Endura Next

System Ready *Connected Batten*

Signify

the meaning of light

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Customers and their Needs

Ware House

- higher lumen batten for area which has lux expectation of 700 and more
- Better protection against dust & insect but will not spent money for proper IP65 protected batten
- save further on energy bill over LED saving
- Flexibility in length
- Smart Warehouse solution, which can be controlled remotely
- Auto switched off facility when no movement
- Health monitoring of luminaire
- Manage operation- Centrally

Datacenter

- Productivity
- Health & wellbeing
- Flexibility in length
- Health monitoring of luminaire
- Flexibility in luminaire control (remotely and by authorized personnel)

Parking

- Auto dimming when no movement detected
- Employee Safety hence low cost dimming solution
- Better protection against dust & insect but will not spent money for proper IP65 protected batten
- Higher efficacy hence lower energy cost
- Cost effective solution

Shop Floor

- Productivity
- Health & wellbeing
- Employee Safety hence low cost dimming solution
- Looking for higher lumen batten for area which has lux expectation of >500 and more
- Flexibility in length
- Can monitor Health of luminaire remotely
- Manage operation- Centrally
- Better protection against dust & insect but will not spent money for proper IP65 protected batten

- **Smart connected solution**
- **Remote Operation**
- **Health Monitoring**
- **Productivity**
- **Higher Lumen Option**
- **Low cost dimming based on movement detection**
- **Better protection against foreign particle**

3

How we address with Endura Next

- **Productivity**-Flicker Free
- **Connected**(POE,IA & IAO)
- **Safety**-Dimming with Sensor
- **Higher Lumen**- up to 6K
- **High Efficacy**-120Lm/W
- **Longer Life**
- **Different Length**-(2ft & 4ft)
- **Improved Design**-Less Ingress

Endura Next : System ready connected lighting solution

>58% energy saving

interact ready.

DALI

Lighting Specifications:

- Eye soothing lighting solution, exceptional color uniformity (SDCM<5) and color rendering (CRI>80)
- Flicker free (Ripple less than 5%)
- Available in 2k/4k/6k lumen in 4ft and 2k lumen in 2ft
- System efficacy of >120 lm/w, saves more than 58% energy compared to conventional products
- Integrated Serviceable lighting system sleek design. Power Factor of > 0.95 and THD < 10% makes it a perfect fit for all applications including textile / spinning mills
- Versatile : Suitable for both surface and suspended mounting with relevant mounting accessories.

Connected solutions:

- Built-in daylight harvest and occupancy sensor determines working mode by situation, enhance power saving
- ZigBee communication in between fixtures enables easy installation, re-networking, re-zoning and programing to maximize energy saving
- Extensive options of controllable solution (DALI, POE ActiLume , PIR, Interact Pro, Office Interact versions)

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Features and Benefits

Use with peace of mind

- Suitable for Surface mounted / Suspension
- Flicker Free (Ripple<5%)
- Efficacy >120 Lm/W
- CRI >80
- Point to point replacement for T8 1x36 ,
- T8 2x36 conventional batten
- PF >0.95

Long-lasting performance

- Designed for energy savings of up to 58% compared with conventional lighting
- L70B50 50k hours*
- *Designed to sustain 70% of initial lumen output (L70) at 50,000 hours of lifetime

Wide selection

- Choice of color temperature –
- Cool white (6500K), Neutral (4000K)
- Available in 2000/4000/6000 Lumen
- Available in 2ft and 4ft
- Comes with Dali, PIR, POE ActiLume , Interact Pro, Office Interact.

High-quality materials and design

- CRCA housing enhances safety
- High quality PC Diffuser
- Flexible mounting arrangements (Suspended/ Surface)

Endura Next: Flicker Free batten (Ripple < 5%)

Endura Next batten offer Flicker free operations.Fluctuation of light source can occur when the power signal from the driver to the light 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%.

Flickering & Stroboscopic effect

Rapid change in intensity of light source described as flickering and fluid motion observes in number of steps described as stroboscopic effect.

Cause of Flicker

Mains Voltage fluctuations

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

Consequences:

Human impact

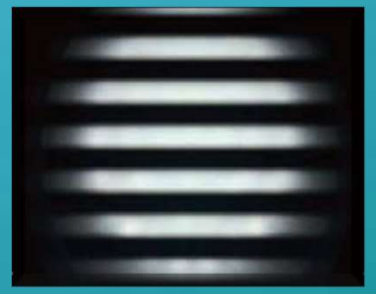
Flickering or stroboscopic effect can result in:

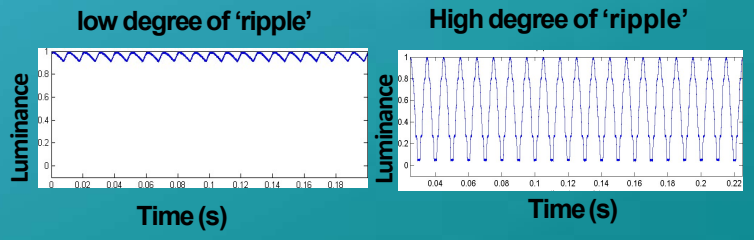
- Headaches
- Neurological problems: Photosensitive epilepsy
- Autistic sensitivity
- Performance reduction

Safety impact

When individuals are not able to accurately detect fast moving objects, accidents can happen.

