PHILIPS

Endura Next

interact ready.

ENDURA NEXT

System Ready Connected Batten

Next generation system ready intelligent batten

With Philips Endura Next, customers have an industrial batten lighting solution that makes a valuable contribution to the profitability of their business, providing both operational and maintenance cost savings.

By significantly reducing the energy consumption, this solution contributes to a lower carbon footprint. At the same time, the luminaire design ensures flicker free, consistent light output for the lifetime (50K hrs.), thereby guaranteeing the optimal working conditions for employees. It enhances productivity as well as takes care of safety of the employees. This unique solution comes with a wide range of intelligent (DALI, PIR movement detection) and networkable options such as Interact IoT enabled platform (both in Wired & Wireless options).

No matter what your requirement is “Endura Next” comes with endless possibilities in this era of connected lighting and is specifically designed to minimize downtime in operations.

ENDURA NEXT

An Intelligent Batten

Endura Next is a system ready connected batten solution, direct replacement of T8 1x36/ 2x36, TL5 1X28/ 2X28/ 2X54 conventional batten which saves ~58%* energy vs conventional industrial batten. The inbuilt intelligence through DALI compatibility and PIR sensor enhances further energy saving potential because of daylight harvesting and movement sensing.

Features & Benefits

Advance technology

- Flicker Free (Ripple<5%)
- System ready solutions (Interact Wired/Wireless & DALI)
- Movement Detection With inbuilt PIR Sensor with Dimming possibilities
- Efficacy >120lm/W

Wide selection

- Available in 2000/4000/ 6000 Lumen
- Available in 2ft and 4ft
- IoT Enabled. (Interact Wired/Wireless, DALI, PIR)
- Choice of color temperature –6500K/4000K
- Suitable for Surface/ Suspended application

Superior performance

- Designed for energy savings of up to 58% Vs conventional lighting
- Long Life 50K hrs. L70B50
- Surge Protection - 4 KV
- THD: <10%
- Uniform lighting color quality CRI >80

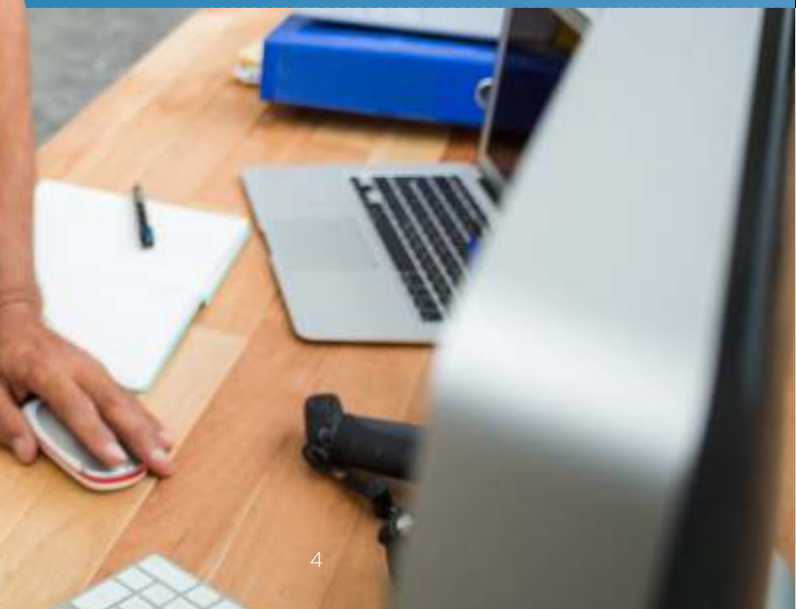
High-quality materials and design

- Broader end caps and lesser number of openings to enhance protection against foreign objects
- High quality PC diffuser
- CRCA housing enhances safety

Enjoy Peace of Mind

with Philips Flicker-free batten – ENDURA NEXT

Endura Next batten offers flicker free operations. Fluctuation of the light source can occur when the power signal from the driver to the light source is not constant but instead contains some degree of 'ripple'. The amount of 'ripple' is strongly influenced by the way the driver or ballast is designed. Endura Next driver is carefully designed for ripple <5%.



