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Optimal performance for demanding environments

For industry and parking areas, a top-class lighting system that ticks all the right boxes is essential. With potential stresses like humidity, extreme temperatures, electrical sparks and chemical fumes, a robust solution is vital. It should also provide the right lighting at the right moment, to support the carrying out of your operations safely. Then there are the financial considerations. It should be easy to install and maintain, harness energy efficiencies, and offer an attractive TCO. All while meeting the greenest of environmental targets.

Meet the 5th generation of Pacific LED. A solution that's designed for optimal performance in the most demanding environments. With optional integration into Interact connected lighting system, enabling light management solutions, Pacific LED can provide even greater energy savings, enhance safety and productivity. Making it future proof in every way.





Lifetime of up to 100,000 hours (L80)

> High uniformity, glare control and smooth light distribution

6 reasons why Pacific LED gen5 is the right choice



It can be used in even the most demanding areas of your building

Pacific LED gen5 is suitable for a wide range of (heavy) industrial applications. The luminaires have a robust and compact product architecture, with high water and dust protection (IP66), combined with a high degree of mechanical protection (IK08). Making it a choice you can trust even in challenging conditions.



It connects to the cloud to optimise maintenance and energy savings

Pacific LED gen5 is connectable and allows for system integration with Interact Industry. This opens up additional opportunities for optimised efficiency, energy savings, improved light management, productivity, and safety.



It creates a safe and healthy working environment

Pacific LED gen5 luminaires offer high uniformity, glare control and smooth light distributions. The portfolio offers an extensive lumen output (up to 15,000 lumen) and optics choice, combined with high quality chemical-resistant materials. Ensuring you have the right light, exactly where you want it.



It saves on energy and maintenance costs

The portfolio is proven to be highly energy efficient and offers luminaires with a long lifetime: up to 160 lm/W and lifetime up to 100,000 hours L80. This, combined with hassle-free installation and maintenance, ensures you enjoy an attractive TCO.



Easy to install and maintain

Installation is quick, easy and offers flexibility in terms of the number of installation and connector choices. What's more, the modular approach and access to Signify Service tag app, makes it easy to service and replace parts, which reduces maintenance costs.



Designed for the circular economy

Pacific LED gen5 is the best environmental choice. Not only does it offer a long and reliable lifetime with high efficacy, it is also designed for complete serviceability and future upgradability, taking into account connected system integration.

Manufacturing

Food and pharmaceutical

In industrial production halls, operating conditions demand the most robust luminaires. Not only must they meet the industry norms for visual conditions in specific sectors, they must also comply with the maximum standards for hygiene.

Chemicals and heavy industry

Tough conditions demand tough solutions. Pacific LED gen5 meets every lighting challenge from high failure safety to maximum clarity and comfort. It's also designed to withstand the worst that heavy industry can throw at it, from selectrical parks and dust to oily vapors.

Parts production and assembly halls

Optimal lighting is essential for a satisfied and productive workforce. Minimize mistakes and increase production quality by applying quality lighting at the right levels and uniformity.



- New, more robust design and materials tested against chemical resistance. > See more
- High protection against water, dust (IP66)
- High protection against mechanical impact (IK08)
- Compact architecture, no loose parts to interrupt production processes



- Highly energy efficient (<160 lm/W)
- Very long, reliable lifetime up to 100,000 hours maintaining minimum 80% of the light output
- Optimised optics for reduction of total installed power and further cost optimisation



Miniaturized, simpler, and fully serviceable design. High energy efficiency and long lifetime, makes it an ideal environmental choice.

Read more on our

> Circular economy approach



- Smooth and colour consistent light distributions
- New lumen packages (>8,000 lumen) and new length (1.8m) open up a broader application
- UGR19 options for workplaces where quality control, inspection or precise work is required
- Low flicker and stroboscopic effect value for good working comfort



- Flexibility of connection choices
- Fully serviceable parts, simple access to data via our online service database Signify Service tag via QR code on the luminiare. Replacement of parts instead of a complete luminaire
- Installation, maintenance and replacing parts is a straightforward task



Additional control system and intelligent lighting solutions enable further optimization of costs, operation and productivity.