ENDURA NEXT COMES WITH A DRIVER WHICH IS DESIGNED FOR <5% RIPPLE





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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.

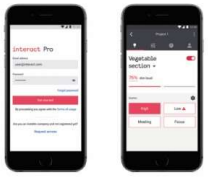
Endura Next works in 3 kinds of Connected Infrastructure models described as below:

Interact Office- Wired		
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.

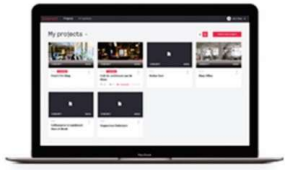
How the connected lighting system comes together

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.

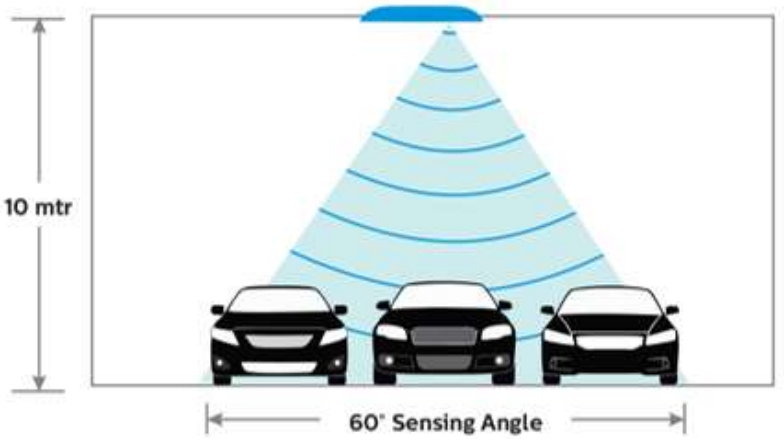
PIR Sensor to enable Dimming to address Safety measures:

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



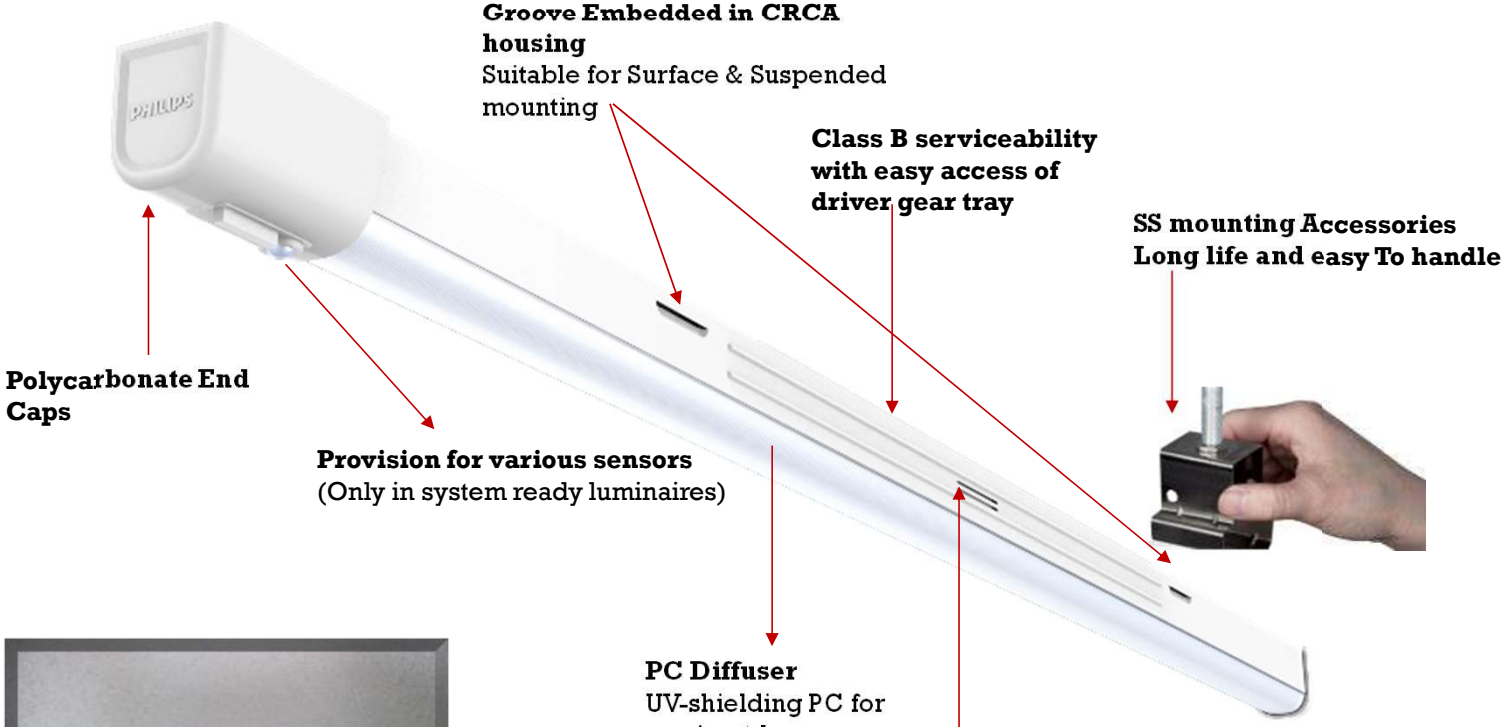
Key Features of Driver

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)

