PHILIPS

LEDALITE

Recessed

VersaForm LED

LED Solutions

Unlock your **vision**

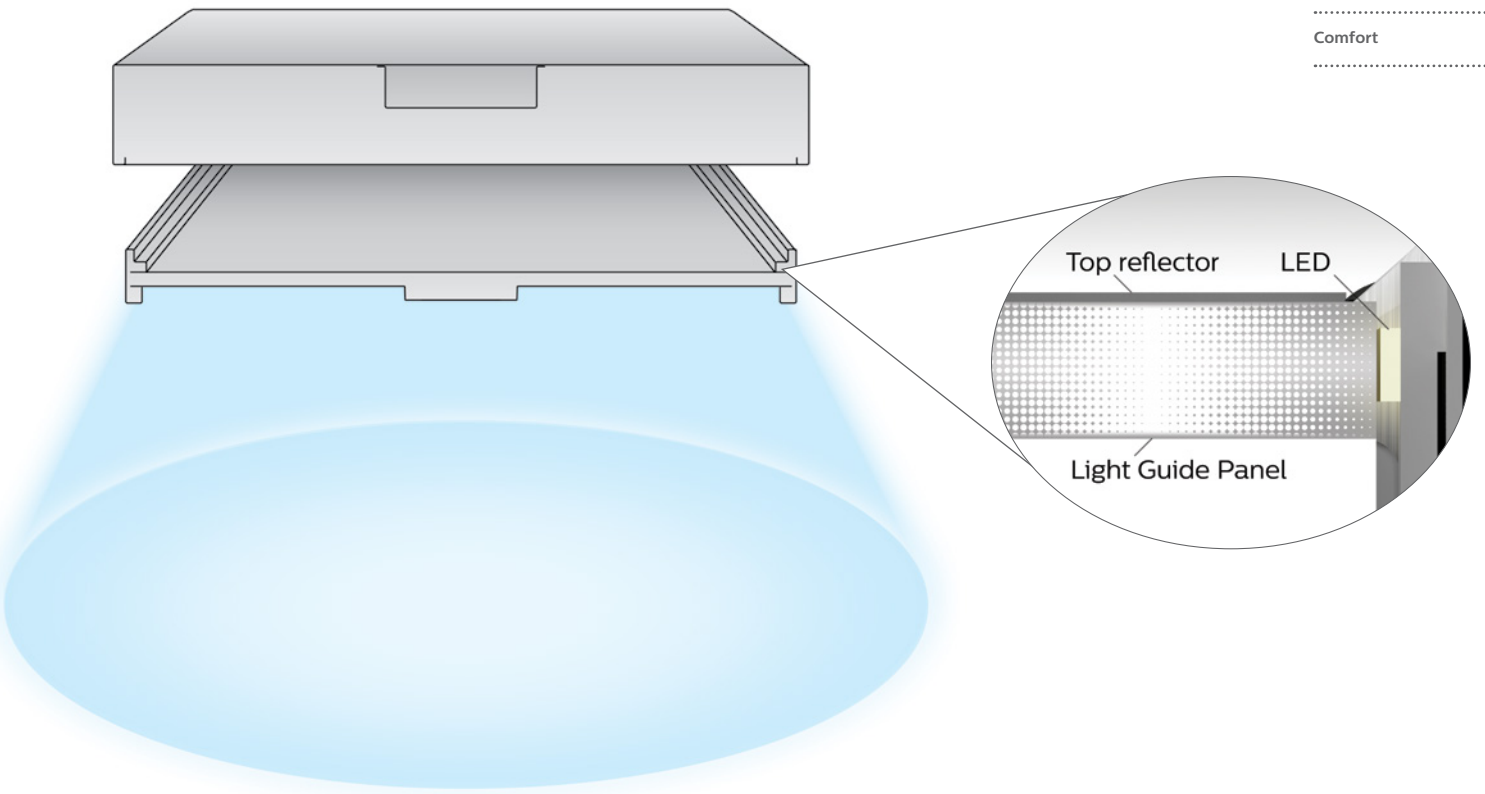
Harmonious style and uncompromising quality combine seamlessly in the Philips Ledalite VersaForm LED recessed luminaire family.

