger a conceptual shift in the perceived suitability of dimmable LED replacement bulbs for the professional market. Previously, the lack of a credible dimmer for this type of fixture represented a barrier to their widespread adoption. Now, the industry can be confident that switching over to this convenient and eco-friendly form of illumination will not compromise the ability to dim smoothly to low light levels – essential for control over theatre and cinema house lights, bars and restaurants etc.

### Finely tuned dimming

The quality of dimming achievable with sunDial quad is one of its major selling points. The product's ultra-high resolution internal dimming allows the small window of useable LED lamp dimming response to be spread out over the entire DMX512 level range. Pre-defined dimming curves can be selected via RDM on a per channel basis; there are currently four profiles that should suit most generic fixture types. Artistic Licence has also built a free database of lamp-specific dimmer curve files that are automatically generated by our in-house photometric analyser. For ultimate control, customers can edit dimming curves and upload files (using [DMX-Workshop](#), our free software management tool) to perfectly match chosen lamps. The ability to upload custom dimming curves on each of the outputs makes sunDial a true 'multi-tasker', removing the need for multiple dimmers.

### Advanced safety features

sunDial quad has been designed to be extremely resilient, with intelligent features that reduce ongoing maintenance needs. Active derating ensures that the product scales back if it approaches its maximum operating temperature. When the internal temperature sensors detect that it has cooled sufficiently, full operation is resumed. Self-healing outputs shut down in response to over-current, short-circuit and over-temperature situations. Normal operation resumes without user intervention when the fault has passed.

### Wired or wireless control

The standard product, sunDial quad dmx 1k, is controlled via DMX512/RDM. We will also soon offer a product variant, sunDial quad xgc 1k, which incorporates Xicato GalaXi technology. This allows wireless control, which is particularly suitable for heritage buildings and retrofit applications where the installation of new data cabling would be problematic. The xgc product merges radio and DMX data on an HTP basis.

## Features

- Trailing edge mains dimmer
- DMX512/RDM controlled
- Scene playback
- Programmable data loss mode
- Xicato GalaXi wireless control optional
- Compatible with dimmable LED replacement bulbs – perfect for 'dim-to-warm' fixtures
- Also suitable for dimmable CFL and incandescent sources
- 4 outputs, 250W per circuit
- Bridge mode provides 500W per pair of outputs
- Choice of 4 editable dimming curves, uploadable on a per output basis via DMX-Workshop
- LED indication for DMX/RDM/playback, power, identify, outputs and fault conditions
- Convection cooled with active derating
- RDM sensors for temperature, frequency and power
- Automatic heat and current management
- CAT III rated for installation directly into distribution boards
- Generator tolerant design – stable operation in marine applications
- DIN Rail or surface mount

## ABOUT US

*Established in 1988, Artistic Licence specialises in lighting control, with a broad range of products that are all designed and manufactured in the UK. We also develop OEM technology for clients worldwide.*

*For project work, our expertise enables us to offer custom-build solutions where no off-the-shelf product would be suitable. We routinely work with all the open lighting protocols, including Art-Net (which we invented), sACN, DMX512-A, RDM, RDMnet and DALI. From stadium rock to sculptural art, and municipal works to designer hotels, we offer an eclectic and international outlook.*

Artistic Licence  
The Mould Making Workshop  
Soby Mews  
Bovey Tracey  
TQ13 9JG, UK

[www.ArtisticLicence.com](http://www.ArtisticLicence.com)  
[sales@artisticlicence.com](mailto:sales@artisticlicence.com)  
+44 (0)20 8863 4515