Robust design & high quality components leads to reliable performance



Groove Embedded in CRCA housing
Suitable for Surface & Suspended mounting

Class B serviceability with easy access of driver gear tray

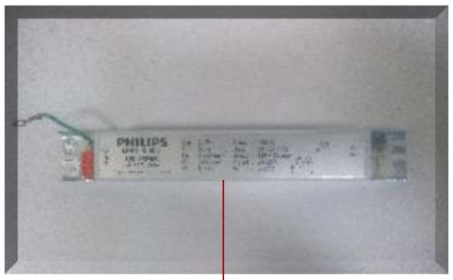
SS mounting Accessories Long life and easy To handle

Polycarbonate End Caps

Provision for various sensors
(Only in system ready luminaires)

PC Diffuser
UV-shielding PC for semi-outdoor environment

CRCA housing
Robust design



Flicker Free constant Current Driver
Peace of mind

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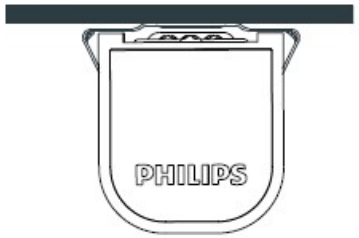
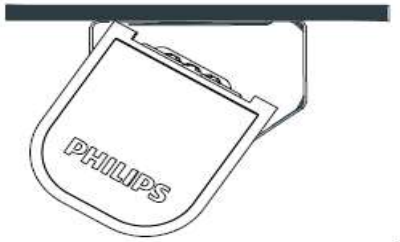
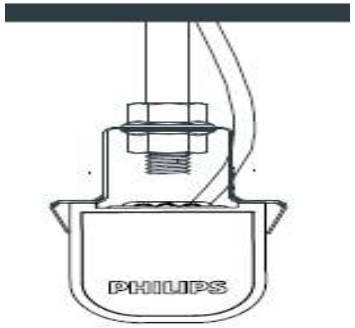
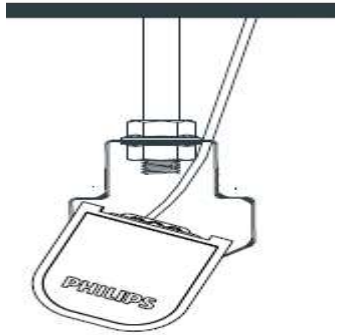
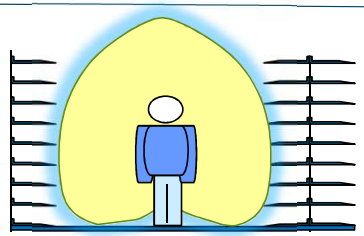
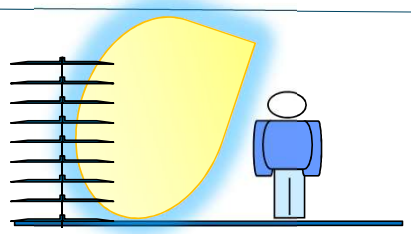
Batten – Mounting

