

# 15 MINUTE TRAINING MODULE 002



# ATEN SURFACE LINEAR LED



### What is the Aten?

The Aten is a slimline surface mounted linear LED contemporary styled fitting with an opal diffuser.

It's available in a fixed colour temperature cool white (4000K) version, or as a colour changing option Aten2, allowing users to switch between warm white (2700K), cool white (4000K) and daylight (6000K).

There's also a choice between a 2ft (25W), 4ft (48W) or 5ft (48W) Aten in both versions.

### Features:

- Aluminium body with powder coated finish, UV stabilised to prevent discolouring. PC end caps.
- PMMA opal diffuser
- LED driver included
- LED Type: SMD 2835
- CRI: >80
- Beam angle = 110°
- IP20
- Both models are Non-Dimmable

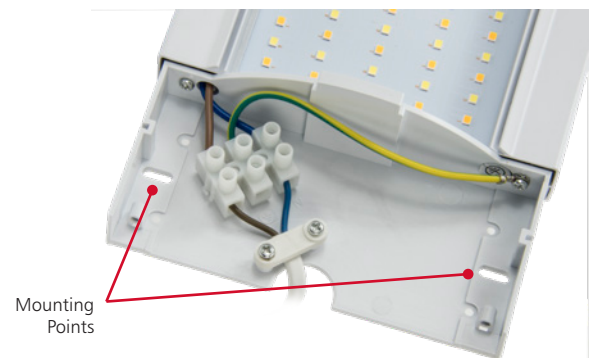


### How is the Aten fitted?

At each end of the fitting there are removable ends caps (each secured by 2 screws), when the installer removes these, there are pre-moulded mounting points exposed that must be used to fasten the fitting to the ceiling or surface.

The installer must never drill the fitting, as the LED printed circuit board runs the whole length of the fixture, and drilling through this would damage the board and cause a short circuit

Drilling will also invalidate the warranty and impair the IP rating.



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### What are the advantages of the Aten fitting?

The Aten has a number of advantages over some of the competition:

1. Shallow profile, ideal for areas with low ceilings
2. UV stabilised to prevent discolouration
3. Screw fixed end caps, prevents tampering of the fitting once installed
4. A central wiring point allows the installer to mount the fitting in the centre of a room (except the 2ft version which is side wired only)
5. High lumen output rating reduces the amount of fittings required in an area, saving purchasing, energy and installation costs



### How is the colour changing achieved?

In order to change the colour temperature of the Aten2, follow these instructions.

With the fitting ON and first lit the colour temperature default is cool white (4000K).

Then simply turn the fitting OFF then ON again within 3 seconds. The Aten2 will then change colour temperature to warm white, repeat OFF then ON again within 3 seconds and the colour will change to daylight.

Repeat this process until the desired colour is achieved. Next turn OFF for 10 seconds or more and the fitting will remember the selected colour when switched back on again.

If one fitting in a group (maximum of 10), is out of synchronisation with the rest of the fittings, there is a switch sequence that allows the user to reset all the fittings back to cool white. This synchronisation correction sequence is switch OFF and pause for 3 seconds then switch fittings back ON before 5 seconds has elapsed.

### Is there an Emergency Aten version?

No, not at present, but other suitable emergency lighting solutions are available from Déluce Lighting.

### Is the Aten classed as energy saving?

Yes, the Aten is LED and will save up to 65% in power consumption, saving money in energy and maintenance.

### Energy savings?

		Total Watts Per Fitting	Kilowatts Consumed	Cost Per kWh	Cost Per Hour	Total Hours Used	Total Cost Per Fitting	Number of Fittings	Cost Per Day	Per Year (365 Days)
<b>Existing Fittings</b>	2 x 58W Surface Modular	142	0.142	£0.12	£0.0170	12	£0.20	100	£20.45	£7,463.52
<b>Proposed Fittings</b>	DLLEDSM1500	48	0.048	£0.12	£0.0058	12	£0.07	100	£6.91	£2,522.88
<b>Proposed Savings Per Year</b>									<b>£4,940.64</b>	
<b>Total Fitting Cost</b>									<b>£5,000.00</b>	
<b>Payback in Years</b>									<b>1.01</b>	

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### What's in the Déluce Lighting LED Aten Range?

