Signify

Getting connected with quality

LED Components

2019 Catalog



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Let's get connected

Signify's industry-leading innovation in LED electronics opens a wave of **connected lighting opportunities across mainstream applications.**

Our latest LED catalog proudly features an expansive innovation in Connected Lighting components. In 2020, we address compelling new use cases for Human Centric Lighting using our FlexTune (Tunable White) components, while offering Bluetooth-enabled EasySense Sensors paving the way to networked systems for advanced functionality.

Our Sensor-Ready (SR) compatible products (SR drivers, EasySense sensors) as well as 3rd party control devices such as sensors, and network communication devices unleash the potential of connectivity with open standards in a growing network of compatible partners.

Together with our innovation centers in Rosemont, IL, coupled with global R&D in Eindhoven and Shanghai, we will continue to collaborate on the foremost advancements in technology with our OEM customers and partners to deliver meaningful value propositions.

Our IES progress award-winning Advance Fortimo InstantFit field replaceable LED module offers a pioneering breakthrough towards an effortless serviceability of LED fixtures. The innovative range of Advance Xitanium DuraVolt LED drivers provides increased resilience towards power-line variations to deliver peace of mind and comfort to both end users and OEMs alike.

Our seasoned US-based Design-in Services team will work closely with our customers to prototype luminaires built with Advance or Bodine components by performing rigorous testing under the most demanding application conditions. Also, our suite of design-in tools can configure and facilitate ease of programming of a complete LED system to enable seamless workflow from design to product release.

Lastly, our commitment to a world class North American manufacturing and distribution footprint enables us to deliver superior value to our OEM customers by operating our supply chains to ensure best in class service levels.

We hope our catalogue inspires you, and we thank you for your continued trust.

Signify and you—let's get connected.



Dinesh Balan

Head of Marketing | Electronics | North America

Learn more at

www.signify.com/oemna

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Contents

OEM technology within Signify 6

OEM support tools

Business built on quality 8

API innovation 10

Component product families 12

Design-in services 14

My Technology Portal
One-stop support just a click away 16

Easy Design-in Tool
Making your work easier every day 18

MultiOne configuration software
Configure drivers, simple and fast 20

Configurability, commissioning and connectivity 22

LED components

LED systems 24

Just released 27
CertaMatch industrial high bay solution 28
CertaMatch troffer solution 29
FlexTune system 30

Advance Fortimo LED modules 32

Just released 35
Advance Fortimo edge 36
Advance Fortimo LED strip PR 37
Advance Fortimo LED strip ST 38
Advance Fortimo LED strip LV4 39
Advance Fortimo LED strip performance FlexTune LV5 40
Advance Fortimo LED strip value offer (VO) LV2 41
Advance Fortimo LED strip VO LV2 selectable white 42
Advance Fortimo LED strip EdgeLit (EL) 42
Advance Fortimo LED line high flux 43
Advance Fortimo LED line LV4 44
Fortimo InstantFit LV1 45
Advance Fortimo LED downlight module (DLM) L2 46
Advance Fortimo LED DLM EaseSelect (ES) 47
Advance Fortimo LED spotlight module (SLM) gen 7 48
Advance Fortimo FastFlex 50

Advance LED drivers 52

Just released / Coming soon 55
SimpleSet wireless programming technology 56
Catalog number explanation 57
CertaDrive indoor LED drivers 58
Xitanium indoor linear LED drivers 60
Xitanium drivers with ComfortFade 61
Xitanium linear LED driver dimensions 63
Xitanium indoor downlight and track LED drivers 64
Xitanium downlight LED driver dimensions 66
Xitanium outdoor and industrial LED drivers 67
Xitanium outdoor LED driver dimensions 71

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Connected 72

Just released ... 75
EasySense sensors ... 76
Apps ... 77
Xitanium SR LED drivers ... 78
Xitanium SR bridge ... 80
The SR certified partner program ... 81

Retail display lighting 82

Just released ... 85
Fortimo LEDFlex G1 ... 86
Advance InteGrade LED system gen 3 (premium white range) ... 88
Advance InteGrade LED system gen 3 (standard color range) ... 91
IntegGrade accessories and drivers ... 94
Philips CertaFlux RDL LED products ... 95
LED display modules RDL500 ... 97
LED display modules RDL510 ... 98

Bodine emergency lighting 100

Life safety code ... 103
Innovations for emergency lighting applications ... 104
LED emergency lighting for field installation ... 105
Emergency LED drivers ... 106
Integrated technologies ... 107
Inverters for emergency lighting applications ... 108
The patented dimming advantage ... 108
ELI-S-10 and ELI-S-20 emergency lighting inverter ... 109
ELI-S-10 10VA pure sine wave nano inverter ... 110
ELI-S-20 25VA sine wave inverter ... 111
Auxiliary applications ... 112
Enhanced energy-saving ... 113

Lighting definitions explained ... 114

Footnotes ... 115

Disclaimer ... 115



OEM LED catalog 2019
In this catalog you will find an overview of our LED innovations. We always strive for high quality, therefore your feedback is highly appreciated.

Dan Cozzo
Channel Marketeer – OEM
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Technology

We have been focusing on the LED market for over three decades and have a solid track record of technology leadership, combined with excellent application knowledge and market understanding. Prime activities include designing, developing and manufacturing LED drivers, modules and sensors for incorporation in new luminaires. Our extensive portfolio of LED products covers a wide range of luminaire applications.

Connected

Connected to you. The best Internet of Things (IoT) lighting platform requires advanced sensors, digital LED drivers, and a robust partners ecosystem to bring it life.

Designing a modern, IoT-enabled lighting system can be daunting. No matter where you are in this journey you can count on Signify to provide the most comprehensive and advanced LED electronics in the industry. We, along with our ecosystem of partners, help you to realize your vision from the ground up, starting with award-winning Advance Xitanium SR LED drivers that provide the digital foundation for the smart lighting system of the future.

Indoor

The indoor segment has been dominated for many years by linear lighting solutions.

This segment, which includes everything from commercial offices to educational spaces and retail/hospitality to health care, has always maintained a strong drive towards energy saving. Legislation and building regulations have driven the standards applicable on light quality, luminance and energy efficiency in a working environment and this has also highlighted the role of lighting controls. Our portfolio of lighting components consisting of highly efficient LED modules and drivers deliver what is needed.

Outdoor

Outdoor lighting encompasses a vast range of applications, including motorways, highways, residential areas, city centers and tunnel lighting.

The outdoor market is transforming fast and is also a forerunner in looking at how to use lighting control management systems. Here we have a diverse product portfolio available for luminaire manufacturers with a vast range of outdoor drivers, with a focus on reliability, configurability and connectivity.

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within Signify

We are responsible for the development of new light sources, drivers and controls for the luminaire market.

Industry

The industry segment covers an extensive range of applications such as warehouses, production areas and cold storage.

This segment has a strong drive towards energy saving and lower maintenance while enabling high quality and uniform lighting for optimum visual performance and comfort. This helps enable a more efficient and productive environment. Our module and driver portfolio enables cost effective and reliable systems for extreme application conditions. Used with controls, our lighting solutions provide illumination only when and where it is needed.

Retail display lighting

Lighting products, brightening faces. Product visibility and attractiveness helps create the ultimate shopping experience.

From food to fashion, retailers are in need of quality lighting solutions that not only can help them save energy and operating expenses, but enhance their merchandise to help drive point-of-sale conversions. Our portfolio has application specific solutions with a wide range of flexibility to address the diversity of this market, from freezer lighting, to chillers and coolers, to dry-shelf merchandising.

Emergency

Emergency lighting is an essential part of every facility's safety program.

When normal power fails for any reason, emergency lighting provides critical illumination. In fact, emergency lighting is required by state, local and national codes for commercial, industrial and institutional buildings in the United States. The emergency segment delivers manufacturers a broad portfolio of emergency lighting solutions designed to satisfy code and application requirements. Manufacturers can choose the right Bodine emergency LED driver or inverter for their fixtures and know they are providing their customers with quality and reliability they deserve.

signify.com/advance

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Every enduring business is built on quality

Being known for quality doesn't happen overnight – it's the result of countless decisions. For the few companies who achieve a reputation for quality, it's more than a goal. **It's a mindset.**



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Choosing the right lighting is just one business decision. To many, it may seem cosmetic. But for organizations with a quality mindset, it matters. By helping businesses create healthier, more efficient spaces, lighting can actually have a multiplier effect. But of course, to really move the needle, high quality LED components are essential.

Quality workplaces

In offices, LED lighting acts as a quality multiplier. Well designed office lighting is the foundation of any productive workplace. It provides the right light levels for any task, location and time of day, assuring visual comfort for every worker. In the bigger picture, office lighting brings contemporary workplaces to life.

When you're working with office customers to achieve all these objectives, our quality LED components bring your business a clear advantage. They're rigorously tested, making it faster and less risky to get new designs or systems off the ground. And we provide expert tools and Design-in Services to help you design the perfect office lighting that your customers deserve.

Quality industrial facilities

Improving factory and warehouse lighting can pay dividends in productivity and safety. With our complete portfolio of industrial LED components, you can create long-lasting lighting products and systems that help factories and warehouses achieve their objectives. You can also help move beyond them, improving the quality of their operations in other ways. Like providing unique lighting recipes that help industrial workers focus through subtle differences in color temperature and saturation. Or installing sensors and lighting controls so they can save energy by turning lights off in unused areas or dimming them during daylight hours.

When you're designing industrial lighting, Signify provides a powerful baseline with rigorous electrical, thermal, optical, reliability and safety testing of all our LED components.

Quality outdoor experiences

Not only are LEDs a shining example of high efficacy, durability and low maintenance, they also translate into energy and maintenance savings that reduce the total cost of ownership of an installation. They are also far more versatile than traditional light sources in terms of form factor, CCT, CRI and optical control.

We understand that you and your customers need to feel confidence that they have access to the highest quality products. Only a reliability program that spans the full cycle of lighting components.

Our LED components are rigorously tested so you can build quality lighting specifically designed for demanding outdoor conditions. You can also rely on robust performance in the most extreme conditions. So you can live up to the promise of long-lasting LED lighting for every installation.

Six qualities that set our components apart

Because quality isn't just one thing; it's many

Quality lighting

workspace, products, shelf life and wellbeing with research-proven lighting.

Quality assurance

Build a name for reliability using LED components that undergo a rigorous testing and assurance program.

Quality innovation

Open new opportunities for your customers with our lighting innovations.

Quality people

Get expert guidance and design advice from our industry experts and thought leaders.

Quality support

Count on us to support your business locally and globally with the right tools, technical and operational support both online and offline.

Quality leadership

Keep your designs compliant with standards-based and tested components.

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Is commercial lighting ready for an explosion of API-led innovation?



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Commercial lighting is no longer a world unto itself. It's poised to become part of the nervous system for smart cities and smart buildings, **thanks to standardized application programming interfaces (APIs) that will drive an explosion of innovation in connected lighting.**

The power of an open API

Innovation speeds up when you open your interface and let other innovators in. As we've seen in the smart home space with Philips Hue and Amazon Echo, a well-defined open API can lead to phenomenal growth. Today, Philips Hue has more than 700 third party integrations with the Hue API and is the world's leading connected lighting system for the home.

What about commercial lighting?

With open APIs reinventing the possible in people's homes, now it's commercial lighting's turn. Connected lighting is an enabler for visionary ideas about what the built environment can be. This is because the lighting grid can provide an intelligent infrastructure for the Internet of Things (IoT) and make smart cities and smart buildings a reality. As internet giants like Google and Amazon step up investment in these markets, we've taken our own important step forward: transitioning to open standards, including the sensor ready (SR) standard.

The sensor ready (SR) standard

The SR standard (adopted by both ANSI and DiiA) will do for the lighting industry what open APIs have done for the software industry. It will provide a standardized intra-luminaire foundation that any application developer can use to reach into lighting to unlock new value. **Prepare yourselves for a surge of innovation driven through lighting infrastructure.**

Smart cities

Intelligent LED streetlights are poised to become the central nervous systems for smart cities. It may sound futuristic, but it's already happening. This is because connected light poles can now act as communications nodes with sensors, software and controllers to gather and relay city data. Cities are realizing that once they've invested in connected street light infrastructure, they've built a platform for the IoT applications that will turn them into smart cities.

The SR standard paves the way for street lights to provide both a sophisticated data-collection infrastructure and an easy and future-proof integration point for IoT apps. Sensors mounted on light poles can report on everything from air quality, noise, light pollution, traffic congestion and garbage bins to parking availability.

With some help from developers, these new data flows can be surfaced to city authorities so they can take action. They can also trigger city responses automatically – think traffic signals that adjust dynamically to reduce congestion or lighting that self-optimizes to improve visibility and safety in bad weather. And of course, data analytics and artificial intelligence (AI) can be used to surface trends and patterns from this data to help cities optimize public resources and city services.

Cities are already adding these new capabilities. The city of Los Angeles, for example, is monitoring noise levels and the lighting power grid from street lights. And in Toronto, Google is working with city authorities to create a smart city proof-of-concept called Quayside. This sensor-enabled neighborhood aspires to harness the enormous data sets generated by urban living to improve city life.

Smart buildings

Lighting infrastructure can also act as the central nervous system of a smart building, unlocking many more opportunities for innovative applications. One among many is self-reporting emergency lighting systems. Another that looks very promising is using voice technology as an interface for people to interact with lighting. We're already seeing new ideas in this space with Amazon's Alexa for Business, which lets workers activate the right lighting and technology settings when they walk into a meeting room, simply by saying 'Alexa, start my meeting.'

What's next?

As the vision sharpens for smart cities and smart buildings, we are certain that the lighting industry's open standards will spark a thriving ecosystem for years to come. It's time to partner with big tech and other technology leaders to invent the future. With an intelligent fabric of integration points one day on every city street and every ceiling, the opportunities are limitless.

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Component product families

Integrated LED modules and drivers are your partners in performance.

Our portfolio of LED modules, drivers and emergency products cover a large range of your luminaire application requirements. We offer two component levels of drivers: the high-performance Advance Xitanium LED drivers and Advance CertaDrive LED drivers for more general lighting applications. Both can be used in combination with the high-performance Advance Fortimo LED modules that push the performance boundaries in high-end lighting applications, and are for your basic solutions in general lighting applications respectfully.

ADVANCE
by signify

Xitanium

LED drivers

The state-of-the-art Advance Xitanium LED drivers are robust and reliable, and are offered with a wide choice of operating windows. They are 'partners in performance' for Advance Fortimo LED modules and are now available with ComfortFade*. The drivers come in various form factors and are available for indoor and outdoor applications. The range comprises fixed light output and dimming versions as well as programmable drivers that provide the flexibility to configure the drivers at a later stage.

ADVANCE
by signify

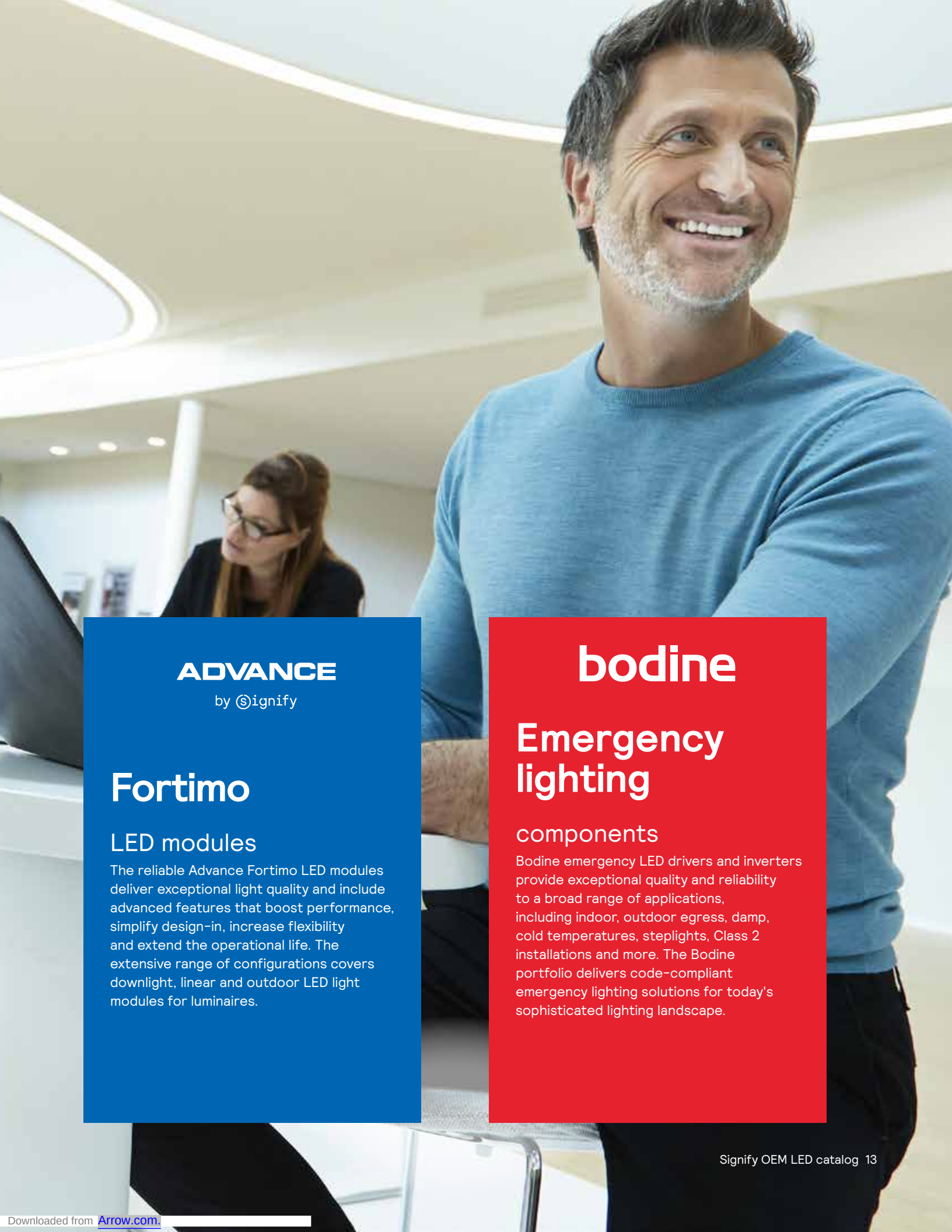
CertaDrive

LED drivers

Advance CertaDrive LED drivers are designed to meet your market needs for lighting components in general lighting applications. They are ideal for high-volume applications, as well as third-party LED modules. Offering basic specifications, such as specific current and voltage settings, the drivers come with a five-year limited system warranty[6] (module and driver).

* See page 59 for more information on ComfortFade

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ADVANCE
by signify

Fortimo

LED modules

The reliable Advance Fortimo LED modules deliver exceptional light quality and include advanced features that boost performance, simplify design-in, increase flexibility and extend the operational life. The extensive range of configurations covers downlight, linear and outdoor LED light modules for luminaires.

bodine

Emergency lighting

components

Bodine emergency LED drivers and inverters provide exceptional quality and reliability to a broad range of applications, including indoor, outdoor egress, damp, cold temperatures, steplights, Class 2 installations and more. The Bodine portfolio delivers code-compliant emergency lighting solutions for today's sophisticated lighting landscape.

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Design-in services

Here with you on **your path to success**

Our commitment

Our Design-In Services team is committed to supporting you with in-house capabilities and years of lighting expertise that help you validate your concepts faster. We are devoted to providing you with a personalized experience in achieving your goals. We want to be an extension to your team.

Get access to:

- In-depth product knowledge on LED systems
- Global network of independent third party test and approbation labs (for LM-79, ISTM, CISPR15)
- Tools and software that increase design efficiency in every stage of your luminaire development

We also:

- Develop product design-in and troubleshooting guides
- Play a key role in shaping the specifications for future generations of products
- Support alpha and beta testing of pro

A non-disclousure agreement can be provided upon request.

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The design-in process

Learn how easy it is to take advantage of our design-in capabilities through our process infographic below.

1



Connect with your business development manager

2

How can we support?
Application conditions?
Relevant standards?
Dimming desired?
Can we modify the luminaire?



Business development manager fills in the design-in request form with you

3



Business development manager connects with the design-in team

4





Share your design for simulation or ship your luminaire to our design-in facility

5



The simulation/prototype is created and measurements are taken by the design-in team

6





The design-in report is issued and discussed

7



Prototype is shipped back to you

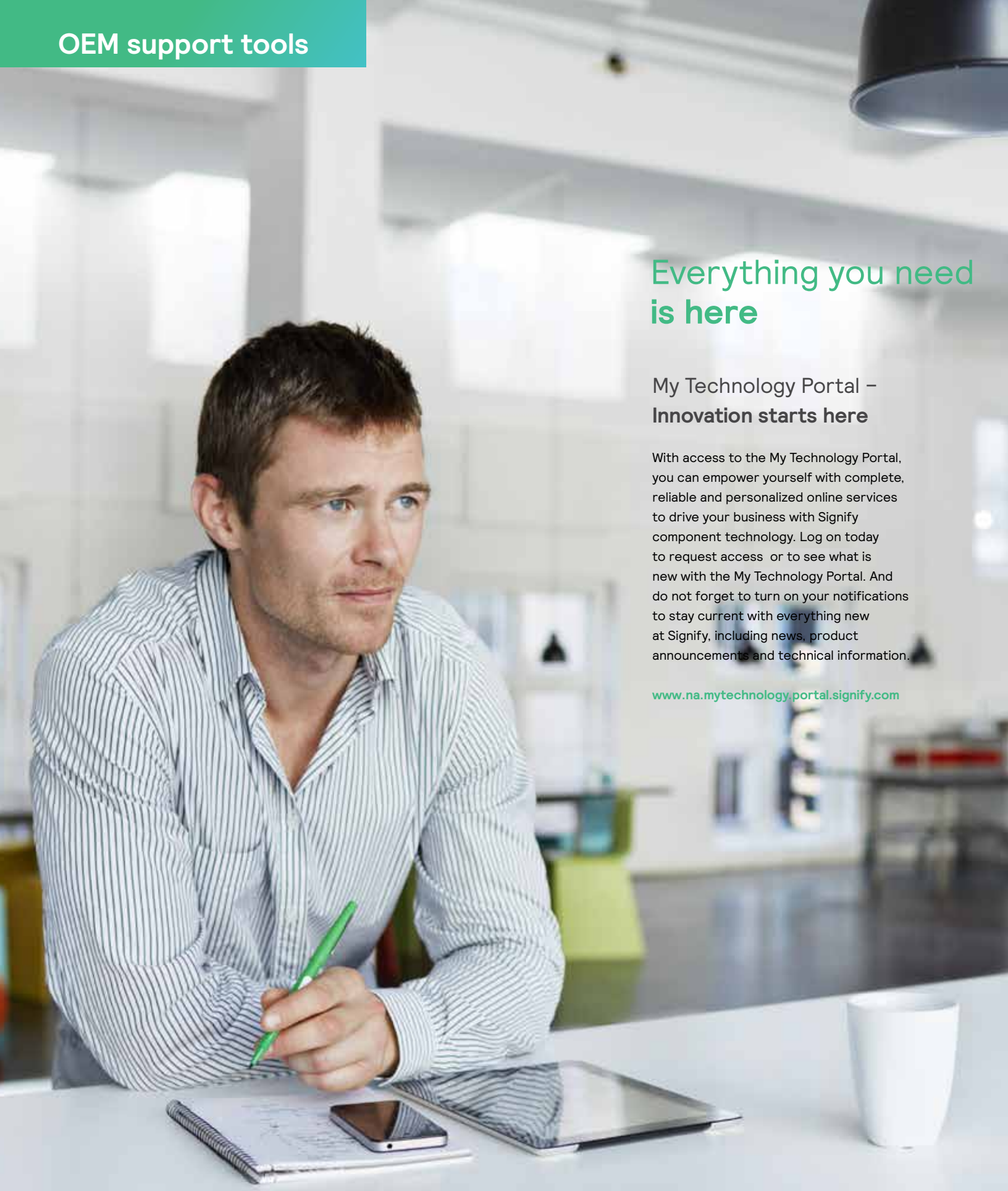
The team



Questions?

Contact your local Signify Sales Representative or visit **www.signify.com/designinna** for more information.

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Everything you need **is here**

My Technology Portal – **Innovation starts here**

With access to the My Technology Portal, you can empower yourself with complete, reliable and personalized online services to drive your business with Signify component technology. Log on today to request access or to see what is new with the My Technology Portal. And do not forget to turn on your notifications to stay current with everything new at Signify, including news, product announcements and technical information.

www.na.mytechnology.portal.signify.com

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24/7 access to these support tools:

Download center

Complete access to all of the commercial and technical documentation you need for our lighting projects.

Knowledge center

Access our latest videos on product offerings, how-to's, and interviews with product experts.

Product news

Stay current with all of the latest lighting component innovations we have to offer.

Easy Design-in Tool

Enhanced access to the LED Easy Design-in Tool with extended features to help you quickly find all the information to design your project.

News

Articles, event information and other market specific insights.

MyLighting Portal

Access to the MyLighting Portal where you can check; order status, shipping and tracking, order confirmation, price files and print invoices.

To stay current with all Signify related activities and new innovation register or log-on to the My Technology Portal today!

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Easy Design-in Tool (EDIT)

Making your work **easier every day**

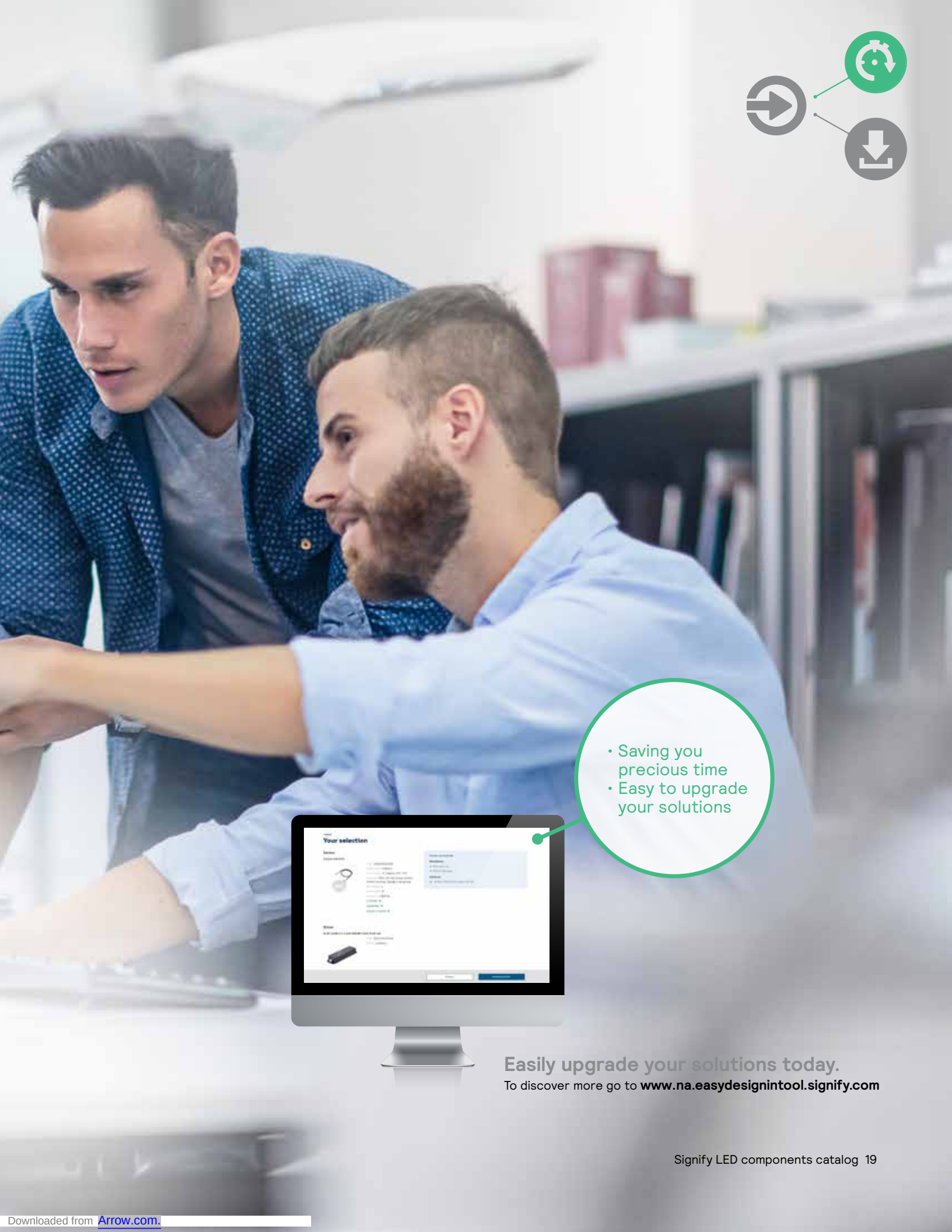
With the Easy Design-in Tool (EDIT), you can visualize your desired solution with your specifications in mind and quickly design it in minutes. That's how EDIT enhances your experience in designing an LED system.

Design in minutes
Start with a module, driver, or system, then use filters and click calculate to narrow down the options. The Easy Design-in Tool makes designing an LED system easier than ever.

Visualize your solution
With just a few clicks, you can instantly visualize your solutions with a summary of your newly designed LED system. Connect the right components with just a click of a button.

Customize your experience
Log into our Easy Design-in Tool through the My Technology Portal and benefit from a higher degree of customization. There you are able to compare difference options, download results to a local file, and much more.

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Easily upgrade your solutions today.

To discover more go to **www.na.easydesignintool.signify.com**

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Configure devices, simple and fast

With the the intuitive MultiOne Configuration System, you can meet specific application requirements with a limited portfolio of configurable devices. Depending on the type of device, driver and/or sensor, a combination of features can be configured to create diversity, security and savings.

MultiOne Express Configurator

Fast and simple to configure!

MultiOne Express is a fast and simple way to adjust the output current and 0 to 10V linear minimum dim level on Advance Xitanium LED drivers without a feature file!