	Symmetric mounting	Asymmetric mounting
Surface Mounting		
Suspension Mounting		
		

Versatile Applications

Factory

Indoor Parking

Assembly line

Warehouse

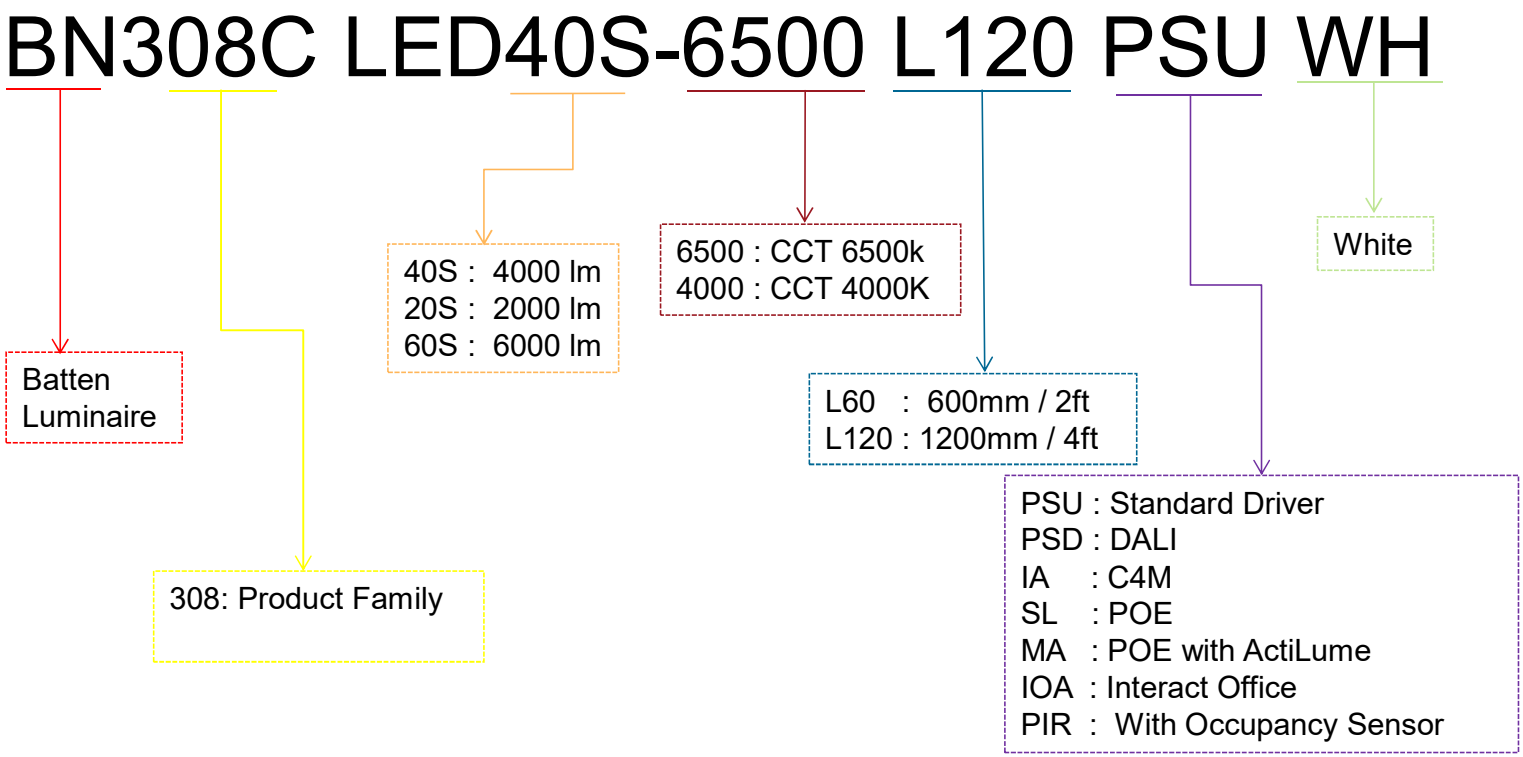
Metro

Supermarket

Product Specification

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	34W	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)									

How to read Catalogue reference



Ordering Data

SL No.	Size	12 NC	Lumen	CCT	Description	Spare Driver 12NC
PSU VERSION						
1	2ft	919515812660	2000	6500k	BN308C LED20S-6500 L60 PSU WH	9194 158 11007
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	9194 158 11008
6	4ft	919515812665	4000	4000k	BN308C LED40S-4000 L120 PSU WH	
7	4ft	919515812666	6000	6500k	BN308C LED60S-6500 L120 PSU WH	9194 158 11009
8	4ft	919515812667	6000	4000k	BN308C LED60S-4000 L120 PSU WH	
DALI VERSION						
9	4ft	919515812670	4000	6500k	BN308C LED40S-6500 L120 PSD WH	929000852103
10	4ft	919515812671	4000	4000k	BN308C LED40S-4000 L120 PSD WH	
INTERACT PRO VERSION						
11	4ft	919515812676	4000	6500k	BN308C LED40S-6500 L120 IA WH	9137 136 12666
12	4ft	919515812677	4000	4000k	BN308C LED40S-4000 L120 IA WH	

Ordering Data

SL No.	Size	12 NC	Lumen	CCT	Description	Driver Spare 12NC
PIR VERSION						
13	4ft	919515812680	2000	6500k	BN308C LED20S-6500 L120 PIR WH	919415811004
14	4ft	919515812681	2000	4000k	BN308C LED20S-4000 L120 PIR WH	
15	4ft	919515812682	4000	6500k	BN308C LED40S-6500 L120 PIR WH	919415811005
16	4ft	919515812683	4000	4000k	BN308C LED40S-4000 L120 PIR WH	
17	4ft	919515812684	6000	6500k	BN308C LED60S-6500 L120 PIR WH	919415811006
18	4ft	919515812685	6000	4000k	BN308C LED60S-4000 L120 PIR WH	
POE (ActiLume) VERSION						
19	4ft	919515812686	4000	6500k	BN308C LED40S-6500 L120 SL WH	929001619706 Sensor part no. (913700356703)
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	
INTERACT OFFICE VERSION						
23	4ft	919515812690	4000	6500k	BN308C LED40S-6500 L120 IAO WH	929001540406
24	4ft	919515812691	4000	4000k	BN308C LED40S-6500 L120 IAO WH	