Recessed lighting that's right for you

The VersaForm recessed luminaires were specifically designed to blend high performance LED technology with versatile options to suit any area. You can create a solution specific to your style with VersaForm's wide palette of sizes, lumen packages, color temperatures, color renderings, housings, mountings, and optional controls and sensors. This allows you to enjoy the latest LED energy efficiencies in concert with your unique style, and as your needs evolve, it's simple to change or upgrade with our unique detachable light engine.

Create a space that's perfect for everyone

The VersaForm family allows you to incorporate comfortable brightness in the area and maintain balanced luminance across the lens without a distracting glare. And, you can reduce the overall number of luminaires while maintaining light levels, so there are less fixtures to maintain. VersaForm's LED technology helps to reduce energy costs and by easily accessing the driver and wiring from below the ceiling, maintenance costs are also lowered. Savings are further enhanced with optional add-ons.



Engineered to dazzle

Using our Light Guide technology, light is emitted from the LEDs into the edge of a thin, flat panel in the luminaire. As the light is transmitted through the panel via total internal reflection (TIR), graduated, engineered surface structures homogenize and extract the light. This creates a smooth, gentle luminance, and also evenly distributes the light in an ultra-wide batwing configuration.

This ultra-wide batwing configuration provides excellent work-plane uniformity, and also increases on-center row spacing so you can use fewer luminaires in your space, thus saving money, while still achieving comfortable light levels.

