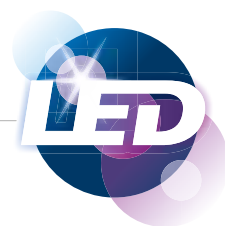




Functionality meets design

Design flair and efficiency with GentleSpace gen2



PHILIPS

Assured performance. Stylish design.



GentleSpace luminaires took high-bay lighting to a new level.

Warehouse owners were able to incorporate LED solutions which had lower energy consumption, less maintenance and robust design.

Today comes GentleSpace gen2 – the next generation of Philips technology, available as a single 13,000 lumen model or a double 17,000 or 25,000 option. It's not only a product which provides assured performance, but also one that fits stylishly into your building design plans.

Although highly robust, its smoother profile, curved edges and clean, uncluttered surface give GentleSpace gen2 an attractive appearance.

It's an ideal choice if you want to bring down your carbon footprint in a large building. It helps save cost too. And through lifetime lumen management, you can ensure a Constant Light Output, meaning a uniform light level between maintenance cycles and up to an additional 10% saving in energy.

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inconvenience and risk

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Specification



Manchester Airport, UK



LED technology delivers up to 50% energy reduction over conventional lighting. It lasts longer and remains maintenance-free for six times as long as traditional lights.

Thanks to clever thermal design, GentleSpace gen2 lasts longer still. There's no need any more to choose between lifetime and lumen output. In fact, the luminaire lasts for 70,000 hours, whatever the ambient temperature. The product is versatile enough to operate at a range of -30°C to 45°C.

With a longer lifetime comes lower maintenance costs. You'll start seeing significant savings year-on-year when fewer lights need replacing. And, of course, you'll avoid the inconvenience and disruption that comes from conducting maintenance in a high-bay environment.

The option of a cleverly designed shatter-proof cover means you can keep risk of breakage to an absolute minimum. And as LED solutions don't contain glass, the product is very safe. In fact, it's even suitable for food environments and pharmaceutical clean rooms.

PPS Detva, Slovakia

ExCeL London, UK



Reducing cost, inconvenience and risk.

In a high-bay environment, good lighting is absolutely essential. Not just for safety, but also for the comfort of those benefiting from the lighting who need to avoid straining their eyes. But there are business pressures too. You want to minimize the downtime and disruption that comes from fixing or replacing lights.



Award-winning design sets this luminaire apart.

GentleSpace gen2 has a simple, smooth and stylish appearance. A winner of a prestigious iF Product Design Award, the iconic, integrated new luminaire looks contemporary and attractive in either white or gray.

Crucially, we have created GentleSpace gen2 with all the latest trends in architectural lighting firmly in mind. This means that it is just as well suited for a sports hall, atrium or airport concourse as it is for a warehouse.

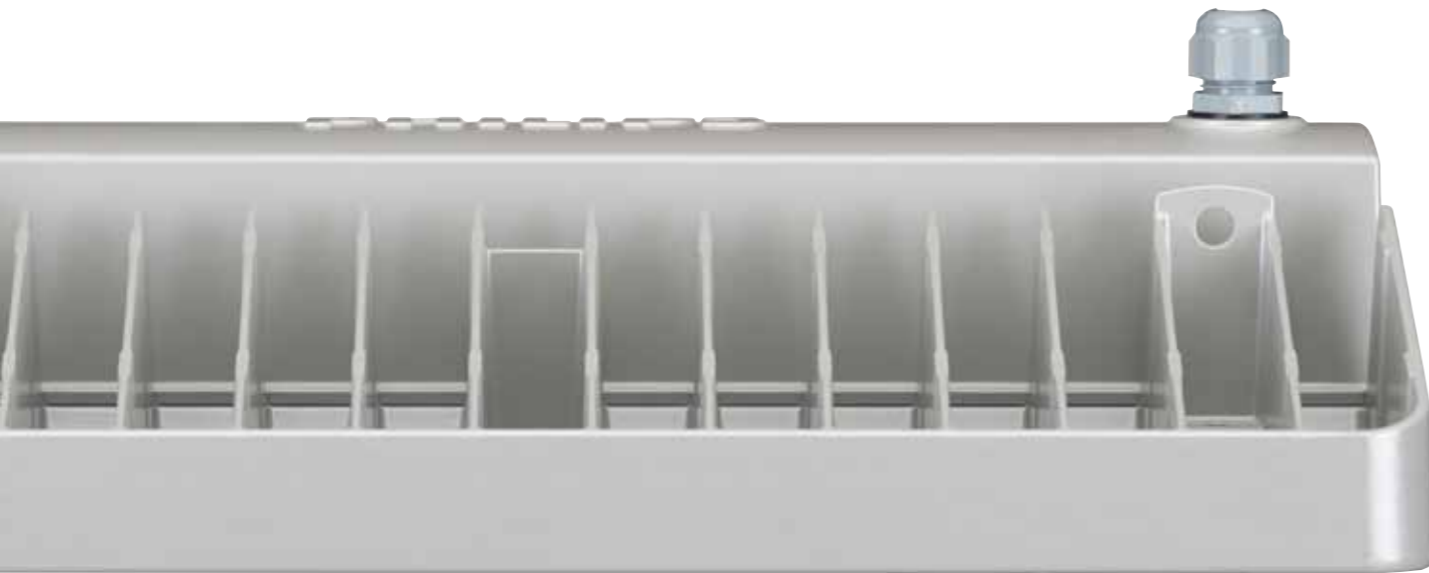
The luminaire has lost none of its functionality, however. It has a robust, monoblock design, is easy to clean and features optimal airflow, which allows the light to be generated at the lowest possible power.