Mounting Instruction

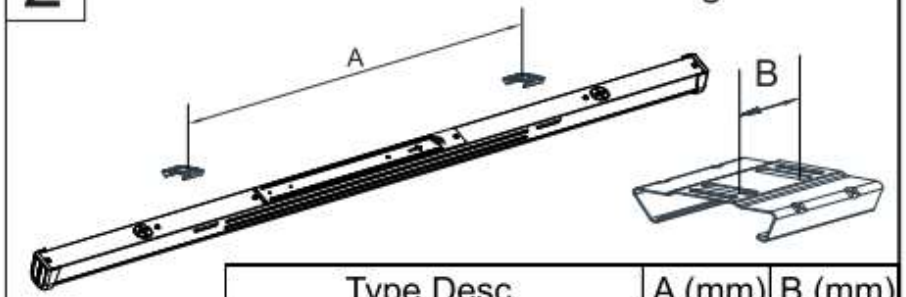
Accessories for Optional

TYPE	ACCESSORIES DESCRIPTION
AC308C MB S	SURFACE MOUNTING SYMMETRIC BRACKET
AC108C MB A	SURFACE MOUNTING ASYMMETRIC BRACKET
AC108P MB S	SUSPENSION MOUNTING SYMMETRIC BRACKET
AC108P MBA	SUSPENSION MOUNTING ASYMMETRIC BRACKET

1 Fix mounting brackets onto ceiling

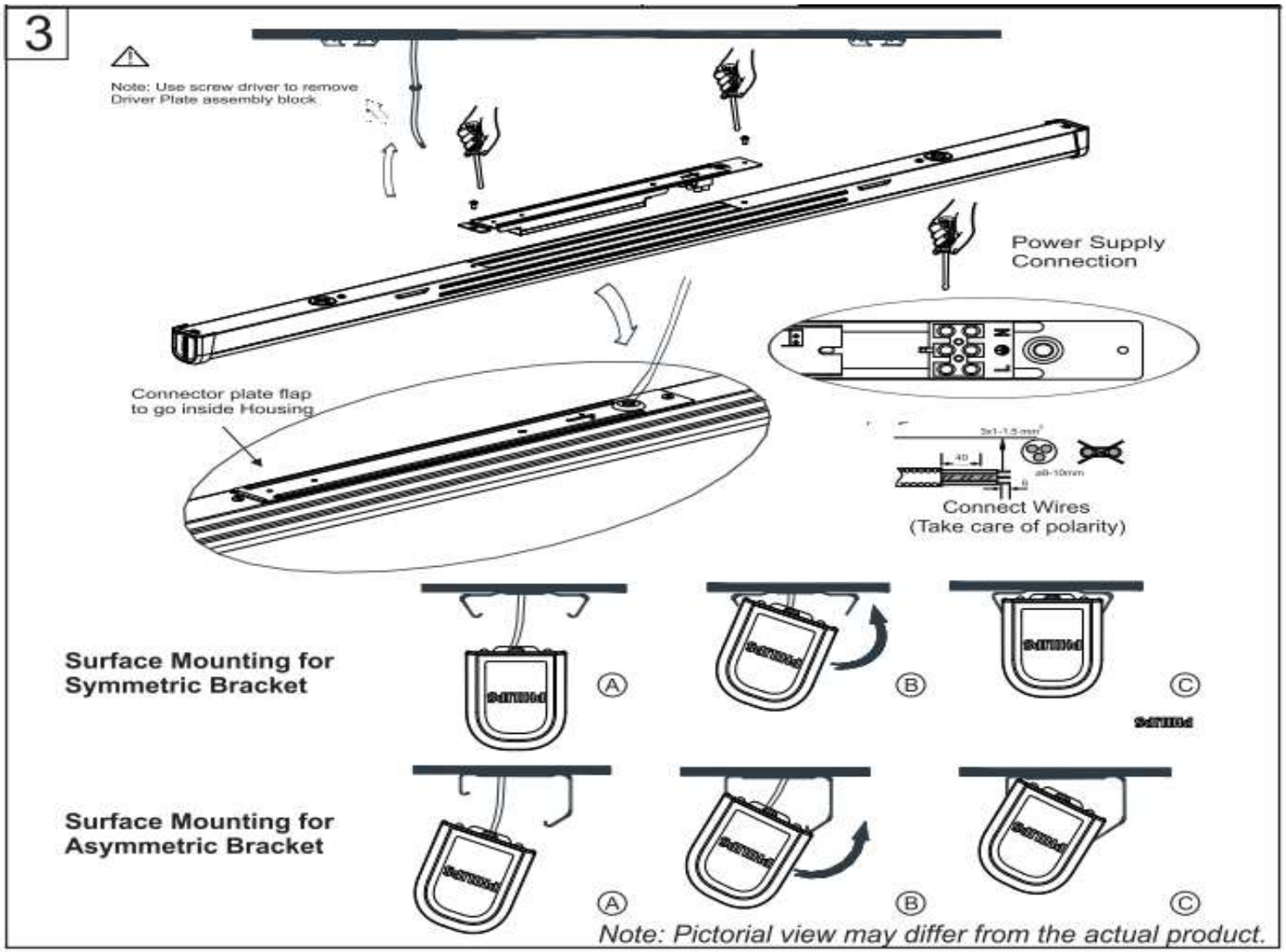
1. Mount the Surface Bracket for Symmetric using the unit ofAC308C MB S.
2. Mount the Surface Bracket forAsymmetric using the unit ofAC108C MBA.