- Supports adjustable output current (AOC) and minimum dim level
- Supports SimpleSet
- Supports direct label print

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MultiOne configuration system



MultiOne engineering
Used to read and configure devices, and to create Feature files which can be used by MultiOne Workflow.

MultiOne workflow
Used to automate the configuration process d uring any stage of the manufacturing process.

Configuration tool
Hardware used to communicate with devices.

Configurable devices
- Xitanium LED drivers
- EasySense sensors

Benefits

✓ Flexibility

Because the tool can access features built into the driver or sensor, you're free to configure your devices to meet specific requirements. This enables optimized installations, last minute changes, easy diagnostics and maintenance.

✓ Innovative

We bring innovation to your organization by allowing you to wirelessly configure our sensors and drivers using our SimpleSet technology

Configurable features

✓ Functionality

- adjustable output current
- adjustable light output
- adjustable startup time
- end of life indication

✓ Security

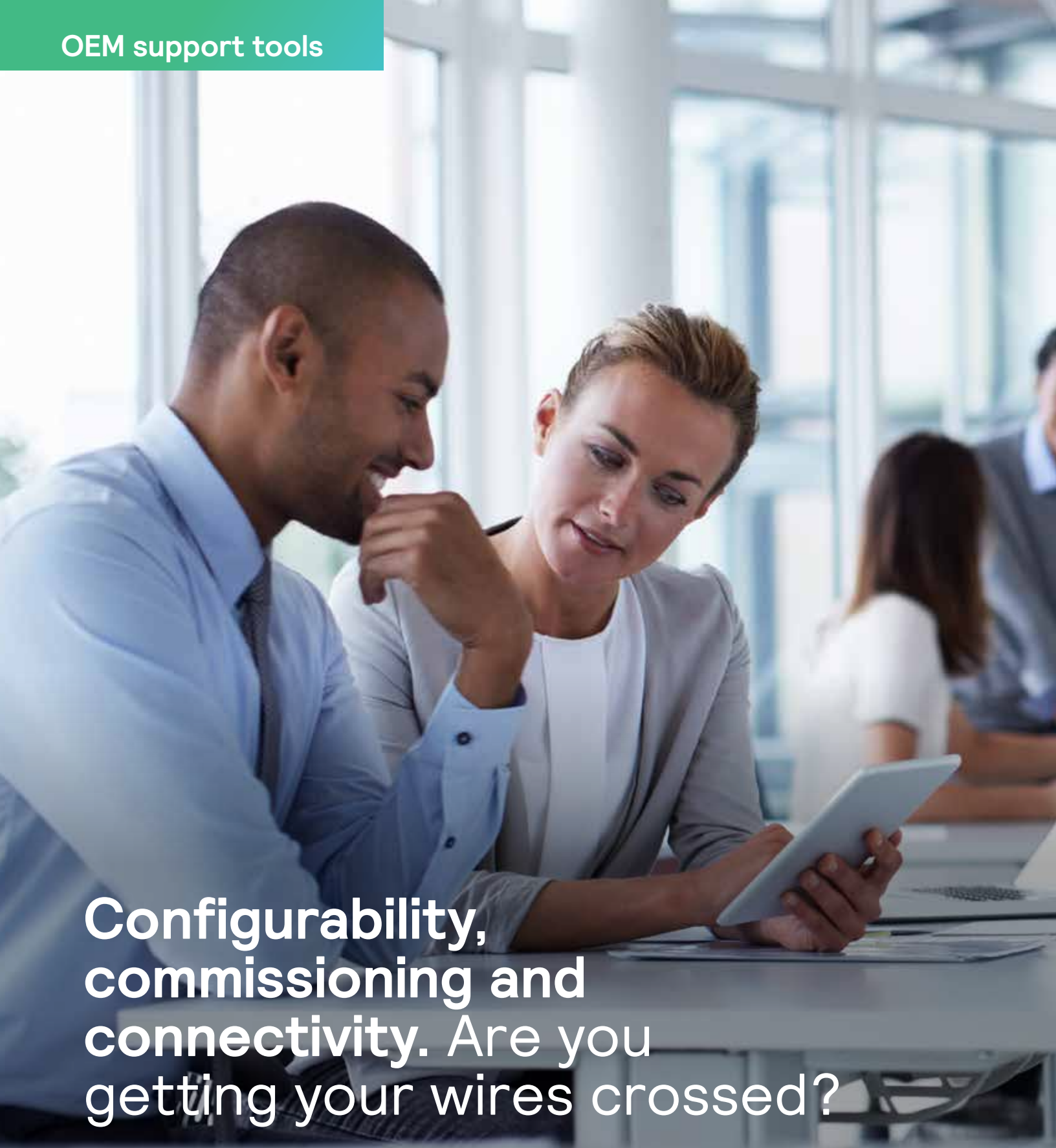
- module temperature protection
- driver temperature limit
- active cooling
- DC emergency
- OEM write protection
- OEM traceability

✓ Savings

- constant light output
- energy meter
- dimming interface
  - 1-10 V dim level
  - AmpDim
  - LumiStep
  - DynaDimmer
  - corridor mode
  - touch and dim

For more information visit **signify.com/multione**

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Configurability, commissioning and connectivity. Are you getting your wires crossed?

Lighting technology is evolving at a rapid pace, bringing exciting possibilities for OEMs and their customers. But with so many new introductions and features, there is a lot of new terminology to understand.

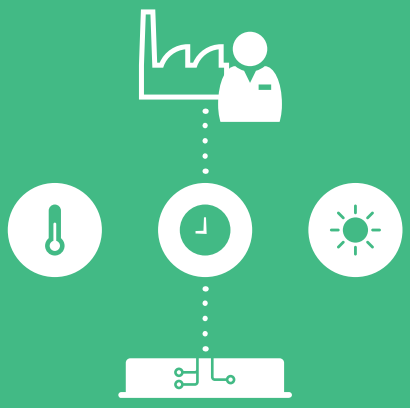
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Configurability

This refers to a device's feature(s) which can be configured during the manufacturing process using DALI or SimpleSet technologies. Some of the configurable features are:

- adjustable Output Current for the LED module
- corridor mode with light levels and fade-time settings for presence detection
- DynaDimmer for autonomous light levels and timers for outdoor dimming
- LineSwitch for light levels, ramp up and fade down with central outdoor control
- DC-emergency for light levels when mode switches to central battery during mains failure
- start-up time to gradually increase light levels at switch on
- module temperature protection for over-temperature conditions
- driver temperature limit to protect driver at over-temperature.

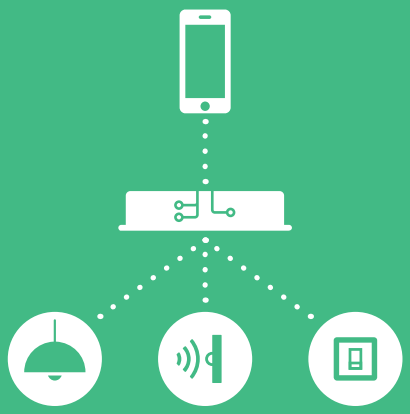


Commissioning

This refers to grouping capabilities which can be set after a lighting solution has been installed. Using a portable device with infrared capabilities the following can be linked and commissioned:

- drivers
- luminaires
- switches
- sensors.

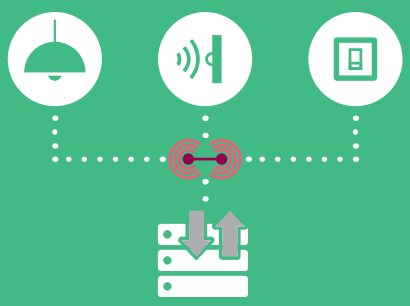
This enables you to tailor a lighting installation, setting discrete lighting zones and parameters within one location to suit a range of different needs.



Connectivity

This refers to **the wireless connection** between drivers, luminaires, switches and sensors. The Zigbee language of connected lighting enables you to:

- create new ways to use light
- download and upload information
- improve comfort and convenience
- save energy.



Any other questions? Contact your local Signify sales representative or visit signify.com/oemna

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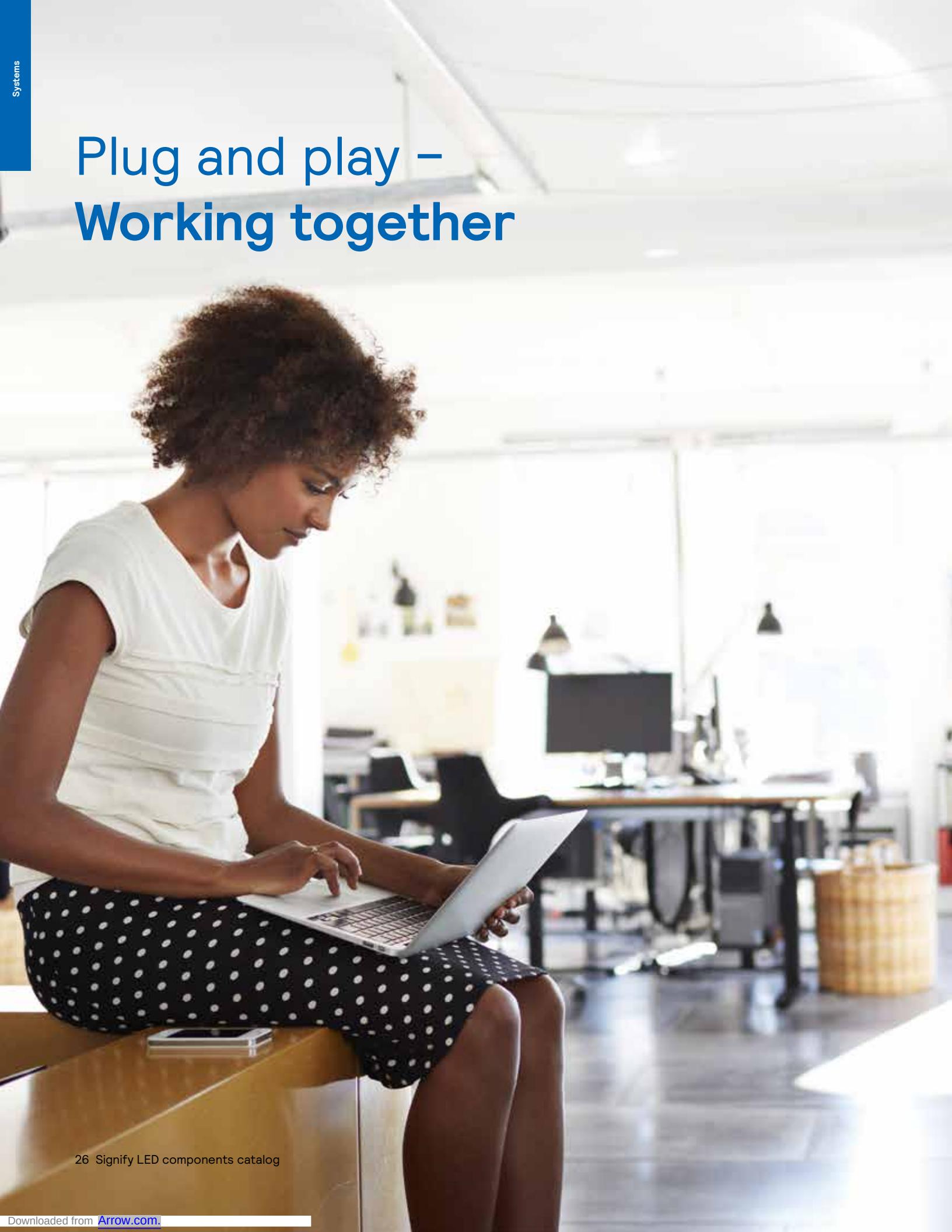


Systems

Perfectly paired turn key solutions

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Plug and play – **Working together**



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New-to-market **LED innovations**

CertaMatch troffer and industrial high bay solutions

Troffer solution:

CertaDrive gen 2 LED driver + Fortimo VO LV2 LED module

The new Advance CertaDrive gen 2 LED driver is designed to pair perfectly with the Fortimo LED strip VO LV2 module, no programming necessary. This paired solution is ready out of the box with the quality and reliability that is synonymous with the Advance and Fortimo names.

High bay solution:

Advance Xitanium edge driver + Fortimo edge module

The Advance CertaMatch high bay system pairs an Advance Xitanium edge driver with Fortimo edge modules for a fully integrated solution. Ideal for high-volume stock and flow fixtures.

FlexTune system (module/driver):

Fortimo FlexTune LED modules + Advance Xitanium SR FlexTune 40W digital LED driver

Together they provide greater design flexibility, control precision, and simplicity for applications that require color tuning capability. Through open-standard Sensor Ready (SR) digital interface, you have the added freedom to chose SR-certified lighting control options to work with the FlexTune system.

Suitable for:

Indoor Industry

For further information visit signify.com/oemna

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CertaMatch industrial high bay solution

The CertaMatch industrial high bay solution perfectly pairs drivers and modules to efficiently and cost effectively supply fixtures with high quality, premium efficiency level light even at extreme application conditions and height.

Suggested system pairings

Lumens	CCT	Modules	Driver	LOR	LPW
24K	5000	4x Fortimo edge 21.5in 6150 850 LV 1	XI190C275V054BSG1	90	>130
22K	5000	4x Fortimo edge 21.5in 6150 850 LV 1	XI150C210V050CNF2	90	>130
18K	5000	2x Fortimo edge 21.5in 9900 850 LV1	XI126C129V050CNF2	90	>130
12K	5000	2x Fortimo edge 21.5in 6150 850 LV1	XI095C210V050CNS2	90	>130
10K	5000	2x Fortimo edge 21.5in 6150 850 LV1	XI075C160V050CNS2	90	>130

www.signify.com/certamatch

easy design-in tool

You can also visit the Easy Design-in Tool to create more combinations with other LOR's, CCT's, or LPW's.
To discover more go to **www.na.easydesignintool.signify.com**

Suitable for:

Industry

For further information visit signify.com/oemna

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CertaMatch troffer solution

The Fortimo strip VO LV2 and CertaDrive gen 2 have been designed to create off the shelf troffer solutions. These systems are ideal for entry level stock and flow luminaries, and enable customers to quickly create North American sourced solutions.

Suggested system pairings

Lumens	CCT	Modules	Driver	LOR	LPW
4800	3500	2x Fortimo LED Strip VO 44 in 4200 835 LV2	CI041C087V048CNN2	85	>115
4000	3500	2x Fortimo LED Strip VO 44 in 4200 835 LV2	CI036C075V048CNN2	85	>120
3200	3500	2x Fortimo LED Strip VO 22 in 2100 835 LV2	CI029C060V048CNN2	85	>100
4800	4000	2x Fortimo LED Strip VO 44 in 4200 840 LV2	CI041C087V048CNN2	85	>115
4000	4000	2x Fortimo LED Strip VO 44 in 4200 840 LV2	CI036C075V048CNN2	85	>120
3200	4000	2x Fortimo LED Strip VO 22 in 2100 840 LV2	CI029C060V048CNN2	85	>100

www.signify.com/certamatch

easy design-in tool

You can also visit the Easy Design-in Tool to create more combinations with other LOR's, CCT's, or LPW's.
To discover more go to **www.na.easydesignintool.signify.com**

Suitable for:

Indoor

For further information visit signify.com/oemna

Note: Some modules may be driven below the nominal current.
This decreases the total lumen output, but increases the efficency.

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FlexTune system

Unmatched design flexibility and control precision

An all-digital tunable white solution for commercial applications

For the indoor application, a cost-effective option to incorporate wireless digital control is to use the Advance Xitanium SR LED driver in combination with the Advance FlexTune system provides a new level of design flexibility, control precision, and simplicity for the tunable white lighting system for the commercial applications such as commercial office, healthcare, hospitality, and education.



This system includes a 40W digital LED driver with Sensor Ready (SR) interface, a portfolio of matching LED modules, and a fixture-mounted sensor based on the Philips EasySense platform or compatible SR-certified third-party networked lighting control solutions.

It can also be easily paired with third-party LED modules and/or SR-certified network lighting control (NLC) solutions.

Key highlights include:

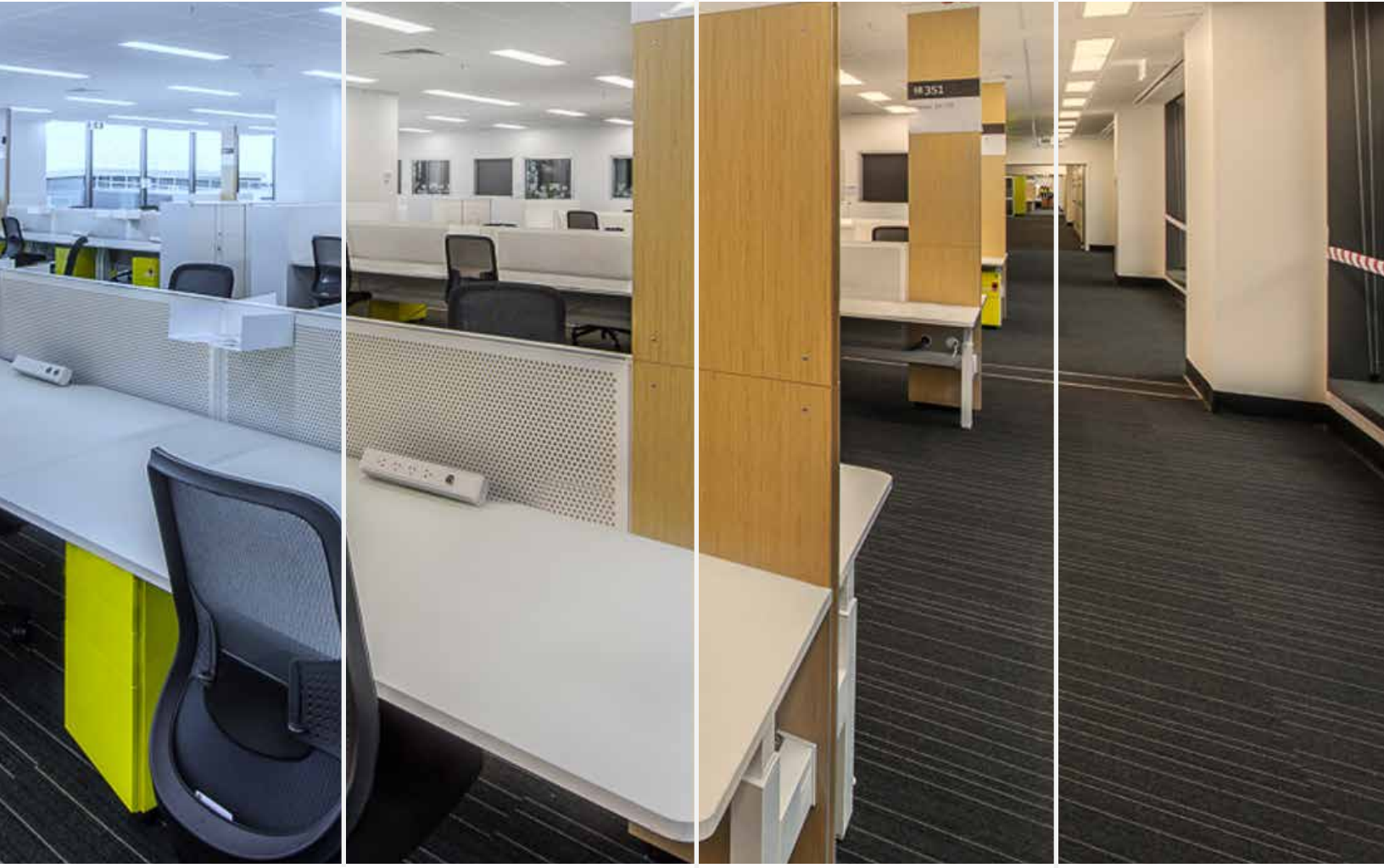
- Digital wireless control designed to provide precise CCT tuning and dimming control
- Color consistency down to 1% minimum dimming and conform to the NEMA 77-2017 flicker specification
- Multiple LED module options that support a wide variety of performance requirements
- Digital interface that opens up a full ecosystem of compatible wireless lighting control devices/architectures

Suitable for:

Office Industry

For further information visit philips.com/oemna

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LED modules

- 2,700K to 6,500K
- 3SDCM
- 5.5in, 11in, 22in, 23.7in
- Connectors at both ends to enable daisy chaining
- High ESD rating (>8kV) for easy handling



Fortimo LED strip PR LV5 FlexTune module

LED driver

- 40W
- 1% minimum dim level
- UL Class 2
- Digital control of dimming and color temperature (DALI 209, Device Type 8)
- DALI-2 ready
- Compatible with SR-certified NLC solutions



Advance Xitanium SR FlexTune LED driver

LED lighting sensor/controller

Philips EasySense

- Wireless Zigbee control
- Bluetooth control via iOS/Android smartphones
- Standalone (no gateway) or network-based control option through third-party Zigbee gateway



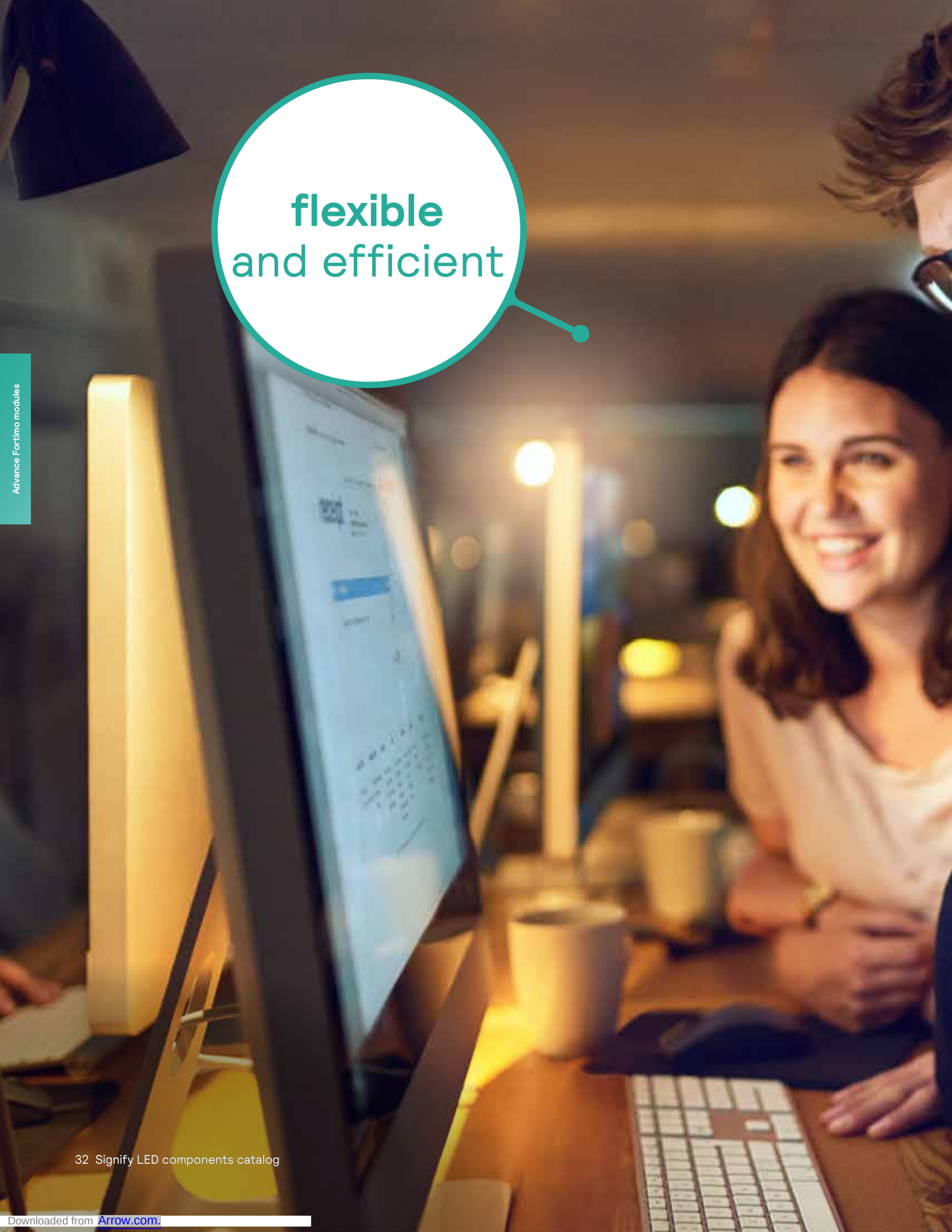
Philips EasySense sensor

Third-party SR-certified NLC solutions

- Local or remote control
- Power metering
- Remote monitoring and diagnostics

SR CERTIFIED

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ADVANCE
by signify

Advance Fortimo modules

Working in the light of common sense

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Because people **work better in well-lit spaces**

flexible and efficient

Linear

Advance Fortimo LED line
Designed to replace fluorescent lighting in new luminaires for general lighting applications in office, retail, and industry.

Advance Fortimo LED line high flux high temperature
Ideal for application at elevated installation heights and increased application temperatures where more light is needed, such as high-bay applications.

Advance Fortimo LED strip
Enabling design of high-performance slim linear LED luminaires, not possible with fluorescent lighting or Advance Fortimo LED Line.

Advance Fortimo LED strip value offer
Enabling economic fixture design meeting standard or premium efficacy requirements requirements for linear LED applications like troffers replacing T8 lamp equivalents.

Advance Fortimo edge
Designed to provide top performance for high lumen and high temperature applications such as high-bay linear systems

Advance Fortimo LED strip EdgeLit (EL)
Designed to enable slim and uniform architectural lighting applications like suspended panel LED luminaires

Point

Advance Fortimo DLM flex L2 G2 DS
Provides the ease of switching defined flux levels via a dip switch on board while still allows tuning the models through Advance Xitanium LED drivers with SimpleSet technology. Available in CRI 80 and 90 models.

Advance Fortimo DLM EaseSelect
Integrated module with a 0-10V 1% dimmable driver inside, enabling speed on design, assembly and installation.

Advance Fortimo SLM gen 7
Quality of light and performance in a chip-on-board design, ideal for architectural and retail lighting applications.

Outdoor

Advance Fortimo FastFlex gen 3
Designed for OEMs looking for a “one-stop shop” where board and lenses are provided to help support a short fixture development cycle while enabling good optical flexibility with FastFlex’s eight standard light distributions.

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Nick Pomazak
Product Marketeer

Just released!

New-to-market LED innovations. For more information, please visit **signify.com/ledmodulesna**

Advance Fortimo InstantFit LV1 replaceable LED modules



Fortimo InstantFit LV1 is the first truly field replaceable module. This revolutionary breakthrough ensures that an LED troffer containing it does not have to be scrapped on account of the light source. Replace simply by snapping into connector on the fixture. This enables late stage fixture configuration at factory, RDC, distributor, or even in the field. Fortimo InstantFit LV1 comes with a range of performance levels both in 2ft and 4ft options; and the rigid aluminum frame provides excellent thermal performance and ease of assembly.

Fortimo InstantFit was recognized by the Illuminating Engineering Society as a unique an significant advancement to the art and science of lighting.

2019 PROGRESS Report SELECTION

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo edge

Part of a perfectly paired CertaMatch system of Advance industrial/high bay drivers and modules, provides optimal cost and reliability with premium performance level in extreme application conditions and application heights.



Product information (LV1)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001749513	Fortimo Edge 21.5in 6150lm 830 LV1	5730	154	80	3000	85
929001749613	Fortimo Edge 21.5in 6150lm 835 LV1	5960	160	80	3500	85
929001749713	Fortimo Edge 21.5in 6150lm 840 LV1	6160	166	80	4000	85
929001749813	Fortimo Edge 21.5in 6150lm 850 LV1	6160	166	80	5000	85
929001749913	Fortimo Edge 21.5in 8000lm 830 LV1	7330	153	80	3000	85
929001750013	Fortimo Edge 21.5in 8000lm 835 LV1	7630	159	80	3500	85
929001750113	Fortimo Edge 21.5in 8000lm 840 LV1	7880	165	80	4000	85
929001750213	Fortimo Edge 21.5in 8000lm 850 LV1	7880	165	80	5000	85
929001750313	Fortimo Edge 21.5in 9900lm 830 LV1	9100	153	80	3000	85
929001750413	Fortimo Edge 21.5in 9900lm 835 LV1	9470	160	80	3500	85
929001750513	Fortimo Edge 21.5in 9900lm 840 LV1	9790	165	80	4000	85
929001750613	Fortimo Edge 21.5in 9900lm 850 LV1	9790	165	80	5000	85

Module driver compatibility

The Advance Fortimo edge module is compatible with the fixed current Advance edge driver or with Advance Xitanium driver. The edge driver is a fixed current driver that pairs with the edge module without programming. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output efficacy and lifetime.

Suitable for:

Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED strip PR

Advance Fortimo LED strips are the workhorses in our linear modules portfolio. The PR performance tier offers the perfect combination of high efficiency that lasts (to enable good total cost of ownership) with a slim form factor that is easy to design into a multitude of luminaires.

RoHS COMPLIANT [2] [3] Zhaga [4]



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001759613	FO Strip PR 5.5 550lm 830 LV5	530	171	3000	80	85
929001759713	FO Strip PR 5.5 550lm 835 LV5	530	171	3500	80	85
929001759813	FO Strip PR 5.5 550lm 840 LV5	530	171	4000	80	85
929001759913	FO Strip PR 5.5 550lm 850 LV5	530	171	5000	80	85
929001760413	FO Strip PR 11in 1100lm 830 LV5	1060	171	3000	80	85
929001760513	FO Strip PR 11in 1100lm 835 LV5	1060	171	3500	80	85
929001760613	FO Strip PR 11in 1100lm 840 LV5	1060	171	4000	80	85
929001760713	FO Strip PR 11in 1100lm 850 LV5	1060	171	5000	80	85
929001761213	FO Strip PR 22in 2200lm 830 LV5	2110	171	3000	80	85
929001761313	FO Strip PR 22in 2200lm 835 LV5	2110	171	3500	80	85
929001761413	FO Strip PR 22in 2200lm 840 LV5	2110	171	4000	80	85
929001761513	FO Strip PR 22in 2200lm 850 LV5	2110	171	5000	80	85
929001762013	FO Strip PR 23.7in 2200lm 830 LV5	2110	171	3000	80	85
929001762113	FO Strip PR 23.7in 2200lm 835 LV5	2110	171	3500	80	85
929001762213	FO Strip PR 23.7in 2200lm 840 LV5	2110	171	4000	80	85
929001762313	FO Strip PR 23.7in 2200lm 850 LV5	2110	171	5000	80	85

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium driver windows offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED strip ST

Advance Fortimo LED strip ST (statement) module is the ideal choice for high-performance high-quality luminaires for direct and indirect lighting in offices, banks, schools, public buildings, supermarkets and other applications.