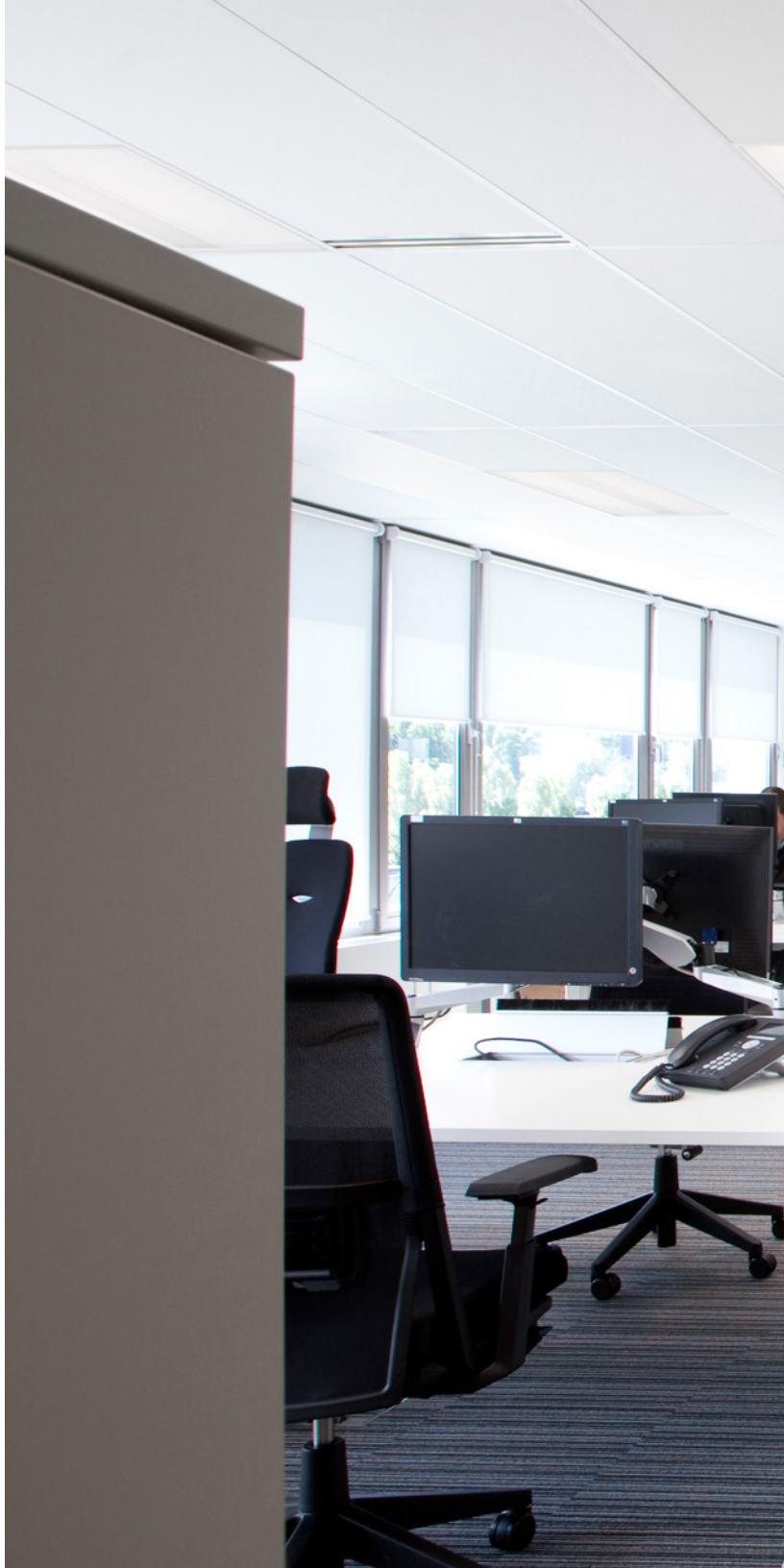
Simply befitting

Versatile styles and flexible options seamlessly complement your unique design today, as well as your visions for the future.

Fixture	Specifications	
Size: 2x2 CRI: 80 CCT: 3500 K Lumens: 4000 lm*	**Light Level** 37 fc	**Energy Density** 0.52 W/ft²
	Luminaire Efficacy 101.5 lm/W	**Workplane Uniformity** 1.84 (max/min)

Dimensions: 30' L x 14' W x 8' H
Reflectances: 80/50/20%
Layout: 8' x 10' o.c.

*Nominal output within a range



Blend function with budget

VersaForm offers versatile styles and flexible options to seamlessly complement your unique design today, as well as your visions for the future. The energy saving LED and optional sensors, balanced brightness, easy upgradability and lower maintenance ensure the lighting solution fits into your customer's budget.

Fixture	Specifications	
Size: 1x4 CRI: 80 CCT: 3500 K Lumens: 3000 lm*	**Light Level** 37 fc	**Energy Density** 0.21 W/ft^2
	Luminaire Efficacy 102.0 lm/W	**Workplane Uniformity** 1.57 (max/min)

Dimensions: 24' L x 16' W x 8' H
Reflectances: 80/50/20%
Layout: (3) 1' x 4'

*Nominal output within a range

Leverage the sun and react to life

Create a space which automatically adjusts light levels when daylight enters the room, or dims to low levels when people leave the area, thus minimizing distractions and conserving energy.

Fixture	Specifications	
Size: 2x2 CRI: 80 CCT: 3500 K Lumens: 3000 lm*	**Light Level** 25 fc	**Energy Density** 0.40 W/ft^2
	Luminaire Efficacy 98.0 lm/W	**Workplane Uniformity** 2.6 (max/min)

Dimensions: 14' L x 10' W x 9' H
Reflectances: 80/50/20%
Layout: 4' o.c.

*Nominal output within a range

Design a space that is bright and inviting

Brighten your classrooms and any learning environment with clean, balanced light levels so that teachers and students can comfortably interact without eye strain and discomfort associated with glare.

Fixture	Specifications	
Size: 2x4 CRI: 80 CCT: 3500 K Lumens: 5200 lm*	**Light Level** 39 fc	**Energy Density** 0.43 W/ft²
	Luminaire Efficacy 112.8 lm/W	**Workplane Uniformity** 4.5 (max/min)

Dimensions: 40' L x 24' W x 8' H
Reflectances: 80/50/20%
Layout: 8' x 12' o.c.

*Nominal output within a range

Improve efficiency where it counts

VersaForm's high efficacy and ultra-wide batwing distribution allow you to use fewer luminaires overall. And, their long-life LEDs means you will spend less time maintaining them so your customers can spend more time focusing on what's most important - patient well-being

Fixture	Specifications	
Size: 2x4 CRI: 80 CCT: 4000 K Lumens: 5200 lm*	**Light Level** 29 fc	**Energy Density** 0.43 W/ft²
	Luminaire Efficacy 110.7 lm/W	**Workplane Uniformity** 1.80 (avg/min)

Dimensions: 24' L x 16' W x 8'6" H
Reflectances: 80/60/40%
Layout: 12' o.c.