Read more about

) Interact

Lighting application guidance

Pacific LED gen5

Manufacturing

Open Spaces

Logistics, production and food processing

The new Wide Beam (WB) optic can fulfill all lighting requirements set out in the new EN12464-1: 2021*. New high output versions (>8,000 lumen) enable a significant (up to 44%) reduction of luminaires and an improved energy efficacy up to 10% due to a higher lm/W value**.

It features R_{ugi} 19 versions, which can provide a higher comfort to the eye and can be installed in workplaces where quality control, inspection or precise work is required.

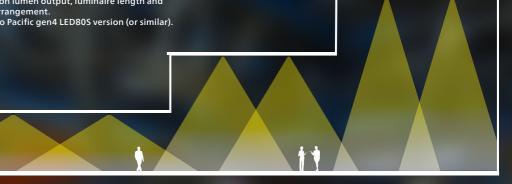
Shorter length 1200mm, replacing old length 1300 and 1600mm, provides comparable light effect, while delivering more energy savings.

* Depending on lumen output, luminaire length and

** Compared to Pacific gen4 LED80S version (or similar).

| Recommended | | Installation height luminaires (m) | | | | | |
|------------------|-------------------------|------------------------------------|-----------|--------|--|--|--|
| | optics in en spaces* | <4 | 4 - 9 | >9 | | | |
| (X) | 750 | WB | WB/NB-HRO | NB-HRO | | | |
| nce (I | 500 | VWB | WB/NB-HRO | NB-HRO | | | |
| lluminance (lux) | 300 | VWB | WB | NB-HRO | | | |
| 3 | 200 | VWB | WB | NB-HRO | | | |

^{*} Depending on space dimensions



Warehouses

Top-quality lighting can make the difference between quickly finding a stored item, or wasting time trying to find objects in dark corners. Sufficient lighting at floor level (≥150 lux), combined with properly illuminated storage rack faces (≥75 lux), can significantly improve logistics operations. The importance of productivity is increasing, while optimal operation remains the key attention point. Pacific LED gen5 provides solution for those requirements:



- High protection against water, dust (IP66)
- High protection against mechanical impact (IK08)



- Highly energy efficient (<160 lm/W)
- Very long, reliable lifetime up to 100,000 hours maintaining minimum 80% of the light output
- Optimized optics for reduction of total installed power and further cost optimization



Miniaturized, simpler, and fully serviceable design. High energy efficiency and long lifetime, makes it

Read more on our • Circular economy approach

an ideal environmental choice.



- New lumen packages (>8,000 lumen) open up a broader application opportunities, especially where higher degree of protection is required
- The optimised optics meet new EU-lighting norms for both floor and aisles (NB-HRO) and supports productivity and safety of workers



- Flexibility of connection choices
- Fully serviceable parts, simple access to data via our online service database Signify Service tag via QR code on the luminiare. Replacement of parts instead of a complete luminaire
- Installation, maintenance and replacing parts is a straightforward task



Additional control system and intelligent lighting solutions, enable further optimisation of safety for workers, productivity, cost, and operation.

Read more about) Interact

Lighting application guidance

Industry lighting

Pacific LED gen5

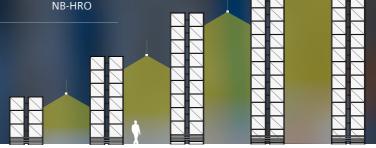
Warehouse aisles

Rack storage

| Reco | ommended | Installation heigh | nt luminaires (m) |
|------------------|------------------------|--------------------|-------------------|
| | optics in rehouses* | <6 | >6 |
| (Iux) | 300 | WB | NB-HRO |
| lluminance (lux) | 200 | WB | NB-HRO |
| E 5 | 150 | WB | NB-HRO |

* Depending on space dimensions

The new Narrow Beam High Rack Optic (NB-HRO), especially designed for warehouse aisles, fulfils all lighting requirements set out in new European norm EN12464-1: 2021. For aisles with an installation height <6m a Wide Beam (WB) optic is recommended.