RoHS COMPLIANT [2] [3] Zhaga [4]



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001762813	FO Strip ST 5.5in 1000lm 830 LV5	950	172	3000	80	85
929001762913	FO Strip ST 5.5in 1000lm 835 LV5	950	172	3500	80	85
929001763013	FO Strip ST 5.5in 1000lm 840 LV5	950	172	4000	80	85
929001763113	FO Strip ST 5.5in 1000lm 850 LV5	950	172	5000	80	85
929001763213	FO Strip ST 11in 2000lm 830 LV5	1900	172	3000	80	85
929001763313	FO Strip ST 11in 2000lm 835 LV5	1900	172	3500	80	85
929001763413	FO Strip ST 11in 2000lm 840 LV5	1900	172	4000	80	85
929001763513	FO Strip ST 11in 2000lm 850 LV5	1900	172	5000	80	85
929001763613	FO Strip ST 22in 4000lm 830 LV5	3800	172	3000	80	85
929001763713	FO Strip ST 22in 4000lm 835 LV5	3800	172	3500	80	85
929001763813	FO Strip ST 22in 4000lm 840 LV5	3800	172	4000	80	85
929001763913	FO Strip ST 22in 4000lm 850 LV5	3800	172	5000	80	85
929001764013	FO Strip ST 23.7in 4000lm 830 LV5	3800	172	3000	80	85
929001764113	FO Strip ST 23.7in 4000lm 835 LV5	3800	172	3500	80	85
929001764213	FO Strip ST 23.7in 4000lm 840 LV5	3800	172	4000	80	85
929001764313	FO Strip ST 23.7in 4000lm 850 LV5	3800	172	5000	80	85

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium driver windows offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED strip LV4

Advance Fortimo LED strips are the workhorses in our linear modules portfolio. They offer the perfect combination of high efficiency that lasts (to enable good total cost of ownership) with a slim form factor that is easy to design into a multitude of luminaires. As a consequence, they have been growing rapidly in popularity for nearly all indoor general lighting applications.

RoHS COMPLIANT [2] [3] Zhaga [4]



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929000775813	LED Strip 0.5ft 550lm 927 NA LV4	410	133	2700	90	80
929000775913	LED Strip 0.5ft 550lm 930 NA LV4	430	141	3000	90	80
929000776013	LED Strip 0.5ft 550lm 935 NA LV4	440	145	3500	90	80
929000776113	LED Strip 0.5ft 550lm 940 NA LV4	450	148	4000	90	80
929000776613	LED Strip 1ft 1100lm 927 NA LV4	810	133	2700	90	80
929000776713	LED Strip 1ft 1100lm 930 NA LV4	860	141	3000	90	80
929000776813	LED Strip 1ft 1100lm 935 NA LV4	880	145	3500	90	80
929000776913	LED Strip 1ft 1100lm 940 NA LV4	900	148	4000	90	80
929000777413	LED Strip 2ft 2200lm 927 NA LV4	1620	133	2700	90	80
929000777513	LED Strip 2ft 2200lm 930 NA LV4	1720	141	3000	90	80
929000777613	LED Strip 2ft 2200lm 935 NA LV4	1770	145	3500	90	80
929000777713	LED Strip 2ft 2200lm 940 NA LV4	1800	148	4000	90	80
929000778213	LED Strip 24in 2200lm 927 NA LV4	1620	133	2700	90	80
929000778313	LED Strip 24in 2200lm 930 NA LV4	1720	141	3000	90	80
929000778413	LED Strip 24in 2200lm 935 NA LV4	1770	145	3500	90	80
929000778513	LED Strip 24in 2200lm 940 NA LV4	1800	148	4000	90	80
929000777613	LED Strip 4ft 4400lm 830 NA LV4	4130	170	3000	80	80
929000777713	LED Strip 4ft 4400lm 835 NA LV4	4260	175	3500	80	80
929000778813	LED Strip 4ft 4400lm 840 NA LV4	4350	179	4000	80	80
929000778913	LED Strip 4ft 4400lm 850 NA LV4	4390	181	5000	80	80
929000779013	LED Strip 4ft 4400lm 927 NA LV4	3250	133	2700	90	80
929000779113	LED Strip 4ft 4400lm 930 NA LV4	3430	141	3000	90	80
929000779213	LED Strip 4ft 4400lm 935 NA LV4	3540	145	3500	90	80
929000779313	LED Strip 4ft 4400lm 940 NA LV4	3610	148	4000	90	80
929000779813	LED Strip 4ft 8000lm 830 NA LV4	7560	163	3000	80	80
929000779913	LED Strip 4ft 8000lm 835 NA LV4	7800	168	3500	80	80
929000780013	LED Strip 4ft 8000lm 840 NA LV4	7950	171	4000	80	80
929000780113	LED Strip 4ft 8000lm 850 NA LV4	8040	173	5000	80	80

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium driver windows offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED strip performance FlexTune LV5

Advance Fortimo LED strip performance FlexTune LV5 modules are the preferred light source for the Advance FlexTune system; which provides new level of design flexibility, control precision, and simplicity in tunable white lighting systems for commerical office, healthcare, hospitality, and education applications

RoHS COMPLIANT [2] [3] Zhaga [4]



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001764413	FO Strip PR FT 5.5in 550lm 827-865 LV5	510	165-180	2700-6500	80	85
929001764513	FO Strip PR FT 11in 1100lm 827-865 LV5	1020	165-180	2700-6500	80	85
929001764613	FO Strip PR FT 22in 2200lm 827-865 LV5	2040	165-180	2700-6500	80	85
929001764713	FO Strip PR FT 23.7in 2200lm 827-865 LV5	2040	165-180	2700-6500	80	85

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium driver windows offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

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Advance Fortimo LED strip value offer (VO) LV2

Advance Fortimo LED strip module value offer (VO) is designed to enable cost breakthrough in recessed ambient LED lighting applications. With its optimized design and high overdrive capability of up to 1,100 lm/ft, it offers high design flexibility to lighting fixture manufacturers, and the module's cost provides excellent price-per-lumen value. With module efficacies of up to 150 lm/W, CRI80, 3SDCM color consistency, 50,000-hour life[1] and a five-year limited system warranty[6], Advance Fortimo LED strip VO is designed to meet all the basic needs of indoor linear lighting applications for maximum customer satisfaction.



Product information (LV2 troffer systems)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001750713	Fortimo LED Strip VO 22in 2100lm 830 LV2	1920	135	3000	80	80
929001750813	Fortimo LED Strip VO 22in 2100lm 835 LV2	2020	142	3500	80	80
929001750913	Fortimo LED Strip VO 22in 2100lm 840 LV2	2050	145	4000	80	80
929001751013	Fortimo LED Strip VO 22in 2100lm 850 LV2	2050	145	5000	80	80
929001751113	Fortimo LED Strip VO 22in 4200lm 830 LV2	3830	135	3000	80	80
929001751213	Fortimo LED Strip VO 22in 4200lm 835 LV2	4040	142	3500	80	80
929001751313	Fortimo LED Strip VO 22in 4200lm 840 LV2	4110	145	4000	80	80
929001751413	Fortimo LED Strip VO 22in 4200lm 850 LV2	4110	145	5000	80	80
929001751513	Fortimo LED Strip VO 22in 6250lm 830 LV2	5750	135	3000	80	80
929001751613	Fortimo LED Strip VO 22in 6250lm 835 LV2	6060	142	3500	80	80
929001751713	Fortimo LED Strip VO 22in 6250lm 840 LV2	6160	145	4000	80	80
929001751813	Fortimo LED Strip VO 22in 6250lm 850 LV2	6160	145	5000	80	80
929001751913	Fortimo LED Strip VO 44in 4200lm 830 LV2	3830	135	3000	80	80
929001752013	Fortimo LED Strip VO 44in 4200lm 835 LV2	4040	142	3500	80	80
929001752113	Fortimo LED Strip VO 44in 4200lm 840 LV2	4110	145	4000	80	80
929001752213	Fortimo LED Strip VO 44in 4200lm 850 LV2	4110	145	5000	80	80
929001752313	Fortimo LED Strip VO 44in 8400lm 830 LV2	7670	135	3000	80	80
929001752413	Fortimo LED Strip VO 44in 8400lm 835 LV2	8080	142	3500	80	80
929001752513	Fortimo LED Strip VO 44in 8400lm 840 LV2	8220	145	4000	80	80
929001752613	Fortimo LED Strip VO 44in 8400lm 850 LV2	8220	145	5000	80	80
929001752713	Fortimo LED Strip VO 44in 12500lm 830 LV2	11500	135	3000	80	80
929001752813	Fortimo LED Strip VO 44in 12500lm 835 LV2	12120	142	3500	80	80
929001752913	Fortimo LED Strip VO 44in 12500lm 840 LV2	12330	145	4000	80	80
929001753013	Fortimo LED Strip VO 44in 12500lm 850 LV2	12330	145	5000	80	80

Module driver compatibility

The Advance Fortimo VO LV2 module is compatible with the fixed current Advance CertaDrive gen 2 driver or with Advance Xitanium driver. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output efficacy and lifetime.

Suitable for:

Indoor

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Advance Fortimo LED strip VO LV2 selectable white

Fortimo LED strip value offer (LED strip VO) is designed to meet all the basic needs of recessed ambient lighting applications, with excellent price per lumen value and high design flexibility. The selectable white feature enables late stage configuration and saves warehouse space by providing a choice of 3 color temperatures from one module.



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001756313	Fortimo LED Strip VO 22in 4200lm 830-840 LV2		151/174/162		80	80
929001756413	Fortimo LED Strip VO 44in 8400lm 830-840 LV2		151/174/162		80	80

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Advance Fortimo LED strip EdgeLit (EL)

Designed to enable slim and uniform architectural lighting applications like suspended panel LED luminaires.



Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929000789413	LED Strip 23in 2600lm 830 EL LV4	2530	171	3000K	80	80
929000789513	LED Strip 23in 2600lm 835 EL LV4	2580	171	3500K	80	80
929000789613	LED Strip 23in 2600lm 840 EL LV4	2610	173	4000K	80	80
929000789713	LED Strip 23in 2600lm 850 EL LV4	2580	171	5000K	80	80
929000789813	LED Strip 23in 2600lm 927 EL LV4	2610	173	2700K	90	80
929000789913	LED Strip 23in 2600lm 930 EL LV4	1930	128	3000K	90	80
929000790013	LED Strip 23in 2600lm 935 EL LV4	2100	139	3500K	90	80
929000790113	LED Strip 23in 2600lm 940 EL LV4	2150	142	4000K	90	80

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor

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Advance Fortimo LED line high flux

Advance Fortimo LED line LV3 offers best-in-class module efficiency up to 165 lm/W, an increase of approximately 10% versus the previous generation. The new generation offers an improved color consistency of 3 SDCM. A 1,100 lm option is added to the 3R portfolio, which serves the need for higher output.

Ideal for application at elevated installation heights and increased application temperatures where more light is needed, such as high-bay applications.



Product information (PR LV3)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929000798113	LED Line 2ft PR 2500lm 830 1R NA LV3	2090	174	3000K	80	90
929000798213	LED Line 2ft PR 2500lm 835 1R NA LV3	2140	178	3500K	80	90
929000798313	LED Line 2ft PR 2500lm 840 1R NA LV3	2200	183	4000K	80	90
929000798413	LED Line 2ft PR 2500lm 850 1R NA LV3	2200	185	5000K	80	90
929000797713	LED Line 2ft PR 4000lm 830 1R NA LV3	3840	171	3000K	80	90
929000797813	LED Line 2ft PR 4000lm 835 1R NA LV3	3930	175	3500K	80	90
929000797913	LED Line 2ft PR 4000lm 840 1R NA LV3	4000	178	4000K	80	90
929000798013	LED Line 2ft PR 4000lm 850 1R NA LV3	4090	182	5000K	80	90
929000797313	LED Line 2ft PR 7500lm 830 2R NA LV3	7230	173	3000K	80	90
929000797413	LED Line 2ft PR 7500lm 835 2R NA LV3	7390	177	3500K	80	90
929000797513	LED Line 2ft PR 7500lm 840 2R NA LV3	7520	180	4000K	80	90
929000797613	LED Line 2ft PR 7500lm 850 2R NA LV3	7690	184	5000K	80	90

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED line LV4

Advance Fortimo linear LED systems are the ideal solution for LED luminaires that traditionally would have been equipped with fluorescent lamps.

The wide range of system offerings provides a solution for all the different types of luminaires, including recessed and surface-mounted office luminaires, trunking and profile luminaires in retail and waterproof luminaires in industrial applications.



RoHS COMPLIANT [2] [3] Zhaga [4]

Product information (LV4)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001542906	LED Line 1ft 1100lm 830 1R LV4	1045	163	3000	80	80
929001543006	LED Line 1ft 1100lm 835 1R LV4	1078	168	3500	80	80
929001543106	LED Line 1ft 1100lm 840 1R LV4	1100	172	4000	80	80
929001543206	LED Line 1ft 1100lm 850 1R LV4	1111	174	5000	80	80
929001545106	LED Line 1ft 1100lm 830 3R LV4	1045	174	3000	80	80
929001545206	LED Line 1ft 1100lm 835 3R LV4	1078	180	3500	80	80
929001545306	LED Line 1ft 1100lm 840 3R LV4	1100	183	4000	80	80
929001545406	LED Line 1ft 1100lm 850 3R LV4	1111	185	5000	80	80

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor

For further information visit signify.com/ledmodulesna

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Fortimo InstantFit LV1

Fortimo InstantFit LV1 is the first truly field-replaceable module. This revolutionary breakthrough ensures that an LED troffer containing it will no longer have to be scrapped due to a failed light source. Replace simply by snapping into connector on the fixture. This enables late stage fixture configuration at factory, RDC, distributor, or even in the field. Fortimo InstantFit LV1 comes with a range of performance levels both in 2ft and 4ft options; and the rigid aluminum frame provides excellent thermal performance and ease of assembly.

Product information (PR LV3)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001672806	FO IF 22in 20L 830 325mA LV1	1241	157	3000	80	80
929001672906	FO IF 22in 20L 835 325mA LV1	1317	167	3500	80	80
929001673006	FO IF 22in 20L 840 325mA LV1	1339	170	4000	80	80
929001673106	FO IF 22in 20L 850 325mA LV1	1339	170	5000	80	80
929001673706	FO IF 22in 30L 830 485mA LV1	2482	157	3000	80	80
929001673806	FO IF 22in 30L 835 485mA LV1	2634	167	3500	80	80
929001673906	FO IF 22in 30L 840 485mA LV1	2678	170	4000	80	80
929001674006	FO IF 22in 30L 850 485mA LV1	2678	170	5000	80	80
929001674606	FO IF 22in 40L 830 640 mA LV1	3723	157	3000	80	80
929001674706	FO IF 22in 40L 835 640 mA LV1	3952	167	3500	80	80
929001674806	FO IF 22in 40L 840 640 mA LV1	4017	170	4000	80	80
929001674906	FO IF 22in 40L 850 640 mA LV1	4017	170	5000	80	80
929001675506	FO IF 44in 40L 830 650 mA LV1	2482	157	3000	80	80
929001675606	FO IF 44in 40L 835 650 mA LV1	2634	167	3500	80	80
929001675706	FO IF 44in 40L 840 650 mA LV1	2678	170	4000	80	80
929001675806	FO IF 44in 40L 850 650 mA LV1	2678	170	5000	80	80
929001676406	FO IF 44in 60L 830 970mA LV1	4964	157	3000	80	80
929001676506	FO IF 44in 60L 835 970mA LV1	5269	167	3500	80	80
929001676606	FO IF 44in 60L 840 970mA LV1	5356	170	4000	80	80
929001676706	FO IF 44in 60L 850 970mA LV1	5356	170	5000	80	80
929001677306	FO IF 44in 80L 830 1280mA LV1	7446	157	3000	80	80
929001677406	FO IF 44in 80L 835 1280mA LV1	7903	167	3500	80	80
929001677506	FO IF 44in 80L 840 1280mA LV1	8034	170	4000	80	80
929001677606	FO IF 44in 80L 850 1280mA LV1	8034	170	5000	80	80



Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

2019 PROGRESS Report SELECTION

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED downlight module (DLM) L2

Advance Fortimo LED downlight module (DLM) flex L2 expands application possibilities beyond downlight commercial fixtures, bringing even more possibilities than the previous DLM flex generation. Advance Fortimo DLM flex L2 expands applications to include high-bay and other sectors. We provide you with a system proposition ranging from 1,100 lm to 10,000 lm, from high performance to low cost, all in one flexible portfolio. Models can be easily tuned to meet your needs through Advance Xitanium LED drivers with SimpleSet technology.



- Wide lumen output range: from 1,100 to 10,000 lm
- Variation of color temperatures (2700K, 3000K, 3500K and 4000K)
- Lifetime > 50,000 hrs (B50L70 atTc 85°C)[1]
- High color consistency: 3SDCM
- Various mechanical interface options
  - Enabling standard or slim designs
  - Self-cooled option for up to 3,000 lm[11]
  - No additional heat sink needed[12]

Product information

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001729113	Fortimo LED DLM Flex DS L2 830 36 G2 NA	1139/1304/1801/2441	164/162/156/149	3000	80	85
929001729213	Fortimo LED DLM Flex DS L2 835 36 G2 NA	1179/1351/1866/2528	169/167/161/154	3500	80	85
929001729313	Fortimo LED DLM Flex DS L2 840 36 G2 NA	1220/1397/1930/2615	175/173/167/159	4000	80	85
929001730113	Fortimo LED DLM Flex DS L2 927 36 G2 NA	1097/1259/1731/2326	133/130/123/114	2700	90	85
929001730213	Fortimo LED DLM Flex DS L2 930 36 G2 NA	1142/1311/1803/2422	139/136/128/119	3000	90	85
929001730313	Fortimo LED DLM Flex DS L2 935 36 G2 NA	1175/1348/1854/2491	143/140/132/123	3500	90	85
929001729413	Fortimo LED DLM Flex DS L2 830 54 G2 NA	3120/3488/4069/4759	153/150/146/141	3000	80	85
929001729513	Fortimo LED DLM Flex DS L2 835 54 G2 NA	3231/3613/4214/4929	158/155/151/146	3500	80	85
929001729613	Fortimo LED DLM Flex DS L2 840 54 G2 NA	3343/3737/4360/5099	164/161/156/151	4000	80	85
929001729713	Fortimo LED DLM Flex DS L2 830 84 G2 NA	5296/5957/7125/8421	151/147/142/136	3000	80	85
929001729813	Fortimo LED DLM Flex DS L2 835 84 G2 NA	5485/6170/7380/8723	156/153/147/141	3500	80	85
929001729913	Fortimo LED DLM Flex DS L2 840 84 G2 NA	5674/6382/7635/9024	161/158/152/146	4000	80	85
929001730013	Fortimo LED DLM Flex DS L2 850 84 G2 NA	1910/2337/3584/6024	180/178/171/160	5000	80	85
929001730413	Fortimo LED DLM Flex DS L2 927 84 G2 NA	3719/4127/5881/7042	127/124/114/107	2700	90	85
929001730513	Fortimo LED DLM Flex DS L2 930 84 G2 NA	3873/4297/6124/7334	132/129/118/111	3000	90	80
929001730613	Fortimo LED DLM Flex DS L2 935 84 G2 NA	3983/4420/6299/7544	136/133/122/114	3500	90	80
929001730713	Fortimo LED DLM Flex DS L2 940 84 G2 NA	4070/4516/6437/7710	139/136/124/117	4000	90	80

Module driver compatibility

The Advance Fortimo LED downlight portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor Industry

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED DLM EaseSelect (ES)

The Advance Fortimo downlight module (DLM) EaseSelect (ES) is an integrated module with a 0–10V 1% dimmable driver inside, enabling speed on design and assemble and installation. It also offers a self-cooling solution for up to 1500 lm. Advance Fortimo DLM EaseSelect represents a new approach to LED system design that delivers unmatched efficiency, flexibility and value for OEMs looking to offer quality lighting solutions at competitive prices.



Product information

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929000791513	Fortimo LED DLM ES 1100 830 0-10V G1 NA	1080	98	3000	80	75
929000791613	Fortimo LED DLM ES 1100 835 0-10V G1 NA	1100	100	3500	80	75
929000791713	Fortimo LED DLM ES 1100 840 0-10V G1 NA	1140	104	4000	80	75
929000791813	Fortimo LED DLM ES 1500 830 0-10V G1 NA	1460	97	3000	80	75
929000791913	Fortimo LED DLM ES 1500 835 0-10V G1 NA	1490	99	3500	80	75
929000792013	Fortimo LED DLM ES 1500 840 0-10V G1 NA	1540	103	4000	80	75
929000792113	Fortimo LED DLM ES 2000 830 0-10V G1 NA	1970	99	3000	80	75
929000792213	Fortimo LED DLM ES 2000 835 0-10V G1 NA	2000	100	3500	80	75
929000792313	Fortimo LED DLM ES 2000 840 0-10V G1 NA	2060	103	4000	80	75

Suitable for:

Indoor

For further information visit signify.com/ledmodulesna

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Advance Fortimo LED spotlight module (SLM) gen 7

Advance Fortimo LED spotlight module (SLM) gen 6 continues to focus on the combination of quality of light and performance. By offering the CoB separate from the holder, even more flexibility in possible system combinations and specifications is achieved. This results in an extensive portfolio of lumen ranges, CCTs and spectra.

- Excellent quality of light available for all applications
- Extensive range of CCT
- Small LES for narrow beam angles and small reflector designs
- Flexibility to select a different lumen output between 800 lm and 10,000 lm
- State-of-the-art chip-on-board (CoB) technology, enabling high system efficacy
- System proposition (CoB + holder + driver)
- Flexibility to optimize luminaire performance (lm/W or high lumen output)
- Advance Xitanium LED window drivers with SimpleSet technology for maximum flexibility
- Mini drivers for small luminaire designs
- Three dedicated product lines:
  - SLM gen 7 premium white
  - SLM gen 7 crisp white



8

Product information (G7)

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001581806	Fortimo SLM C 827 1202 L06 1215 G7	840	121	2700	>80	75
929001581906	Fortimo SLM C 830 1202 L06 1215 G7	890	129	3000	>80	75
929001582006	Fortimo SLM C 835 1202 L06 1215 G7	930	134	3500	>80	75
929001582106	Fortimo SLM C 840 1202 L06 1215 G7	960	139	4000	>80	75
929001582406	Fortimo SLM C 927 1202 L06 1215 G7	710	103	2700	>90	75
929001582506	Fortimo SLM C 930 1202 L06 1215 G7	760	110	3000	>90	75
929001583806	Fortimo SLM C 827 1203 L09 1619 G7	1490	144	2700	>80	85
929001583906	Fortimo SLM C 830 1203 L09 1619 G7	1520	147	3000	>80	85
929001584006	Fortimo SLM C 835 1203 L09 1619 G7	1560	151	3500	>80	85
929001584106	Fortimo SLM C 840 1203 L09 1619 G7	1610	156	4000	>80	85
929001584206	Fortimo SLM C 850 1203 L09 1619 G7	1610	156	5000	>80	85
929001584406	Fortimo SLM C 927 1203 L09 1619 G7	1240	120	2700	>90	85
929001584506	Fortimo SLM C 930 1203 L09 1619 G7	1280	124	3000	>90	85
929001585806	Fortimo SLM C 827 1204 L09 1619 G7	2636	102	2700	>80	75
929001585906	Fortimo SLM C 830 1204 L09 1619 G7	2775	108	3000	>80	75
929001586006	Fortimo SLM C 835 1204 L09 1619 G7	2831	110	3500	>80	75
929001586106	Fortimo SLM C 840 1204 L09 1619 G7	2886	112	4000	>80	75
929001586206	Fortimo SLM C 850 1204 L09 1619 G7	2886	112	5000	>80	75
929001586306	Fortimo SLM C 857 1204 L09 1619 G7	2873	112	5700	>80	75
929001586406	Fortimo SLM C 927 1204 L09 1619 G7	2220	86	2700	>90	75
929001586506	Fortimo SLM C 930 1204 L09 1619 G7	2276	88	3000	>90	75
929001587806	Fortimo SLM C 827 1205 L13 2024 G7	2540	148	2700	>80	85
929001587906	Fortimo SLM C 830 1205 L13 2024 G7	2640	154	3000	>80	85
929001588006	Fortimo SLM C 835 1205 L13 2024 G7	2690	157	3500	>80	85
929001588106	Fortimo SLM C 840 1205 L13 2024 G7	2750	160	4000	>80	85
929001588206	Fortimo SLM C 850 1205 L13 2024 G7	2750	160	5000	>80	85
929001588406	Fortimo SLM C 927 1205 L13 2024 G7	2110	123	2700	>90	85
929001588506	Fortimo SLM C 930 1205 L13 2024 G7	2190	128	3000	>90	85
929001589806	Fortimo SLM C 827 1208 L15 2024 G7	3800	149	2700	>80	85
929001589906	Fortimo SLM C 830 1208 L15 2024 G7	3950	155	3000	>80	85
929001590006	Fortimo SLM C 835 1208 L15 2024 G7	4030	159	3500	>80	85
929001590106	Fortimo SLM C 840 1208 L15 2024 G7	4110	162	4000	>80	85

Module driver compatibility

The Advance Fortimo LED point portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Indoor

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Product information (G7) – continued

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929001590206	Fortimo SLM C 850 1208 L15 2024 G7	4120	162	5000	>80	85
929001590306	Fortimo SLM C 857 1208 L15 2024 G7	4100	161	5700	>80	85
929001590406	Fortimo SLM C 927 1208 L15 2024 G7	3150	124	2700	>90	85
929001590506	Fortimo SLM C 930 1208 L15 2024 G7	3270	129	3000	>90	85
929001591806	Fortimo SLM C 827 1211 L19 2828 G7	6110	147	2700	>80	85
929001591906	Fortimo SLM C 830 1211 L19 2828 G7	6280	151	3000	>80	85
929001592006	Fortimo SLM C 835 1211 L19 2828 G7	6410	154	3500	>80	85
929001592106	Fortimo SLM C 840 1211 L19 2828 G7	6630	159	4000	>80	85
929001592206	Fortimo SLM C 850 1211 L19 2828 G7	6630	159	5000	>80	85
929001592306	Fortimo SLM C 857 1211 L19 2828 G7	6610	159	5700	>80	85
929001592406	Fortimo SLM C 927 1211 L19 2828 G7	5070	122	2700	>90	85
929001592506	Fortimo SLM C 930 1211 L19 2828 G7	5310	128	3000	>90	85
929001593806	Fortimo SLM C 827 1216 L23 2828 G7	8030	146	2700	>80	85
929001593906	Fortimo SLM C 830 1216 L23 2828 G7	8220	149	3000	>80	85
929001594006	Fortimo SLM C 835 1216 L23 2828 G7	8380	152	3500	>80	85
929001594106	Fortimo SLM C 840 1216 L23 2828 G7	8700	158	4000	>80	85
929001594206	Fortimo SLM C 850 1216 L23 2828 G7	8710	158	5000	>80	85
929001594306	Fortimo SLM C 857 1216 L23 2828 G7	8680	158	5700	>80	85
929001594406	Fortimo SLM C 927 1216 L23 2828 G7	6660	121	2700	>90	85
929001594506	Fortimo SLM C 930 1216 L23 2828 G7	6930	126	3000	>90	85
929001582606	Fortimo SLM C 830 PW 1202 L06 1215 G7	890	129	3000	>80	75
929001582706	Fortimo SLM C 930 PW 1202 L06 1215 G7	760	110	3000	>90	75
929001582806	Fortimo SLM C 935 PW 1202 L06 1215 G7	810	117	3500	>90	75
929001582906	Fortimo SLM C 940 PW 1202 L06 1215 G7	830	120	4000	>90	75
929001584606	Fortimo SLM C 830 PW 1203 L09 1619 G7	1510	146	3000	>80	85
929001584706	Fortimo SLM C 930 PW 1203 L09 1619 G7	1280	124	3000	>90	85
929001584806	Fortimo SLM C 935 PW 1203 L09 1619 G7	1350	131	3500	>90	85
929001584906	Fortimo SLM C 940 PW 1203 L09 1619 G7	1390	135	4000	>90	85
929001586606	Fortimo SLM C 830 PW 1204 L09 1619 G7	2771	108	3000	>80	75
929001586706	Fortimo SLM C 930 PW 1204 L09 1619 G7	2320	90	3000	>90	75
929001586806	Fortimo SLM C 935 PW 1204 L09 1619 G7	2451	95	3500	>90	75
929001586906	Fortimo SLM C 940 PW 1204 L09 1619 G7	2518	98	4000	>90	75
929001590606	Fortimo SLM C 830 PW 1208 L15 2024 G7	3840	151	3000	>80	85
929001590706	Fortimo SLM C 930 PW 1208 L15 2024 G7	3270	129	3000	>90	85
929001590806	Fortimo SLM C 935 PW 1208 L15 2024 G7	3440	135	3500	>90	85
929001590906	Fortimo SLM C 940 PW 1208 L15 2024 G7	3530	139	4000	>90	85

Suitable for:

Indoor

For further information visit signify.com/ledmodulesna



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Advance Fortimo FastFlex

The Advance Fortimo LED system FastFlex gen 3 portfolio has been designed to offer a solution to OEMs who want to distinguish themselves through their fixture design and speed to market, as well as OEMs wanting to differentiate their propositions based on optical performance.