Aten  
240V

Product Code	Watts	Description	Colour Temperature	Lumens	No. of LEDS	L	W	H
<b>DLLEDSM600</b>	25W	2ft Single Colour	Cool White	2000	270	594	133	45
<b>DLLEDSM1200</b>	48W	4ft Single Colour	Cool White	4300	540	1194	133	45
<b>DLLEDSM1500</b>	48W	5ft Single Colour	Cool White	4800	700	1494	133	45

Aten 2  
240V

Product Code	Watts	Description	Colour Temperature	No. of LEDS	L	W	H
<b>DLLEDSM600CC</b>	25W	2ft Colour changing	3000, 4000 or 6000	270	594	133	45
<b>DLLEDSM1200CC</b>	48W	4ft Colour changing	3000, 4000 or 6000	540	1194	133	45
<b>DLLEDSM1500CC</b>	48W	5ft Colour changing	3000, 4000 or 6000	700	1494	133	45

#### Lumen Output at 3000K

DLLEDSM600CC = 1900  
DLLEDSM1200CC = 3900  
DLLEDSM1500CC = 4100

#### Lumen Output at 4000K

DLLEDSM600CC = 2200  
DLLEDSM1200CC = 4500  
DLLEDSM1500CC = 4700

#### Lumen Output at 6000K

DLLEDSM600CC = 2100  
DLLEDSM1200CC = 4300  
DLLEDSM1500CC = 4500

### Where can the Aten be used?

The Aten can be used in a wide variety of installations, for example offices, classrooms, reception areas and waiting rooms. As a glass free fitting the Aten is also an ideal solution where food is being prepared or processed.