4

What is Flicker Effect?

Temporal Light Artefacts (TLA)

Temporal Light Artefacts (TLA) is the general term for visual effects which are caused by a rapidly fluctuating light source causing an undesired effect for the observer. The two most important effects are flicker and stroboscopic effect.

Flickering & Stroboscopic effect

When an observer looks at a light source and sees a rapid changing of the intensity, this can be described as flicker. Its typical range is between 0.1Hz up to 80Hz. When an observer looks at a moving object and instead of a fluid motion observes several steps, this can be denoted as stroboscopic effect. Contrary to flicker, this is observed for light fluctuation at much higher frequencies (80Hz up to 2000Hz).

Cause of Flicker

- Mains voltage fluctuations
- Internal factors such as the conversion of AC current (Mains) to DC current in the driver

What are the Consequences?

Effect of flicker & stroboscopic effect on health and wellbeing

Human impact

Even though we do not always notice flicker and/or stroboscopic effect it can have a severe impact on our health and wellbeing and can cause:

- Headache
- Neurological disorder: Photosensitive epilepsy
- Sensitivity autism
- Performance reduction

Safety impact

It can also have a severe impact on safety. When individuals are not able to accurately detect fast moving objects, accidents can happen. Flicker and stroboscopic effect can also cause distraction which in turn can lead to accidents.

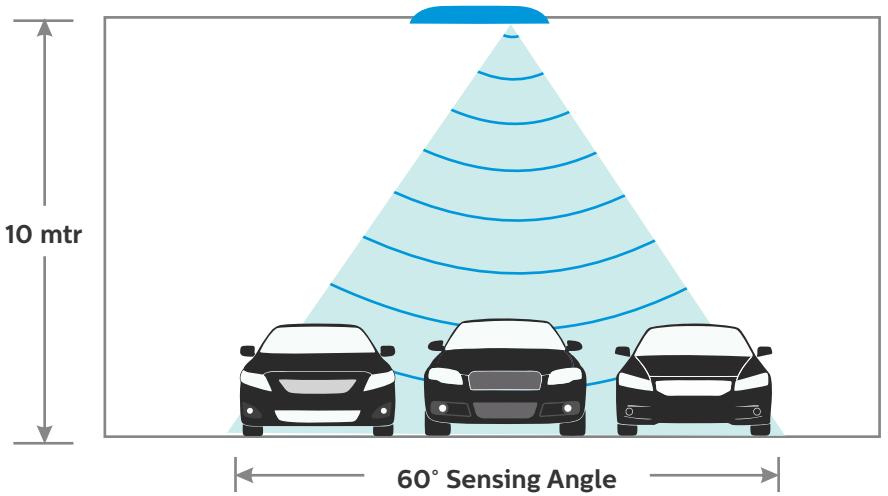
PIR Sensor to enable Dimming to address Safety measures:

Adequate, well-balanced levels of illumination are essential in establishing safe conditions. The benefits of adequate lighting include greater productivity and accuracy, improved safety and security, and improved morale.

Philips Endura Next Batten is emphasizing on Safety aspect with eye on energy wastage by providing Inbuilt PIR (Movement Sensor) which Dim the Luminaire to 50% in case of no movement.

- Luminaire will detect Movement with help of PIR Sensor
- Dim to 50% in case of no movement hence safety concern addressed in Workplace/Parking/Warehouse/Shop Floor etc.
- Dimming possibilities with Standard Electronic Driver (Non-Dimmable Driver).

Movement Sensor



Philips Endura Next
Interact IoT enabled platforms

Endura Next: Connected Ready

With organizations increasingly focusing on overall employee experience, higher productivity and higher operational excellence, Intelligent Lighting Systems are increasingly desired.

To serve this emerging need of our customers, Endura Next has been designed to be IoT Enabled in both a wired and a wireless environment with a highly scalable, secure and robust system backbone, which is easy to install and integrates more luminaire in case of expansion and use.

With a connected infrastructure, Endura Next can enable several benefits like Daylight Harvesting, Occupancy based controls, Scheduling, Zoning and detailed dashboards to not only impact operational efficiency but also overall experience and productivity.