Product information

Part name	Commercial product name	Lumens	Typ module efficacy	CCT	Color rendering	Case temp. Tc life
12 NC		Typical	lm/W	K	CRI	°C
929000955406	Fortimo FastFlex LED board 2x8/730 DS Gen3	3245	137	3045	70	75
929000955506	Fortimo FastFlex LED board 2x8/740 DS Gen3	3505	148	3985	70	75
929000955606	Fortimo FastFlex LED board 2x8/757 DS gen3	3575	151	5685	70	75
929001522206	Fortimo FastFlex 2x2/730 gen 3 DA LED board	811	137	3045	70	75
929001522306	Fortimo FastFlex 2x2/740 gen 3 DA LED board	875	148	3985	70	75
929001521606	Fortimo FastFlex 2x4/730 gen 3 DA LED board	1623	137	3045	70	75
929001521706	Fortimo FastFlex 2x4/740 gen 3 DA LED board	1753	150	3985	70	75
929001521806	Fortimo FastFlex 2x4/840 gen 3 DA LED board	1653	137	3818	80	75
929000955706	Fortimo FastFlex 2x8/730 gen 3 DA LED board	3245	137	3045	70	75
929000955806	Fortimo FastFlex 2x8/740 gen 3 DA LED board	3505	148	3985	70	75
929000955906	Fortimo FastFlex 2x8/757 gen 3 DA LED board	3575	151	5685	70	75
929001521906	Fortimo FastFlex 2x8/840 gen 3 DA LED board	3245	137	3985	80	75
929000955206	Fortimo FastFlex LED board 2x4/730 DA gen3	1623	137	3045	70	75
929000955306	Fortimo FastFlex LED board 2x4/740 DA gen3	1753	148	3985	70	75
929000954706	Fortimo FastFlex LED board 2x8/730 DA gen3	3245	137	3045	70	75
929000954806	Fortimo FastFlex LED board 2x8/740 DA gen3	3505	148	4000	70	75
929000954906	Fortimo FastFlex LED board 2x8/757 DA gen3	3575	151	5685	70	75
929000955006	Fortimo FastFlex LED board 2x8/840 DA gen3	3245	137	3985	80	75

Module driver compatibility

The Advance Fortimo LED linear portfolio is compatible with multiple Xitanium LED drivers. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime.

Suitable for:

Outdoor

For further information visit signify.com/ledmodulesna

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Advance LED drivers

The right LED solution to help you succeed

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A proven portfolio

powering **growth**

LED light sources require reliable LED drivers for optimal performance that is long-lasting with low maintenance. Our wide range of Advance Xitanium, SR (Sensor Ready) and CertaDrive[13] LED drivers are specifically designed to operate LEDs in a variety of indoor and outdoor lighting applications while meeting a variety of customer application needs. All Advance LED drivers lead the transformation with:

Benefits:

- Reliable and consistent operation
- High efficiency >90% in some cases
- Greater than 0.9 PF and less than 20% THD
- Class P on select models
- Greater than 50k hours lifetime[5]
- 5-year limited warranty[6]
- RoHS compliance[7]

All Advance LED drivers comply with Part 15 of the FCC rules.
For Canada: CAN ICES-005 (A) / NMB-005 (A).

SimpleSet technology

Advance's proven SimpleSet wireless programming technology for Xitanium LED drivers is designed to help OEMs quickly and easily program LED drivers at any time during the manufacturing, distribution or installation process. The flexibility of the drivers with SimpleSet technology enables an OEM to cover a large performance window with a handful of drivers. Visit www.signify.com/simpleset for more information.

Advance Xitanium drivers

Advance Xitanium LED drivers are designed to maximize performance with unmatched flexibility to handle the varying demands of potential LED lighting configurations. Rated for long life with efficient performance, these drivers are excellent design choices for LED fittings, offering the benefits of long-lasting energy savings with low maintenance costs.

Advance Xitanium edge drivers

Advance Xitanium edge drivers are designed to work with the Fortimo edge modules to create an off the shelf component solution for entry level premium HighBays. These fixed current drivers have been optimized for performance without removing ANSI compliant surge or high operating temperature.



Dave Eichstadt
Product Marketeer

CertaDrive drivers

Advance CertaDrive indoor LED drivers are designed to meet basic indoor lighting needs. These drivers are offered with specific voltage-current settings and are, thus, optimized with specifications that are appropriately suited for the application, making LED conversion even more affordable.

All Advance LED drivers comply with Part 15 of the FCC rules.
Canada:
CAN ICES-005 (A) / NMB-005 (A)

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Just released!

For more information, please visit **signify.com/leddrivers**

50 and 75W Xitanium linear drivers with ComfortFade and auxiliary power supply



Delivering greater value for your customers. This family of drivers brings all of the options you need for your customers, Dim to Off, auxiliary power supply, customizable start and fade profiles, and output voltage range of 10 to 56V.

Xitanium 30W outdoor drivers



Class 2 drivers with an adjustable output current via SimpleSet. Bring the flexibility of SimpleSet to lower lumen applications such as bollards and wall packs.

CertaDrive gen 2 drivers



A refresh of our popular fixed current drivers for stock and flow linear applications. Designed to work with the Advance Fortimo VO linear module family to create 0-10V dimmable solutions at common lumen packages.

Xitanium 190W industrial driver for 347-480V



A high input voltage version of our popular 190W Class 2 driver. This two channel programmable driver enables lumen Class 2 drivers with an adjustable output current via SimpleSet. Bring the flexibility of SimpleSet to lower lumen applications such as bollards and wall packs.

Edge drivers

The edge LED drivers are designed to work with the Advance Fortimo edge modules to create cost-effective supply fixtures with high quality, premium efficiency level light. Drivers are available in the 75, 95, 126, and 150W output for 12K, 16K, 18K, 22K lumen outputs fixtures.



Coming soon!

LED innovations in the pre-launch phase

180W SimpleSet Gen 2 (120-277 & 347-480)



The popular 180W Class 1 drivers will be updated with new great value added features: Programable Diver Thermal Limit to dim luminaire above a programmed temperature, Dynadimmer to dim the driver based on a clock and lattitude and longitude, and more.

Xitanium linear drivers with ComfortFade and auxiliary power supply



Delivering greater value for your customers. This extension to 30 and 40W of the ComfortFade family of drivers brings all of the options your need for your customers. Dim-to-off, auxiliary power, customizable start and fade profiles, and output voltage range of 10- 56V.

180W Xitanium outdoor drivers with auxiliary power supply



Enabling the trend of 0-10V in fixture based sensors. This line drivers will mirror the current and voltage windows of our popular 180W utdoor driver line and add a selectable 12/24V Aux power supply and dim-to-off capability.

Suitable for:

Indoor Industry Outdoor

For further information visit signify.com/leddrivers

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with SimpleSet technology!

SimpleSet wireless programming technology

Wireless programming for Xitanium drivers

Advance Xitanium LED drivers with SimpleSet technology are designed to help OEMs quickly and easily program LED drivers at any time during the manufacturing, distribution or installation process. As a result, OEMs and their customers can meet orders faster with greater confidence while potentially reducing costs and inventory.



Accelerate LED programming

Currently, there are a variety of methods used to adjust output current of LED drivers. One method is putting a resistor on the driver that allows you to set the desired drive current. Other methods include DIP switches or adjustable potentiometers. These solutions are cumbersome to incorporate into high volume production environments because the driver either has to be powered for programming or needs to be wired to a programming device.

Using our Xitanium LED drivers with SimpleSet technology, on the other hand, you are able to quickly and easily program drive current and set specific lumen levels without the driver being powered or wired. This simplicity and flexibility enables setting and resetting of driver parameters easily and quickly.

Accelerate LED programming

1. Take the driver out of the box. Locate the designated communication area on the driver.



2. Touch the LED driver to the programming device. Programming confirmation will appear on he monitor.



3. Install the driver into the fixture.



Stay ahead of business demands

SimpleSet technology enables you to do more for your customers and your business. OEMs can quickly meet a broad range of customer requirements and order variations. In addition, wireless programming is flexible so it can be incorporated directly into any and all areas of your product development process, warehouse and distribution. You now have never-before-available possibilities to create customized lighting solution for your customers.

Benefits of Xitanium with SimpleSet and OEMs

- Speed: program fixtures faster without requiring complex and time-consuming wiring mechanics or the need to power up drivers
- Flexibility: program at any stage in the manufacturing process, from one to multiple drivers at once
- Reduced costs: meet a diverse set of lighting requirements without overextending your SKUs or managing different driver SKUs
- Simplicity: intuitive for anyone to use regardless of experience, and easy to deploy anywhere in the assembly process
- Security: set and protect proprietary information with dedicated memory space for OEMs with password protection

Suitable for:

Indoor Industry Outdoor

For further information visit signify.com/leddrivers

Visit www.signify.com/simpleset or call your local Advance sales representative for more information.

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Catalog number explanation

Date codes

Most date codes are stamped on the back of the driver (opposite the label side). The date code is part of a larger group of numbers and letters that call out the various codes for the factory where the driver was manufactured. Depending upon which Advance factory manufactured the driver, the date stamp can vary slightly in terms of its position on the driver and the number sequence.

For plastic case drivers the date code will appear as a label.

693P0MMA
53301707
The date code is the 5th day of the 33rd week of 2001 stamped on the back of the ballast.

06127M50
F2104571
The date code is the 127th day of 2006 stamped on the back of the ballast.

After January 2011

X	I	075	C070	V105	C	N	Y	1	M
									Packaging: M=Midpack
								Version Control: 1=Version 1, 2=Version 2, ...	
							Enclosure Designation		
						Features: P=Programming S=SimpleSet C=CertaDrive X N=Non-Programming D=DipSwitch			
					Fixed or Dimming: B=0-10V, AOC R=Leading Edge & Trailing Edge Dimming C=0-10V S=Step Dim D=0-10V, AOC, MTP V=Sensor Ready F=Fixed X=0-10V, AOC, MTP, CLO (linear) K=DALI, 0-10V, MTP X=TE, 0-10V, AOC, MTP, FAN (downlight) M=DALI, 0-10V, AOC, MTP Y=DALI, AOC, MTP, CLO P=Aux Power Supply				
				Max Voltage: Examples: 012=12V, 054=54V, 280=280V					
			Max Current: Examples: 035=350mA, 070=700mA, 053=530mA, 105=1050mA						
		Max Power: Examples: 025=25W, 060=60W, 300=300W							
	Input Voltage: I=120-277V G=347V R=120V H=347-480V V=277V J=277-480V								
General: X= Xitanium LED Driver, C=CertaDrive									

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CertaDrive indoor LED drivers

Advance CertaDrive indoor LED drivers are designed to meet basic lighting needs, thus, making LED conversion even more attainable. Advance CertaDrive drivers are offered in the following categories:



Fixed
IntelliVolt models are designed for basic indoor applications that do not require dimming, while still meeting the energy-saving benefits from LED.

Optimized troffer system
These drivers are offered with specific voltage-current settings and are, thus, optimized with specifications that are appropriately suited for the application. The CertaDrive LED drivers along with the Advance Fortimo LED strip value offer (VO) boards cater to the varying lighting needs in both non-dimming and dimming applications for economically designed luminaires.

A new generation of CertaDrive
Output currents are updated for improvements in LED efficacy, designed to work with LED Strip VO LV 2 for optimized troffer systems, improved output current ripple, 10% min dim level.



Oscar Velderrain Garcia
Product Manager

Benefits

- Optimized for use with Advance Fortimo value offer (VO) modules
- Small form-factor
- Class P Listing
- Input voltage range of 120-277V
- 5% or 10% 0-10V dimming
- High efficiency for maximum payback
- 5-year limited warranty[6]

Suitable for:

Indoor

For further information visit signify.com/leddrivers

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Gen 1



Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
CI023C048V046CNN1	23	0.48	30 - 46	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI024C045V052CNN1	24	0.45	35 - 52	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI026C055V046CNN1	26	0.55	30 - 46	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI030C065V046CNN1	30	0.65	30 - 46	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI037C082V045CNN1	37	0.82	30 - 45	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI039C075V052CNN1	39	0.75	35 - 52	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI041C087V046CNN1	41	0.87	30 - 46	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can
CI042C092V045CNN1	42	0.92	30 - 45	Class 2/P	120 - 277	0-10V, 5%	65	75	N-Can

Gen 2



Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
CI018C037V048CNN2	18	0.37	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI023C047V048CNN2	23	0.47	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI027C055V048CNN2	27	0.55	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI029C060V048CNN2	29	0.60	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI031C065V048CNN2	31	0.65	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI032C067V048CNN2	32	0.67	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI036V075V048CNN2	36	0.75	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI040C082V048CNN2	40	0.82	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI047C097V048CNN2	47	0.97	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can
CI049C102V048CNN2	49	1.02	35-48	Class 2/P	120-277	0-10V, 10%	65	75	N-Can

CertaDrive indoor LED driver dimensions

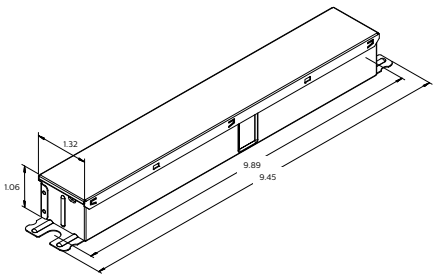


Fig. N-Can

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Xitanium indoor linear LED drivers

Advance Xitanium LED drivers for linear applications are available in three types:



Dimmable and SimpleSet
Dimmable drivers include 0-10V, step-dim or leading-edge dimming to integrate into common dimming systems used in commercial applications. Dimming improve energy savings and can help to enhance worker comfort. SimpleSet technology permits easy, basic programming of current levels and dimming curves, allowing a few SKUs to cover a wide range of applications.

DALI programmable
These drivers are easily managed through a programmable interface. This allows the OEM to customize a light fixture for a wide range of applications, using a minimum number SKUs to reduce lighting design complexity and simplify installation logistics.

Advance Xitanium LED drivers are available in wattages up to 95W. The form factor is perfectly suited to applications in which LED luminaires need to be compatible with the mechanical aspects of traditional fluorescent fixtures. Visit www.signify.com/leddrivers for more information.

Benefits

- Adjustable output current
- Wide operating windows
- UL Class 2
- Input voltage range of 120-277V, 347V, or 347-480V
- 1% 0-10V dimming on select models
- Class P on select models
- High efficiency
- High reliability

Applications

- Office
- Retail
- Hospitality
- Meeting rooms

Suitable for:

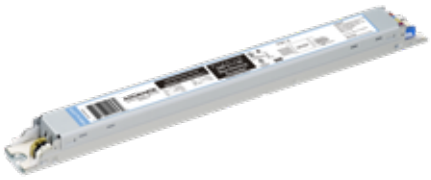
Indoor

For further information visit signify.com/leddrivers

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Xitanium drivers with ComfortFade

Delivering **greater value** for your customers



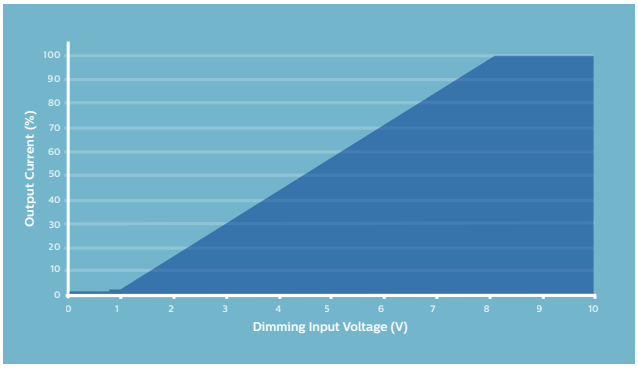
These drivers are setting a new standard for performance, versatility, and reliability.

- The ComfortFade feature delivers smooth transitions from light to dark and dark to light
- Built-in auxiliary power allows the addition of occupancy and daylight sensors and small radios without an additional power pack
- SimpleSet programming can allow OEMs to customize the profile to match customer applications in seconds

This is on top of the existing features that have made Xitanium drivers the choice for OEMs:

- Low-ripple output current (<4%) for camera and scanner compatibility
- Class P listings to ensure interchangeability without extensive compliance retesting
- Efficient designs with performance ranges to enable easy approbation compliance
- 5-year limited warranty[6]

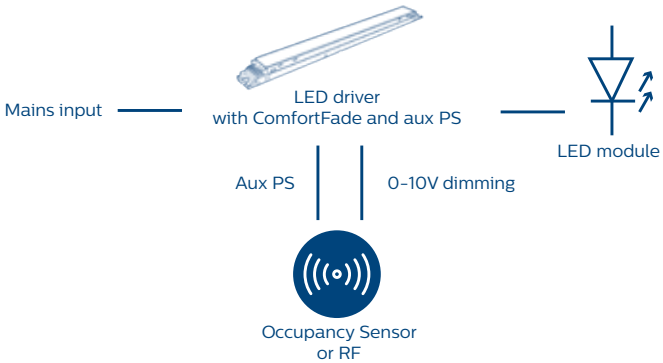
1% Dim-to-off capable



A simple solution for fixture-level control

Adding occupancy sensors, simple radios, or daylight harvesting controls is a great way to reduce energy consumption and meet regulatory requirements. Advance Xitanium LED drivers make it easy with a built-in selectable 12 or 24V auxiliary output for fixture-level control.

The auxiliary output is compatible with a wide range of off-the-shelf 0–10V controls, and it eliminates the need for an additional power pack — all while maintaining the original linear Xitanium footprint.



Suitable for:

Indoor

For further information visit signify.com/comfortfade

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Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Additional Features	Housing
										
1% SimpleSet Programmable										
XI020C056V054BST2	20	0.1 – 0.56	22.5 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-254
XI040C110V054BST1	40	0.1 – 1.1	22.5 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XI040C110V054BST2	40	0.1 – 1.1	10 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XI050C140V054BST1	50	0.1 – 1.4	10 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XI054C150V054BST1	54	0.1 – 1.5	27 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XI075C200V054BST1	75	0.1 – 2.0	27 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-425
										
1% ComfortFade with Aux										
XI075C200V054PST1	75	0.1 – 2.0	16 – 54	Class 2/P	120 – 277	0-10V Dim to Off	75	85	Comfort Fade,Dim to Off,0-10V, AOC (SimpleSet/Rset), 1% Dim, 12 or 24V Aux Power Supply	T-360
XI050C140V054PST1	50	0.1 – 1.4	10 – 54	Class 2/P	120 – 277	0-10V Dim to Off	75	85	Comfort Fade,Dim to Off,0-10V, AOC (SimpleSet/Rset), 1% Dim, 24V Aux Power Supply	T-360
										
Step Dim										
XI040C110V054SST1	40	0.1 – 1.1	22.5 – 54	Class 2/P	120 – 277	Step	75	85	Programable Step DIM, AOC	T-360
XI054C150V054SST1	54	0.1 – 1.5	27 – 54	Class 2/P	120 – 277	Step	75	85	Programable Step DIM, AOC	T-360
XI075C200V054SST1	75	0.1 – 2.0	27 – 54	Class 2/P	120 – 277	Step	75	85	Programable Step DIM, AOC	T-425
										
347 input voltage										
XG020C056V054BST1	20	0.1 – 0.56	27 – 54	Class 2/P	347	0-10V	75	80	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-254
XG040C110V054BST1	40	0.1 – 1.1	27 – 54	Class 2/P	347	0-10V	75	80	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XG054C150V054BST1	54	0.1 – 1.5	27 – 54	Class 2/P	347	0-10V	75	80	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-360
XG075C200V054BST1	75	0.1 – 2.0	27 – 54	Class 2/P	347	0-10V	75	80	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-425
										
Industrial										
XI095C275V054BSS1	95	0.1 – 2.75	20 – 54	Class 2/P	120 – 277	0-10V	85	90	0-10V, AOC (SimpleSet), 5% min dimming	S-Can
XI095C275V054DNF1	95	1.0 – 2.75	27 – 54	Class 2	120 – 277	0-10V	85	90	0-10V, AOC, MTP	F-Can
XH095C275V054BSF1	95	0.1 – 2.75	20 – 54	Class 2/P	347-480	0-10V	85	90	0-10V, AOC (SimpleSet)	F-Can
XI190C275V054BSG1	190	0.1 – 2.75	27 – 54	Class 2/P	347-480	0-10V	85	90	0-10V, AOC (SimpleSet), Dual Channel, 5% Min dimming	G-Can
XH190C275V054BSG1	190	0.1 – 2.75	27 – 54	Class 2/P	347-480	0-10V	85	90	0-10V, AOC (SimpleSet), Dual Channel, 5% Min dimming	G-Can
XI075C200V054BST1	75	0.1 – 2.0	27 – 54	Class 2/P	120 – 277	0-10V	75	85	0-10V, AOC (SimpleSet/Rset), 1% Dim	T-425
										
Edge driver – Designed for use with Advance Fortimo edge modules										
XI075C160V050CNS2	75	1.6	30 – 50	Class 2/P	120-277	0-10V	85	90	6kV Surge	S-Can
XI095C210V050CNS2	95	2.1	30 – 50	Class 2/P	120-277	0-10V	85	90	6kV Surge	S-Can
XI126C129V050CNF2	126	1.29	30 – 50	Class 2/P	120-277	0-10V	85	90	2x63W Channels, 6kV Surge	F-Can
XI150C160V050CNF2	150	1.6	30 – 50	Class 2/P	120-277	0-10 V	85	90	2x75W Channels, 6kV Surge	F-Can

AOC: Adjustable Output Current
MTP: Module Temperature Protection
PROG: Programmable, includes Constant Light Output (CLO)

Suitable for:

Indoor Industry

For further information visit signify.com/leddrivers

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Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Additional Features	Housing
DALI Programmable										
XI040C110V054YPT2	40	0.1 - 1.1	27-54	Class 2/P	120-277	DALI	75	85	AOC (SimpleSet/RSET), Class P	T-360
XI075C200V054YPT2	75	0.1 - 2.0	27-54	Class 2/P	120-277	DALI	75	85	AOC (SimpleSet/RSET), Class P	T-425

Xitanium linear LED driver dimensions

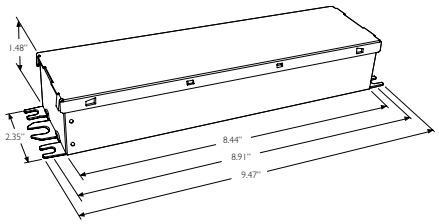


Fig. F-Can Chassis Mount

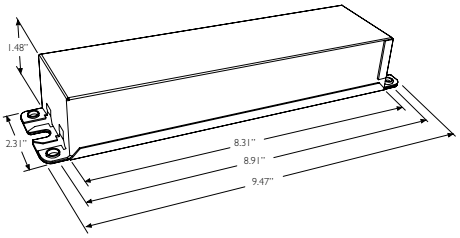


Fig. F-Can Gen 2

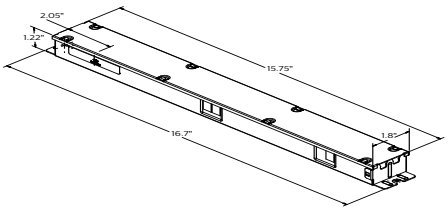


Fig. G-Can

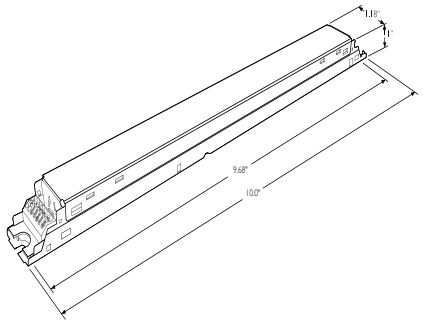


Fig. T-254

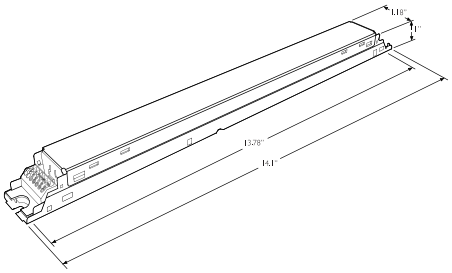


Fig. T-360

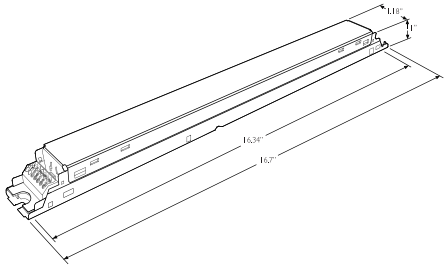


Fig. T-425

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Xitanium indoor downlight and track LED drivers

Advance Xitanium LED drivers for indoor downlight and track applications are available in three types:

Fixed output
Fixed output LED drivers set the standard for reliability and performance needed for indoor downlight and track lighting.

Dimmable and SimpleSet
Dimmable drivers include 0–10V or leading-edge dimming to integrate into common dimming systems used in commercial applications. Dimming enables maximum energy savings and can help to facilitate worker comfort. Advance SimpleSet technology permits easy, basic programming of current levels and dimming curves, allowing a few SKUs to cover a wide range of applications.

DALI programmable
These drivers provide a feature set managed through a programmable interface. This allows the OEM to create a fixture portfolio to meet specific needs for a wide range of applications, using a minimum number SKUs to reduce complexity and simplify logistics.



Advance Xitanium LED drivers for indoor downlight and track applications are available in wattages up to 95W for hard-wired integration into recessed downlights and track light fixtures. These LED drivers are available in the familiar SmartMate housing for junction-box mounting in downlights and slim housings for incorporation into track housings. Visit www.philips.com/leddrivers for more information.

Benefits

- Adjustable output current
- Wide operating windows
- UL Class 2
- Input voltage range of 120–277V
- 1% 0–10V dimming on select models
- Class P on select models
- High efficiency for maximum payback
- High reliability for low maintenance costs

Applications

- Office
- Retail
- Hospitality
- Meeting rooms

Suitable for:

Indoor

For further information visit signify.com/leddrivers

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Fixed Output

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
LEDUNIA0350C12F	4	0.35	2.8 - 12	Class 2	120 - 230	60	69	8W
LEDUNIA0700C12F	6.5	0.70	2.4 - 12	Class 2	120 - 230	60	69	8W
LED120A0024V07F	17	0.10 - 0.70	24	Class 2	120	70	80	V-Can Indoor
LED120A0700C24F	17	0.70	2.8 - 24	Class 2	120	75	85	V-Can Indoor
LED120A1400C24F	34	1.40	2.8 - 24	Class 2	120	75	85	J-Box Indoor

Dimmable

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Additional Features	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
XR009C022V042RNO2	9	0.22	25 - 42	Class 2	120	LE, TE	1% Dimming	85	85	O-Can
XR013C033V042RNO2	13	0.33	25 - 42	Class 2	120	LE, TE	1% Dimming	85	85	O-Can
XI013C030V042RNP1	13	0.15/0.2/0.25/0.3	20 -42	Class 2/P	120- 277	LE, TE	Dip Switch	75	85	P1-Can
XI020C050V042RNP2	20	0.35, 0.4, 0.45, 0.5	20 - 42	Class 2/P	120 - 277	LE, TE	AOC (Dip Switch), 1% Dimming	75	80	P1-Can
XI020C070V030RNP2	20	0.4, 0.5, 0.6, 0.7	15 - 30	Class 2/P	120 - 277	LE, TE	AOC (Dip Switch), 1% Dimming	75	80	P1-Can
XI042C080V052RNP1	42	0.5/0.6/0.7/ 0.8	25 - 52	Class 2/P	120- 277	LE, TE	Dip Switch	75	85	P2-Can
XI055C130V042RNP1	55	1.0/1.1/1.2/1.3	20 - 42	Class 2/P	120- 277	LE, TE	Dip Switch	75	85	P2-Can
XI013C036V054DNM1	13	0.1 - 0.36	27 - 54	Class 2/P	120 - 277	0-10V	AOC (Rset), MTP, SREC, 1% Dimming	80	90	M1 BS-Can
XI095C275V054DNF5	95	1.0 - 2.75	27 - 54	Class 2	120 - 277	0-10V	AOC (Rset), MTP, 1% Dimming	85	90	F-Can Bottom Stud

SimpleSet

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Additional Features	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
XI025C070V054DSM1	25	0.1 - 0.70	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M1 BS-Can
XI025C070V054DSM5	25	0.1 - 0.70	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming, Class P	80	90	M1 LD-Can
XI025C100V036DSM1	25	0.1 - 1.0	18 - 36	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M1 BS-Can
XI025C100V036DSM5	25	0.1 - 1.0	18 - 36	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M1 LD-Can
XI036C100V054DSM1	36	0.1 - 1.0	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M1 BS-Can
XI036C100V054DSM5	36	0.1 - 1.0	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M1 LD-Can
XI050C140V054DSM1	50	0.1 - 1.4	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M5 BS-Can
XI050C140V054DSM5	50	0.1 - 1.4	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, SREC, 1% Dimming	80	90	M5 LD-Can
XI075C200V054DSM1	75	0.007 - 2.0	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, 1% Dim	80	90	M6-BS
XI075C200V054DSM5	75	0.007 - 2.0	27 - 54	Class 2/P	120 - 277	0-10V	AOC (SimpleSet/Rset), MTP, Side entry, 1% Dim	80	90	M6-LD

AOC: Adjustable Output Current
MTP: Module Temperature Protection
SREC: Safety Related Electrical Circuit

Suitable for:



Indoor

For further information visit signify.com/leddrivers

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Xitanium downlight LED driver dimensions

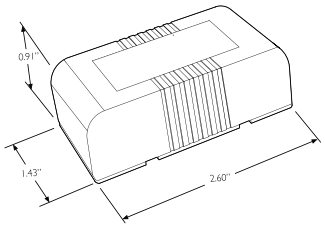


Fig. 8W

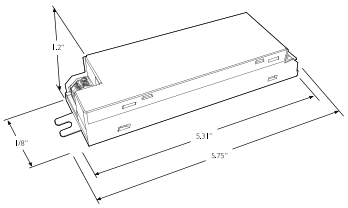


Fig. 25W LH-Can

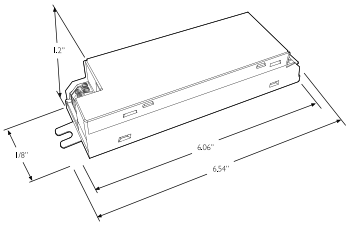
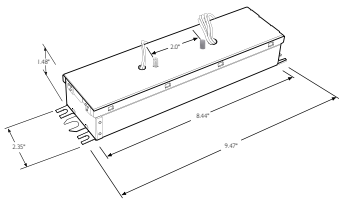


Fig. 50W LH-Can


Fig. F-Can Bottom Studs

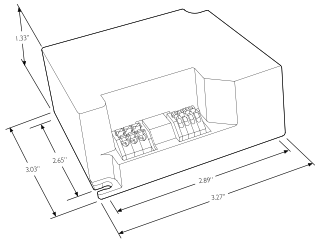


Fig. J-Box Indoor

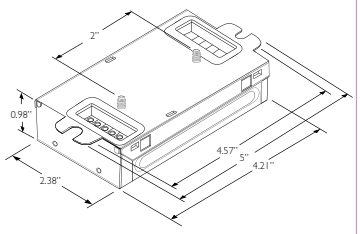


Fig. M1 BS-Can

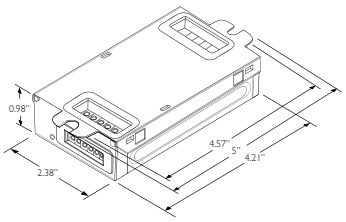


Fig. M1 LD-Can

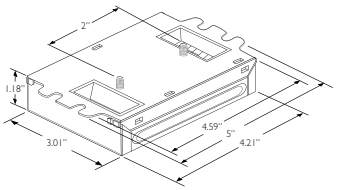


Fig. M5 BS-Can

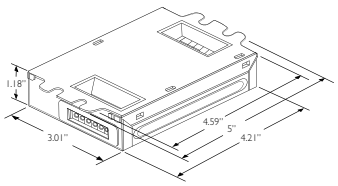


Fig. M5 LD-Can

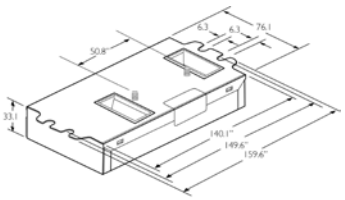


Fig. M6 BS-Can

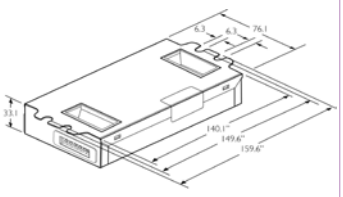


Fig. M6 LD-Can

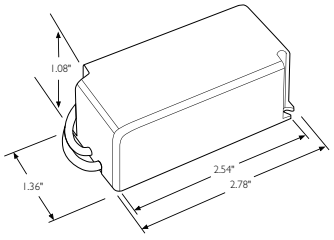


Fig. O-Can

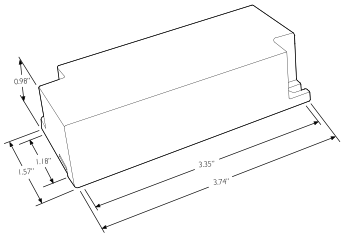


Fig. P1-Can

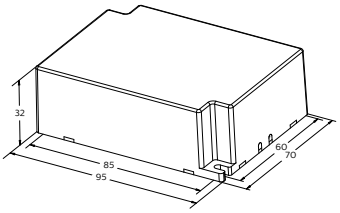


Fig. P2-Can

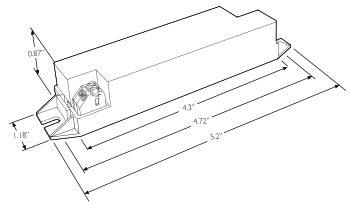


Fig. V-Can Indoor

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Xitanium outdoor and industrial LED drivers

Advance Xitanium LED drivers for outdoor applications are available in wattages up to 300W for hard-wired integration into outdoor luminaires for rugged applications. They operate to specification under wide temperature and electrical ranges to help ensure reliability. Visit www.signify.com/leddrivers for more information.