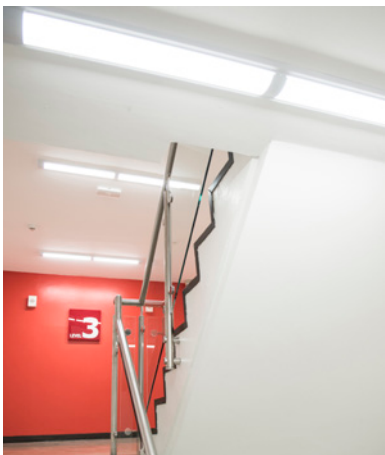
Balfour Court - Preston



Ridgewood School - Doncaster



Frenchgate Centre - Doncaster

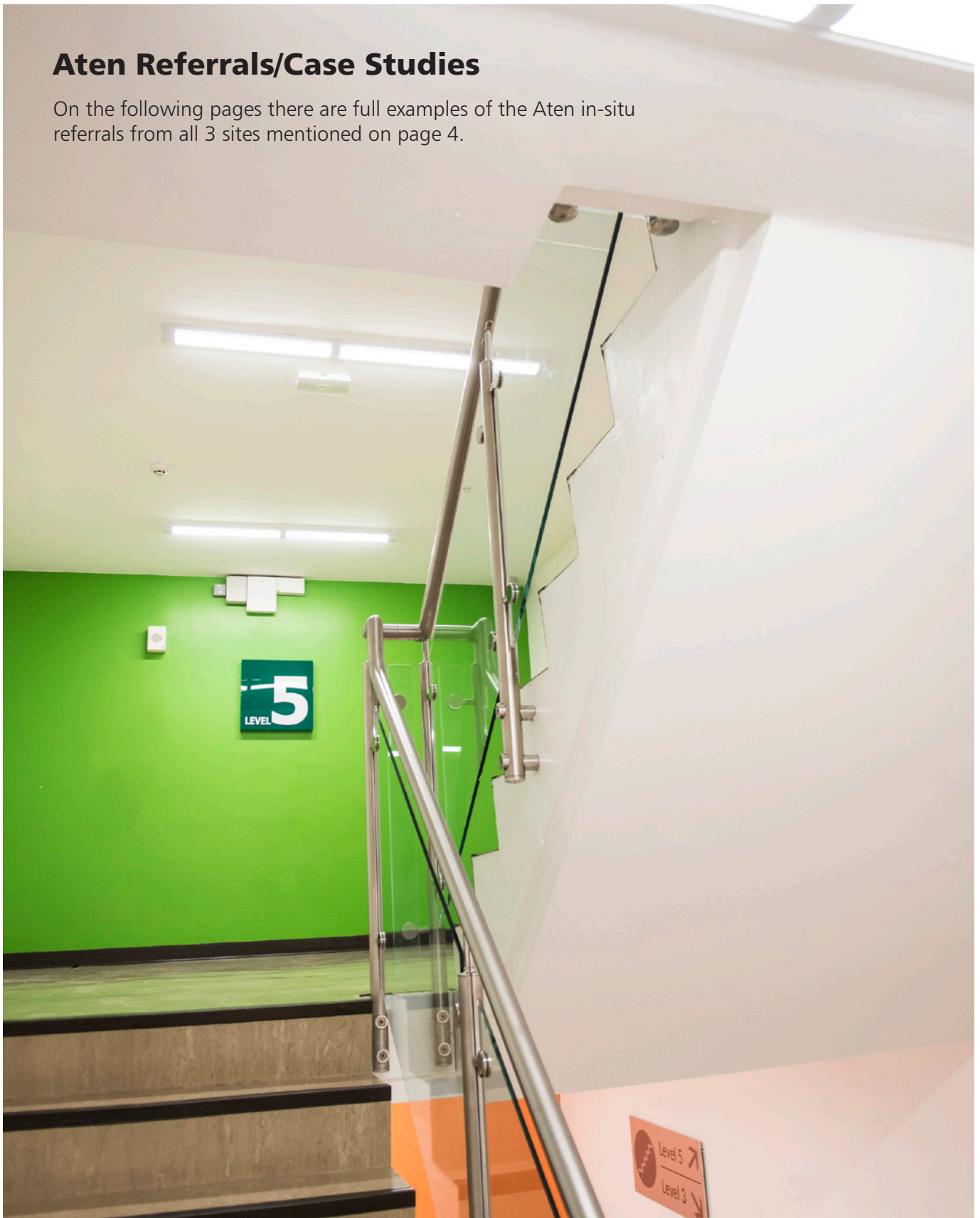


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## Aten Referrals/Case Studies

On the following pages there are full examples of the Aten in-situ referrals from all 3 sites mentioned on page 4.



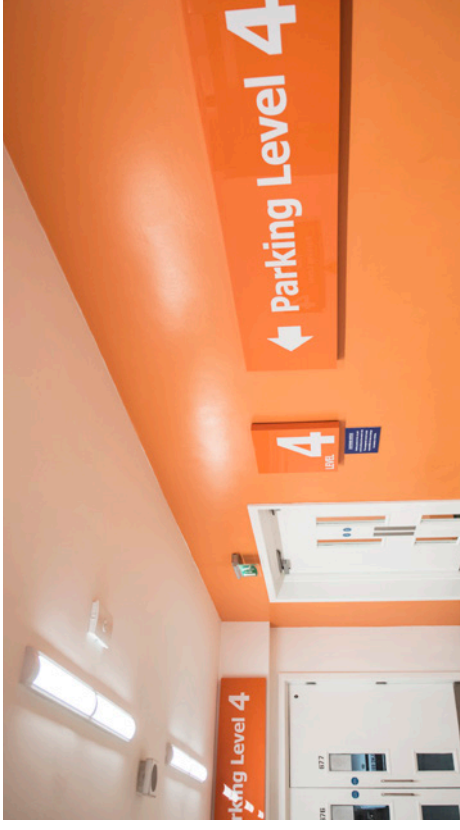
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# THE FRENCHGATE CENTRE - DONCASTER TOWN CENTRE

