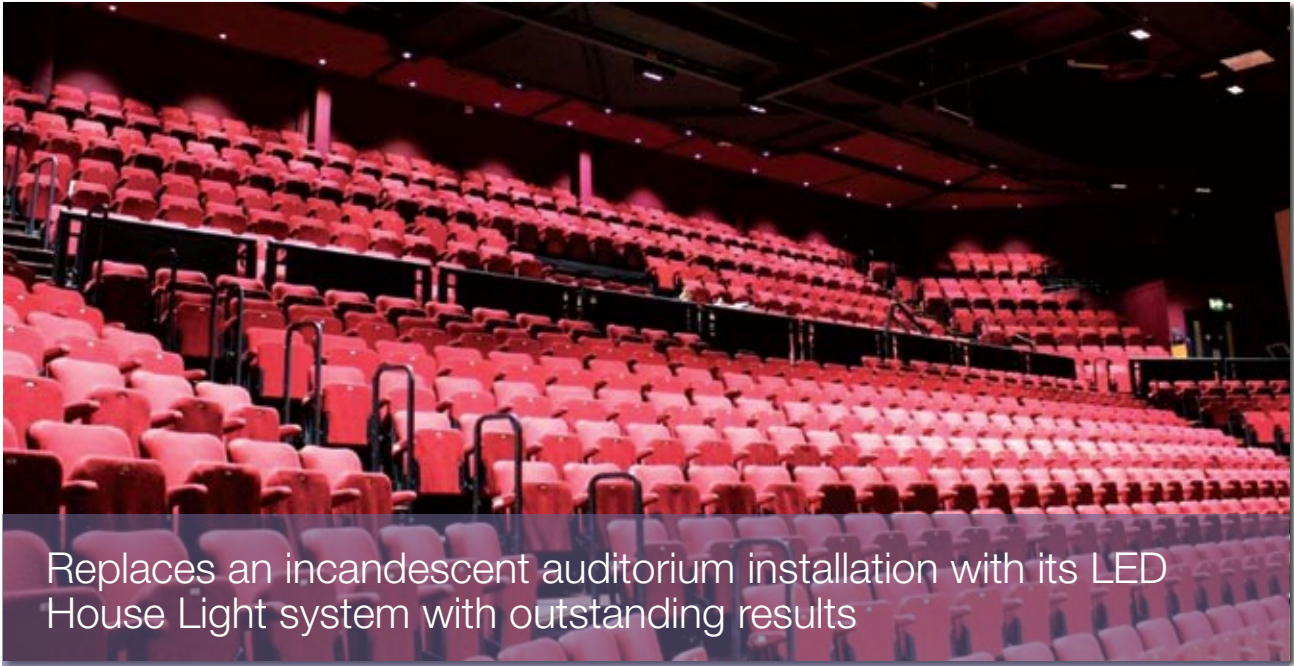


# ArcSystem

**Case Study:** Hall for Cornwall  
**Location:** Truro, Cornwall, UK



**Straight forward thinking**



Replaces an incandescent auditorium installation with its LED House Light system with outstanding results

Introducing a new range of LED auditorium lighting fixtures that are truly dimmable from 0% to 100% using the wireless ARC Mesh protocol for control. This allows you to retrofit the ARC System without the need to rewire your auditorium. The ARC System comes in a range of options for both recessed and surface mount, single cell to multi-cell including 1, 4 and 8 Cells. The optics are available in a range of beam angles including 19deg, 24deg and 37deg. Using high efficiency optics and LED's, GDS ARC System is able to produce a CRI in excess of 92 with a range of colour temperatures.

## Case Study: Hall for Cornwall, Truro

Hall for Cornwall approached GDS with a brief to design a scheme to replace their existing incandescent auditorium lighting system with a new lower energy LED solution without changing the aesthetics of the building or the overall effect of the existing house lights. To achieve this it was necessary to utilise the existing lighting enclosures previously containing a combination of PAR 56 300w fittings for audience lighting and HQI 150w units used for maintenance and cleaning. Using the electronics and optics of the 8 Cell ArcSystem fitting and placing them into a custom housing, GDS were able to re-design the layout

to fit perfectly into the existing brackets. Furthermore, due to the superior light output of ArcSystem, it was only necessary to replace half of the old fittings to maintain the required ambient light level for both audience and maintenance states.

The result was a beautifully warm and even coverage reducing energy consumption over 75% with the obvious financial savings that result from this. With a life expectancy in excess of 50,000 hours, ArcSystem has also eliminated the requirement for lamp replacement and maintenance rounds.