2 The distance of surface mounting refer toA

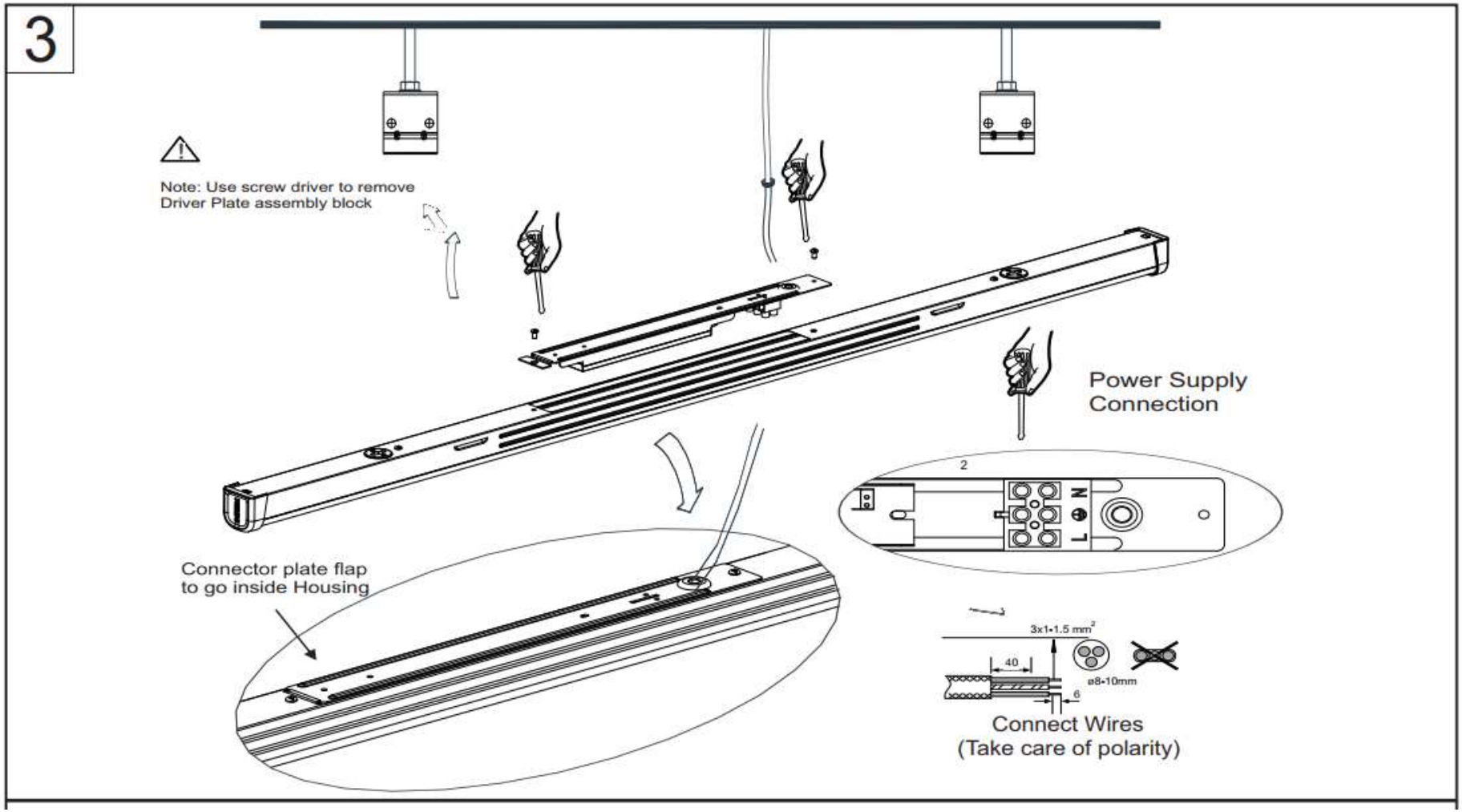


Type Desc.	A (mm)	B (mm)
BN308C LED 20S (L60)	414±5	20
BN308C LED 20S (L120)	600±5	20
BN308C LED 40S	600±5	20
BN308C LED 60S	600±5	20