The Frenchgate Centre in Doncaster has re-furbished the main stairs, entrance areas, landings and toilets to and from their car park. Working together with CEF Doncaster and Déluce Lighting, the Centre wanted the latest LED and contemporary lighting fitted to their colour coded areas and they



chose Déluce Lighting's Aten LED surface mounted linear fixtures. all fittings give excellent savings of up to 60% in energy consumption, saving on running costs and are kind to the environment. The Centre are delighted with the results and the clean precise overall lighting effect.

# CEF Doncaster Branch



Déluce Lighting Products used: DLLEDSM200 & DLLEDSM1200



**Aten Linear LED Luminaire**

Surface mounted linear LED fixture

A light fitting with a simple and practical design, including a Opal diffuser.

A Glass FREE solution, ideal for use in areas where fast installation, ease of maintenance and cleaning are required.

**Features:**

- Housing : Aluminium body with powder coated finish, UV stabilised to prevent discolouring. PC end caps.
- Diffuser : PMMA Opal
- Control Gear : LED Driver included
- LED Type : SMD 2835
- CRI: >80
- Beam angle = 110°
- Choice of 3 sizes : 2, 4 and 5 foot
- Available in cool white and colour temperature changing versions



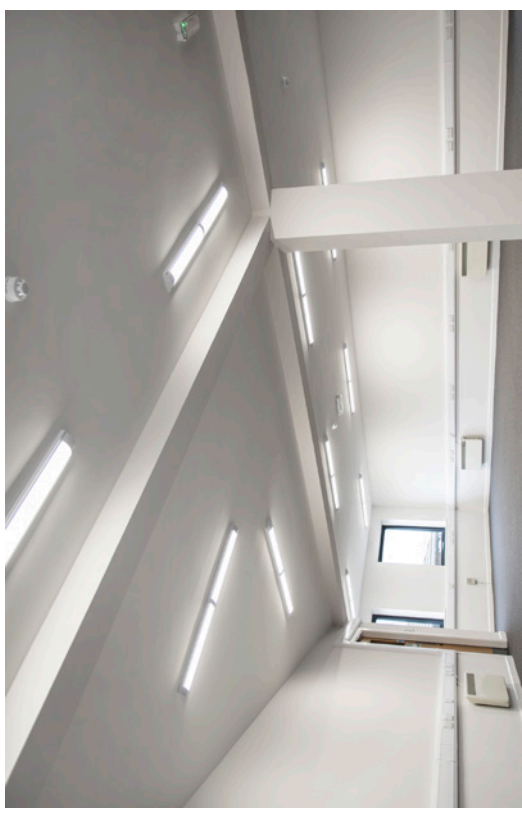


# BALFOUR COURT · JOHN TURNER CONSTRUCTION GROUP · PRESTON

CEF Preston Branch

Balfour Court is the latest office re-fit development by the John Turner Construction Group. Working with CEF Preston and Déluce Lighting, the company wanted the latest LED lighting fitted to the offices. They chose Déluce Lighting's Aten LED surface mounted linear fixtures for the office

areas, all fittings give excellent savings of up to 60% in energy consumption, saving on running costs and are kind to the environment. The company are delighted with the results and the clean precise overall lighting effect.