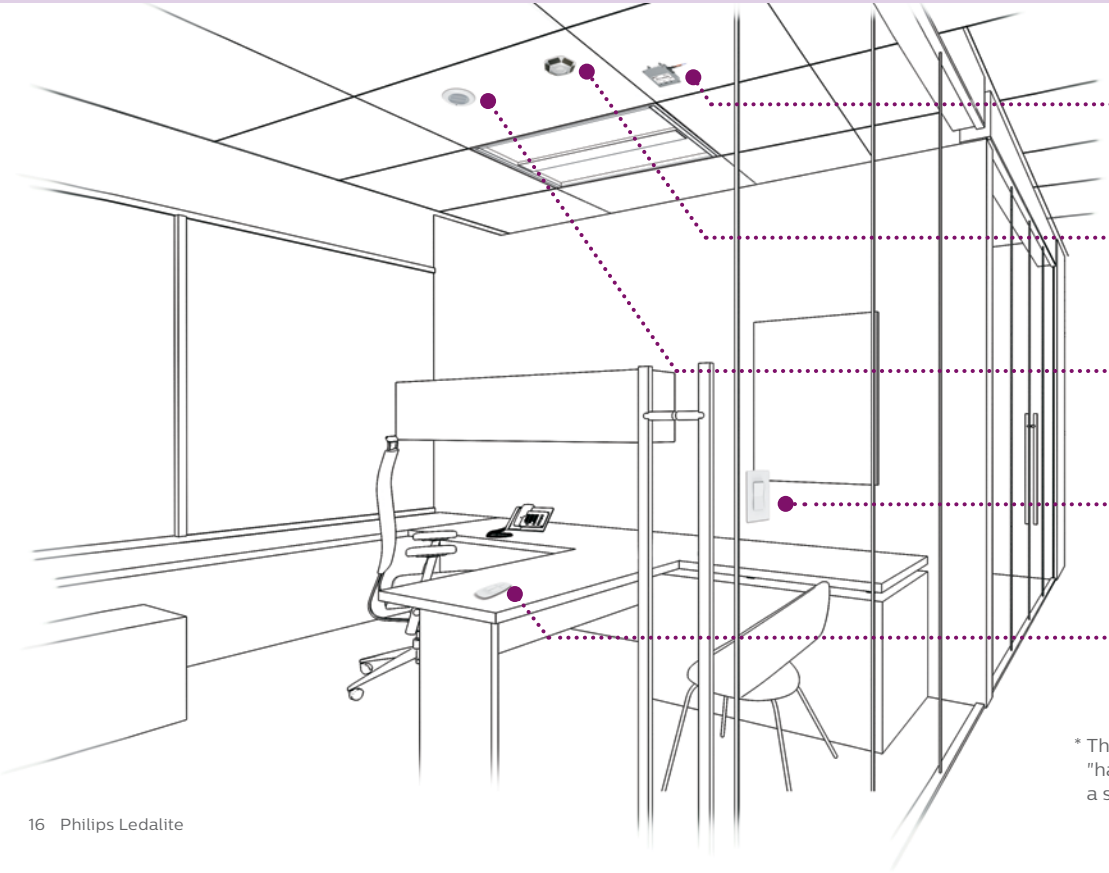
*Nominal output within a range


EXIT
Saída

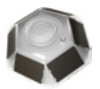
airwave

Wireless. Batteryless. Limitless.

Airwave wireless controls represent a quantum leap forward in flexibility and sustainability. Using organic sources of renewable kinetic and solar energy*, Airwave delivers wireless individual personal control, daylight harvesting, occupancy sensing, and full range dimming for spaces where the ability to control energy and lighting are essential. The simple flick of a batteryless, wireless switch creates enough kinetic energy for simple ON/OFF control or dimming. Solar powered Airwave sensors monitor ambient daylight levels or occupancy and wirelessly signal luminaires to adjust output and help save energy.