Endura Next works in 3 kinds of Connected Infrastructure models described as below:

Interact Office- Wired	Interact Office-Wireless	Interact Pro
A highly scalable and efficient POE based infrastructure where Low voltage power is transmitted over existing Ethernet cables to operate the luminaires, while high volumes of data are sent and collected. Integrating a Philips connected lighting system using Power over Ethernet (PoE) technology into the IoT is an ideal way to meet sustainability goals and realize financing savings from space optimization and employee productivity.	Interact Office provides a complete LED retrofit or a new project system and up to 70% energy savings, with or without upfront capital investment. Hassle free installation leverages the existing lighting infrastructure, while easy operation saves time and provides peace of mind. You gain crucial insights into your lighting's energy consumption and occupancy patterns across your portfolio. These insights, supported by data, allow you to make decisions on portfolio optimization and bring stake-holders on board with facts.	Bringing easy to install wireless connected lighting to small spaces be it offices, retail or even parking spaces, the Interact Pro app allows fast set up by installers and personal control for employees. The system works for maximum 200 light points.

How the connected lighting system comes together

Interact Platform

Interact gateway

Interact app

Interact dashboard

Interact Office benefits at a glance:

Lighting for the Internet of Things (IoT)

Connected lighting with open API offers a future-ready data collection infrastructure you can integrate with other building management systems, to create a more intelligent building

Enable data-driven decision making

Use insights gathered from sensors and software apps enabled by your connected lighting system to optimize building efficiency, space and cost.

Enhance productivity

Empower and engage workers through smart device apps that personalize lighting, temperature and enable location-based services such as colleague location, room booking and indoor navigation.

Innovate faster

Fact based insight enables new workplace innovations while improving the employee experience and building brand reputation

Energy saving

Achieve up to 80% energy saving for lighting alone*. Meet green standards with smart LED lighting that saves energy, while also supporting employee comfort.

Good Driver gives great results

LEDs offer huge benefits. But to ensure optimum energy efficiency, reliability, and durability, they need the support of dedicated control gear. LED drivers play an important role in the overall design of lighting by regulating the power output. The main task of an LED driver is a constant light output, meaning a steady power supply to the LEDs, despite possible power variations.

- Flicker Free (Ripple <5%)**
- High low cut with auto restart feature @ 140-270V
- High Surge (4KV)
- EMI/EMC Compliance
- Life Class (50K Hours)

Endura Next -BN308C

Versions	PSU			PIR (Occupancy Sensor)			DALI	Interact Pro	POE with ActiLume	Interact Office
System Lumen	2K lm	4K lm	6K lm	2K lm	4K lm	6K lm	4K lm	4K lm	4K lm	4K lm
System Power	16W	34W	47W	16W	34W	47W	16W	34W	34W	34W
Length (mm)	2ft/4ft	4ft	4ft	4ft	4ft	4ft	4ft	4ft	4ft	4ft
System efficacy	>120 lm/W									
Optical Cover	Diffuser									
Power Factor	0.95									
CCT	CW (6500K); NW (4000K)									
CRI, SDCM	CRI >80, SDCM <5									
Operating Temperature	Ta: 0-45ºC									
IP Rating	IP20									
Classification	Class 1									
Input voltage	Fixed output; 140-270V, 50/ 60 Hz									
Housing	CRCA									
Lifetime (hrs.)	50,000 @L70B50									
Serviceability	Class B									
Driver	Fixed output/DALI/ PoE/SR									
Dimensions	44 X 51 X 585(2 ft), 44 X 51 X 1157 (4ft, without Sensor) 44 X 51 X 1221 (4ft, with Sensors)									
Mounting	Surfaced; Suspended (Symmetric/ Asymmetric)									

