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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, 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.



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 optimize maintenance and energy savings

Pacific LED gen5 is connectable and allows for system integration with Interact Industry. This opens up additional opportunities for optimized 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 pharma

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 sparks 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
- Optimized optics for reduction of total installed power and further cost optimization



• Flexibility of connection choices

Smooth and color consistent

New lumen packages (>8,000

lumen) and new length (1.8m)

open up a broader application

UGR19 options for workplaces

or precise work is required

where quality control, inspection

Low flicker and stroboscopic effect value for good working comfort

light distributions

opportunities

- 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



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



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

Read more about

Interact



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 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 an ideal environmental choice.

Read more on our

• Circular economy approach



- New lumen packages (>8,000 lumen) open up a broader application opportunities, especially where higher degree of protection is required
- The optimized 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 optimization of safety for workers, productivity, cost, and operation.

Read more about

Interact

Lighting application guidance

Industry lighting

Pacific LED gen5

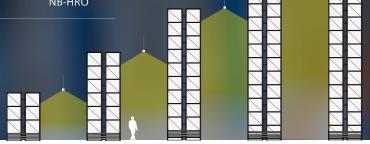
Warehouses

Warehouse aisles

Rack storage

Reco	ommended	Installation heig	ht luminaires (m)
	ptics in rehouses*		
(Iux)	300	WB	NB-HRO
lluminance (lux)	200	WB	NB-HRO
Illum		WB	NB-HRO
* Dep	ending on spa	ce 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.



Wide Beam (WB)
Installation height <6m

Narrow Beam (NB-HRO) Installation heights >6m

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**.

Reco	ommended	Installatio	on height lumir	naires (m)
	optics in en spaces*	<4	4 - 9	>9
(Xn		WB	WB/NB-HRO	NB-HRO
nce (I	500	VWB	WB/NB-HRO	NB-HRO
lluminance (lux)	300	VWB	WB	NB-HRO
=	200	VWB	WB	NB-HRO

* Depending on space dimensions

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

- Depending on lumen output, luminaire length and luminaire arrangement.
- ** Compared to Pacific gen4 LED80S version (or similar).



Very Wide Beam (VWB) Installation height <4m Wide Beam (WB) Installation height 4m - 9m

Narrow Beam (NB-HRO) Installation height >9m

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 optimization



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 optimized 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 optimization 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

Parking areas – not open to public: Average illuminance (Ēm, floor) ≥75 lux Uniformity at floor (Uo) ≥0.25



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).*



interact

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.

Sensor units

To maximize 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 SENSOR IA CM IP65 WH OCC-DL SENSOR IA CM IP65 WH



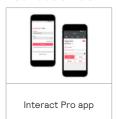


One system, three tiers - each providing the best solution for every customer's need

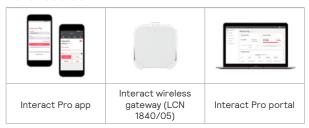
	Foundation	Advanced	Enterprise
Sensor/switch control	✓	✓	✓
Scenes	✓	✓	✓
App control by one user	✓	✓	✓
App control by multiple users		✓	✓
Scheduling		✓	✓
Energy reporting		✓	✓
Off-site control		✓	✓
Diagnostics (off-site)		✓	✓
Feature updates		✓	✓
Multi-site dashboards on energy and occupancy data			✓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

System building blocks

Foundation tier



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

Pacific LED gen5
Circular economy

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.

Energy efficient:

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

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.

Installation and optics

Flexible installation



WT490C WT475C Standalone version



WT490C TW1/TW3 WT475C TW1 Through-wiring version



WT490C TCW5 Looping wires version



Standalone Wieland version



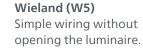
WT490C TW1/3 W5 **Through-wiring Wieland**

Choose your preferred connection type

Push-in connector (PI5/7)

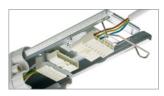
Easy, tool-free wiring.













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.*



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



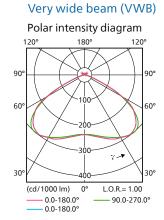
M25 for cables with max. 17 mm diameter (Ø)

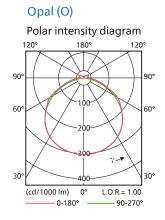
Factory default for all configuration

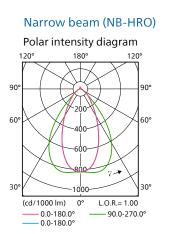
Factory default configuration can be changed, based on a request.