Advance Xitanium LED drivers for outdoor applications are available in four types:

Fixed output
Fixed output LED drivers set the standard for reliability and performance needed for outdoor lighting.

Edge high bay components
Class 2 0-10V drivers with fixed output currents designed to work with Advance Fortimo edge modules for an off the shelf high bay solution that meets premium efficacy standards.

Dimmable and SimpleSet
These 0-10V dimming drivers help address the growing demand for controllability and flexibility, allowing the lighting system to be used with various controls to maximize energy savings. SimpleSet technology enables easy, basic programming of current levels and dimming curves, allowing a few SKUs to cover a wide range of applications.

DALI programmable
Programmable DALI LED drivers provide a feature set managed through a programmable interface. This allows the OEM to create a fixture portfolio to meet specific needs for a wide range of applications, using a minimum number SKUs to reduce complexity and simplify logistics.



John Boehm
Product Manager

Benefits

- Adjustable output current
- Wide operating windows
- UL Class 1 or Class 2
- Input voltage range of 120-277V or 347-480V
- Surge protection
- Class P on certain models
- High efficiency
- High reliability

Applications

- Area
- Roadway
- Parking garage
- Gas station canopy
- Wallpacks
- Floodlights

Suitable for:

Industry Outdoor

For further information visit signify.com/leddrivers

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Fixed Output

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
LED120A0350C28FO	10	0.35	2.8 – 28	Class 2	120	80	90	V-Can
LED120A0012V10F	12	1.00	12	Class 2	120	80	90	V-Can
LED120A0700C24FO	17	0.70	2.8 – 24	Class 2	120	80	90	V-Can
LED120A0700C28FO	20	0.70	2.8 – 28	Class 2	120	80	90	V-Can
LED277A0700C28FO	20	0.70	2.8 – 28	Class 2	277	80	90	V-Can
LED120A0024V14FO	34	1.40	2.8 – 24	Class 2	120	80	90	J-Box
LED120A0024V18FO	40	1.75	2.8 – 24	Class 2	120	80	85	J-Box
LEDINTA0024V20FLO	48	0.10 – 2.0	24	Class 2	120 – 277	75	85	F-Can Bump
LEDINTA0024V22FO	53	2.20	24	Class 2	120 – 277	80	90	S-Can
LED120A0012V50F	60	0.8 – 5.0	12	Class 2	120	80	90	S-Can
LEDINTA0012V50FO	60	0.10 – 5.0	12	Class 2	120 – 277	80	90	S-Can
LEDINTA0024V28FO	67	0.10 – 2.8	24	Class 2	120 – 277	80	90	S-Can
XI077C320V024FNS1	77	3.2	12 – 24	Class 2/P	120– 277	85	85	S-Can
LED120A0024V33F	80	0.8 – 3.3	24	Class 2	120	80	85	S-Can
XI100C410V024FNS1	100	0.4 – 4.1	12 – 24	Class 2/P	120 – 277	85	85	S-Can
LEDHCNA0024V41FLO	100	4.16	3.5 – 24	Class 2	347 – 480	75	85	F-Can Bump
LEDINTA0350C425FO	150	0.35	120 – 425	No	120 – 277	80	80	F-Can Bump
LEDHCNA0350C425FO	150	0.35	120 – 425	No	347 – 480	80	80	F-Can Bump
LEDINTA0700C210FO	150	0.70	60 – 210	No	120 – 277	80	80	F-Can Bump
XH150C070V210FNF1	150	0.70	60 – 210	No	347 – 480	80	80	F-Can Gen 2



Dimmable and SimpleSet

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Additional Features	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
LED120A0700C28DO	20	0.70	10 – 28	Class 2	120	0–10V		80	90	V-Can
LED277A0700C30DO	21	0.70	15 – 30	Class 2	277	0–10V		80	90	V-Can
XI030C080V054BSJ1	30	0.1–0.8	20–54	Class 2/P	120 – 277	0–10V	6kV Surge, AOC (SimpleSet), DTL	85	90	J-Can
XI030C120V040BSJ1	30	0.1–1.2|	12–40	Class 2/P	120 – 277	0–10V	6kV Surge, AOC (SimpleSet), DTL	85	90	J-Can
XI040C070V056CNJ1	40	0.70	12 – 54	Class 2	120 – 277	0–10V		75	80	J-Can
XI040C105V042CNJ1	40	1.05	14 – 42	Class 2	120 – 277	0–10V		80	80	J-Can
XI040C120V035CNJ1	40	1.20	12 – 36	Class 2	120 – 277	0–10V		80	80	J-Can
LEDINTA0024V20DLO	48	2.00	24	Class 2	120 – 277	0–10V		75	85	F-Can Bump
XI055C180V054BSJ1	55	0.1 – 1.8	18 – 54	Class 2/P	120 – 277	0–10V	6kV Surge, AOC (SimpleSet)	85	90	J-Can
XH055C180V054BSY1	55	0.1 – 1.8	18 – 54	Class 2/P	120 – 277	0–10V	6kV Surge, AOC (SimpleSet), DTL	85	90	Y-Can
XI063C150V042CNS1	63	1.50	21 – 42	Class 2	120 – 277	0–10V		80	90	S-Can
XI072C300V024CNS1	72	3.00	24	Class 2	120 – 277	0–10V		75	85	S-Can
XI075C070V105CNY2	75	0.70	43 – 107	No	120 – 277	0–10V		80	80	Y-Can Gen 2
929000708003	75	0.10 – 0.70	54 – 107	No	120 – 277	0–10V	AOC (Rset), MTP	80	80	Y-Can
XI075C105V070CNY2	75	1.05	32 – 72	No	120 – 277	0–10V		80	80	Y-Can Gen 2
XH075C105V070CNF1	75	1.05	24 – 71	No	347 – 480	0–10V		80	80	F-Can Gen 2
XI075C150V050CNY1	75	1.50	25 – 50	No	120 – 277	0–10V		80	80	Y-Can Gen 2
XI080V070V054CNH1	80	0.70	27 – 54	Class 2	120 – 277	0–10V	Dual Channel	80	80	H-Can
XI095C275V054BSS1	95	0.1 – 2.75	20 – 54	Class 2/P	120 – 277	0–10V	AOC (SimpleSet)	85	90	S-Can

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Dimmable and SimpleSet (continued)

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Additional Features	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
XH095C275V054BSF1	95	0.1 - 2.75	20 - 54	Class 2/P	347 - 480	0-10V	AOC (SimpleSet)	85	90	F-Can
XI095C275V054BSF1	95	0.1 - 2.75	20 - 54	Class2/P	120 - 277	0-10V	AOC (SimpleSet), 6kV Surge	85	90	F-Can Chassis Mount
XI100C110V143BSY1	100	0.1 - 1.10	48 - 143	Class P	120 - 277	0-10V	AOC (SimpleSet), 6kV Surge	85	85	Y-Can Gen 2
XI100C150V091BSY1	100	0.1-1.5	30- 91	Class P	120-277	0-10	AOC SimpleSet, 6kV Surge	85	85	Y- Can Gen 2
XH100C150V091BSY1	100	0.1-1.5	30- 91	Class P	347-480	0-10	AOC SimpleSet, 6kV Surge	85	85	Y- Can Gen 2
XH100C110V143BSY1	100	0.1-1.1	48-143	Class P	347-480	0-10	AOC SimpleSet, 6kV Surge	85	85	Y- Can Gen 2
XI100C150V038CNH1	100	1.50	20 - 36	Class 2	120 - 277	0-10V	Dual Channel	80	80	H-Can
XI100C410V024CNS1	100	0.4 - 4.1	12 - 24	Class 2/P	120 - 277	0-10V	4kV Surge	85	85	S-Can
LEDHCNA0024V41DLO	100	4.10	15 - 24	Class 2	347 - 480	0-10V		75	85	F-Can Bump
LEDINTA0350C425DO	150	0.35	120 - 425	No	120 - 277	0-10V	6kV Surge	80	80	F-Can Bump
LEDHCNA0350C425DN	150	0.35	120 - 425	No	347 - 480	0-10V	6kV Surge	80	80	F-Can Bump
LEDINTA0530C280DO	150	0.53	120 - 280	No	120 - 277	0-10V	6kV Surge	80	80	F-Can Bump
XH150C053V280CNF1	150	0.53	120 - 280	No	347 - 480	0-10V	6kV Surge	80	80	F-Can Gen 2
LEDINTA0700C210DO	150	0.70	60 - 210	No	120 - 277	0-10V		80	80	F-Can Bump
XH150C070V210CNF1	150	0.70	60 - 210	No	347 - 480	0-10V	6kV Surge	80	80	F-Can Gen 2
XI150C105V140CNF1	150	1.05	44 - 140	No	120 - 277	0-10V	6kV Surge	80	80	F-Can Gen 2
XH150C105V140CNF1	150	1.05	47 - 142	No	347 - 480	0-10V	6kV Surge	80	80	F-Can Gen 2
XI150C150V100CNF1	150	1.50	30 - 100	No	120 - 277	0-10V	6kV Surge	80	80	F-Can Gen 2
XI180C090V285BSF1	180	0.1 - 0.90	100 - 285	Class P	120 - 277	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XI180C125V200PSF1	180	0.1-1.25	70-210	Class P	120-277	0-10	AOC SimpleSet, 6kV Surge, Aux Power supply for basic devices	85	85	F-Can Gen 2
XH180C125V200PSF1	180	0.1-1.25	70-210	Class P	347-480	0-10	AOC SimpleSet, 6kV Surge, Aux Power supply for basic devices	85	85	F-Can Gen 2
XH180C090V285BSF1	180	0.1 - 0.90	100 - 285	Class P	347 - 480	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XI180C125V200BSF1	180	0.1 - 1.25	70 - 210	Class P	120 - 277	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XH180C125V200BSF1	180	0.1 - 1.25	70 - 210	Class P	347 - 480	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XI180C180V144BSF1	180	0.1 - 1.80	50 - 144	Class P	120 - 277	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XH180C180V144BSF1	180	0.1 - 1.80	50 - 144	Class P	347 - 480	0-10V	0-10V, AOC (SimpleSet), 6kV Surge, Class P	85	90	F-Can Gen 2
XI190C275V054BSG1	190	0.1 - 2.75	27 - 54	Class 2/P	120 - 277	0-10V	2x95W Channel AOC (SimpleSet), 6kV Surge, Class P	85	90	G-Can
XH190C275V054BSG1	190	0.1 - 2.75	27- 54	Class 2/P	347 - 480	0-10V	2x95W Channel AOC (SimpleSet), 6kV Surge, Class P, DTL	85	90	G-Can
XI220C105V210CNA1	220	1.05	105 - 210	Class P	120-277	0-10	6kV Surge	85	85	A-Can
XH220C105V210CNA1	220	1.05	105 - 210	Class P	347-480	0-10	6kV Surge	85	85	A-Can
XI220C135V163CNA1	220	1.35	105 - 163	Class P	347-480	0-10	6kV Surge	85	90	A-Can
XI300C150V300BSR1	300	0.10 - 1.50	100 - 300	No	120 - 277	0-10V	AOC (SimpleSet)	85	85	R-Can
XH300C150V300BSR1	300	0.10 - 1.50	100 - 300	Class P	347-4 80	0-10V	AOC (SimpleSet), 6kV Surge	85	85	R-Can

AOC: Adjustable Output Current
MTP: Module Temperature Protection
DTL: Driver Thermal Limit

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DALI Programmable

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2	Input Voltage (Vac)	Dimming	Additional Features	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Housing
929000710303	40	0.10 - 0.53	38 - 76	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	80	80	J-Can
929000708803	40	0.10 - 0.70	29 - 57	Yes	120 - 277	0-10V, DALI	AOC, MTP, PROG+	80	80	J-Can
929000702302	75	0.35 - 0.70	80 - 152	No	120 - 277	0-10V, DALI	AOC, MTP, PROG	80	80	F-Can Flat
929000710103	75	0.10 - 0.70	54 - 107	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	75	80	Z-Can
929000708903	75	0.10 - 1.05	36 - 75	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	80	80	F-Can Flat
929000710403	100	0.10 - 0.53	94 - 189	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	75	80	Z-Can
929000708703	100	0.10 - 0.70	71 - 143	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	75	80	Z-Can
929000702202	150	0.35 - 0.70	125 - 280	No	120 - 277	0-10V, DALI	AOC, MTP, PROG	80	80	F-Can Flat
929000709003	150	0.10 - 1.05	70 - 148	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	80	80	F-Can Flat
929000712703	300	0.10 - 1.50	80 - 280	No	120 - 277	0-10V, DALI	AOC, MTP, PROG+	75	80	R-Can

AOC: Adjustable Output Current
MTP: Module Temperature Protection
AUX: Auxiliary Power Supply
LSI: Logic Signal Input
PROG: Programmable, includes DALI, Dynadimmer, Constant Light Output (CLO), Adjustable Startup Time (AST), Over The Life (OTL)
PROG+: All the above + AMP DIM

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Xitanium outdoor LED driver dimensions

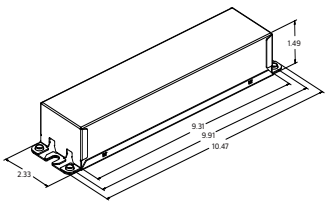


Fig. A-Can

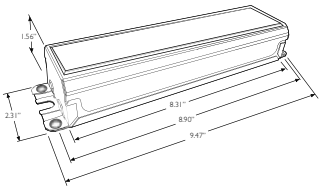


Fig. F-Can with Bump

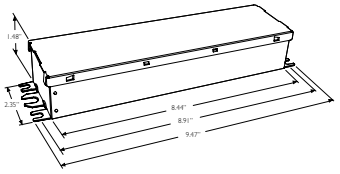


Fig. F-Can Chassis Mount

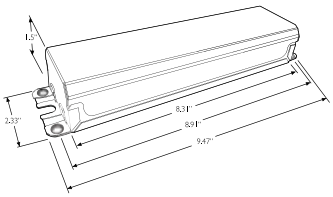


Fig. F-Can Flat Bottom

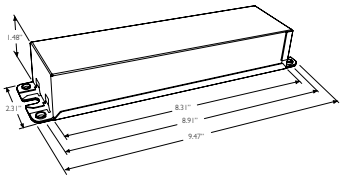


Fig. F-Can Gen 2

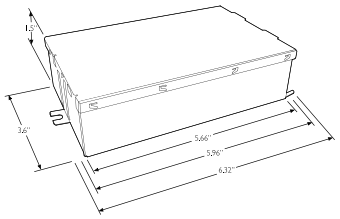


Fig. H-Can

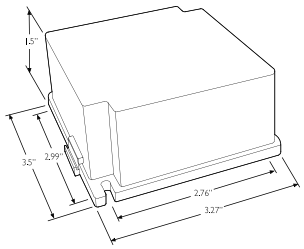


Fig. J-Box Outdoor

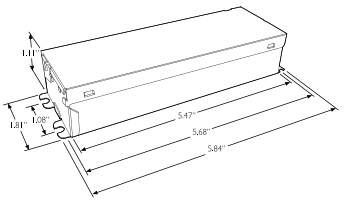


Fig. J-Can

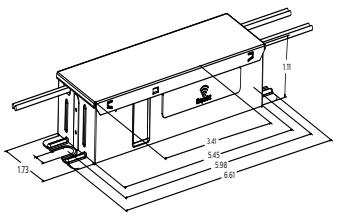


Fig. New J-Can

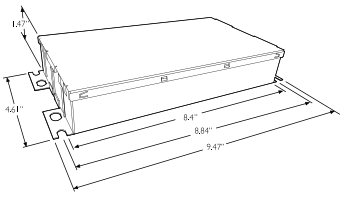


Fig. R-Can

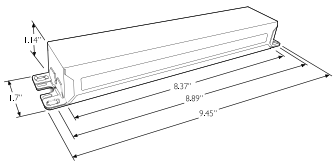


Fig. S-Can

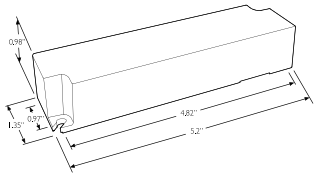


Fig. V-Can Outdoor

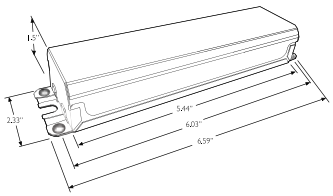


Fig. Y-Can

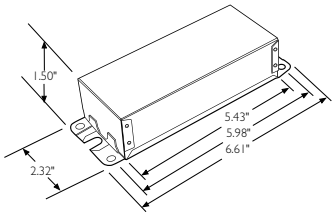


Fig. Y-Can Gen 2

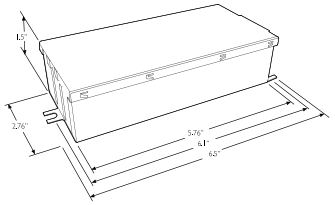


Fig. Z-Can Outdoor

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The future of connected lighting starts here



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Get connected to luminaires of tomorrow

SR = Sensor Ready, two-way digital communication
The Advance Xitanium SR LED drivers are sensor ready, meaning they can be easily connected to a fixture-based, wireless sensor, making them perfect for a growing list of intelligent and connected lighting applications. The intelligence is already built in, ready to interface with and power the sensors exactly to your customers' needs. Our drivers are future proof, as SR digital interface will be the new standard for connectivity. Thanks to our SR certified partner program you can choose from a wide variety of quickly expanding possibilities.

EasySense = Cost-effective, fixture-based lighting control
The Philips EasySense portfolio comprises of some of the most cost-effective wireless network lighting control (NLC) solutions on the market today. They integrate advanced network lighting control functionalities and energy savings capabilities either with or without the need for external gateway. They can also be easily programmed using the smartphone apps. Together with the Advance Xitanium SR LED drivers, the EasySense portfolio provides a compelling and cost-effective solution that enables you to design the lighting system of tomorrow.



Robert Lee
Product Marketing & Strategy,
Connected Lighting

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Just released!

For more information, please visit **signify.com/connectedlighting**



FlexTune SR LED driver

The Advance Xitanium SR FlexTune 40W LED driver is an all-digital LED driver that provides digital control over the full dimming (down to 1%) and color range over the open-standard Sensor Ready (SR) digital interface. It offers flicker-free lighting output that meets NEMA 77-2017 requirement. And the SR interface provides greater lighting design flexibility by enabling the use of SR-certified lighting control options for centralized lighting management application.

Advance Xitanium SR 40W gen 4 LED driver



The "gen 2" version of the popular Advanced Xitanium SR 40W LED driver boasts features such as 1% dimming, built-in memory for remote diagnostics, and power metering. The Sensor Ready (SR) digital interface, adopted by DiiA as part of the DALI-2 standard and incorporated into the ANSI standard C137.4, provides greater design flexibility by enabling you to use an expanding list of compatible third-party wireless networked lighting control solutions.

Coming soon!

LED innovations in the pre-launch phase



EasySense SNS210 sensor

SNS210 is the next generation of EasySense. It supports Bluetooth for wireless control and configuring. And it works with the Xitanium SR FlexTune LED driver for the commercial HCL application.

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EasySense sensors

Philips EasySense sensors

Philips EasySense sensors comprise of a group of indoor and high-bay network lighting control sensors that are DLC-qualified. They incorporate PIR and daylight ensing capabilities. They also support wireless networking capability which enables them to communicate with each other as well as other compatible Zigbee devices. They are powered by Xitanium SR driver via a low-voltage, two-wire, connection. The main target applications include, but not limit to, commercial, school, and industrial applications. The intuitive Android-based Philips Field Apps enable quick and easy configuration and commissioning during and after installation. So, let's get connected.

For more information go to philips.com/easysense.



João Salgueiro
Product Manager



Indoor

Product specification

Product name	Housing (volume inside luminaire)	Key features	Req. luminaire hole	Occupancy technology	Detection area	Viewing angle	Full light dimlevel	Operating Ambient temperature	Product code
	mm		mm		ft.		%	°C	GPC
EasySense SNS200	50x19x31.5 (50x19x24)	Advanced grouping Color: white	44x17	Passive IR	At 10ft. - 12ft.x11ft. (minor movement) At 8ft. - 10ft.x9ft. (minor movement)	X=72° Y=86°	5-100%	0-55	929000766813
EasySense SNS300	50x19x31.5 (50x19x24)	Advanced grouping Color: white Zigbee 3.0 gateway	44x17	Passive IR	At 10ft. - 12ft.x11ft. (minor movement) At 8ft. - 10ft.x9ft. (minor movement)	X=72° Y=86°	5-100%	0-55	929000795613
EasySense SNH200	Diameter: 115 Height: 43	Advanced grouping and zoning	M20 threaded nipple for M20 knockout	Passive IR	At 52.4ft. - range diameter 52.4ft. At 39.4ft. - range diameter 42.7ft. At 26.2ft. - range diameter 29.5ft. At 13.1ft. - range diameter 14.8ft.	X=45° Y=45°	5-100%	-30-65	929000793913

Accessories

Product specification

Product name	Description	Product code
		GPC
IR Dongle	Infrared device to commission EasySense SNS200 and EasyAir SNH200	929001678906
EasySense SMR-50	Surface mount ring for EasySense SNS200 and EasySense SNS300	929000767013
EasySense SMB-50	Surface mount bracket for EasySense SNS200 and EasySense SNS300	929001540213
EasySense SNS200CMP	Ceiling mount bracket for EasySense SNS200 remote mounting (the sensor is built-in with the bracket)	929000790213
EasySense SNS300CMP	Ceiling mount bracket for EasySense SNS300 remote mounting (the sensor is built-in with the bracket)	929001702613

Wireless wall switches

Product specification

Manufacture	Product Description	Model
Illumera	Self-Powered Single Rocker ZigBee Wireless Light Switch	ZBT-S1AWH
	Self-Powered Dual Rocker ZigBee Wireless Light Switch	ZBT-S2AWH
Magnum Energy Solutions	Decorator Style Rocker Switch (single-rocker)	MZ-SW1
	Decorator Style Rocker Switch (dual-rocker)	MZ-SW2
	Self Powered Wireless Switch (single-rocker)	MZ-ASW1
	Self Powered Wireless Switch (double-rocker)	MZ-ASW2
	Single Rocker Pad	MZ-ESRP
	Dual Rocker Pad	MZ-EDRP

Suitable for:

Connected Indoor Industry

For further information visit signify.com/connectedlighting

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Apps

Three complementary programming apps are available within the Philips Field Apps for configuring EasySense sensors: EasySense NFC, EasySense Office IR, and EasySense Industry IR.

Use EasySense NFC app for:

- Configure light parameters, one luminaire at a time
- Store the desired settings as profiles for future use
- Data reporting

This app is intended for programming of the EasySense at the factory or prior to installation: the luminaires do not need to be powered. The communication to the sensor is with NFC, which means the smartphone needs to be in close proximity, almost touching the sensor.

The **EasySense office/industry IR apps** can be used to:

- Commission luminaires as a single group
- EasySense Industry IR can be used to program multiple EasySense SNH200 as a separate zone (within a group)
- Configure light parameters of a single luminaire or an entire group
- Add wireless switches to a group
- Reset sensors or settings to factory defaults

Both apps can be used once the luminaires are installed and powered.
The communication to the sensor is with IR signal from the ground level.



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Xitanium SR LED drivers

Advance Xitanium SR LED drivers provide the digital foundation for smart lighting system of today and tomorrow. They enable two-way data exchange between the LED driver and the sensor/controller. This data-exchange is essential for advanced smart lighting use cases such as power metering, remote monitoring, asset management, etc. The key benefits for using the Advance Xitanium SR LED drivers are:

Unlocking the potential of lighting beyond illumination
The depth and complexity of connected lighting systems can vary greatly – from simple luminaire-level controls to integrated systems connected to building networks. Advance Xitanium SR (Sensor Ready) LED drivers make it easy to develop and deploy control-ready luminaires for a host of applications. SR represents the standard interface for connecting drivers to nodes/sensors and is the key foundational element for any connected lighting system.

Reducing complexity: Streamlined fixture design
The all-in-one design of Advance Xitanium SR LED drivers standardizes the digital connection between the driver and sensor and includes an integral power supply, so no additional auxiliary components or power packs are required. A simple, two-wire connection is all that is needed to connect to various SR certified devices. As a result, fixtures for connected lighting become less complex, cheaper, and more practical.

Flexibility: Wide range of applications and SR certified partners
Advance Xitanium SR LED drivers are available for three primary lighting applications: indoor, industrial/high-bay, outdoor. They leverage the established Xitanium footprint for drop-in design for the fixture OEM. To ensure seamless compatibility between Advance Xitanium SR LED drivers and third-party sensors, Advance created the SR certified program. This gives end users the flexibility to choose the type of connected lighting system that best suits their needs.

Benefits of Advance Xitanium SR LED drivers

- Standardized digital interface with integral power supply
- Simple 2-wire connection
- Common Xitanium form factors
- Compliant with ANSI C137.4 and comparable DiiA specification
- Dim-to-off
- Energy metering
- Compatible with devices from SR certified partners
- For outdoor models:
  - 24V AUX for high power nodes
  - Logic signal input for motion sensors
  - 2% revenue grade metering accuracy per proposed ANSI C136.52
  - Diagnostics and asset management tools
  - Precise control over dimming and color temperature



Suitable for:

Connected Indoor Industry Outdoor

For further information visit signify.com/connectedlighting

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Xitanium SR LED drivers

Because light is all around us, the lighting infrastructure is an ideal platform for collecting and carrying information. This is the driving force behind connected lighting. Design an Advance Xitanium SR LED driver into your luminaire, and it can play a bigger role in network connectivity. The Advance Xitanium SR LED drivers are sensor ready, making them perfect for a growing list of smart lighting applications. You can power and interface with sensors directly from the driver without the need for additional modules, devices or power packs. And thanks to the SR certified program, there are a variety of sensor and network system vendors available to suit your needs.