Intelligent transceiver (above ceiling)



Occupancy sensor

Solar powered photosensor

Kinetic energy switch

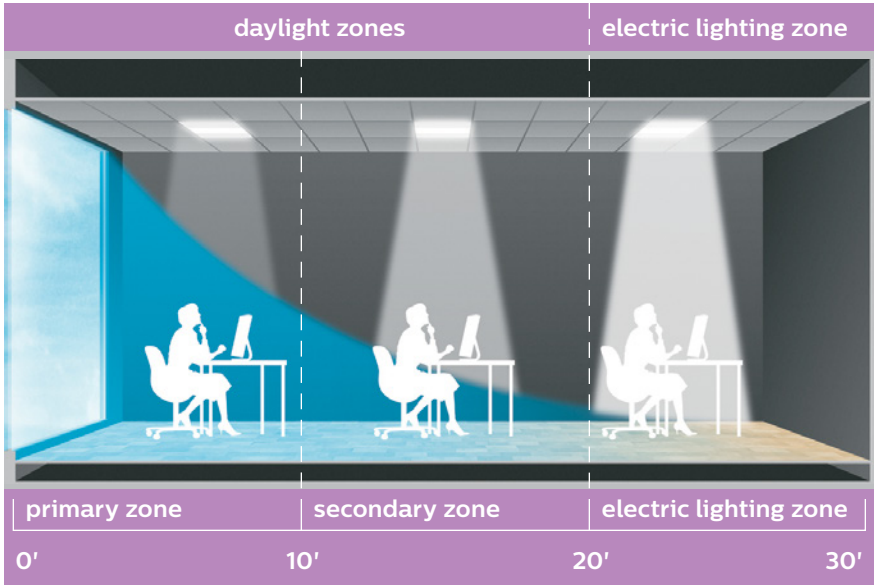
Kinetic handheld remote

* These sensors use EnOcean technology, they are wireless and battery-free. This technology "harvests" energy from the simple action of pressing a switch into enough energy to send a signal. Therefore, no batteries are required and you will never run out of power.

Integrated sensors

VersaForm is available with Philips Ledalite Response Daylight sensors and Philips Actilume Occupancy sensors. These fully integrated sensors automatically adjust light levels when daylight enters the room, or dims to low levels when people leave the area, thus helping to reduce operating expenses and comply with new energy codes. Sensors are factory pre-calibrated and ready to use right out of the box. Just plug in the fixture - no power packs, standalone sensors or low-voltage wiring schemes required. The sensors adjust light output gradually with minimal distraction for occupants.