Déluce Lighting Products used: DLLEDSM1200



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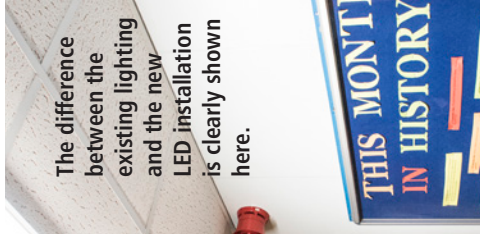
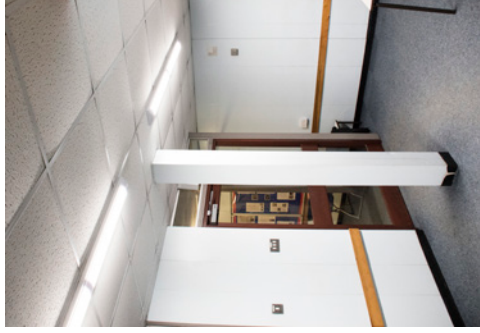
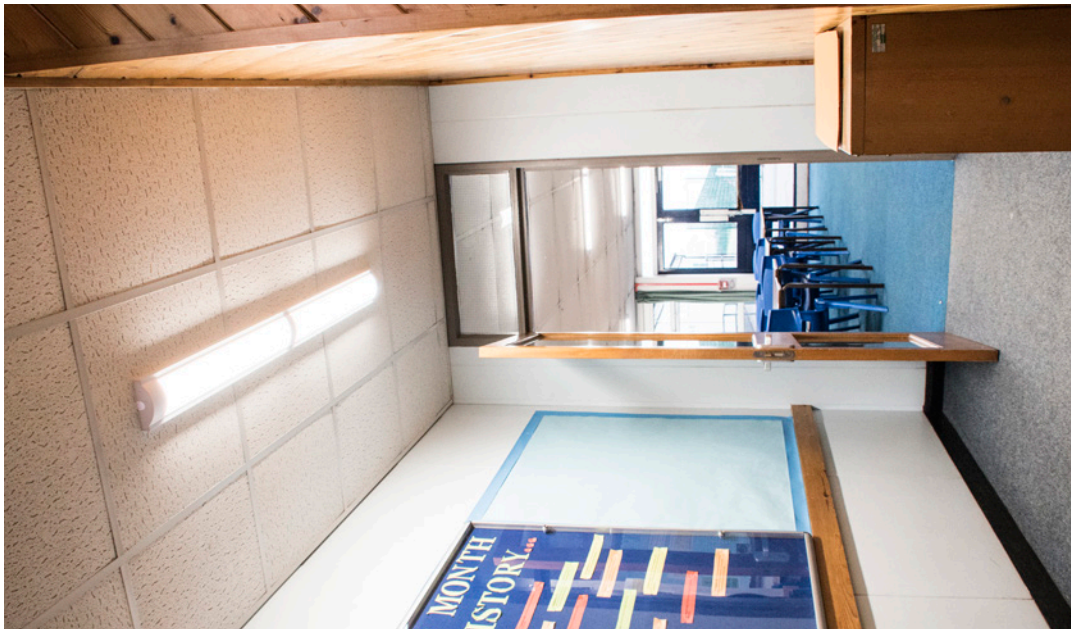


# RIDGEWOOD SCHOOL · DONCASTER

# CEF Doncaster Branch

Ridgewood School are part way through an extensive retro-fit programme to convert to LED, in both classroom and corridor areas. The school is fitting Déluce Lighting's Aten LED surface mounted linear fixtures, giving excellent savings of up to 60% on energy consumption. Working together with CEF and Déluce

Lighting, Ridgewood School has provided lighting that will serve the pupils and teaching staff for years to come; supports a brighter learning environment, saves money and is kind to the environment. As the Headteacher comments on their website, "Nobody at Ridgewood settles for second best".



The difference between the existing lighting and the new LED installation is clearly shown here.





Déluce Lighting Products used: DLLEDSM1200



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- CRI: >80
- Beam angle = 110°
- Choice of 3 sizes : 2, 4 and 5 foot
- Available in Cool White



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### Notes:

A series of horizontal dotted lines for taking notes.



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