Recommended

optics in

open spaces

750

Narrow Beam (NB-HRO)

Installation height luminaires (m)

4 - 9

WB/NB-HRO NB-HRO

NB-HRO

NB-HRO

Open spaces

Logistics, production and food processing

The new Wide Beam (WB) optic is designed for open spaces, especially where IP65 protection is needed. Recommended installation height is between 4 and 9 meters. It can fulfil all lighting requirements set out in the new European norm EN12464-1: 2021*.

The new high output versions (>8,000 lumen) enable up to 44% reduction in the number of installed luminiares, at an improved energy efficacy up to 10% due to a higher lm/W value**. 500 WB/NB-HRO NB-HRO VWB 300 **VWB** WB 200 VWB WB

* Depending on space dimensions

A shorter 1200mm length replaces the old 1300mm and 1600mm lengths, providing a comparable light effect while saving more

- * Depending on
- * Compared to LED80S version



Very Wide Beam (VWB) Installation height

Wide Beam (WB) Installation height

Narrow Beam (NB-HRO) Installation height

Private and public parking

Excellent visibility is key in parking applications. Good light aids safe driving and enhances the feeling of safety for pedestrians. It enables drivers to find vacant spaces easily, park smoothly, and find the exit. But it should provide a bright space without creating disturbing effects, or compromising on operation, maintenance or energy consumption. Pacific LED gen5 meets all the above, and more:



- High protection against mechanical impact (IK08)
- High protection against water, dust (IP66)



- Highly energy efficient (<160 lm/W)
- Very long, reliable lifetime up to 100,000 hours maintaining minimum 80% of the light output
- Optimized optics for reduction of total installed power and further cost optimisation



Miniaturized, simpler, and fully serviceable design. High energy efficiency and long lifetime, makes it an ideal environmental choice.

Read more on our

• Circular economy approach



- New optimised Very Wide Beam (VWB) optics, create a bright space with high illuminances on walls and ceilings, with good uniformity
- Meets norms for private and public parking



- A choice of connectors and through-wiring or looping options
- Fully serviceable parts, simple access to data via Signify Service tag. Replacement of parts instead of a complete luminaire
- Installation, maintenance and replacing parts is a straightforward task



Additional control system and intelligent lighting solutions enable further optimisation of costs and operation.

Read more about

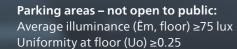
Interact

Lighting application guidance

Car parks
Private and public



Very Wide Beam (VWB)
Installation height 2.5m - 4m





Very Wide Beam (VWB) Installation height 2.5m - 4m

Parking areas – open to public: Average illuminance (Ēm, floor) ≥150 lux Uniformity at floor (Uo) ≥0.4

The improved Very Wide Beam (VWB) optic, designed especially for low spaces and car parks, fulfils the new requirements for both private and public car parks set out in the new *European norm EN12464-1: 2021 (Table 42: places of public assembly - car parks indoor).*



Pacific LED gen5 is easy to integrate into an Interact connected lighting installation

Interact connected lighting systems make it easier than ever to enjoy the benefits of smart lighting. It's a cost-efficient and wireless solution for every step of your smart lighting journey: starting with just lights and an app, while gaining more benefits by simply adding a gateway. The system is scalable, so it's possible to upgrade later when business requirements change, without the need to replace light points. So you can upgrade your lighting from smart to super smart in an instant.

One system, three tiers - each providing the best solution for every customer's need

| | Foundation | Advanced | Enterprise |
|--|------------|----------|------------|
| Sensor/switch control | ✓ | ✓ | ✓ |
| Scenes | ✓ | ✓ | ✓ |
| App control by one user | ✓ | ✓ | ✓ |
| App control by multiple users | | ✓ | ✓ |
| Scheduling | | ✓ | ✓ |
| Energy reporting | | ✓ | ✓ |
| Off-site control | | ✓ | ✓ |
| Diagnostics (off-site) | | ✓ | ✓ |
| Feature updates | | ✓ | ✓ |
| Multi-site dashboards on energy and occupancy data | | | ✓ |
| Space management web application | | | ✓ |
| Productivity mobile application | | | ✓ |
| Integration with building management system | | | ✓ |
| Emergency feedback and monitoring | | | ✓ |

Sensor units

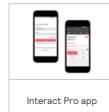
To maximie the benefits of system connectivity and to enable occupancy detection or daylight harvesting, Pacific LED Interact (SIA+ IA9) requires external ZGP battery powered sensors.