Mounting Instruction



Mounting Instruction



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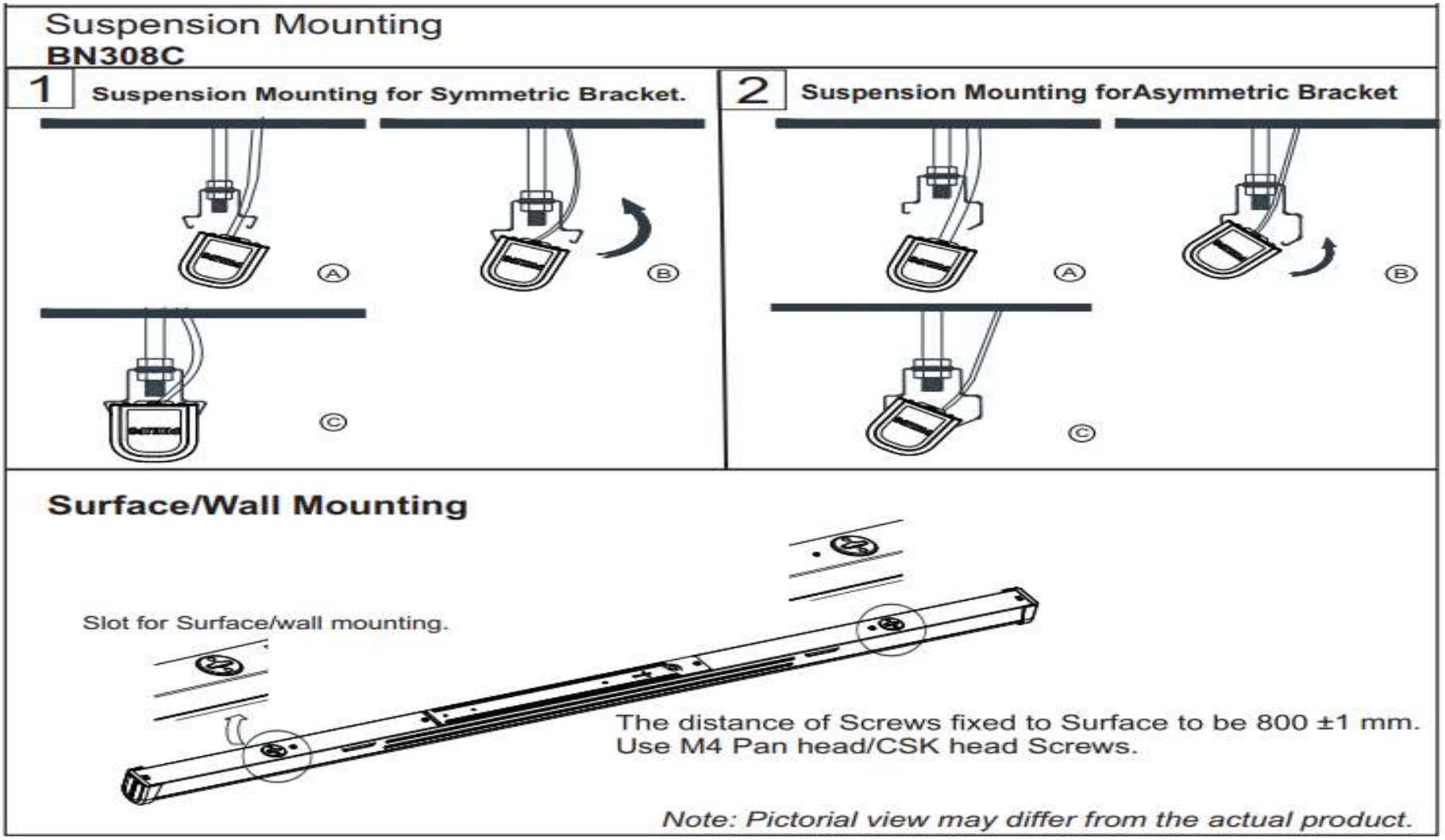
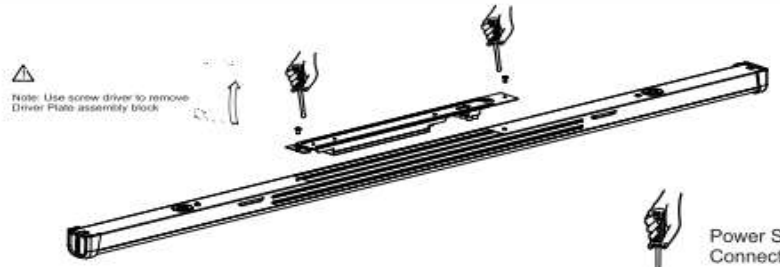
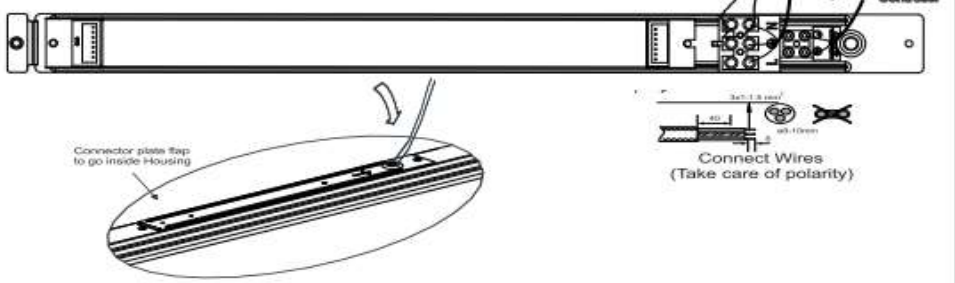


Mounting Instruction

Philips Endura Next Batten



DALI MODEL :