Mat Bembridge, Design Consultant at Philips Lighting on the development of gen2:

"The design of GentleSpace gen2 was developed with one clear goal; to push LED technology to the very limits of what's possible and package it in a way that it brings these benefits to the broadest range of large open spaces. The iconic wedge shaped design was derived from placing the functional elements, such as electronics and cooling, in an order that made the product both compact and visually balanced. Its design language runs consistently throughout its mounting and intelligent communication add-on modules."



A top performer in any environment.



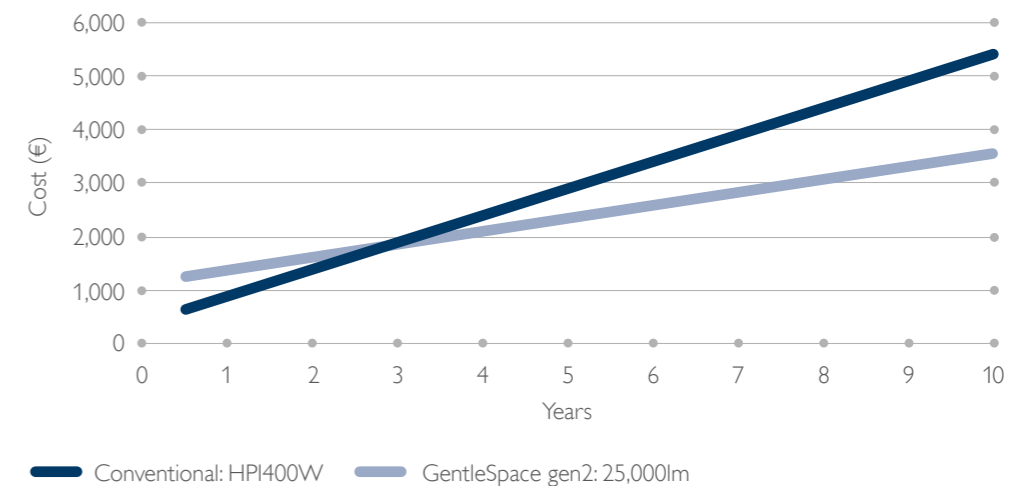
GentleSpace gen2 is quite simply the best in its class for energy efficiency, which is welcome news when cost reductions are high on your agenda and the environmental footprint of your organization is under constant scrutiny.

LED has become increasingly efficient over the years. A quarter of a century ago, it would have taken 430W to generate 24,000 lumen output, whereas today, 234W is sufficient. And GentleSpace gen2 is designed to meet all the very latest lighting regulations too. Its lack of lens glare makes it gentle and comfortable on the eye, while its light distribution is uniform, allowing you to achieve a consistency of illumination.

This new product is HACCP compliant, which means that you can use GentleSpace gen2 in an environment in which food is being prepared or stored.

Total cost of ownership GentleSpace gen2 versus traditional High Bay 400W

Based on 12 cents/kWh and 24/7 use. Overall saving €1,662 over lifetime if you invest in GentleSpace gen2.





