



SPORTS PROJECT CASE STUDY

# Mill Hill School

Originally a boys school set in 120 acres (49 ha) of parkland near London, Mill Hill was established in 1807. The founders decided to place it outside London because of ‘the dangers both physical and moral, awaiting youth while passing through the streets of a large, crowded and corrupt city’.

Thanks to the botanical background of some of its founders many rare, exotic, and protected plants still flourish at the school.

Mill Hill’s alumni include:

- Patrick Troughton – the actor, most known for being the BBC’s 2nd Doctor Who.
- Sir Norman Hartnell – fashion designer for Her Majesty Queen Elizabeth II.
- Tanika Gupta – the renowned playwright.
- Francis Crick – who, with James Watson, identified the double-helix structure of DNA.

Mill Hill became fully co-ed in 1997.

## The challenge:

Mill Hill’s hockey pitch needed resurfacing. The school decided to also take this as an opportunity to upgrade the pitch’s old metal halide 2kW lighting to LEDs to help cut energy and maintenance costs. To help keep the project costs down Mill Hill had already decided that the current lighting masts had to remain. This was partly due to a tree with a protection order on it being near the pitch too.

## At a glance

**Sector:** Sport  
**Customer:** Mill Hill School  
**Project date:** September 2020  
**LED floodlights installed:** 25

**Type:** Modus 1200  
**Lux average values:** 350+  
**Uniformity:** 0.7+



Mill Hill approached several contractors to bid for pitch resurfacing and lighting and we were brought in to quote for the LED lighting aspect. Mill Hill was extremely impressed with our lighting proposal. This was thanks not only to our competitive pricing, but also the improved lighting our solution would provide and the peace of mind our extended warranty gives. So, they wanted us to still handle the lighting upgrade element of the work.

## Our solution

We chose our Modus R1200 luminaire as the perfect solution for the job. The Modus R1200 has been designed specifically for sport, field, and large area lighting. It's a lightweight, extremely versatile product for both retrofit and new builds. It's also perfect as a one for one replacement solution for 2kW metal halide floodlights.

For a pitch of this size, with four masts already in place, we'd usually use 24 of our Modus R1200 luminaires. To provide the uniformity needed in this case, as a result of the protected tree, we used 25 though. And it worked – of course.

## Technical Data

	BEFORE	AFTER WITH LED
Number of projectors	20	251.2kW
Nominal power for single appliance	2kW	1.2kW
Total power absorbed	N/A	30kK
Colour temperature	>4000K	500k 500+ PPA and 400+ TPA
Colour rendering index	>60	
Average light level	-	0.7+ PPA and 0.6+ TPA
Uniformity	~0.7	