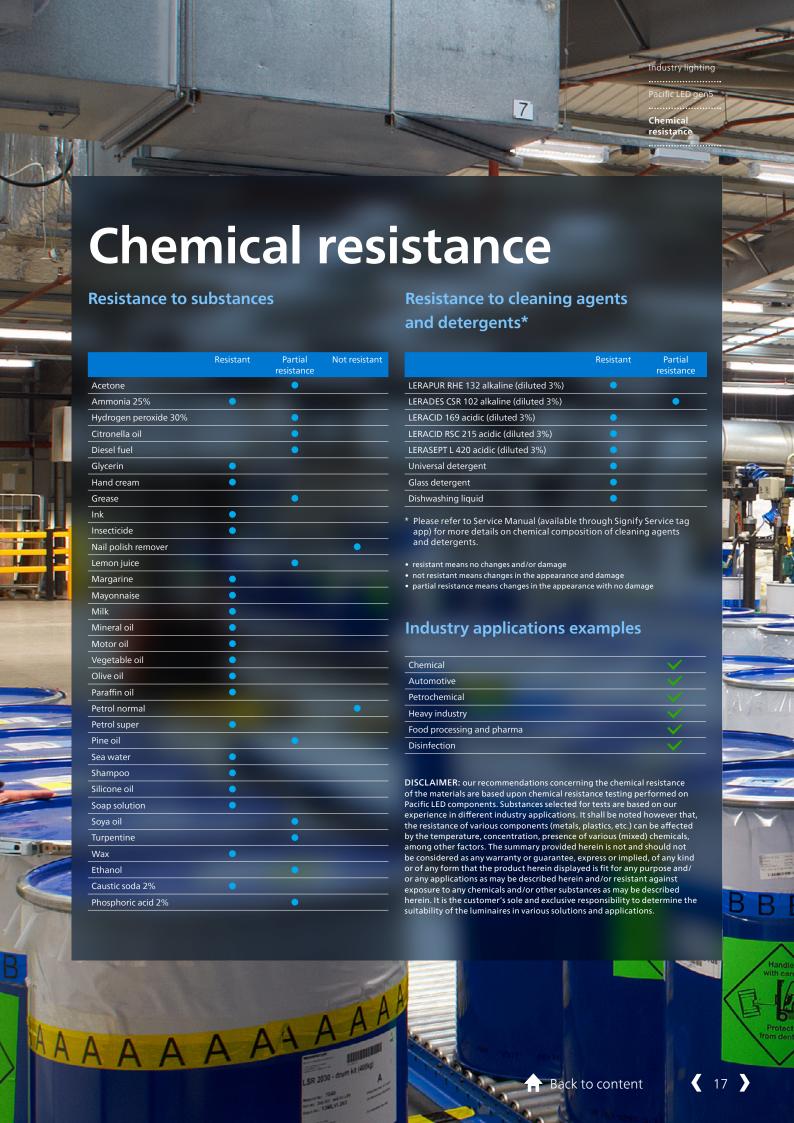
Optics choices for Pacific LED gen5 Light distributions - Polar diagrams

Wide beam (WB) Polar intensity diagram 120° 609 (cd/1000 lm) 0° L.O.R.= 1.00 0.0-180.0° 0.0-180.0° 90.0-270.0°









Specifications

Comparing Pacific LED gen5 with Pacific LED gen5 Value

	Pacific LED gen5	Pacific LED gen5 Value
Specification		
Efficiency	160 lm/W	140 lm/W
Lifetime	100,000 hours @L80	50,000 hours @L80
Lumen output (lm)	2300/4200/6400/8000/10000/12000/150000	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	Single piece mounting, same as gen4
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	River options	Emergency options 4)
Pacific LED gen5	700	2300 LED23S	3000	Narrow Beam	Interact Ready	Through wiring		Non-dimmable	
WT490C	1200	4200 LED42S	- . 4000	(NB)	Antenna with bluetooth	1-Phase (TW1)	connector (PI5 and PI7)	PSU	Emergency lighting
		6400 LED64S		Wide Beam	functionality	Through wiring		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)	FJU	Emergency
	1600 ¹)	4200 LED42S		Beam (VWB)		connection	Wieland	Interact Ready SIA	lighting DALI (3h)
		6400 LED64S		Opal tube		(5 poles) (TCW5)	connector	SIA	DALI (SII)
		8000 LED80S		(O) 3)			on a wire	DALI-2 dim or	ELW3
	1800	8000 LED80S					(5-pole) (W5)	Intreact ready, DC-compatible	Emergency lighting with
		10000 LED100S						Emergency	Wireless
		12000 LED120S						lighting PSED/SEIA	Interface (3h)
		15000 LED150S							
								CLO Constant Light Output	
Pacific LED gen5	1200	4200 LED42S	4000	Narrow Beam		Through wiring		Non-dimmable	
Value WT475C	1600 ¹)	7200 LED72S		(NB)		1-Phase (TW1)	connector (PI5 and PI7)	PSU	Emergency lighting Basic
	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 from early 2022

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

^{2) 6500}K available on request

³⁾ opal tube available from Q2'22

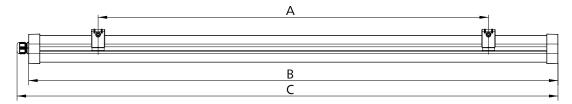
⁴⁾ DALI and PRO Emergency Lighting enables self-test function, Emergency Lighting features LFP batteries with up to 6yrs lifetime

Dimensional drawings

Pacific LED gen5

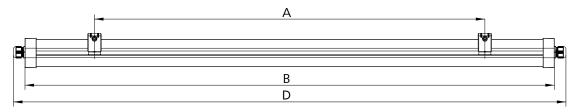
Dimensional drawings

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



WT490C L1200 TW 920 - 720 1224 1278 2.8 WT490C L1600 TW 1300 - 1100 1601 1654 3.4 WT490C L1800 TW 1480 - 1080 1785 1838 3.6
WT490C L1800 TW 1480 - 1080 1785 1838 3.6



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