Sigron Warehouse, Vienna, Austria

Single
13,000lm



Double
17,000lm
or 25,000lm



Coca-cola factory, Russia

As LEDs are digital technology, you can have complete control over the amount of power you use. It's possible to adjust their brightness to reflect the ambient light outside, for instance, or even dim the lights when presence detectors tell you that a particular area is empty.

There are two obvious beneficiaries: the environment and your bottom line.

GentleSpace gen2 technology complies with BREEAM and LEED – the leading environmental assessment ratings for buildings. And by switching off or turning down lights automatically when there's no need for them, you're assured of significant energy and cost savings. It's a process that can be enhanced through the use of Philips controls and presence detection technology – which registers automatically whether an area is occupied. The 'instant on' nature of LED technology means there's no delay in reaching 100% lighting strength.

With GentleSpace gen2, you even have a choice over color (white or gray) and size (single or double). This gives you the flexibility to specify a solution which is exactly right for your work space. And its compact design means that it can be used even in warehouses with sprinkler systems.

Putting you in control – the flexibility of GentleSpace gen2.

GentleSpace gen2 is robust enough to be used in a wide variety of different environments and impressively ergonomic, which makes it easy to install. The Gripple Y-fit hangers and slot-in mounting bracket mean the product is low-cost, easy to assemble and has a compact profile.



Great quality light, from the mall to the pool.

GentleSpace gen2's design values mean that it can be incorporated into many different kinds of building. Of course, just like its predecessor GentleSpace, it's ideal for a warehouse environment, where quality of light is so important for operating machinery such as fork-lifts. But other options are now possible too.



Royal Air Force, UK



Manchester Airport, UK



Saturn, Milano, Italy



El Corte Ingles, Spain



Swimming pool, Turkey

Retail is an obvious example. GentleSpace gen2 can help to enhance the shopping experience of visitors to a large store or mall. It's also well suited to museum, atrium or airport environments.

Its optional anti-corrosive coating means that swimming pools become a possibility. And what about sports halls? The technology has been tested in the most demanding of environments.

Remember, GentleSpace gen2 operates effectively in both hot and cold environments, which means there are more possibilities than ever before.



The perfect pick for the warehouse.

As a luminaire designed specifically with high-bay environments in mind, GentleSpace gen2 is naturally ideal for industrial facilities and warehouses, where good lighting is critical to health and safety.

In fact, lighting in a warehouse space needs to be approached systematically. By combining LEDs and controls in a 'bundle' or package, you can achieve maximum savings and make the whole ordering process simpler.

We strongly recommend installing GentleSpace gen2 as a key component of your warehouse system, alongside our other luminaires, Maxos LED and Pacific LED, which can be used for trunking. Not only will you then have the perfect combination of complementary lights, but you can also opt to manage the environment with sensors and controls.

You can purchase the solution as a whole and install and commission it yourself. Alternatively, you can opt for Philips to oversee everything for you.

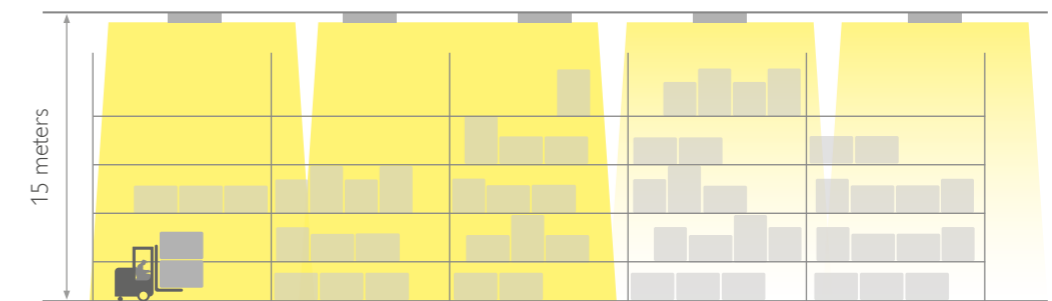
Ongoing maintenance becomes much easier because of the long life of GentleSpace gen2 and its sister luminaires, meaning there are no concerns about access problems or disruption to production.



With presence detection technology, you can group lights into zones, which can be adjusted via a Philips remote control. This creates a lighting environment which is flexible enough to reflect any changes you experience in stock or levels of trading.

There are, of course, cost advantages to selecting this whole warehouse 'system' and intelligent lighting package. And with some of the newer technology available now – including 'connected' lighting, which offers you management information on your stock, staff and energy usage in real time – it's easy to establish systems that are greener and save you money.