Ordering Data

Sl No.	Size	12 NC	Lumen	CCT	Description
			PSU VERSION		
1.	2ft	919515812660	2000	6500K	BN308C LED20S-6500 L60 PSU WH
2.	2ft	919515812661	2000	4000k	BN308C LED20S-4000 L60 PSU WH
3.	4ft	919515812662	2000	6500k	BN308C LED20S-6500 L120 PSU WH
4.	4ft	919515812663	2000	4000k	BN308C LED20S-4000 L120 PSU WH
5.	4ft	919515812664	4000	6500k	BN308C LED40S-6500 L120 PSU WH
6.	4ft	919515812665	4000	4000k	BN308C LED40S-4000 L120 PSU WH
7	4ft	919515812666	6000	6500k	BN308C LED60S-6500 L120 PSU WH
8.	4ft	919515812667	6000	4000k	BN308C LED60S-4000 L120 PSU WH
			DALI VERSION		
9.	4ft	919515812670	4000	6500k	BN308C LED40S-6500 L120 PSD WH
10.	4ft	919515812671	4000	4000k	BN308C LED40S-4000 L120 PSD WH
			PIR VERSION		
13.	4ft	919515812680	2000	6500k	BN308C LED20S-6500 L120 PIR WH
14.	4ft	919515812681	2000	4000k	BN308C LED20S-4000 L120 PIR WH
15.	4ft	919515812682	4000	6500k	BN308C LED40S-6500 L120 PIR WH
16.	4ft	919515812683	4000	4000k	BN308C LED40S-4000 L120 PIR WH
17.	4ft	919515812684	6000	6500k	BN308C LED60S-6500 L120 PIR WH
18.	4ft	919515812685	6000	4000k	BN308C LED60S-4000 L120 PIR WH
			INTERACT PRO VERSION		
11.	4ft	919515812676	4000	6500k	BN308C LED40S-6500 L120 IA WH
12.	4ft	919515812677	4000	4000k	BN308C LED40S-4000 L120 IA WH
			INTERACT OFFICE VERSION		
23.	4ft	919515812690	4000	6500k	BN308C LED40S-6500 L120 IAO WH
24.	4ft	919515812691	4000	4000k	BN308C LED40S-6500 L120 IAO WH
			POE (ActiLume) VERSION		
19.	4ft	919515812686	4000	6500k	BN308C LED40S-6500 L120 SL WH
20.	4ft	919515812687	4000	4000k	BN308C LED40S-4000 L120 SL WH
21.	4ft	919515812688	4000	6500k	BN308C LED40S-6500 L120 MA WH
22.	4ft	919515812689	4000	4000k	BN308C LED40S-4000 L120 MA WH

South

CHENNAI
Signify Innovations India Limited
3rd Floor, C-Block, Sunny Side,
Shafee, Mohammed Road,
Off Greams Road,
Chennai - 600 006
Tel: 044 66074000/4020

BANGALORE
Signify Innovations India Limited
Mfar Greenheart, Level 7,
Manyata Tech Park,
Hebbal Outer Ring Road,
Bangalore - 560045
Tel: 080 67819730

HYDERABAD
Signify Innovations India Limited
Level 1, MB Towers, Road No 10,
Banjara Hill,
Hyderabad - 500034
Tel: 040 46464828

North

GURUGRAM
Signify Innovations India Limited
9th Floor, DLF 9-B,
DLF Cyber City, Sector 25,
DLF Phase 3,
Gurugram- 122002
Tel. :- 91 124 460 6000

West

MUMBAI
Signify Innovations India Limited
Technopolis Boomerang, B2 Wing,
5th Floor, Unit No. 506, Chandivali
Farm Road, Near Chandivali
Studio, Andheri (East), Mumbai -
400072
Tel: 91 22 6691 2000

AHEMDABAD
Signify Innovations India Limited
Flexi Business Hub
201, 2nd floor, Madhu complex,
Opposite Gwalia sweet, Near
sardar patel Stadium,
Navrangpura, Ahmedabad,
Gujarat - 380009
Tel: 9375239966

East

KOLKATA
Signify Innovations India Limited
22 Camac Street, Block B,
6th Floor, Kolkata - 700016
Tel: 033 66297000

For any lighting service request you can reach out through

TollFree Number: **1800 103 5977**

SMS: **Send 'COMP' to 56363** - Our representative will call back

Email: **lighting.india@philips.com** or

Chat & Mail: **www.lighting.philips.co.in** - Support/Contact us/Chatnow/Email