**Simon Crick Head of Operations Hall for Cornwall said** *"From the beginning it was apparent that working with GDS would be a different experience. There is an understanding that all customers needs are not the same as well as a requirement to ensure that the products are specifically tailored to meet our needs. Throughout the process attention to detail has been excellent, including the installation team on site who progressed the project with an extremely positive attitude and high level of workmanship..."*



**ArcSystem 8 Cell**



**ArcSystem 1 Cell**



# ArcSystem

**Case Study:** Hall for Cornwall  
**Location:** Truro, Cornwall, UK

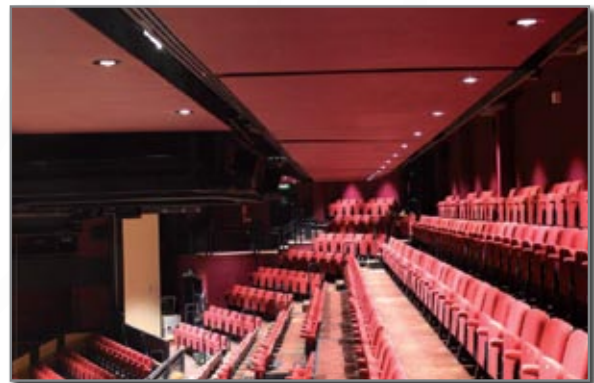
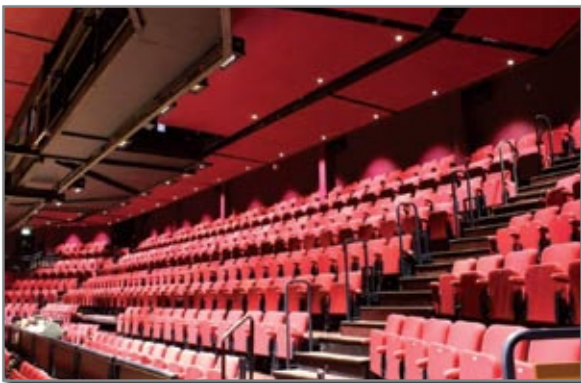


**Straight forward thinking**

...The product itself has surpassed my expectations. Initial scepticism from some of the venue technicians was quickly dispelled as the installation was completed and it became apparent that the new system was more than up to the job. Front of House staff are pleased with the colour temperature and even coverage and the technicians are impressed with the flexibility and dimming. The build quality of the product is outstanding and was clearly developed with ease of installation in mind which meant we were confident that installation would be completed within a planned maintenance week.

Energy reduction was a critical factor for us; we now have a house light system with an energy consumption of 5Kw versus our previous system that required 21Kw. In addition, ArcSystem has delivered brighter and better light output, with greater flexibility into the bargain. We predict annual savings in excess of £8000 when factoring in lower energy usage and zero lamp replacement.

Hall for Cornwall is delighted to be running the worlds first full installation of ArcSystem.



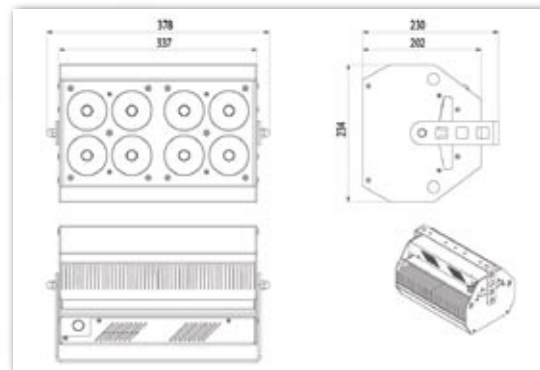
## Technical Information:

19 x 150 Watt GDS 8 cell fittings  
12 x 75 Watt GDS 4 cell fittings  
51 x 20 Watt GDS 1 cell down light  
Custom metalwork to retrofit into existing fittings  
Software written for custom AMX interface  
No addition or modification to the existing wiring  
Integration of light control with existing organ control.

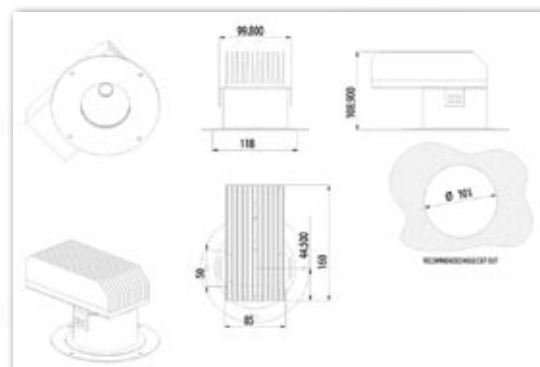
- Low glare reflector system
- 19/24/37/60 beam options
- 8 x 20W generation 3 Bridgelux LED array
- Over 92 CRI
- 10,000 lm output per 8 cell
- 2700/3000/4100K Colour temperature
- 80-230VAC
- Convection cooled
- ARC mesh control protocol
- GDS dimming curve used in conjunction with

### ARCnode for:

- Dimming
- Patching
- Auto recovery
- Minimum light level set
- Group selection recall
- Analogue/DMX/Artnet/Network control
- Webserver configuration
- Fault monitoring
- Temperature monitoring
- Power fail/recovery option set
- 24 preset recall



ArcSystem 8 Cell



ArcSystem 1 Cell