



# MERCURY THEATRE

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Essex

## ABOUT THE CLIENT

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The Mercury Theatre in Colchester, Essex, produces diverse and exciting programmes of unique, insightful and incisive theatre. Although the theatre itself is nearly 50 years old, the foundations of the company began in the 1930s after the formation of the Colchester Repertory Company was established in 1937 by Robert Digby and Beatrice Radley.

In 1968, the Colchester New Theatre Trust was formed to find a potential site for a new theatre and to oversee construction. The Mercury Theatre, designed by Norman Downie, opened on 10th May 1972, after a successful fund-raising campaign, supported by a large grant from the Borough Council.

The Mercury is described as 'an artistic powerhouse in the East' – a vital, vibrant, welcoming centre of culture for the people of Colchester, Essex and beyond. The theatre takes its name from the Roman messenger god, Mercury, whose job it was to connect people.

From the initial concept and designs back in 2016, together with its partners Colchester Borough Council and Colchester Borough Homes, the theatre has made every effort to ensure that its building is as environmentally friendly as possible. The theatre is also committed to working in partnership with Colchester Borough Council to implement its Climate Emergency Action

Plan (January 2020) and help to build on its successes to ensure that Colchester leads the way in environmental standards for residents and visitors alike.

Its policy is to maintain a working environment that, where reasonably possible, strives to promote energy efficiency, recycling of waste materials and the use of recycled products in the pursuit of creating an economic, efficient and environmentally friendly workplace. It will strive to not only comply with all relevant environmental legislation, regulations and requirements but where it can exceed these requirements.

Dextra played its part in that journey by working with its customer CES – Colchester Electrical Services, and consultant Stephen Watts to design and supply lighting for the theatre's redevelopment and refurbishment programme driven by its Environmental Programme. This included the refurbishment of the existing building as well as a new extension.



## THE SOLUTION

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The Modled office helped deliver the requirement for an office-compliant product in the first-floor offices of the building, with 31 standard and 13 AT3 supplied. The Modled office has been designed specifically for applications where monitors are used in areas such as classrooms and offices. By using a central microprism optic with high transmission opal diffuser surround the Modled Office is designed to comply with the latest BSEN 12464 glare requirements for both the 3000 candelas per metre squared limit above 65 degrees and UGR19.

In the basement and plantroom an IP65, anti-corrosive, sensor product was required with the Eco Impervia LED the ideal choice in these locations. The R25E and R25C sensors were supplied, with 22 standard Eco Impervia's and 27 AT3's. The Eco Impervia range offers a wide range of lumen outputs, diffuser choices and sensor controls to allow this product to be specified in multiple applications.

Outside the exit doors there was a need for an autotest emergency product that was also cost effective and delivered high performance. The AME LED was chosen for this use and 9 AT3 versions were installed. The AME is a IP65 LED Self-Contained Polycarbonate bulkhead, with a robust polycarbonate body and lens and electronic control gear.

Alongside this, 9 AT3 EXI's were used as an emergency exit signs and 33 HBE LED's-acting as suspended emergency exit signs.

To get over the problem of the shallow ceiling void's in the front of house corridors, 19 standard and 13 AT3 BTEC LEDs were supplied with the Osram DALI remote sensor. The BTEC Downlight is ideal for customers who need a premium quality downlight with high quality LEDs and drivers as well as excellent efficiency for a rapid return on investment. With a spun aluminium housing and injection moulded cable retention, the BTEC Downlight provides a seamless single piece white aluminium reflector and bezel.

In the basement office and control-room corridor the need for a basic but effective industrial-type product was met by the installation of 7 standard and 5 AT3 Ecopak LED's. The Ecopak range of battens has offered quick and simple replacement of existing luminaires with energy efficient sources for many years and has enjoyed a great deal of success with several of Dextra's blue-chip clients. The Ecopak LED brings these same benefits combined with the increased energy efficiency and low maintenance of an LED source giving even greater return on investment.

Elsewhere in the box office, 2 Graduate LED's were supplied to help meet the need for a linear, office compliant surface product. Further to this, the Coldbay was installed in the Stage Dock following a requirement for a high-level, sensor product. Supplied with the R11AW sensor and autotest emergency versions, 2 of these were used on the project.

In the Auditorium, a standalone emergency product was needed where specialised stage lighting was used. The LED4S was ideal for this and 10 of these were installed. The LED4S incorporates a Lithium Iron Phosphate battery, giving greatly extended lifetime over traditional Nickel Cadmium and Nickel Metal Hydride products.



## THE SOLUTION

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In the theatre's meeting rooms, 11 standard and 3 AT3 versions of the Rubix Surface were used to enhance the area while also being an office compliant, sensed product. The Rubix Surface brings a new level of style and functionality to the market. Nine individual cells with precise optical control allow for spacings up to 3x3 meters whilst still maintaining 400 lux on the working plane at typical ceiling heights and also providing compliance with UGR 19 in most room sizes and meeting the 3000 candela BSEN 12464 requirement.

In the front of house bar, there was a need for a product that would fit between the slats on a slatted style ceiling. The Runway Surface/Suspended was the solution to this, and 42 with black bodies were installed with the Osram DALI remote sensor.

2 of Dextra's Tanek products were installed in the tank room because of their IK ratings. With efficiencies up to 128 l/m/w, the Tanek range of luminaires is designed for use in areas where there is a high risk of vandalism.

The front of house corridors were lit with the Volito luminaire, with 22 standard and 11 AT3's installed. The Volito has been designed to ensure that visual effect does not compromise performance, efficiency and flexibility. Circular or rectangular versions and a range of colour temperature options further enhance the flexibility of this luminaire.

