









## CASE STUDY: BOWMAN CHILLED STORES

**Bowman Chilled Stores, Spalding - Cold stores and warehouse light levels increased while reducing annual running costs by 70%**

	Before	After	Benefit
<b>Light Levels</b> <small>(average)</small>	 <b>200 lux</b>	 <b>500 lux</b>	<b>2.5x</b> Better quality light and more even distribution
<b>Energy Usage</b> <small>(per year)</small>	 <b>415,135 kWh</b>	 <b>122,653 kWh</b>	<b>70% Saving</b> 292,482 kWh reduction
<b>Running Costs</b> <small>(per year)</small>	<b>£</b> <b>£42,235</b>	<b>£</b> <b>£12,478</b>	<b>70% Saving</b> £29,757 annual savings
<b>Carbon Footprint</b>	 <b>184,900 kg</b>	 <b>54,600 kg</b>	<b>70% Saving</b> 130,300 kg reduction



**PULSAR LIGHT**

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 VERSION 1.0

# BOWMAN CHILLED STORES

## Project Details

Bowman Chilled Stores in Spalding is a family run business which has been established for over 50 years. Over the years Mr & Mrs Bowman had a strong influence in large scale horticulture ranging from daffodils and vegetables to cereals.

Mr Bowman decided to stop production and to convert existing buildings to refrigerated storage. This included the licence to store meat, fish and dairy produce. He decided to refurbish to industry leading standards to provide excellent services to his customers.

The short lifespan of the existing 100 Metal Halide fittings were costing £1,200 a year to maintain and led to reduced light levels and production stoppages when light servicing and replacement were taking place. Pulsar’s maintenance free LED lighting upgrade eradicated all of these issues and their associated costs.

After visiting the site and preparing extensive light calculations, Pulsar Light created a scheme with the UniBay130 that dramatically reduced the running cost of the chilled storage units, and significantly improving on the existing light levels.

The final scheme consisted of 104 x UniBay130W fittings with 80 CRI at 5000K including G90 glare control optics. Our UniBay130 has multiple fixing options; Bowman’s chose our low profile bracket (F003), enabling them to fit all UniBay fittings flush to the ceiling, allowing more space for fork lift trucks as well as creating a more even light distribution.

Pulsar’s lights reduced energy consumption by 70% and delivered a saving of £29,757 per year.

In addition to paying less in electric bills, the improved light level readings were measured at over 500 Lux, creating a superb working environment, as Quality of light is a critical in storage areas dealing with fresh produce.

Asked why they chose Pulsar; Bowman stated they had been contacted by many suppliers of LED lighting. They chose Pulsar because of the superior product and greater range of options. They also preferred Pulsar’s approach, which respected their time scale and we listened to their requirements.

“We couldn’t have been happier with the final outcome which exceeded our expectations”.

## About Pulsar Light

Pulsar’s EcoRange provides high power, high efficiency white LED lighting backed with Pulsar’s commitment to quality, reliability, and durability.

Pulsar Light of Cambridge manufactures a wide range of colour controlled LED lighting for large-scale international Architectural Projects, Television Shows, Live Performances, Hotels, and many other applications.

Our factory and offices are located in Cambridge, England, where we have been manufacturing lighting for 45 years. If you would like to learn more about Pulsar Light’s products and how they can benefit you, or visit our showroom, please arrange a time with our sales team by calling our office number on +44 (0) 1223 403 500.