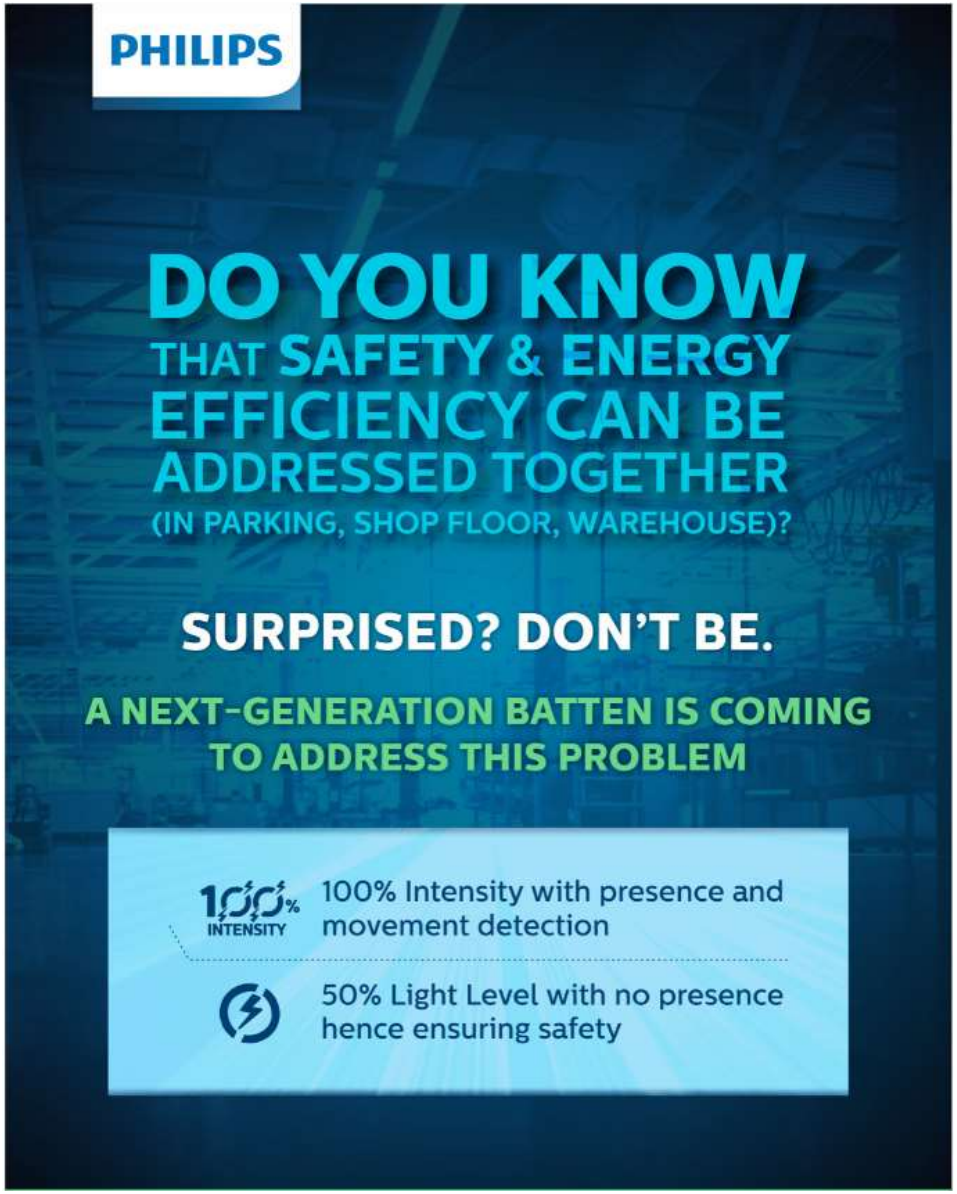


POE / POE ACTILUME MODEL :

1. Insert the Rj45 connector along with the CAT6 cable into the driver.
2. Put the free end of CAT6 cable in the Wire gripper clamp.
3. Pull out the other side of cable from the grommet provided.

RTB


PHILIPS
DO YOU KNOW
THAT FLICKER/STROBOSCOPIC OF LIGHTING CAN ADVERSELY IMPACT YOUR HEALTH?
Rapid change in intensity of light source known as flicker, can cause:
Headache
Neurological disorder: Photosensitive epilepsy
Sensitivity Autism
Performance reduction
WORRIED? DON'T BE.
A NEXT-GENERATION BATTEN IS COMING TO ADDRESS THIS PROBLEM


PHILIPS
DO YOU KNOW
THAT SAFETY & ENERGY EFFICIENCY CAN BE ADDRESSED TOGETHER
(IN PARKING, SHOP FLOOR, WAREHOUSE)?
SURPRISED? DON'T BE.
A NEXT-GENERATION BATTEN IS COMING TO ADDRESS THIS PROBLEM
100% INTENSITY
100% Intensity with presence and movement detection
50% Light Level with no presence hence ensuring safety

RTB


PHILIPS
DO YOU KNOW
THAT SUDDEN SPIKES & SURGE
CAN LEAD TO FAILURE OF
ELECTRONIC DEVICES?
WORRIED? DON'T BE.
A NEXT-GENERATION BATTEN IS COMING
TO ADDRESS THIS PROBLEM
High Low cut off circuit with auto restart facility which improves product life
Inbuilt 4KV Surge protection makes it more sturdy


PHILIPS
DO YOU KNOW
THAT A SOLUTION FOCUSING
ON A BASIC WATTAGE BASED
ENERGY SAVING
IS AN INEFFICIENT PROPOSITION
THINKING? WELL, LET US HELP YOU.
A NEXT-GENERATION BATTEN IS COMING
TO ADDRESS THIS PROBLEM
✓ POE and Wireless Enabled
✓ Dashboards: Health & Energy Monitoring
✓ Time Scheduling & Zoning
✓ Remote Management and Monitoring
✓ Daylight Harvesting
✓ Movement Detection and energy saving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