OCC-DL SENSOR IA CM IP65 WH



System building blocks

Foundation tier



Interact Pro app

Advanced tier



For more information: www.interact-lighting.com

Enterprise tier





Bringing you benefits with our circular economy approach

What if...

...we can enable your luminaires to meet your evolving needs beyond their rated service life from start to finish – including service and repair, upgrades and replacements – while you just enjoy the best lighting performance?

In a truly circular economy, everyone benefits - including our planet itself. Our purpose is to unlock the extraordinary potential of light for brighter lives and a better world. Using a circular approach, we aim to source and use renewable materials in our luminaires and components to maximum effect, while reducing landfill waste. With this in mind, we offer energyefficient luminaires that are designed for easy maintenance, repair, upgrades and replacement. Maintenance services are designed to be simple, fast and efficient, saving you time and money. And of course, we provide sophisticated technological upgrades, as and where needed, to keep your lighting fit for purpose.

Our circular lighting solutions can include innovative managed service models with end-of-contract options, intelligent asset management systems and circular economy-ready luminaires, supporting optimal performance. We work with partners to ensure the safe and compliant collection and recycling of end of-life components and luminaires. You benefit from immediate cost savings resulting from long-term functionality. Not to mention the least possible environmental impact.



Lifecycle assessments have been conducted for all circular economy-ready luminaires

We've designed luminaires for outdoor and indoor use with the circular economy in mind

Get ready to meet five vital benefits for our customers and our planet

Upgradable:

Pacific LED is easily upgradeable with the Interact scalable platform while keeping the same mechanical mounting brackets as used within previous generation. Renovation and replacement are very easy.

Recyclable:

Endless ways to exchange luminaires parts while prolonging lifetime of a complete Pacific LED installation. Luminaire breakdown into separated parts of same (pure) material (for example: no potted drivers, difficult interlocks).

Connectable:

Pacific LED can be connected to an Interact system. It enables upgrade and further system extension with external daylight and occupancy sensors. Those next to data-driven decision making, also support productivity, safety and wellbeing of workers.

Serviceable:

Pacific LED luminaires are easy to service, repair and replace thanks to the Signify Service tag, QR-based identification system, which makes each luminaire uniquely identifiable. Components are modular in design and leverage platform building blocks to maximize reuse in the portfolio.

Energy efficient:

Pacific LED promises very high luminous efficacy up to 160 lm/W. It has a range of tailored-made optics that support optimised lighting design in various applications, for even greater energy savings



Installation and optics

Flexible installation



WT490C WT475C Standalone version



WT475C TW1
Through-wiring version



WT490C TCW5 WT490C Looping wires version Standalo



WT490C W5 Standalone Wieland version



WT490C TW1/3 W5
Through-wiring Wieland

Choose your preferred connection type

Push-in connector (PI5/7)
Easy, tool-free wiring.



7-



WAGO connector (WA7) Flexible and tool-free wiring, thanks to 2-part connector.



7-pole



Simple wiring without

opening the luminaire.

Wieland (W5)

5-pole

Cable entry adjusted to the luminaire configuration



M20 for cables with max. 14 mm diameter (Ø)

Factory default for all configuration with up to 5 wires.*



M25 for cables with max. 17 mm diameter (Ø)

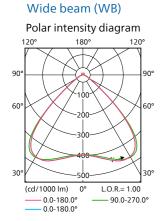
Factory default for all configuration with 7 wires.*

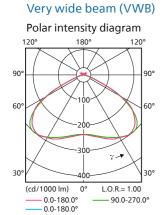
Factory default configuration can be changed, based on a request.