For more information go to **signify.com/xitaniumsr/na**

Indoor

	Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Additional Features	Housing
NEW!	XI040C110V050VWT1	40	0.1 - 1.1	16 - 50	Yes	120-277	SR	75	85	AOC (SimpleSet/Rset), Class P	T-360
	XI040C110V054VPT2	40	0.1 - 1.1	27 - 54	Yes	120-277	SR	75	85	AOC (SimpleSet/Rset), Class P	T-360
	XI075C200V054VPT2	75	0.7 - 2.0	27 - 54	Yes	120-277	SR	75	85	AOC (SimpleSet/Rset), Class P	T-425

Industry/High-bay

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2 and Class P	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Additional Features	Housing
XI040C110V054VPT1	40	0.1 - 1.1	27 - 54	Yes	120-277	SR	75	85	AOC (SimpleSet/Rset), Class P	T-360
XI075C200V054VPT1	75	0.7 - 2.0	27 - 54	Yes	120-277	SR	75	85	AOC (SimpleSet/Rset), Class P	T-425
XI095C275V054VPF1	95	0.1-2.75	20-54	Yes	120-277	SR	85	90	AOC (SimpleSet), 6kV Surge, Class P	F-Can Gen 2
XI095C275V054VSF1	95	0.10 - 2.75	20-54	Yes	120-277	SR	85	90	AOC (SimpleSet), 6kV surge, AUX, LSI, Class P	F-Can Gen 2

Outdoor

Catalog Number	Max Output Power (W)	Output Current (Adc)	Output Voltage (Vdc)	UL/CSA Class 2	Input Voltage (Vac)	Dimming	Max Tcase for Warranty (°C)	Max Tcase for UL (°C)	Additional Features	Housing
XI075C070V118VSY2	75	0.07 - 0.70	43-118	No	120-277	SR	80	80	AOC (SimpleSet), 6kV surge, AUX, LSI, Class P	Y-Can Gen 2
XI075C105V079VSY2	75	0.105 - 1.05	32-79	No	120-277	SR	80	80	AOC (SimpleSet), 6kV surge, AUX, LSI, Class P	Y-Can Gen 2
XI180C090V285VSF1	180	0.10-0.90	100-285	No	120-277	SR	85	90	AOC (SimpleSet), 6kV Surge, AUX, LSI	F-can Gen 2
XI180C125V210VSF1	180	0.10-1.25	70-210	No	120-277	SR	85	90	AOC (SimpleSet), 6kV Surge, AUX, LSI	F-can Gen 2
XI180C180V144VSF1	180	0.10-1.80	50-144	No	120-277	SR	85	90	AOC (SimpleSet), 6kV Surge, AUX, LSI	F-can Gen 2

AOC: Adjustable Output Current
MTP: Module Temperature Protection
AUX: Auxiliary Power Supply
LSI: Logic Signal Input
PROG: Programmable, includes DALI, Dynadimmer, Constant Light Output (CLO), Adjustable Startup Time (AST), Over The Life (OTL)
PROG+: All the above + AMP DIM

Suitable for:



For further information visit signify.com/connectedlighting

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Xitanium SR bridge

Expanding SR (Sensor Ready) to any application

The Advance Xitanium SR bridges are designed to expand the flexibility and application of the SR protocol with SR-certified components. These products enable wireless control of luminaires that are equipped with the full range of Advance Xitanium 0-10V dimming drivers. Primary use cases are:

- For use with multiple 0-10V drivers where managing fixtures as a group is desired or where per-fixture control is not practical. In such application, the SR bridge aggregates all drivers and controls/monitors them as one group.
- For use in combination with 0-10V drivers where Comparable Advance Xitanim SR drivers are not available. This makes deployment of SR practical for any niche application where a 0-10V dimming driver is available.



Bottom Entry SRB-BS



End Entry SRB-LD

Product specification

Input Voltage (Vac)	Max. Power (VA)	Max. Current (A)	Max. Losses (W)	Max. Case Temp (°C)	Surge Protection Common/Diff (KV)
120	730	6.1			
208	1270	6.1			
240	1270	5.3	1.0	70	2.5
277	1270	4.6			
347	1280	3.7			

Suitable for:

Connected Indoor

For further information visit signify.com/connectedlighting

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Choose SR certified to drive compatibility

The performance of Advance Xitanium SR drivers is tested and certified to eliminate any interface problems. This means you can offer connected lighting solutions without having to worry about software capabilities and system interoperability. We have a growing list of SR certified third-party sensor and lighting control solutions that are compatible with Advance Xitanium SR LED drivers. They cover a wide range of connected lighting solutions from trusted providers of sensor and connectivity modules, building management systems and city management systems.

Released SR certified products*

SR partner	SR certified product
Casambi	CBU-DCS
Digital Lumens	DLA-E, DLA-I, DLA-M, DLA-R, DLA-S, DLA-VS
Enlighted	KIT-SU-5E-D, SU-5S-H-2W, SU-5S-xRx-2W
Legrand	FDP-301R
Lutron	Vive DFCSJ-OEM-OCC, DFCSJ-OEM-RF
Magnum Innovations	M9-OPUS-MLDE, M9-OPUS-MLD, M9-OPUS-DRD, M9-OPUS-MLDHB, M9-OPUS-CHMLD, M9-OPUS-HBKOD
Nedap	Luxon IoT Node, Luxon IoT Node Outdoor NEMA, Luxon IoT Node Outdoor Zhaga
Synapse Wireless	DIM10-087-06, DIM10-087-06-FW, DIM10-087-06-A

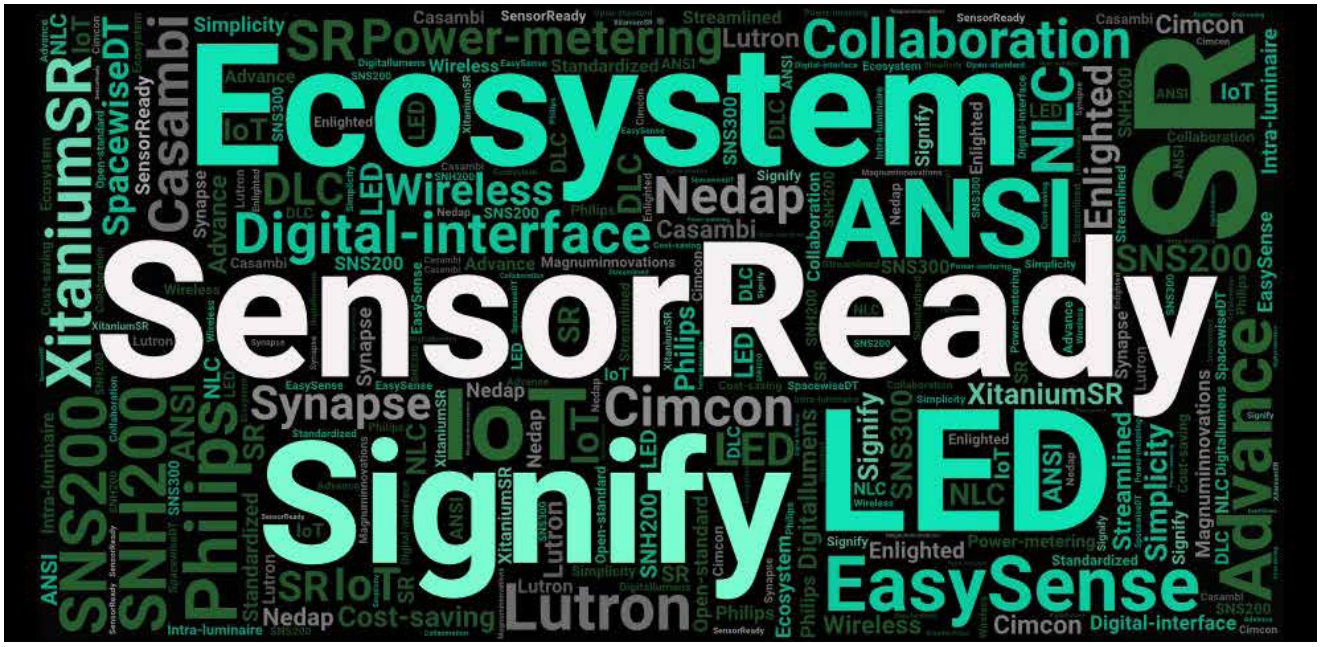
*For a complete and up to date list of all SR compliant products please visit www.lighting.philips.co.uk/oem-emea/products/driving-connected-lighting-components

System compatibility

SR certified products are tested by Signifty for SR and DALI 2.0 interoperability. The SR partners are responsible for the end-to-end system performance guarantee.

Compatibility with outdoor CMS systems

In the outdoor segment, the most cost-effective option is to use the Advance Xitanium SR LED driver in combination with the four-pin SR connector for both the CMS nodes and potentially additional sensors. Advance Xitanium SR LED drivers can also be used in combinatio with the 7-pin NEMA socket. In this situation specific guidelines must be followed. Please consult with your Signify representative for more info.



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Retail display lighting

Lighting products, brightening faces

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With the premium light quality.

"The key need of food and fashion retailers is to make merchandise shine at the point-of-purchase while consuming less power. That's why we have developed our InteGrade LED system gen 3 portfolio that brings unrivaled product visibility, attractiveness and efficiency."

Premium light quality, throughout the store

Our new InteGrade gen 3 family offers you superior visual display with best-in-class efficiency. And you can lower energy costs at the same time. We offer two color ranges: premium white color range and standard color range. The premium white color lights up shoppers' desire with an optimized color spectrum for enhanced white performance and astonishingly lively rich color with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Combined with our premium white spotlighting solutions the InteGrade LED system premium white gen 3 enables you to create a single look and feel for the whole store, for the ultimate shopping experience. The standard color range enables product colors to look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

Also great news: introducing the InteGrade high flux family, with its breathtaking performance and exceptional uniform light distribution brings the light right down to the lowest shelf. The bright, high-quality light displays products more attractively even when behind a glass door. Its miniaturized design means the light source itself is placed out of sight, which further maximizes attention on the products. InteGrade high flux is now available in premium white to combine the best of both worlds.

Maximum design flexibility

We offer you maximum design flexibility thanks to a range of engine lengths, color temperatures, accessories and Advance constant voltage LED drivers. The modular components fit together easily to simplify design-in and ensure hassle-free installation.



Zachary Eagleton
Product Manager

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Just released!

New-to-market LED innovations.
For more information, please
visit **signify.com/oemnana**

CertaFlux RDL gen 1

NEW!



Discount and price-fighter retail chains focus on costs. They leverage purchasing power to deliver value, and the customer expects affordable prices and a functional shopping experience. The lighting must support this image, which is where the Advance CertaFlux RDL portfolio comes in. It has established itself as an energy-efficient way to deliver the quality of light this cost-sensitive retail sector is looking for, especially in cooler and shelf applications.

Fortimo LEDFlex gen 1

Extending RDL business from refrigeration display lighting to retail display lighting!

The new Fortimo LEDFlex is designed for built-in applications toprovide a sleek look and feel in stores for the ultimate shopping experience

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Fortimo LEDFlex G1

Superior performance

Fortimo LEDFLex combines an optimised color spectrum for enhanced white performance andastonishing lively rich colors to deliver an outstanding shopping experience. Create the ultimate look and feel for your store in combination with Philips premium white spot lighting solutions.What is more, Fortimo LEDFlex offers state-of-art efficacy up to 152 lm/W for low energy consumption, and the 50khs lifetime offer peace of mind and lower maintenance costs.

Maximum design flexibility

Fortimo LEDFlex provides high design freedom through cut options of every 5 cm and 10 cm, and plug and play simplicity thanks to Fortimo LEDFlex accessories for no-tool handling and connection. Mounting is made simple, reliable and robust thanks to the best self-adhesive 3M tape, providing a sturdy mount to any surface.

True system proposition

Full system solution in combinations with Philips Constant Voltage drivers and a variety of accessories. 5-year Philips warranty is available.



Fortimo LEDFlex 5m 8xx C10 G1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
Fortimo LEDFlex 5m 1000lm/m 830 C10 G1	7.1	1000	80	3000	929001490880
Fortimo LEDFlex 5m 1000lm/m 840 C10 G1	6.6	1000	80	4000	929001490980
Fortimo LEDFlex 5m 1000lm/m 827 C10 G1	7.4	1000	80	2700	929001491080
Fortimo LEDFlex 5m 1000lm/m 865 C10 G1	6.6	1000	80	6500	929001491180
Fortimo LEDFlex 5m 1500lm/m 830 C10 G1	10.9	1500	80	3000	929001491280
Fortimo LEDFlex 5m 1500lm/m 840 C10 G1	10.0	1500	80	4000	929001491380
Fortimo LEDFlex 5m 1500lm/m 827 C10 G1	11.2	1500	80	2700	929001491480
Fortimo LEDFlex 5m 1500lm/m 865 C10 G1	10.0	1500	80	6500	929001491580
Fortimo LEDFlex 5m 2000lm/m 830 C10 G1	14.9	2000	80	3000	929001491680
Fortimo LEDFlex 5m 2000lm/m 840 C10 G1	13.8	2000	80	4000	929001491780
Fortimo LEDFlex 5m 2000lm/m 827 C10 G1	15.6	2000	80	2700	929001491880
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	13.8	2000	80	6500	929001491980
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	18.9	2500	80	3000	929001492080
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	17.6	2500	80	4000	929001492180
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	19.9	2500	80	2700	929001492280
Fortimo LEDFlex 5m 2000lm/m 865 C10 G1	17.6	2500	80	6500	929001492380

* Correlated color temperature within 5 SDCM range

Fortimo LEDFlex 50m 8xx C10 G1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
Fortimo LEDFlex 50m 1000lm/m 830 C10 G1	7.1	1000	80	3000	929001493280
Fortimo LEDFlex 50m 1000lm/m 840 C10 G1	6.6	1000	80	4000	929001493380
Fortimo LEDFlex 50m 1500lm/m 830 C10 G1	10.9	1500	80	3000	929001493480
Fortimo LEDFlex 50m 1500lm/m 840 C10 G1	10.0	1500	80	4000	929001493580
Fortimo LEDFlex 50m 2000lm/m 830 C10 G1	14.9	2000	80	3000	929001493680
Fortimo LEDFlex 50m 2000lm/m 840 C10 G1	13.8	2000	80	4000	929001493780
Fortimo LEDFlex 50m 2500lm/m 830 C10 G1	18.9	2500	80	3000	929001493880
Fortimo LEDFlex 50m 2500lm/m 840 C10 G1	17.6	2500	80	4000	929001493980

* Correlated color temperature within 5 SDCM range

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Fortimo LEDFlex 5m 9xx C5 G1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
Fortimo LEDFlex 5m 1000lm/m 930PW C5 G1	8.2	1000	90	3000	929001489280
Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1	7.6	1000	90	4000	929001489380
Fortimo LEDFlex 5m 1000lm/m 927 C5 G1	8.6	1000	90	2700	929001489480
Fortimo LEDFlex 5m 1000lm/m 965 C5 G1	7.6	1000	90	6500	929001489580
Fortimo LEDFlex 5m 1500lm/m 930PW C5 G1	12.6	1500	90	3000	929001489680
Fortimo LEDFlex 5m 1500lm/m 940PW C5 G1	11.8	1500	90	4000	929001489780
Fortimo LEDFlex 5m 1500lm/m 927 C5 G1	13.2	1500	90	2700	929001489880
Fortimo LEDFlex 5m 1500lm/m 965 C5 G1	11.8	1500	90	6500	929001489980
Fortimo LEDFlex 5m 2000lm/m 930PW C5 G1	17.1	2000	90	3000	929001490080
Fortimo LEDFlex 5m 2000lm/m 940PW C5 G1	16.0	2000	90	4000	929001490180
Fortimo LEDFlex 5m 2000lm/m 927 C5 G1	18.0	2000	90	2700	929001490280
Fortimo LEDFlex 5m 2000lm/m 965 C5 G1	16.0	2000	90	6500	929001490380
Fortimo LEDFlex 5m 2500lm/m 930PW C5 G1	21.2	2500	90	3000	929001490480
Fortimo LEDFlex 5m 2500lm/m 940PW C5 G1	20.0	2500	90	4000	929001490580
Fortimo LEDFlex 5m 2500lm/m 927 C5 G1	22.5	2500	90	2700	929001490680
Fortimo LEDFlex 5m 2500lm/m 965 C5 G1	20.0	2500	90	6500	929001490780

* Correlated color temperature within 5 SDCM range

Fortimo LEDFlex 50m 9xx C5 G1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
Fortimo LEDFlex 50m 1000lm/m 930PW C5 G1	8.2	1000	90	3000	929001492480
Fortimo LEDFlex 50m 1000lm/m 940PW C5 G1	7.6	1000	90	4000	929001492580
Fortimo LEDFlex 50m 1500lm/m 930PW C5 G1	12.6	1500	90	3000	929001492680
Fortimo LEDFlex 50m 1500lm/m 940PW C5 G1	11.8	1500	90	4000	929001492780
Fortimo LEDFlex 50m 2000lm/m 930PW C5 G1	17.1	2000	90	3000	929001492880
Fortimo LEDFlex 50m 2000lm/m 940PW C5 G1	16.0	2000	90	4000	929001492980
Fortimo LEDFlex 50m 2500lm/m 930PW C5 G1	21.2	2500	90	3000	929001493080
Fortimo LEDFlex 50m 2500lm/m 940PW C5 G1	20.0	2500	90	4000	929001493180

* Correlated color temperature within 5 SDCM range

Constant voltage drivers

Product name	Product code (GPC)
LED power driver 20W 24V	929000654006
LED power driver 80W 24V	929001669406
LED power driver 100W 24V	929001669506
LED Power Driver 150W 24V	929002101980
LED Power Driver 240W 24V	929002102080
LED transformer 60W 24V	913710032267
LED transformer 120W 24V	913710032567
CertaDrive 35W/24VDC 220-240V	929001424006
CertaDrive 60W/24VDC 220-240V	929001424106
CertaDrive 100W/24VDC 220-240V	929001424206
CertaDrive 120W/24VDC 220-240V	929001424306
LED Transformer 150W IP67 24V	929001485580
LED Transformer 300W IP67 24V	929001485680
LED Transformer 60W 24V	913710032267
LED Transformer 120W 24V	913710032567

Accessories

Product name	Product code (GPC)
Fortimo LEDFlex connector wire250mm-PCB	929001495880
Fortimo LEDFlex connector wire500mm-PCB	929001495980
Fortimo LEDFlex connector wire2000mm-PCB	929001496080
Fortimo LEDFlex connector PCB-PCB	929001496180
Fortimo LEDFlex cornerconnect wire60mm	929001496280
Fortimo LEDFlex cornerconnect wire150mm	929001496380

Suitable for:

Retail

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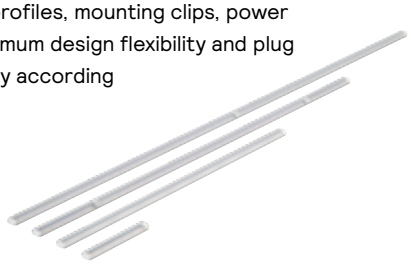
Philips InteGrade LED products

InteGrade LED system gen 3 (premium white range)

The InteGrade LED system gen 3 has been designed for ultimate product attractiveness through a combination of a superior light quality, best light distribution and state-of-art efficacy. This range offers two color range: premium white color range and standard color range. Premium white color range offers an optimized color spectrum enabling enhanced white performance and astonishing lively rich colors for superior visual display of the merchandise with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Standard color range enables product colors look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

The third generation of the very successful InteGrade range includes the brand new canopy version featuring a slim and miniaturized design with a breakthrough optical design enabling a perfect uniform light distribution in the chillers. Furthermore new InteGrade engine and fixture narrow beam vision provides higher lumen levels and yet maintaining its slim design suitable for aesthetic integration in the applications like chiller doors, where there is no room to place a sizable lighting solution. What is more exciting is InteGrade high flux is available also in premium white to combine the best of both worlds: high flux with premium white takes the product visibility and product attractiveness to the ultimate level, and stimulates the desire to buy.

Moreover an ultimate shopping experience can be created by the combination of the InteGrade LED system premium white and already available premium white spot lighting solutions enabling one look and feel in the store. InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Xitanium constant voltage LED power drivers the InteGrade LED system gen 3 offers maximum design flexibility and plug and play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according to the needs of the stores.



For shelf lighting

InteGrade engine value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine Va 140mm 930 PW G3	0.8	85	93	3000	929001567506
InteGrade engine Va 575mm 930 PW G3	3.4	380	93	3000	929001567606
InteGrade engine Va 855mm 930 PW G3	4.9	550	93	3000	929001567706
InteGrade engine Va 1150mm 930 PW G3	6.7	760	93	3000	929001567806
InteGrade engine Va 140mm 940 PW G3	0.8	90	93	4000	929001567906
InteGrade engine Va 575mm 940 PW G3	3.4	420	93	4000	929001568006
InteGrade engine Va 855mm 940 PW G3	4.9	600	93	4000	929001568106
InteGrade engine Va 1150mm 940 PW G3	6.7	840	93	4000	929001568206

* Correlated color temperature within 5 SDCM range

InteGrade engine vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine Vi 140mm 930 PW G3	1.6	170	93	3000	929001568306
InteGrade engine Vi 575mm 930 PW G3	6.9	750	93	3000	929001568406
InteGrade engine Vi 855mm 930 PW G3	10.1	1090	93	3000	929001568506
InteGrade engine Vi 1150mm 930 PW G3	13.8	1500	93	3000	929001568606
InteGrade engine Vi 140mm 940 PW G3	1.6	180	93	4000	929001568706
InteGrade engine Vi 575mm 940 PW G3	6.9	800	93	4000	929001568806
InteGrade engine Vi 855mm 940 PW G3	10.1	1160	93	4000	929001568906
InteGrade engine Vi 1150mm 940 PW G3	13.8	1600	93	4000	929001569006

* Correlated color temperature within 5 SDCM range

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For canopy lighting

InteGrade engine uniform beam value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine UB Va 855mm 930 PW G3	9,6	940	93	3000	929001626606
InteGrade engine UB Va 1150mm 930 PW G3	12,8	1250	93	3000	929001626806
InteGrade engine UB Va 855mm 940 PW G3	9,6	1025	93	4000	929001626706
InteGrade engine UB Va 1150mm 940 PW G3	12,8	1350	93	4000	929001626906

* Correlated color temperature within 5 SDCM range

InteGrade engine uniform beam vision premium white gen 3

Product specification

InteGrade engine UB Vi 575mm 930 PW G3	10	1000	93	3000	929001569706
InteGrade engine UB Vi 855mm 930 PW G3	15	1500	93	3000	929001569806
InteGrade engine UB Vi 1150mm 930 PW G3	20	2000	93	3000	929001569906
InteGrade engine UB Vi 140mm 940 PW G3	2,5	280	93	4000	929001572606
InteGrade engine UB Vi 575mm 940 PW G3	10	1100	93	4000	929001570006
InteGrade engine UB Vi 855mm 940 PW G3	15	1650	93	4000	929001570106
InteGrade engine UB Vi 1150mm 940 PW G3	20	2200	93	4000	929001570206

* Correlated color temperature within 5 SDCM range

For canopy and chillers with doors

InteGrade engine high flux premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine HF 140mm 930 PW G3	4.4	400	93	3000	929001605606
InteGrade engine HF 575mm 930 PW G3	17.5	1575	93	3000	929001605706
InteGrade engine HF 1150mm 930 PW G3	34.9	3150	93	3000	929001605806
InteGrade engine HF 140mm 940 PW G3	4	400	93	4000	929001605906
InteGrade engine HF 575mm 940 PW G3	16.1	1575	93	4000	929001606006
InteGrade engine HF 1150mm 940 PW G3	32.2	3150	93	4000	929001606106

* Correlated color temperature within 5 SDCM range

Note: InteGrade high flux engines are not standalone engines and they might need to be integrated with a heatsink for thermal management and to achieve 50 khrs lifetime.

InteGrade engine high flux gen3 (standard color)

Product specification

InteGrade engine HF 140mm 930 G3	4.4	375	90	3000	929001622106
InteGrade engine HF 575mm 930 G3	17.5	1550	90	3000	929001622206
InteGrade engine HF 1150mm 930 G3	35.0	3100	90	3000	929001622306
InteGrade engine HF 140mm 940 G3	3.9	400	90	4000	929001622406
InteGrade engine HF 575mm 940 G3	15.5	1575	90	4000	929001622506
InteGrade engine HF 1150mm 940 G3	31.1	3150	90	4000	929001622606
InteGrade engine HF 140mm WWR G3	4.4	375	90		929001622706
InteGrade engine HF 575mm WWR G3	17.5	1500	90		929001622806
InteGrade engine HF 1150mm WWR G3	35.1	3000	90		929001622906

* Correlated color temperature within 5 SDCM range

Note: InteGrade high flux engines are not standalone engines and they might need to be integrated with a heatsink for thermal management and to achieve 50 khrs lifetime.

Suitable for:



Retail

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For chillers with doors

InteGrade engine narrow beam value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine NB Va 140mm 930 PW G3	1	115	93	3000	929001569106
InteGrade engine NB Va 575mm 930 PW G3	4.5	500	93	3000	929001569206
InteGrade engine NB Va 1430mm 930 PW G3	11	1230	93	3000	929001569306
InteGrade engine NB Va 140mm 940 PW G3	1	120	93	4000	929001569406
InteGrade engine NB Va 575mm 940 PW G3	4.5	530	93	4000	929001569506
InteGrade engine NB Va 1430mm 940 PW G3	11	1300	93	4000	929001569606

* Correlated color temperature within 5 SDCM range

InteGrade engine narrow beam vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade engine NB Vi 140mm 930 PW G3	2.7	280	93	3000	929001605406
InteGrade engine NB Vi 1430mm 930 PW G3	27.2	2850	93	3000	929001571706
InteGrade engine NB Vi 140mm 940 PW G3	2.7	300	93	4000	929001605506
InteGrade engine NB Vi 1430mm 940 PW G3	27.2	3100	93	4000	929001571806

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam value premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade F NB Va 1500mm 930 PW SD G3	11	1230	93	3000	929001572006
InteGrade F NB Va 1500mm 930 PW CTR G3	22	2460	93	3000	929001572106
InteGrade F NB Va 1500mm 940 PW SD G3	11	1300	93	4000	929001572206
InteGrade F NB Va 1500mm 940 PW CTR G3	22	2600	93	4000	929001572306

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam vision premium white gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
InteGrade F NB Vi 1500mm 930 PW SD G3	26.2	2850	93	3000	929001570306
InteGrade F NB Vi 1500mm 930 PW CTR G3	52.4	5700	93	3000	929001570406
InteGrade F NB Vi 1500mm 940 PW SD G3	26.3	3100	93	4000	929001570506
InteGrade F NB Vi 1500mm 940 PW CTR G3	52.6	6200	93	4000	929001570606

* Correlated color temperature within 5 SDCM range

Suitable for:



Retail

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Philips InteGrade LED products

InteGrade LED system gen 3 (standard color range)
The InteGrade LED system gen 3 has been designed for ultimate product attractiveness through a combination of a superior light quality, best light distribution and state-of-art efficacy.

This range offers two color range: premium white color range and standard color range. Premium white color range offers an optimized color spectrum enabling enhanced white performance and astonishing lively rich colors for superior visual display of the merchandise with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Standard color range enables product colors look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

The third generation of the very successful InteGrade range includes the brand new canopy version featuring a slim and miniaturized design with a breakthrough optical design enabling a perfect uniform light distribution in the chillers.
Furthermore new InteGrade engine and fixture narrow beam vision provides higher lumen levels and yet maintaining its slim design suitable for aesthetic integration in the applications like chiller doors, where there is no room to place a sizable lighting solution.

InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Xitanium constant voltage LED power drivers the InteGrade LED system gen 3 offers maximum design flexibility and plug and play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according the needs of the stores.