Example zone of light

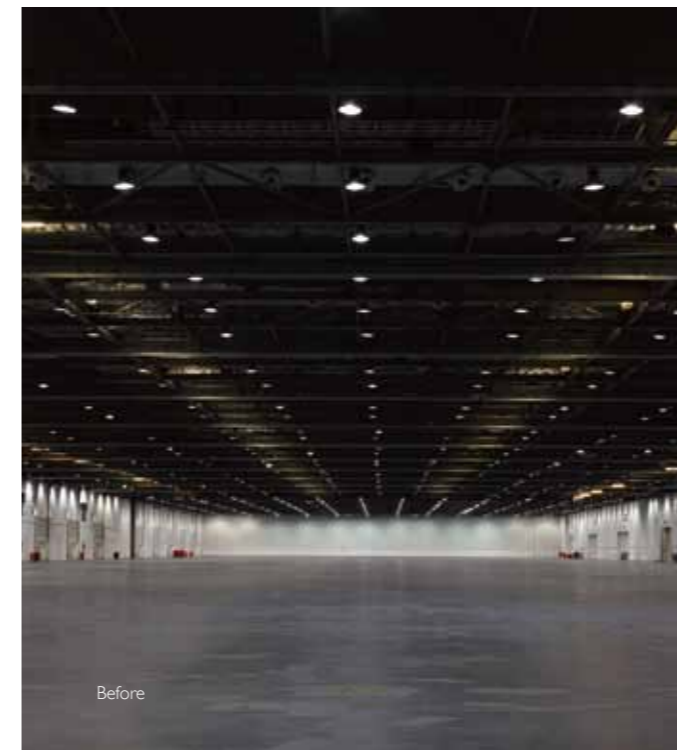


◀ Royal Mail NDC, Daventry, UK ▼ Venco Campus, Eersel, the Netherlands

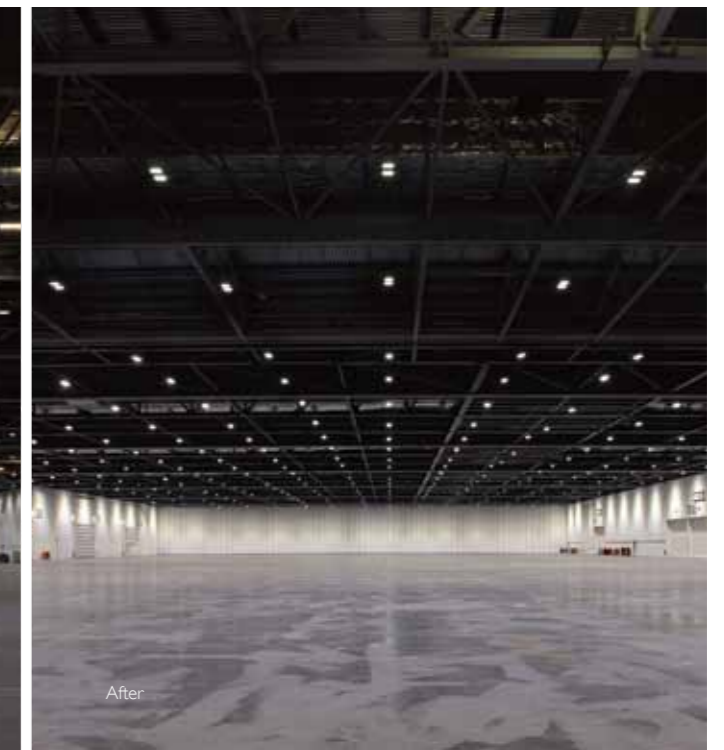


GentleSpace enhances ExCeL London's space.

ExCeL London improved the experience of over 4 million visitors and exhibitors a year, while saving energy and maintenance costs and improving the quality and responsiveness of their lighting system.



Before



After

Situated at the heart of London's Royal Docks, ExCeL London has 100,000m² of exhibition and conference space and accommodates 4.1 million visitors and exhibitors per annum. The venue has 46 sub-dividable halls and hosts a wide range of events that differ considerably in size and lighting requirements. "With the original system we had very limited control of the lighting, so if exhibitors wanted small areas of lighting switched off this could only be done by disconnecting individual luminaires manually," recalled ExCeL's Operations Director Brian Cole. "Given that the luminaires are mounted at a height of 10 meters, this was time-consuming and expensive."