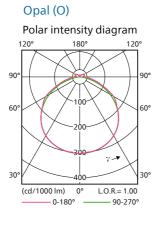
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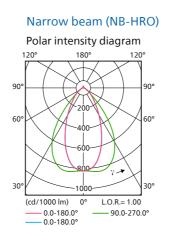
TCW5, only with M20 for cables max. 14 mm diameter (Ø)

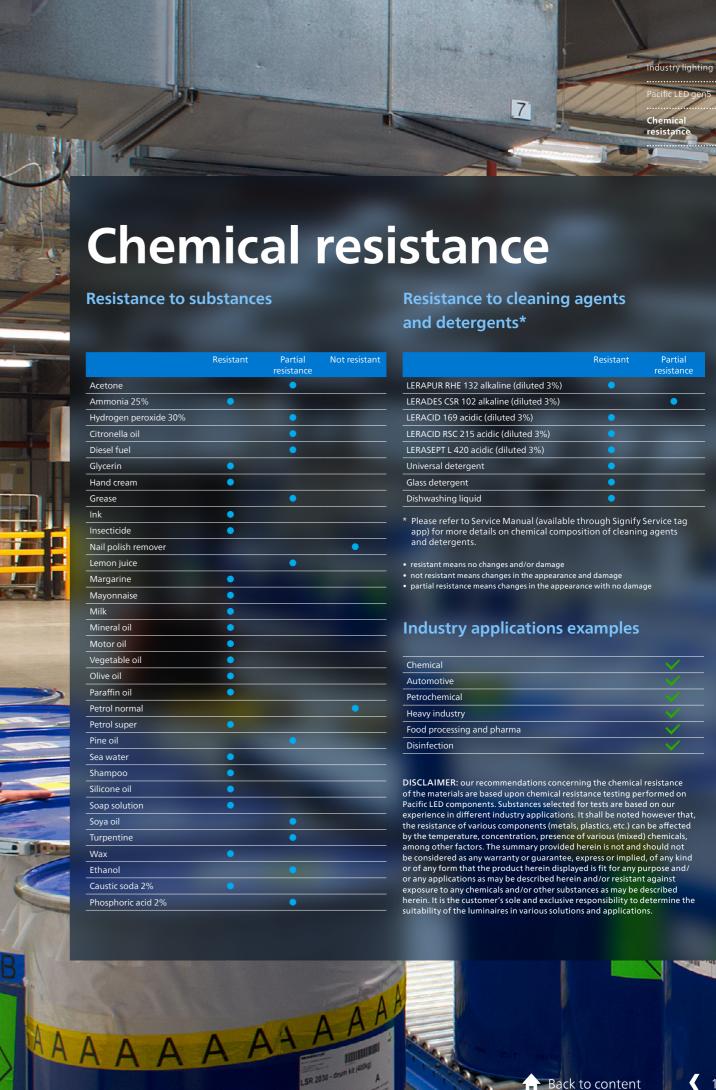
Optics choices for Pacific LED gen5 Light distributions - Polar diagrams











Specifications

Comparing Pacific LED gen5 WT490C with Pacific LED gen5 WT475C

| | Pacific LED gen5 WT490C | Pacific LED gen5 WT475C |
|------------------------------|---------------------------------------|--------------------------|
| Specification | | |
| Efficiency | 160 lm/W | 140 lm/W |
| Lifetime | 100,000 hours @L80 | 50,000 hours @L80 |
| Lumen output (lm) | 2300/4200/6400/8000/10000/12000/15000 | 4200/6200/7200/10700 |
| Optics | NB-HRO, WB, VWB, O(tube) | NB-HRO, WB, VWB, O(tube) |
| Ta range | -25°C to 45°C | -25°C to 45°C |
| Flicker value (Pst LM) | ≤1 | ≤1 |
| Stroboscope effect value SVM | ≤0.4 | ≤0.4 |

| Installation | | |
|-------------------------|--------------------------------|----------------------|
| Drivers | Non-dimmable, DALI-2, Interact | Non-dimmable, DALI-2 |
| Connectivity (optional) | Interact ready | No |

| Service and mounting | | |
|--|--|--|
| Mounting bracket | Single piece mounting, same as gen4 WT470C | Single piece mounting, same as gen4 WT470C |
| Signify ServiceTag 1) | Yes | Yes |
| Serviceability and Easy de-installation 2) | Fully Serviceable (Driver, LEDs, metal parts, tube) | Fully Serviceable (Driver, LEDs, metal parts, tube) |