For shelf lighting

InteGrade engine value gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
InteGrade engine Va 140mm 930 G3	0.9	85	90	3000	929001574606
InteGrade engine Va 575mm 930 G3	3.9	380	90	3000	929001574706
InteGrade engine Va 855mm 930 G3	5.7	550	90	3000	929001574806
InteGrade engine Va 1150mm 930 G3	7.8	760	90	3000	929001574906
InteGrade engine Va 140mm 935 G3	0.8	80	90	3500	929001641006
InteGrade engine Va 575mm 935 G3	3.6	355	90	3500	929001641106
InteGrade engine Va 855mm 935 G3	5.2	510	90	3500	929001641206
InteGrade engine Va 1150mm 935 G3	7.2	710	90	3500	929001641306
InteGrade engine Va 140mm 940 G3	0.9	90	90	4000	929001575006
InteGrade engine Va 575mm 940 G3	3.9	420	90	4000	929001575106
InteGrade engine Va 855mm 940 G3	5.7	600	90	4000	929001575206
InteGrade engine Va 1150mm 940 G3	7.8	840	90	4000	929001575306
InteGrade engine Va 140mm 956 G3	1.0	105	90	5600	929001617906
InteGrade engine Va 575mm 956 G3	3.9	420	90	5600	929001618006
InteGrade engine Va 855mm 956 G3	5.8	630	90	5600	929001618106
InteGrade engine Va 1150mm 956 G3	7.8	840	90	5600	929001618206
InteGrade engine Va 140mm WWR G3	0.7	70	90		929001575406
InteGrade engine Va 575mm WWR G3	3.2	310	90		929001575506
InteGrade engine Va 855mm WWR G3	4.7	450	90		929001575606
InteGrade engine Va 1150mm WWR G3	6.4	620	90		929001575706

* Correlated color temperature within 5 SDCM range

Suitable for:

Retail

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InteGrade engine vision gen 3

Product specification					
Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
InteGrade engine Vi 140mm 930 G3	1.7	170	90	3000	929001575806
InteGrade engine Vi 575mm 930 G3	7.3	750	90	3000	929001575906
InteGrade engine Vi 855mm 930 G3	10.7	1090	90	3000	929001576006
InteGrade engine Vi 1150mm 930 G3	14.6	1500	90	3000	929001576106
InteGrade engine Vi 140mm 935 G3	1.6	155	90	3500	929001641406
InteGrade engine Vi 575mm 935 G3	6.9	680	90	3500	929001641506
InteGrade engine Vi 855mm 935 G3	10.1	990	90	3500	929001641606
InteGrade engine Vi 1150mm 935 G3	13.8	1365	90	3500	929001641706
InteGrade engine Vi 140mm 940 G3	1.7	180	90	4000	929001576206
InteGrade engine Vi 575mm 940 G3	7.3	800	90	4000	929001576306
InteGrade engine Vi 855mm 940 G3	10.7	1160	90	4000	929001576406
InteGrade engine Vi 1150mm 940 G3	14.6	1600	90	4000	929001576506
InteGrade engine Vi 140mm 956 G3	1.9	200	90	5600	929001618306
InteGrade engine Vi 575mm 956 G3	7.4	800	90	5600	929001618406
InteGrade engine Vi 855mm 956 G3	11.1	1200	90	5600	929001618506
InteGrade engine Vi 1150mm 956 G3	14.9	1600	90	5600	929001618606
InteGrade engine Vi 140mm WWR G3	1.5	150	90		929001576606
InteGrade engine Vi 575mm WWR G3	6.6	650	90		929001576706
InteGrade engine Vi 855mm WWR G3	9.7	950	90		929001576806
InteGrade engine Vi 1150mm WWR G3	13.2	1300	90		929001576906
InteGrade engine Vi HL 140mm 935 G3	2.4	240	90	3500	929001651506
InteGrade engine Vi HL 575mm 935 G3	9.6	950	90	3500	929001651606
InteGrade engine Vi HL 855mm 935 G3	14.4	1425	90	3500	929001651706
InteGrade engine Vi HL 1150mm 935 G3	19.2	1875	90	3500	929001651806

* Correlated color temperature within 5 SDCM range

For canopy lighting

InteGrade engine uniform beam value gen 3

Product specification					
InteGrade engine UB Va 855mm 930 G3	9.4	890	90	3000	929001603706
InteGrade engine UB Va 1150mm 930 G3	13	1200	90	3000	929001603806
InteGrade engine UB Va 855mm 940 G3	9.4	970	90	4000	929001603906
InteGrade engine UB Va 1150mm 940 G3	13	1300	90	4000	929001604006
InteGrade engine UB Va 855mm WWR G3	7.9	700	90		929001604106
InteGrade engine UB Va 1150mm WWR G3	11	900	90		929001604206

* Correlated color temperature within 5 SDCM range

InteGrade engine uniform beam vision gen 3

Product specification					
InteGrade engine UB Vi 140mm 930 G3	2.6	240	90	3000	929001578506
InteGrade engine UB Vi 575mm 930 G3	10	950	90	3000	929001578606
InteGrade engine UB Vi 855mm 930 G3	15	1450	90	3000	929001578706
InteGrade engine UB Vi 1150mm 930 G3	20	1950	90	3000	929001578806
InteGrade engine UB Vi 140mm 935 G3	2.4	245	90	3500	929001642106
InteGrade engine UB Vi 575mm 935 G3	9.6	990	90	3500	929001642006
InteGrade engine UB Vi 855mm 935 G3	14.4	1500	90	3500	929001641906
InteGrade engine UB Vi 1150mm 935 G3	19.2	1975	90	3500	929001641806
InteGrade engine UB Vi 140mm 940 G3	2,6	260	90	4000	929001578906
InteGrade engine UB Vi 575mm 940 G3	10	1050	90	4000	929001579006
InteGrade engine UB Vi 855mm 940 G3	15	1600	90	4000	929001579106
InteGrade engine UB Vi 1150mm 940 G3	20	2100	90	4000	929001579206
InteGrade engine UB Vi 140mm WWR G3	1.9	175	90		929001579306
InteGrade engine UB Vi 575mm WWR G3	7.5	700	90		929001579406
InteGrade engine UB Vi 855mm WWR G3	11	1050	90		929001579506
InteGrade engine UB Vi 1150mm WWR G3	15	1400	90		929001579606

* Correlated color temperature within 5 SDCM range

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InteGrade engine narrow beam value gen 3

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
InteGrade engine NB Va 140mm 930 G3	1,2	125	90	3000	929001577006
InteGrade engine NB Va 575mm 930 G3	4,8	500	90	3000	929001577106
InteGrade engine NB Va 1430mm 930 G3	11,9	1230	90	3000	929001577206
InteGrade engine NB Va 140mm 940 G3	1,2	130	90	4000	929001577306
InteGrade engine NB Va 575mm 940 G3	4,8	530	90	4000	929001577406
InteGrade engine NB Va 1430mm 940 G3	11,9	1300	90	4000	929001577506
InteGrade engine NB Va 140mm 956 G3	1,1	120	90	5600	929001618706
InteGrade engine NB Va 575mm 956 G3	4,3	480	90	5600	929001618806
InteGrade engine NB Va 1430mm 956 G3	10,7	1200	90	5600	929001618906
InteGrade engine NB Va 140mm WWR G3	1,3	125	90		929001577606
InteGrade engine NB Va 575mm WWR G3	5,1	500	90		929001577706
InteGrade engine NB Va 1430mm WWR G3	12,7	1230	90		929001577806

* Correlated color temperature within 5 SDCM range

InteGrade engine narrow beam vision gen 3

Product specification

InteGrade engine NB Vi 140mm 930 G3	2.7	260	90	3000	929001605106
InteGrade engine NB Vi 1430mm 930 G3	27.3	2600	90	3000	929001580306
InteGrade engine NB Vi 140mm 940 G3	2.7	280	90	4000	929001605206
InteGrade engine NB Vi 1430mm 940 G3	27.3	2800	90	4000	929001580406
InteGrade engine NB Vi 140mm WWR G3	2.7	260	90		929001605306
InteGrade engine NB Vi 1430mm WWR G3	26.6	2600	90		929001580506

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam value gen 3

Product specification

InteGrade F NB Va 1500mm 930 SD G3	11.7	1230	90	3000	929001577906
InteGrade F NB Va 1500mm 930 CTR G3	23.4	2460	90	3000	929001578006
InteGrade F NB Va 1500mm 940 SD G3	11.7	1300	90	4000	929001578106
InteGrade F NB Va 1500mm 940 CTR G3	23.4	2600	90	4000	929001578206
InteGrade F NB Va 1500mm 956 SD G3	10.7	1200	90	5600	929001619006
InteGrade F NB Va 1500mm 956 CTR G3	21.3	2400	90	5600	929001619106
InteGrade F NB Va 1500mm WWR SD G3	12.7	1230	90		929001578306
InteGrade F NB Va 1500mm WWR CTR G3	25.5	2460	90		929001578406

* Correlated color temperature within 5 SDCM range

InteGrade fixture narrow beam vision gen 3

Product specification

InteGrade F NB Vi 1500mm 930 SD G3	26.1	2600	90	3000	929001579706
InteGrade F NB Vi 1500mm 930 CTR G3	52.3	5200	90	3000	929001579806
InteGrade F NB Vi 1500mm 940 SD G3	26.2	2800	90	4000	929001579906
InteGrade F NB Vi 1500mm 940 CTR G3	52.4	5600	90	4000	929001580006
InteGrade F NB Vi 1500mm WWR SD G3	26.6	2600	90		929001580106
InteGrade F NB Vi 1500mm WWR CTR G3	53.2	5200	90		929001580206

* Correlated color temperature within 5 SDCM range

Suitable for:

Retail

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Integrade accesories and drivers

Constant voltage drivers

Product name	Product code (GPC)
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ItG-N plug*	929000869613
Xitanium 77W 100-277V 3.2A XI077C320V024FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNS1M*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

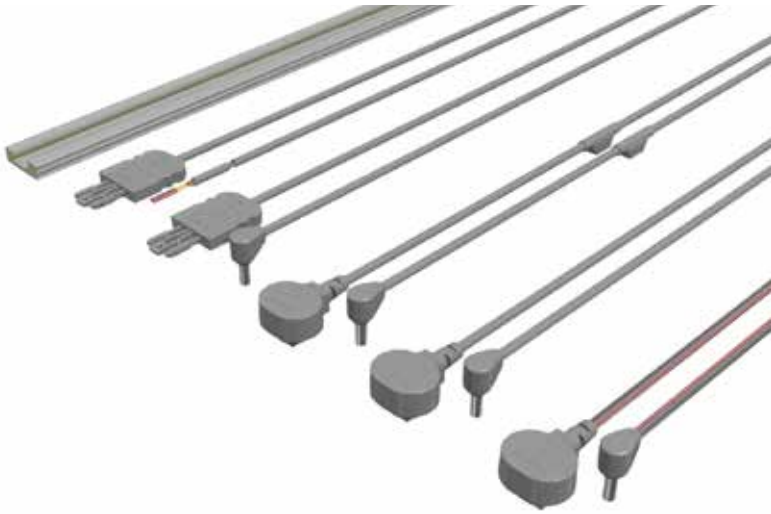


* Only for NAM region
** Only for Japan

Accessories	Product code (GPC)
Clips	
InteGrade mounting clip shelf arm V2	929000957806
InteGrade engine clip shelf arm G2	929001516006
InteGrade engine mounting clip G2	929001516106
InteGrade mounting clip under shelf	929000643903
InteGrade engine clip magnetic	929001624606
InteGrade mounting clip canopy	929001571106
InteGrade engine clip mullion side	929001624506
InteGrade engine clip mullion center	929001624406
InteGrade mounting clip for T style prof	929000853213
Profiles	
InteGrade profile 875mm(34")	929000643413
InteGrade profile 1175mm(46")	929000643313
InteGrade profile 2000mm(79")	929000654413
InteGrade profile 2000mm(79") F style	929000654313
InteGrade profile 2000mm(79") L style	929000654513
InteGrade prof 2000mm(79") T style CTR	929000853013
InteGrade profile 2000mm(79") T style SD	929000853113
InteGrade profile 2356mm (93") M style	929000871313
Power cables - to connect engine to driver	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade cable 2.5m(98") black angle	929000644814
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m(98") white	929000644514
InteGrade power cable 2.5m(98") white	929000644714
InteGrade power cable 2.5m(98") white	929000644914
InteGrade power cable 2.5m(98") white	929001650106
InteGrade power cable 2.5m(98") white	929001624806
InteGrade power cable 2.5m(98") white	929001625106
InteGrade power cable 2.5m(98") white	929001625006
InteGrade power cable 2.5m(98") white	929000645014
InteGrade power cable 2.5m(98") white	929000645114
InteGrade power cable 2.5m(98") white	929001624706
InteGrade power cable 2.5m(98") white	929000874413
InteGrade power cable 2.5m(98") white	929000874313
InteGrade Y cable black	929000874313
Other accessories	
InteGrade engine lock inline	929000643713
InteGrade connector	929000959106
InteGrade magnet for M style profile	929000871413
InteGrade rotational bracket	929000874613

Accessories	Product code (GPC)
RDL track	
RDL track 1800mm G 929001653706	929001653706
RDL track 1200mm G 929001653806	929001653806
RDL track 600mm G 929001653906	929001653906
Power cables – to connect the RDL track to the driver	
InteGrade track power cable 1.5m G	929001654006
InteGrade track power cable 1.5m G angle	929001654106
Track cables – to connect the engines to the RDL track	
InteGrade track cable M 0.7m G angle 929001654206	929001654206
InteGrade track cable 0.7m G angle 929001654306	929001654306
InteGrade track cable 0.3m T angle 929001654406	929001654406
InteGrade track cable 0.4m T angle 929001654506	929001654506
InteGrade track cable 0.5m T angle 929001654606	929001654606

* G = Gray, M = Magnetic, T = Transparent



Suitable for:

Retail

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Philips CertaFlux RDL LED products



CertaFlux RDL LED system gen 3

Discount and price-fighter retail chains focus on costs. They leverage purchasing power to deliver value, and the customer expects affordable prices and a functional shopping experience. The lighting must support this image, which is where the Advance CertaFlux RDL portfolio comes in. It has established itself as an energy-efficient way to deliver the quality of light this cost-sensitive retail sector is looking for, especially in cooler and shelf applications.

CertaFlux RDL portfolio is optimized for standard applications lengths with options for main cooler applications. A carefully-selected range of accessories is also available including glare shields, mounting clips and cables.

The quality of light and performance are everything a retail discounter needs. With a CRI of >80 and a lumen efficacy up to 120 lm per watt, CertaFlux RDL illuminates products with a uniform, attractive light. What's more, the LEDs have minimal output degradation and color shift over time, so the light remains consistent throughout their long service life.

For shelf lighting

CertaFlux RDL shelf gen 1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
CertaFlux RDL shelf 575mm 830 G1	3	370	80	3000	929001665006
CertaFlux RDL shelf 855mm 830 G1	4.7	550	80	3000	929001665106
CertaFlux RDL shelf 1150mm 830 G1	6.2	740	80	3000	929001665206
CertaFlux RDL shelf 575mm 835 G1	3	370	80	3500	929001665306
CertaFlux RDL shelf 855mm 835 G1	4.7	550	80	3500	929001665406
CertaFlux RDL shelf 1150mm 835 G1	6.2	740	80	3500	929001665506
CertaFlux RDL shelf 575mm 840 G1	3	370	80	4000	929001665606
CertaFlux RDL shelf 855mm 840 G1	4.7	550	80	4000	929001665706
CertaFlux RDL shelf 1150mm 840 G1	6.2	740	80	4000	929001665806
CertaFlux RDL shelf 575mm MC G1	3	278	80		929001665906
CertaFlux RDL shelf 855mm MC G1	4.7	413	80		929001666006
CertaFlux RDL shelf 1150mm MC G1	6.2	555	80		929001666106

* Correlated color temperature within 5 SDCM range
* MC : meat color

For canopy lighting

CertaFlux RDL shelf gen 1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
CertaFlux RDL canopy 575mm 830 G1	8.6	1000	80	3000	929001667406
CertaFlux RDL canopy 855mm 830 G1	12.9	1500	80	3000	929001667506
CertaFlux RDL canopy 1150mm 830 G1	17.2	2000	80	3000	929001667606
CertaFlux RDL canopy 575mm 835 G1	8.6	1000	80	3500	929001667706
CertaFlux RDL canopy 855mm 835 G1	12.9	1500	80	3500	929001667806
CertaFlux RDL canopy 1150mm 835 G1	17.2	2000	80	3500	929001667906
CertaFlux RDL canopy 575mm 840 G1	8.6	1000	80	4000	929001668006
CertaFlux RDL canopy 855mm 840 G1	12.9	1500	80	4000	929001668106
CertaFlux RDL canopy 1150mm 840 G1	17.2	2000	80	4000	929001668206
CertaFlux RDL canopy 575mm MC G1	8.6	700	80		929001668306
CertaFlux RDL canopy 855mm MC G1	12.9	1050	80		929001668406
CertaFlux RDL canopy 1150mm MC G1	17.2	1400	80		929001668506

* Correlated color temperature within 5 SDCM range
* MC : meat color

Suitable for:

Retail

For further information visit signify.com/oemna

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For chillers with doors

CertaFlux RDL vertical with glareshield gen 1

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, min	K	GPC
CertaFlux RDL vrt 1500mm 830 SD WGS G1	9.4	1155	80	3000	929001666206
CertaFlux RDL vrt 1500mm 830 CTR WGS G1	19.8	2420	80	3000	929001666506
CertaFlux RDL vrt 1500mm 840 SD WGS G1	9.4	1155	80	4000	929001666306
CertaFlux RDL vrt 1500mm 840 CTR WGS G1	19.8	2420	80	4000	929001666606
CertaFlux RDL vrt 1500mm MC SD WGS G1	12.8	1090	80		929001666406
CertaFlux RDL vrt 1500mm MC CTR WGS G1	26.5	2260	80		929001666706
CertaFlux RDL vrt 1650mm 830 SD WGS G1	10.8	1270	80	3000	929001666806
CertaFlux RDL vrt 1650mm 830 CTR WGS G1	21.6	2640	80	3000	929001667106
CertaFlux RDL vrt 1650mm 840 SD WGS G1	10.8	1270	80	4000	929001666906
CertaFlux RDL vrt 1650mm 840 CTR WGS G1	21.6	2640	80	4000	929001667206
CertaFlux RDL vrt 1650mm MC SD WGS G1	14.2	1200	80		929001667006
CertaFlux RDL vrt 1650mm MC CTR WGS G1	28.9	2480	80		929001667306

* Correlated color temperature within 5 SDCM range
* MC : meat color

Constant voltage drivers

Product specification

Product name	Power consumption
	W, typical ± 20%
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ltG-N plug*	929000869613
CertaDrive 35W/24VDC 220-240V	929001424006
CertaDrive 60W/24VDC 220-240V	929001424106
CertaDrive 100W/24VDC 220-240V	929001424206
CertaDrive 120W/24VDC 220-240V	929001424306
Xitanium 77W 100-277V 3.2A XI077C320V024FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNS1M*	929000771913

* Only for NAM region

RDL track system

RDL track	Product code (GPC)
RDL track 1800mm G 929001653706	929001653706
RDL track 1200mm G 929001653806	929001653806
RDL track 600mm G 929001653906	929001653906

Power cables – to connect the RDL track to the driver

InteGrade track power cable 1.5m G	929001654006
InteGrade track power cable 1.5m G angle	929001654106

Track cables – to connect the engines to the RDL track

InteGrade track cable M 0.7m G angle 929001654206	929001654206
InteGrade track cable 0.7m G angle 929001654306	929001654306
InteGrade track cable 0.3m T angle 929001654406	929001654406
InteGrade track cable 0.4m T angle 929001654506	929001654506
InteGrade track cable 0.5m T angle 929001654606	929001654606

* G = Gray, M = Magnetic, T = Transparent

Accessories

Product specification	Product code (GPC)
CertaFlux RDL clip canopy 0° surface	929000957806
CertaFlux RDL clip canopy 30° surface	929001516006
CertaFlux RDL clip shelf front	929001516106
CertaFlux RDL clip shelf arm	929000643903
CertaFlux RDL clip shelf magnetic	929001624606
Power cables – to connect engine to driver	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m (39") black	929000641014
InteGrade power cable 2.5m (98") black	929000641114
InteGrade cable 1m (39") black angle	929000644614
InteGrade cable 2.5m (98") black angle	929000644814
InteGrade power cable 1m (39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m (98") white	929000644514
InteGrade cable 1m (39") white angle	929000644714
InteGrade cable 2.5m (98") white angle	929000644914
InteGrade power cable 3m black angle	929001650106
InteGrade power cable 6m white	929001624806
InteGrade spacer cable 113mm white	929001625106
InteGrade spacer cable 0.3m black	929001625006
InteGrade spacer cable 0.5m black	929000645014
InteGrade spacer cable 0.5m white	929000645114
InteGrade spacer cable M 0.7m 5.5c black	929001624706
InteGrade extension cab 1.5m (59")black	929000874413
InteGrade Y cable black	929000874313

Suitable for:

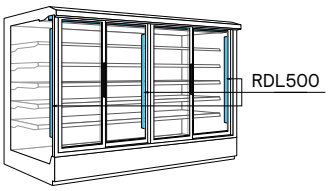
Retail

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LED display modules

Advance LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. RDL500 and RDL510 modules can be vertically integrated in full-height glass-door refrigeration cabinets.





RDL500

Value

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
PrimeSet RDL 500 1200 mm (47") 841 G1	7.9	900	85	4100	929000891106
PrimeSet RDL 500 1200 mm (47") 856 G1	9	1000	85	5600	929000891006
PrimeSet RDL 500 1500 mm (59") 841 G1	9.9	1200	85	4100	929000890706
PrimeSet RDL 500 1500 mm (59") 856 G1	11.7	1300	85	5600	929000890606
PrimeSet RDL 500 1700 mm (67") 841 G1	11	1300	85	4100	929000890306
PrimeSet RDL 500 1700 mm (67") 856 G1	12.9	1400	85	5600	929000890206

* Correlated color temperature within 5 SDCM range

Vision

Product specification

Product name	Power consumption	Lumen	Color Rendering Index	Correlated Color Temperature*	Product Code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
PrimeSet RDL 500 Vision 1200 mm (47") 841 G1	15.4	1900	85	4100	929001501806
PrimeSet RDL 500 Vision 1200 mm (47") 856 G1	17	2000	85	5600	929001501906
PrimeSet RDL 500 Vision 1500 mm (59") 841 G1	19.4	2200	85	4100	929000934106
PrimeSet RDL 500 Vision 1500 mm (59") 856 G1	22	2400	85	5600	929000934006
PrimeSet RDL 500 Vision 1700 mm (67") 841 G1	21.9	2500	85	4100	929000933906
PrimeSet RDL 500 Vision 1700 mm (67") 856 G1	24.7	2700	85	5600	929000933806

* Correlated color temperature within 5 SDCM range

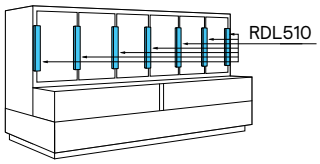
Suitable for:

Retail

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LED display modules





RDL510

Vision

Product specification

Product name	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Product code
	W, typical ± 20%	lm, typical ± 20%	CRI, typical	K	GPC
PrimeSet RDL 510 Vision 750 mm (30") 841 G1	9.3	1100	85	4100	929000934506
PrimeSet RDL 510 Vision 750 mm (30") 856 G1	10.2	1200	85	5600	929000934406
PrimeSet RDL 510 Vision 850 mm (34") 841 G1	10.8	1300	85	4100	929001502006
PrimeSet RDL 510 Vision 850 mm (34") 856 G1	12	1400	85	5600	929001502106
PrimeSet RDL 510 Vision 950 mm (37") 841 G1	11.8	1400	85	4100	929000934306
PrimeSet RDL 510 Vision 950 mm (37") 856 G1	12.9	1500	85	5600	929000934206

* Correlated color temperature within 5 SDCM range

Constant voltage drivers

Product name	Product code (GPC)
Xitanium constant voltage LED power driver 20W - 24V	9290 006 54006
Xitanium constant voltage LED power driver 80W - 24V	9290 006 53906
Xitanium constant voltage LED power driver 100W 24V 100/240V	9290 014 30080
Xitanium 77W 100-277V 3.2A XI077C320V024FNS1M *	929001708113
Xitanium 100W 4.1A 24V FIX INT -S*	9290 007 71913

* Only for NAM region

Accessories	Product code (GPC)
Profiles	
PrimeSet RDL-mount prof CTR 750mm	9290 008 94006
PrimeSet RDL-mount prof CTR 850mm	9290 015 07306
PrimeSet RDL-mount prof CTR 950mm	9290 008 94106
PrimeSet RDL-mount prof CTR 1200mm	9290 008 94206
PrimeSet RDL-mount prof CTR 1500mm	9290 008 94306
PrimeSet RDL-mount prof CTR 1700mm	9290 008 94406
PrimeSet RDL-mount prof SD 750mm	9290 008 94706
PrimeSet RDL-mount prof SD 850mm	9290 015 07406
PrimeSet RDL-mount prof SD 950mm	9290 008 94806
PrimeSet RDL-mount prof SD 1200mm	9290 008 94906
PrimeSet RDL-mount prof SD 1500mm	9290 008 95006
PrimeSet RDL-mount prof SD 1700mm	9290 008 95106
PrimeSet RDL-mount prof CTR 1200mm-47" B*	929000897706
PrimeSet RDL-mount prof CTR 1500mm-59" B*	929000894506
PrimeSet RDL-mount prof CTR 1700mm-67" B*	929000894606
PrimeSet RDL-mount prof SD 1200mm-47" B*	929000897806
PrimeSet RDL-mount prof SD 1500mm-59" B*	929000895206
PrimeSet RDL-mount prof SD 1700mm-67" B*	929000895306
Power cables - to connect engine to driver	
PrimeSet RDL - centre cable 1m (39") B	9290 008 92706
PrimeSet RDL - side cable 1m (39") B	9290 008 92806
PrimeSet RDL - centre cable 2.5m (98") B	9290 009 57206
PrimeSet RDL - side cable 2.5m (98") B	9290 009 57306

* Only for NAM region

Suitable for:

Retail

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bodine

Bodine emergency lighting

Innovative solutions for emergency lighting applications

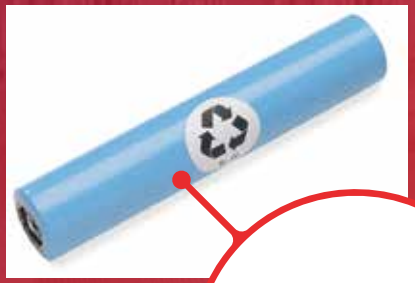
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Instant backup that complements original lighting designs.

Emergency lighting plays an important role in every facility's life safety program. Local, state and national building codes, such as the NFPA® 101® Life Safety Code® and National Electrical Code®, require reliable and sufficient emergency illumination for commercial, industrial and institutional buildings in the United States. When normal power fails for any reason, emergency lighting provides critical illumination.

Bodine emergency lighting provides instant backup
Bodine emergency LED drivers and inverters provide instant backup lighting whenever normal power fails. They deliver 90 minutes of battery-supplied power.

Complements original designs
Bodine emergency lighting units complement original lighting designs. Because they can be installed inconspicuously inside, on top of, near or remote from the fixture – depending on factors such as fixture, emergency lighting product and product model – they do not detract from fixture or interior design. Advance Bodine emergency lighting is emergency lighting you'll never see until you need it.



90 minute battery power supply



Nathan Bell
Product Manager

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Life safety code

AC power failures occur for a variety of reasons. Storms and other extreme weather conditions can affect AC power. Vehicular accidents, fires or equipment failure can also result in power outages. When this happens, liability concerns are inevitable. Serious accidents or mishaps could occur when occupants are left in total darkness during a power failure. In such instances, the first area of inquiry is often, “Did this building meet code?”

Laws, codes and regulations

Although state and local building codes vary, most are based upon:
1. National Electrical Code®, NFPA 70®, Article 700;
2. Life Safety Code®, NFPA 101®, Section 7.9;
3. Occupational Safety and Health Act (OSHA) regulations.

These codes provide complete information about emergency lighting requirements. However, a basic starting point is provided in the LSC 7.9.2.1 - 7.9.2.1.3 (2015), which states:

7.9.2.1 Emergency illumination shall be provided for a minimum of 1½ hours in the event of failure of normal lighting.

7.9.2.1.1 Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux), measured along the path of egress at floor level.

7.9.2.1.2 Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of 1½ hours.

7.9.2.1.3 The maximum-to-minimum illumination shall not exceed a ration of 40 to 1.

It is important to remember that codes generally set minimum standards. Specifiers, building owners, facility management or municipalities may choose to go beyond minimums in their effort to keep people and property safe.

“Did this building meet code?”

Maintenance

Codes mandate periodic monitoring of emergency lighting equipment once it is installed. Emergency operation must be tested monthly for a minimum of 30 seconds, and, for battery-powered systems, a 90-minute discharge test must be conducted once a year. Additionally, the NFPA requires that records be kept as proof of maintenance.[8]

Specifiers, building owners or facility management may choose to go beyond minimums in their effort **to keep people and property safe.**



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Innovations for emergency lighting applications

Bodine emergency lighting products are designed to fit today's sophisticated lighting technologies and applications.

A variety of products are available for applications that require code-compliant emergency lighting. Whether your design requires unit equipment for new or existing LED fixtures, fluorescent fixtures or devices for use in conjunction with generators, Bodine offers an emergency lighting solution for your application. Product features such as self-testing and suitability for extreme temperature environments and hazardous locations are available on selected models to fit the specified applications.



Emergency LED drivers

Bodine emergency LED drivers work in conjuction with LED fixtures to serve as code-compliant emergency lighting sources. The line includes drivers for indoor, outdoor, damp, cold temperatures, steplights, downlights, Class 2 installations and more. Optional features are available, and the emergency drivers can be installed inside, on top of, or remotely from the fixture, depending on the product, fixture and application. Most models are UL Listed.



Emergency inverters

Bodine emergency lighting inverters are sinusoidal (sine wave) units that support LED, TLED or fluorescent fixtures during loss of normal AC power. The inverters sense the loss of power and immediately begin supplying emergency power to the designated lighting load. Bodine inverters support emergency lighting for a code-required 90 minutes. Models are listed and comply with UL 924 emergency lighting standards.



Auxiliary emergency devices

Bodine offers distinct products created to work with generators. These energy-saving devices sense the loss of normal power and, in response, switch the lighting load to a generator or inverter-fed circuit, supplying emergency lighting regardless of local light switch position. This means emergency lighting is no longer dependent on expensive night lighting. Normal lighting can be switched off at the end of the day or whenever it's not needed without jeopardizing emergency lighting operation.

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LED emergency lighting for field installation

LED lighting as a general lighting source is becoming commonplace.

Not surprisingly, it's role in emergency lighting has also expanded. As with other types of lighting, LED lighting must meet the life safety code requirement for emergency illumination. LED fixtures serving as emergency units must, therefore, meet UL 924 emergency lighting requirements and provide at least 90 minutes of emergency lighting. Bodine LED drivers allow these fixtures to meet or exceed code.

Until recently, most emergency LED drivers were UL Component Recognized for factory installation only or were UL Classified. A Classified listing requires both operating compatibility and verification of the fixture with the Design Lights Consortium (DLC) database before the emergency driver can be field installed in the fixture. The restrictions associated with these listings make it more difficult – and in the case of UL Component Recognized drivers, not possible – for contractors or electricians to install an emergency LED driver in the field for new or retrofit applications.



Bodine offers UL Listed, field-installable, emergency LED drivers. Most of the Bodine LED driver portfolio is UL listed for installation in the field, and Bodine was the first to offer field-installable emergency LED drivers for the U.S.

UL Listed, field-installable emergency LED drivers:

1. Eliminate factory installed up charges.
2. Eliminate the legwork involved in the field-install process associated with UL Classified emergency LED drivers.

To use a UL Classified emergency LED driver, one must ensure that:

1. The luminaire that will receive the emergency LED driver is in the DLC database. If it is not included in the database, the emergency driver cannot be installed in the field.
2. The luminaire must be compatible with the emergency LED driver.
   Even though the luminaire is listed in the database, compatibility is not guaranteed.

Some UL Classified emergency drivers simplifies the process for field installation by eliminating the time consuming measures required by a Classified listing.