The original lighting, much of which was 13 years old, consisted of 2,045 high-bay luminaires using 400W high-pressure sodium lamps. In a turnkey project delivered by Philips and installers Elite Renewables, these have been replaced with 2,145 GentleSpace 138W LED luminaires, reducing the installed electrical load by over 60%.

The GentleSpace luminaires are controlled through a DALI (Digital Addressable Lighting Interface) control system, enabling individual luminaires to be dimmed or switched off from a central PC or by using a hand-held tablet device while in the halls. "The control system is very easy for our staff to use and has already paid dividends for event organizers," comments Brian Cole. Combined energy and maintenance savings are expected to provide a return on investment within three years.

By upgrading to Philips GentleSpace high-bay LED luminaires, ExCeL London has reduced its carbon emissions significantly and is certified to both the ISO 14001 environmental standard and ISO 20121, which sets sustainability management standards in the events industry.

"The new luminaires are individually addressable so we now have the flexibility to address clients' lighting requirements very precisely, while the improved lighting greatly enhances the experience for visitors and exhibitors alike."

Brian Cole, Operations Director, ExCeL

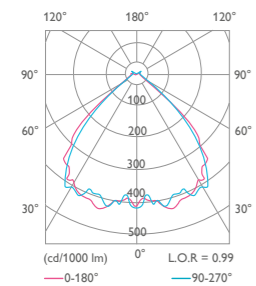
Specification.

The transition to GentleSpace gen2 allows you to take advantage of trusted Philips technology. You'll not only benefit from award-winning design, but also high energy efficiency. Here are the technical specifications of the new luminaire:

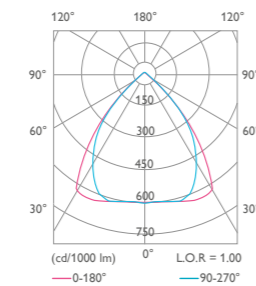


	GentleSpace gen2 single		GentleSpace gen2 double	
Type	BY470P		BY471P	BY471P
Light source	LED			
Power	119 W		158 W	234 W
Luminous flux ¹	13,000 lm		17,000 lm	25,000 lm
Correlated color temperature ²	4000 K			
Color rendering index	>80			
Maintenance of lumen output – L70F50	70,000 hrs			
Operating temperature range ³	-30°C up to +45°C			
Mains voltage	230V			
Dimming	DALI (standard)			
Options	PC or AC cover for HACCP Swimming pool protected coating Mounting bracket			
Color	Gray or white; other colors on request			
Optic	Narrow / medium / wide beam / high rack optics			
Connection	External IP65 RST20i-5 connector			
Installation	Y-grip			

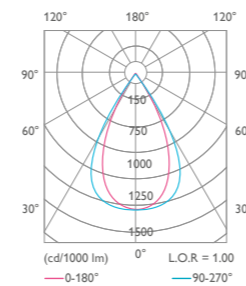
- Wide Beam**
- Wide delta-shaped
 - 2° 46 degrees
 - Rotational symmetric



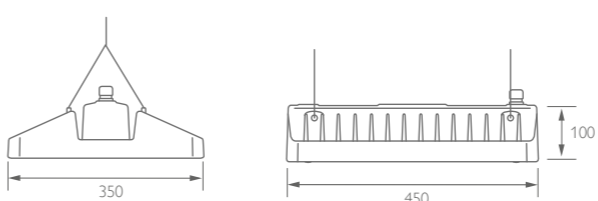
- Medium Beam**
- Medium delta-shaped
 - 2° 40 degrees
 - Rotational symmetric



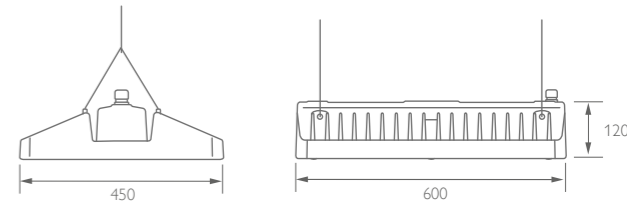
- High Rack Optic**
- Narrow Wide
 - 2° 16-48 degrees
 - Quadrant symmetric



GentleSpace gen2 **single**



GentleSpace gen2 **double**



Remarks:

¹ Equivalents for HPI 250W / HPI 400W / HPI 400W

² Optional 3000 K and 6500 K

³ Lifetime and lumen flux is valid throughout operating temperature range



For more information visit

www.philips.com/industry



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