¹⁾ QR-based identification system, enabling unique identification of each luminiare

Configuration options and product description

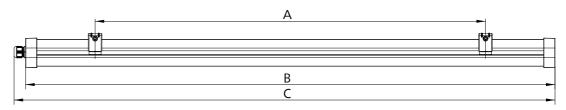
| Family Description | Length (mm) | Lumen Package | Light Colour options (K) | Optics options | System options | Wiring options | Connector options | Driver options | Emergency options 4) |
|--------------------|----------------|------------------|--------------------------|-------------------------|----------------------|-------------------------|---------------------------------------|----------------------------------|---------------------------------|
| Pacific LED gen5 | 700 | 2300 LED23S | _ 3000 _ 4000 | Narrow Beam (NB-HRO) | | 1-Phase (TW1) | Push in connector (PI5 and PI7) | Non-dimmable PSU | ELP3 Emergency Self test |
| WT490C | 1200 | 4200 LED42S | | | | | | | |
| | | 6400 LED64S | | Wide Beam | | DALI-2 | | PRO (3h) | |
| | | 8000 LED80S | 6500 ²⁾ | (WB) | (IA9, sensor type | 3-Phases (TW3) | WAGO connector | dimmable PSD | ELD3 |
| | | 10000 LED100S | | Very Wide | SNS441 IA) | Feed-through | (WA7) | | Emergency |
| | 1600 ¹) | 4200 LED42S | | Beam (VWB) | | connection (5 poles) | Wieland | Interact Ready SIA | Self test feedback DALI (3h) |
| | | 6400 LED64S | | Opal tube | | (TCW5) | connector | | |
| | | 8000 LED80S | | (O) 3) | | | on a wire (5-pole) (W5) | DALI-2 dim or Intreact ready, | ELW3 Emergency |
| | 1800 | 8000 LED80S | | | | | (3-poie) (vv3) | DC-compatible | Feedback with |
| | | 10000 LED100S | | | | | | Emergency lighting | Wireless Interface (3h) |
| | | 12000 LED120S | | | | | | PSED/SEIA | interface (311) |
| | | 15000 LED150S | | | | | | CLO Constant Light Output | |
| Pacific LED gen5 | 1200 | 4200 LED42S | 4000 | Narrow Beam | | Through wiring | | Non-dimmable | |
| WT475C | 1600 ¹) | 7200 LED72S | | (NB-HRO) | | 1-Phase (TW1) | connector (PI5 and PI7) | PSU | Emergency Basic manual test |
| | 1800 | 6200 LED62S | | Wide Beam | | | (is and i ii) | DALI-2 | (3h) |
| | | 10700 LED107S | | (WB) | | | | dimmable PSD | |
| | | | | Very Wide Beam (VWB) | | | | | |

^{1) 1600}mm available in 2022

Dimensional drawings

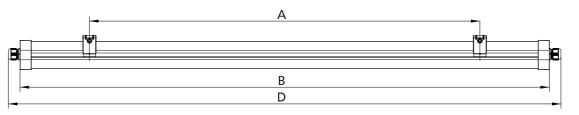
Industry lighting Pacific LED gen5 Dimensional drawings

Philips Pacific LED gen5 standalone type



| Luminaire type | A (mm) | B (mm) | C (mm) | kg max |
|---------------------|-------------|--------|--------|--------|
| WT490C L700 (TCW5) | 360 - 260 | 660 | 686 | 1.6 |
| WT490C L1200 (TCW5) | 920 - 720 | 1221 | 1248 | 2.4 |
| WT490C L1600 (TCW5) | 1300 - 1100 | 1601 | 1628 | 3.0 |
| WT490C L1800 (TCW5) | 1480 - 1080 | 1783 | 1810 | 3.2 |

Philips Pacific LED gen5 through wiring type





²⁾ For details please refer to Service manual, available via Signify Service Tag app

⁴⁾ DALI and PRO Emergency Lighting enables self-test function, Emergency Lighting features LFP batteries with up to 6yrs lifetime



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