Bodine continues to lead the industry by providing the solutions required by lighting professionals

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Emergency LED drivers

Model	12 NC	Class Rating	Output Voltage (VDC)	Average Output Power	Dimensions	UL	BC		Feature / Benefit
BAC40EM6	913702469101	Class 2	22.5 - 54	40W AC / 6W EM	14.1" x 1.18" x 1.0" + battery		●	●	Combination AC and emergency driver SimpleSet AC output programming Separate battery design
BAC40EM10	913702469401	Class 2	22.5 - 54	40W AC / 10W EM	14.1" x 1.18" x 1.0" + battery		●	●	Combination AC and emergency driver SimpleSet AC output programming Separate battery design
BSL4L	913702469501	Class 2	15 - 54	4.0 W	16.7" x 1.18" x 1.0"	●	●		Compact design
BSL4SB	913702469701	Class 2	15 - 50	4.0 W	6.57" x 2.25" x 1.18" + battery	●	●		Cold temps (-4° F to +131° F) Separate battery design
BSL6LST	913702477001	Class 2	15 - 54	6.0 W	14.1" x 1.18" x 1.0"	●	●		Self-testing Compact design
BSL8SB	913702469801	Class 2	15 - 50	8.0 W	6.57" x 2.25" x 1.18" + battery	●	●		Cold temps (-4° F to +131° F) Separate battery design
BSL10LST	913702476001	Class 2	15 - 54	10.0 W	16.6" x 1.18" x 1.0"	●	●		Self-testing Compact design
BSL10 Cold-Pak	913702453401	Class 2	24 - 52	14.0 W	8.97" x 3.5" x 2.9"	●			Cold temps (-4° F to +131° F)
BSL17C-C2 (conduit) BSL17-C2 (non-conduit)	913702454801 913702454701	Class 2	15 - 50	7.0 W	12" x 2.4" x 1.5"	●	●		Multiple mounting configurations
BSL17C-C2ST	913702462301	Class 2	15 - 50	7.0 W	12" x 2.4" x 1.5"	●	●		Self-testing Multiple mounting configurations
BSL17C (conduit) BSL17 (non-conduit)	913702455001 913702455101	non Class 2	30 - 130	7.0 W	12" x 2.4" x 1.5"	●	●		Multiple mounting configurations
BSL20LV	913702452501	Class 2	20 - 50	20.0 W	16.6" x 2.8" x 2.85"	●	●		High output Dual flex option
BSL20MV BSL20HV	913702452401 913702452301	non Class 2	50 - 130 125 - 200	20.0 W	16.6" x 2.8" x 2.85"	●	●		High output Dual flex option on HV model
BSL36 Cold-Pak	913702463901	Class 2	15 - 52	6.0 W	9.4" x 2.6" x 1.5"	●			Cold temps (-4° F to +131° F)
BSL310C (conduit) BSL310M (non-conduit)	913702457101 913702451801	Class 2	15 - 50	10.0 W	15.34" x 2.25" x 1.16"	●	●		Universal input Metal case
BSL310C-DF (conduit)	913702457401	Class 2	15 - 50	10.0 W	15.34" x 2.25" x 1.16"	●	●		Universal input Dual flex conduit on one end
BSL310LP	913702458001	Class 2	15 - 52	10.0 W	22.5" x 1.18" x 1.18"	●	●		For low-profile fixtures Universal input
BSL310LPST	913702462401	Class 2	15 - 52	10.0 W	22.5" x 1.18" x 1.18"	●	●		For low-profile fixtures Universal input, Self-testing
BSL310SB	913702460201	Class 2	15 - 50	10.0 W	6.57" x 2.25" x 1.18" + battery	●	●		Universal input Separate battery
BSL310HAZ	913702460301	Class 2	15 - 50	10.0 W	15.34" x 2.25" x 1.16"		●	●	Suitable for hazardous locations
BSL310HAZSB	913702478701	Class 2	15 - 50	10.0 W	15.34" x 2.25" x 1.16"		●	●	Suitable for hazardous locations, separate battery
BSL718	913702462901	Class 2	20 - 50	18.0 W	9.4" x 2.2" x 1.05" + battery	●	●		Normal or extreme temps (-4° F to +140° F)
BSL722 (non-conduit)	913710896502	Class 2	28 - 33	23.1 W	9.4" x 2.2" x 1.05" + battery			●	Universal input Drives two LED arrays in parallel
BSL722 Cold (non-conduit)	913702429201	Class 2	28 - 33	23.1 W	9.4" x 2.2" x 1.05" + battery			●	Universal input, Cold temps (-4° F to +140° F) Drives two LED arrays in parallel Separate battery design

Additional product information can be found on the model specification sheets at www.bodine.com.

Suitable for:

Emergency Indoor Industry

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Integrated technologies

A simple equation for a comprehensive solution

1 + 1 = one
the UltimateOne driver

The BAC40EM10 and BAC40EM6 are a combination 40W dimming LED driver with SimpleSet technology and a 10W or 6W emergency LED driver in one low-profile case. The combination drivers are supplied with a separate hightemperature nickel-cadmium battery with one simple connection point and can deliver up to 10W or 6W, depending on the model, to a Class 2 LED load (measured at nominal battery voltage) for 90 minutes in emergency mode. They are suitable for indoor and damp locations, are universal input units and dim to 1%. The AC operation for the drivers must be programmed with SimpleSet technology.* The combination design guarantees compatibility between AC and emergency drivers and helps simplify the installation process.

Operation

During normal operation, the combination drivers operate as a standard SimpleSet programmable 40W AC driver. When AC power fails, they immediately switch to the emergency mode, operating LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver circuitry automatically returns to the charging mode.

Wireless programming benefits

Using SimpleSet technology, OEMs will be able to quickly and easily program the driver's maximum output current and its dimming profiles without it being powered or wired. This speed and flexibility will allow OEMs and their customers to set and reset parameters as needed.

Benefits

- Combined AC and emergency LED driver in one compact, low-profile case
- AC/EM driver compatibility is confirmed
- Separate battery for mounting flexibility
- Fewer wires to help simplify installation
- Class 2 output - UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Compatible with a variety of LED strip manufacturers
- SimpleSet programming for AC operation
- 0 - 10V dimming to 1%
- Meets California Energy Commission Title 20 efficiency requirements
- RoHS compliant



Model	12 NC	Dimensions (L x W x H)	Battery Dimensions	Emergency Initial Output Power (W)	Emergency Illumination Time (mins.)
BAC40EM6	913702469101	14.1" x 1.18" x 1.0"	1" dia. x 14.1"L	6 W	90 minutes
BAC40EM10	913702469401	14.1" x 1.18" x 1.0"	1" dia. x 14.8"L	10 W	90 minutes

Consult the product specification sheet for more information.

RoHS COMPLIANT

Emergency lighting contact information

Phone

Sales: 800-223-5728
Tech Support: 888-263-4638
Local: 901-853-7211
Fax: 901-853-5009

E-mail

For technical questions, contact tech support at BodineTech@signify.com or visit the Tech Support page (http://www.bodine.com/tech/tech.html) on our website, **www.bodine.com.**

Suitable for:

Emergency | Indoor | Industry

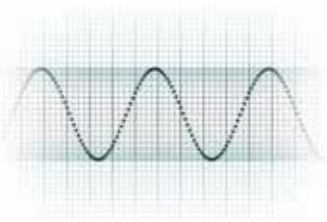
* For more information on SimpleSet technology, please visit www.signify.com/en-us/brands/advance/led-drivers/simpleset.

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Inverters for emergency lighting applications

Bodine offers a range of sinusoidal output emergency lighting inverters. The inverters allow designated lighting fixtures (loads) to serve as code-compliant emergency lighting sources during failure of normal AC power.

Emergency lighting inverters work with a variety of lighting systems (e.g., LED, fluorescent) and lamp types (e.g., LED strip system, Edison-based, fluorescent linear, CFL). In addition, they are suitable for almost any setting, including retail, commercial, hospitality, schools and healthcare. Emergency lighting inverters are an excellent choice for use with multiple fixtures and in cases where emergency LED drivers cannot be used, such as with integral-base lamps. They also offer the advantage of long-distance remote installation.



Sinusoidal output

A key feature of Bodine emergency lighting inverters is sinusoidal output. Sinusoidal output is especially important for LED applications and is characterized by low harmonic distortion and by clean power similar to that produced by utility-supplied electricity.

The patented dimming advantage

Select Bodine inverters, like the ELI-S-10, include patented auto-sensing dimming control output with an industry standard 0–10V. This automatic dimming capability allows a group of multiple luminaires to be driven in emergency mode at the inverter's maximum input power.* The dimming inverter is programmed to sense and calculate the necessary output needed to illuminate the connected fixtures, without the use of preset dip switches. The patented dimming technology is exclusive to Bodine inverters and saves you time and money by simplifying installations and allowing your emergency fixtures to be on, off, switched or dimmed without affecting emergency operation.



* AC input power is always more than the LED or fluorescent output power rating. Additionally, LED drivers and fluorescent ballasts operate at a lower input-to-output power ratio in a dimmed condition than they do when operated at full brightness level.

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Bodine emergency inverters are compatible with LED, TLED, fluorescent and incandescent lighting and are Listed for field installation.

up to 10VA emergency operation

Patented auto-dimming of connecting lighting



ELI-S-10

- UL Listed for U.S. and Canada - UL 924 compliant
- Provides up to 10VA in emergency mode - 90 minutes
- Pure sinusoidal output
- Small form factor
- Patented automatic dimming (0-10V) of connected loads
- Compatible with single and multi-channel LED dimming drivers
- Remote installation up to 250 feet

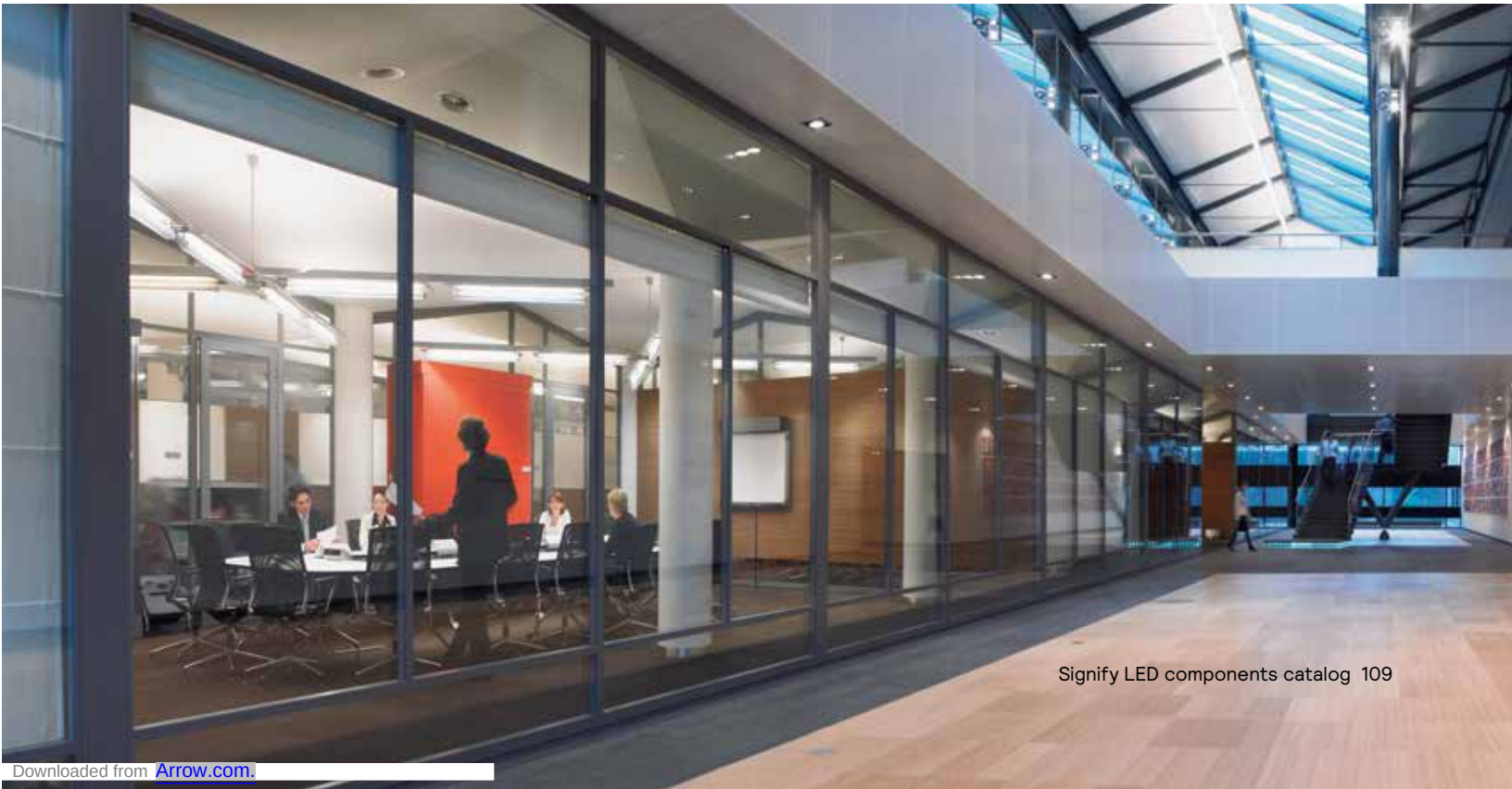
up to 25VA emergency operation



ELI-S-20

- UL Listed for U.S. and Canada - UL 924 compliant
- Provides up to 25VA in emergency mode - 90 minutes
- Pure sinusoidal output
- Operates fixtures at full brightness in emergency mode
- Ideal for but not limited to screw-base LED lamps
- Auto-select input voltage to help reduce wiring errors
- Fused output load connections
- Remote installation up to 250 feet

Check our website at www.bodine.com for more information, instructions and detailed product specifications.



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ELI-S-10 10VA pure sine wave nano inverter

ELI-S-10 comes in a compact form factor and includes auto select (120/277 VAC) to help reduce wiring errors. The compact size enables ELI-S-10 to simplify installation and provide flexibility.

The Bodine ELI-S-10 emergency lighting inverter is technology that fits. The 10VA unit's size (390 mm x 58 mm x 30 mm) helps simplify installation and provide flexibility. Models without a conduit, with a conduit or with a conduit and dual flex are available.

With patented dimming technology, the ELI-S-10 allows you to dim a higher power fixture, with 0-10V dimming, to 10VA automatically in emergency mode. You won't need a large inverter to work with your 50W fixture, and no dip switches need to be set.

ELI-S-10 works in applications when a standard emergency LED driver will not, such as with an LED screw-base lamp or a tunable white luminaire with limited access to the complete light engine for emergency illumination.

Benefits

- 10VA pure sinusoidal emergency lighting inverter
- Compatible with single and multi-channel LED dimming drivers
- Small form factor for installation inside or outside the luminaire
- Patented automatic dimming without custom configuration
- Automatic output voltage selection between 120VAC or 277VAC at 60Hz
- UL Listed for field or factory installation and CEC Title 20 compliant
- Remote-mounting up to 250 feet



Model	12 NC	Power (VA)	Feature
ELI-S-10	913702471101	10	Non-conduit
ELI-S-10C	913702471301	10	Conduit
ELI-S-10CDF	913702471401	10	Conduit and dual flex

Consult the product specification sheet for more information.

Specifications

UL Listed for US and Canada	Listed to UL924 and tested to CSA 22.2, No. 141. For Field or Factory Installation (Indoor and Damp)
Max Output Power	10VA into load
Total Connected Output Load	Dimmable lighting loads. 0-10V dimmable lighting loads with an input power of up to 50W maximum for LED drivers and fluorescent ballasts. Non-dimmable energency loads, input power of 10VA maximum.
Illumination Time	90 Minutes
AC Input Voltage and Current (charging only)	120 through 277 VAC, 50/60 Hz, 80 mA
Recharge Time	24 Hours
Charging Indicator Light	Integrated LED Test Switch
Battery	Maintenance-Free Li-Ion Battery
Output Voltage	120 VAC +/- 10% or 277 VAC +/- 10% (Automatically Selected)
Output Frequency	60 Hz, +/- 5%
Temperature Rating (Ambient)	32° F to 122° F (0° C to 50° C)
Dimensions	15.34" L x 2.25" W x 1.16" H (390 mm x 58 mm x 30 mm) Mounting center - 15.0" (381mm)
Weight	3.45 lbs. (1.56 kg)
Warranty	5-year limited warranty (not pro-rata)

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Suitable for:

Emergency Indoor Industry

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ELI-S-20 25VA sine wave inverter

ELI-S-20 includes auto select (120/277 VAC) to help reduce wiring errors. With the convenient auto select feature, ELI-S-20 automatically detects input voltage and sets the output voltage accordingly.

The Bodine 25VA ELI-S-20 emergency lighting inverter transforms LED, TLED and fluorescent fixtures into code-compliant emergency lighting.

It is the ideal emergency backup for the Edison-base (screw-base) LED lamps that are commonly replacing CFLs in retrofit applications and is a superior choice for office, retail, hospitality and other similar spaces.

ELI-S-20 allows fixtures to be on, off, switched or dimmed. It supports 100% of AC rated output throughout its 90-minute runtime so fixtures operate at full brightness during emergency operation. The device is designed for use with indoor applications.

The ELI-S-20 features an LED-friendly sinusoidal (sine) waveform and is designed for new and retrofit lighting projects.



Benefits

- Works with LED, TLED and fluorescent fixtures up to 25VA
- Supplies 90 minutes of emergency illumination at full brightness
- Ideal for but not limited to screw-base LED lamps
- Compatible with Advance 22W TLED linear LED lamps and most manufacturers' LED lamps[10]
- Suitable for indoor, dry and damp applications
- Features fused output load connections
- AC input power rating: 9.5W; output voltage 120/277 VAC (auto select), 60 Hz
- Dimensions: 16.6" x 2.8" x 2.85"
- Remote mounting distance: 250 feet max.
- 5-year limited warranty[9]
- UL Listed for up to 25VA / CSA Certified for up to 20VA

Specifications

UL Listed for US and Canada
Listed to UL924 and tested to CSA 22.2 No. 141
Field or Factory Installation (Indoor and Damp)
Output Class 2 Compliant

Illumination Time
90 Minutes

Maximum Load Power (including AC ballast/driver)
20 W (0°C to 50°C) UL and CSA
25 W (0°C to 45°C) UL only

Full Warranty
5 years (NOT pro-rata)

AC Input Voltage
120 or 277 VAC, 60 Hz

AC Input Current
65 mA

AC Input Power Rating
8.0 W

Output Voltage
120/277 VAC (Auto Select), 60Hz

Output Current
120 V, 165 or 210 mA 277 V, 72 or 90 mA

Test Switch
Single Pole (Momentary)

Battery
High-Temperature, Maintenance-Free , Nickel-Cadmium Battery,
7- to 10-year life expectancy

Battery Charging Current
250 mA

Recharge Time
24 Hours

Charging Indicator Light
LED

Temperature Rating (Ambient)
32° F to 122° F (0° C to 50° C) for 20 W
32° F to 113° F (0° C to 45° C) for 25 W

Weight
5 lbs. (2.3 kg)

Model	12 NC	Power (VA)	Feature
ELI-S-20	913701233802	25	For LED, TLED and fluorescent lamps

Consult the product specification sheet for more information.

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Suitable for:

Emergency Indoor Industry

Emergency lighting contact information

Phone

Sales: 800-223-5728
Tech Support: 888-263-4638
Local: 901-853-7211
Fax: 901-853-5009

E-mail

For technical questions, contact tech support at BodineTech@signify.com or visit the Tech Support page (http://www.bodine.com/tech/tech.html) on our website, **www.bodine.com.**

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Auxiliary applications

Generators are often employed to back up the normal power supply for important systems, such as lighting. Bodine offers distinct products for generator applications.

Bodine offers innovative products created to work with generators or central inverter systems. These energy-saving devices sense the loss of normal power and, in response, switch the lighting load to a generatoror inverter-fed circuit.

Bodine offers distinct products designed to work with generators and central inverter systems: the GTDU and BLCD families. These products work in conjunction with a generator or central inverter system to supply emergency lighting regardless of local light switch position. This means emergency lighting is no longer dependent on expensive night lighting. In fact, you can switch off normal lighting at the end of the day or whenever it's not needed without jeopardizing emergency lighting operation. These energy-saving devices sense the loss of normal power and, in response, switch the lighting load to a generator- or inverter-fed circuit.



GTDU

The new GTDU generator transfer device has Bodine ingenuity embedded within, with upgrades and features with the user in mind. The GTDU is the first generator transfer device designed with a dual Listing to UL 1008 (transfer switch) and UL 924 (switch bypass), it offers the smallest form factor for a UL 1008 device and provides other upgraded features. It is designed for areas in which only one fixture may be needed for egress lighting, such as a stairwell or classroom, or in areas where multiple switches are in use. The GTDU supports a lighting load up to 2A.

BLCD-20B

The BLCD-20B operates as a control or bypass device. The small, easy-to-install unit mounts directly onto a junction box and supports a lighting load up to 20A. It features auto-select to automatically select the correct voltage and offers a remote testing capability that permits it to interface with fire alarms and security panels.

GTD10DIM

The Bodine GTD10DIM operates as a switch bypass device and works in conjunction with an auxiliary generator or central inverter system to power existing LED or fluorescent fixtures for egress lighting regardless of wall switch position (ON/OFF). It can be used to override a 0-10V dimmer to full brightness. The GTD10DIM has an LED lighting load rating up to 10A. It is UL 924 Listed for the U.S. and Canada.

	Model	Function	Lighting Load
NEW!	GTDU	Control device	2A max for fluorescent, incandescent, HID and LED
	BLCD-20B	Control or bypass device	20A max for fluorescent and LED; 10A max for incandescent
	GTD10DIM	Switch bypass device	10A max for fluorescent, incandescent, HID and LED
	BLCD16DIM	Emergency lighting control unit	16A max for fluorescent, incandescent, HID and LED
	GTD20A	Transfer switch or bypass device	20A max for fluorescent, incandescent, HID and LED

Consult the product specification sheet for more information.

GTD20A

The GTD20A automatic transfer switch/bypass device is the first-of-a-kind dual Listed emergency lighting control product for use as a branch circuit emergency lighting transfer switch (BCELTS) and automatic load control relay (ALCR) or bypass device. It works with a generator or central inverter system to supply power to designated loads. The GTD20A functions as a transfer switch or bypass device and may be installed in areas where a number of fixtures are used and are controlled with a single wall switch, dimming control, occupancy sensor, photocell or any other control device used to turn these fixtures on and off. GTD20A allows multiple application and wiring options, including wiring schemes for both line and low voltage dimming. It features universal input and supports a maximum lighting load of 20A. The GTD20A is listed for use as an automatic transfer switch for emergency lighting under UL

Suitable for:

Emergency Indoor Industry

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Upgraded energy-saving

Power transfer device

The GTDU is an upgraded generator transfer device which features a dual Listing to UL 1008 (transfer switch) and UL 924 (bypass switch). It offers the smallest form factor for a UL 1008 device, 0-10V dimming control override, while reducing AC line current and power consumption.

The GTDU senses the loss of normal AC power and bypasses the local switch device enabling emergency power directory to the luminaire/fixture regardless of how the switch is positioned.



Key Upgraded Features

- Dual listed to UL 1008 (transfer switch) and UL 924 (switch bypass)
- 0-10V dimming control override capable
- Reduced AC line current and power consumption
- Universal input 120-277 VAC, 50/60 Hz
- 24VDC fire alarm override capable

Model	12 NC
GTDUM	913702479201

Consult the product specification sheet for more information.

Benefits

- Allows ON/OFF switching of generator or central inverter supplied emergency lighting
- Can be used with incandescent, fluorescent or LED lighting loads and provide full light output when in normal mode
- Suitable for indoor or damp locations and plenum rated luminaires/enclosures
- 2A electronic ballast/driver rating
- No batteries required
- Meets or exceeds Light Safety Code requirements
- Full 5-year (NOT pro-rata) warranty from date of purchase

Specifications

UL Listed	UL 924 and UL 1008 Listed for use as a Switch Bypass or Branch Circuit Emergency Lighting Transfer Switch (BCELTS) factory or installation
Full Warranty	Full 5-year (NOT pro-rata) warranty from date of purchase
Dual Input Voltage	120 through 277 VAC, 50/60 Hz
AC Input Current	30 mA
AC Input Power Rating	2.3 Watts
Switched Load Rating	Up to 277 VAC at a maximum load current of 2 amps
Temperature Rating (Ambient)	-20°C to +65°C (-4°F to 149°F)
Dimensions	6.61" x 2.32" x 1.50" (168 x 59 x 38 mm) Mounting Center 5.98" (152 mm)
Weight	1.00 lbs. (0.45 kg)

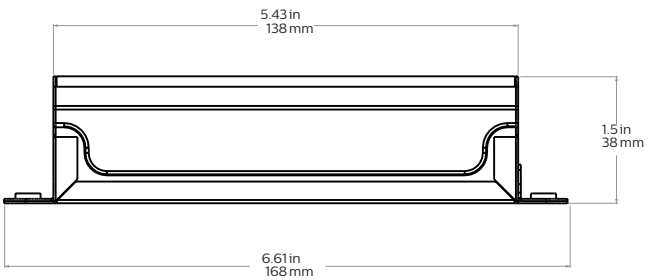
Consult the product specification sheet for more information.

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Dimensions

6.61" x 2.32" x 1.50" (mounting center - 5.98")



Suitable for:

Emergency Indoor Industry

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Lighting definitions explained

Legend technical specifications	Symbol	Definition
Backward compatible		It can work with an older product or technology
Beam angle	(°)	Exit angle of the light beam
Central beam candela		Power emitted by a light source in a particular direction. A common candle emits light with a luminous intensity of roughly one candela
Chip on board	CoB	Refers to the semiconductor assembly technology wherein the microchip or die is directly mounted on and electrically interconnected to its final circuit board, instead of undergoing traditional assembly or packaging as an individual IC
Correlated color temperature	K	CCT; describes whether white light appears warm (reddish), neutral or cool (bluish)
Color rendering index	CRI	The ability to reproduce the colors of various objects fainthfully in reference to an ideal light source
Color consistency (initial)	SDCM	Standard Deviation of Color Matching; describing the difference between two colors. e.g. a differente of 1-3 SDCM is virtually imperceptible; a difference of 4 or more is readily visable
Connectivity		The capacity to be connected to other appliances, facilities and the Internet
Digital		A collection of evolving technologies that enables generation, collection, analysis, storage in real-time and data exchange
Dimmable average lifetime 10% failure	hrs	Lifetime in hours, defined by reaching 10% failures (i.e. 90% survivors) when dimmed
Dimming range		Dimming range in which the system will perfom as specified
Driver power factor		Indicating how effective the driver converts electric current to usefull power output
Efficiency range max load		Efficiency when operated at maximum power (not dimmed)
GPC code		European Product code
Frequency	Hz	See line frequency
Housing color		Color of housing
Input Voltage	V	Voltage required as input for the product
IP classification		Ingress protection defined in terras of object size and water beam protected against
Inrush current peak		Highest current the capacitative components operate at start up
Lifetime	hrs	Lifetime in hours, associated with specific conditions (e.g. lumen maintenance, Tc, failure)
Lifetime 10% failure	hrs	Lifetime in hours, defined by reaching 10% failures (i.e. 90% survivors) for a population
Light output	lm	Output of luminous flux
Lumen maintenance @ 50,000 hrs		% of the original lumen flux remaining after indicated (life-) time for a defined population; e.g. B50/L70 indicates 50% of the population retaining 70% of the orginal light output
Luminous flux	lm	Total energy emitted by a light source across the visible wavelengths of light
Module efficacy	lm/VV	Efficiency module; lumen output per Watt input
Module power	W	Energy required to operate the module
Module temperature control		Protective feature with which the driver is regulating down the module power when a certain critical temperature of the module is passed
Passive cooling		Cooling without power consumption
Passive Infrared (PIR)		All objects with a temperature above absolute zero emit heat energy in the form of radiation. PIR technology enables the detection of infrared radiation emitted by or reflected from the objects.
Power factor	Pf	See: driver power factor
Relative humidity	%	Portion of water vapor in a mixture of air and water vapor
Smart fixture		Lighting fixtures that are enabled for connectivity becoming a node in the network by containing one or more sensors and having the ability to change behaviour as a response to a stimulus
System efficacy	lm/W	Efficiency module + driver
System power	W	Energy required to operate the system
Tc life driver	°C	Temperature of indicated point on the product on which the lifetime is based
Tc life module	°C	Temperature of indicated point on the product on which the lifetime is based
Zhaga		Zhaga is an industry-wide cooperation between companies aimed at enabling the interchangeability of LED light sources made by different manufacturers

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Footnotes

1. Average rated life is based on engineering data testing and probability analysis. The hours are at the B50, L70 – 50,000 hours life with 70% lumen maintenance at Tc of 56°C for 3R and 61°C for 1R.
2. Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.
3. Indicates that the LEDs are components recognized with UL and complies with UL8750 Standard for LEDs.
4. Advance Fortimo LED linear module is a Zhaga certified light engine. For more information visit www.zhagastandard.org.
5. Advance Xitanium LED drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTBF modeling.
6. View limited warranty at www.signify.com/warranties for details and restrictions.
7. NFPA® 101® Life Safety Code® e.g., 14.2.9 Emergency Lighting, 18.2.9 Emergency Lighting, 28.2.9 Emergency Lighting and 38.2.9 Emergency Lighting, 2015.
8. NFPA® 101® Life Safety Code® 7.9.3 Periodic Testing of Emergency Lighting Equipment, 2015.
9. Warranty information is available at www.bodine.com/sales/warranty.html.
10. Contact Bodine technical support at 888-236-4638 for compatibility information.
11. When combined with Fortimo LED thermal accessory G1. Please refer to product design-in guide for design instructions and restrictions.
12. When combined with the Fortimo thermal accessory G1, the need for an external heat sink is eliminated (for up to 3,000 lm, according to the product design-in guide rules), resulting in simplified thermal management design and testing.
13. For indoor linear applications.

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