The Dexled Surface was surface-mounted in the theatre wardrobe area, with 7 standard and 3 E3 versions supplied. The Dexled Surface LED luminaire combines a traditional louvre design with the latest high transmission optic materials allowing us to offer a highly flexible product that can be manufactured in a wide range of body sizes.

To support requirements for an IP rated product in the showers, 5 Amenity Decorative LED IP65's were installed. This product offers the decorative and aesthetic benefits of Dextra's Amenity Decorative range with a tough IP65 housing for applications with a risk of water and dust ingress. In the front of house toilets, the Runway Wall was used to help support the need for a wall-mounted fitting above a mirror in a limited space, with 11 supplied for this purpose.

Also used on the project was the popular Modled Slim for the dressing rooms, the Modled Surface/Suspended in the dressing rooms, wardrobe store and studio and the Elisian in the front of house corridors leading to the bar to solve an issue with a shallow void. The Elisian was supplied with 6 different sensors. With a shallow housing of just 65mm the Elisian is ideal for restricted void spaces whilst the four retractable sprung steel brackets allow it to be installed quickly and simply into plasterboard, mineral fibre and metal pan ceiling tiles.



## FEATURED PRODUCTS

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### DISCALO LED

**Overview:** The Discalo LED brings a highly efficient and low maintenance luminaire to our amenity range.



### AMENITY DECORATIVE LED

**Overview:** The Amenity Decorative is manufactured from injection moulded polycarbonate with an opal diffuser and comes with a range of optional coloured ring attachments and semi recessing kits.



### AMENITY EXTERIOR – GRILLE

**Overview:** The AMENITY EXTERIOR LED is a highly robust aluminium exterior luminaire with a durable opal polycarbonate diffuser, sealed to IP65.



### AMENITY PLUS LED – SQUARE

**Overview:** The Amenity Plus - Square range is sealed to IP65 allowing for use in external areas such as under canopies or wall mounting, however is equally suited to a range of internal applications such as corridors, stairways, toilets and storage areas.



### ELEMENT LED

**Overview:** The Element LED is suitable for suspended installation in both continuous run and standalone formats and is available in both bi directional and downlight only variants



### MODLED OFFICE

**Overview:** The MODLED Office has been designed specifically for applications where monitors are used in areas such as classrooms and offices.

## FEATURED PRODUCTS

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### AME LED

**Overview:** IP65 LED Self-Contained Polycarbonate bulkhead.



### EXI LED

**Overview:** The EXI LED is a versatile emergency exit sign suitable for a wide variety of installation methods.



### HBE LED

**Overview:** 4w LED self-contained surface 'Hanging Blade' Exit Sign with aluminium body and screen printed legends.



### BTEC

**Overview:** The BTEC Downlight is ideal for customers who need a premium quality downlight with high quality LEDs and drivers as well as excellent efficiency for a rapid return on investment



### ECOPAK LED

**Overview:** The Ecopak LED offers increased energy efficiency and low maintenance of an LED source giving greater return on investment.



### GRADUATE LED

**Overview:** The Graduate LED is a mainstay of the Dextra range and has been extensively used in schools and hospitals nationwide.

## FEATURED PRODUCTS

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### COLDBAY

**Overview:** For industrial freezers and cold storage units the Coldbay provides an ideal lighting solution where energy efficiency and minimum cost of ownership are paramount.



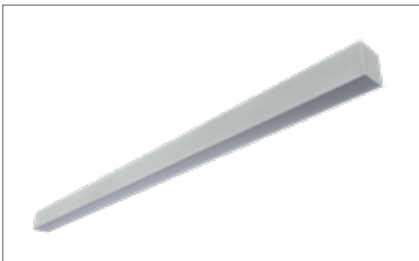
### LED4S

**Overview:** The LED4 Surface compliments our LED4 recessed emergency range with a variant suitable for areas where ceiling voids limitations or solid ceilings make recessed installation impossible.



### RUBIX SURFACE

**Overview:** For premium office applications the Rubix Surface brings a new level of style and functionality to the market.



### RUNWAY SURFACE/ SUSPENDED

**Overview:** A slim line aluminium housing available in three colour options, offering surface mounted and suspended options in either continuous runs or as individual luminaires.



### TANEK

**Overview:** With efficiencies up to 128 l/w, the Tanek range of luminaires is designed for use in areas where there is a high risk of vandalism.



### VOLITO

**Overview:** Combining efficiency and flexibility with a striking aesthetic, the Volito offers the ideal solution to those wishing to create drama and impact in any space.

## FEATURED PRODUCTS

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### DEXLED SURFACE

**Overview:** Combining a traditional louvre design with the latest high transmission optic materials creates a highly flexible product that can be manufactured in numerous body sizes.



### AMENITY DECORATIVE LED IP65

**Overview:** The Dextra Amenity Decorative IP65 offers the decorative and aesthetic benefits of our Amenity Decorative range with a tough IP65 housing for applications with a risk of water and dust ingress.



### MODLED SLIM

**Overview:** The Dextra MODLED Slim luminaire is designed to compliment Dextra's comprehensive fluorescent modular range of luminaires with an LED source providing excellent energy efficiency and low maintenance.



### MODLED OFFICE SURFACE / SUSPENDED

**Overview:** The MODLED Office Surface/ Suspended has been designed specifically for applications where monitors are used in areas such as classrooms and offices.



### ELISIAN

**Overview:** The Elisian is the latest addition to our downlight range bringing a new aesthetic to a classic design