RESPONSE & ACTILUME



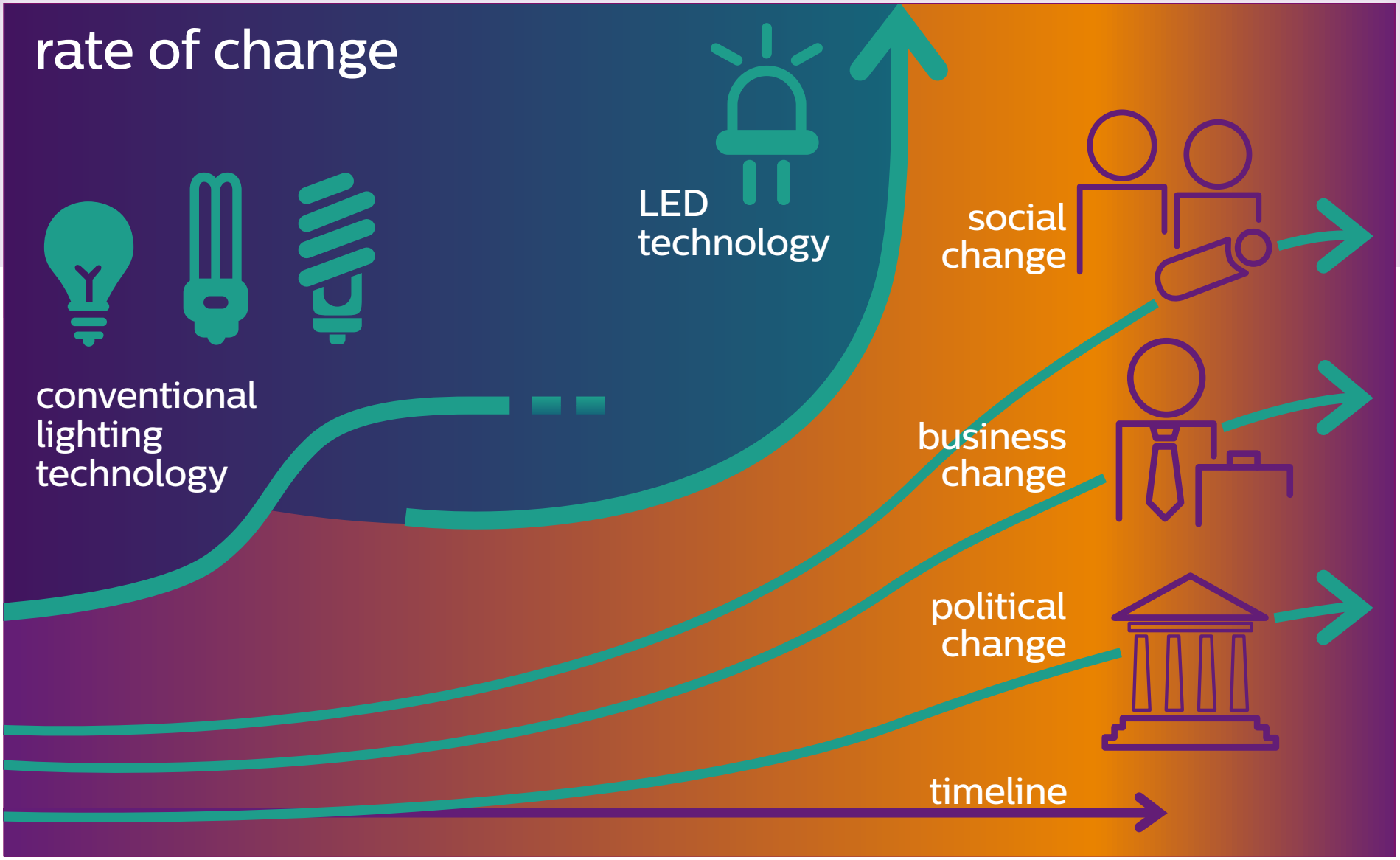
How it works

In this example, two control zones have been created where there is adequate daylight contribution, and one uncontrolled zone where daylight is minimal. As daylight contribution increases, sensors can automatically and gradually reduce electric light output to help save energy.

Response Daylight Sensor

Philips Actilume Occupancy Sensor

Technology doesn't stand still

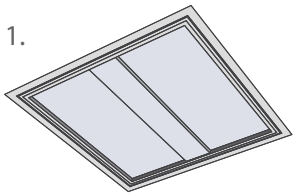


VersaForm is future proof

LED technologies are still rapidly evolving with greater power and increased efficacy. However, this change doesn't mean that your lighting system is quickly outmoded.

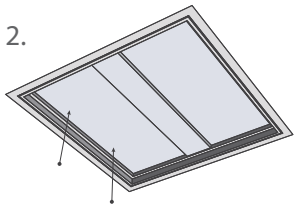
Our VersaForm systems are designed to grow with you and easily adapt to today's LED technologies and tomorrow's newest LED innovations. In fact, the LED light engine may be upgraded or changed without expensive rewiring or total fixture replacement, giving you true freedom to unlock your design vision.

1.



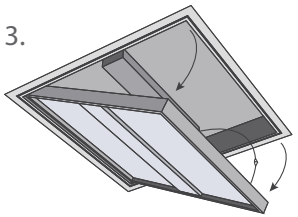
Installed state

2.



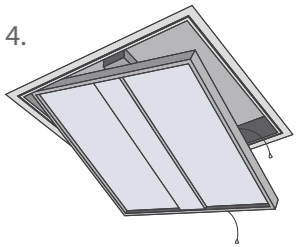
Push light engine up and in at marked corners

3.



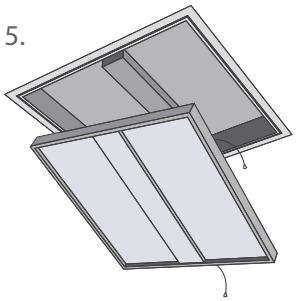
Hinge light engine open and disengage low-voltage wiring

4.



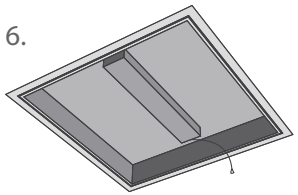
Rotate light engine to unhinge from housing

5.



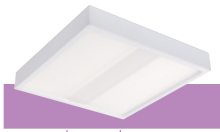
Remove light engine from housing

6.



Access driver cavity from below ceiling

Technical specifications



Fixture: 2'x2' at 3000lm*				Layout: 8'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	28	32	1.13	0.33
3500	80	33	38	1.11	0.33
4000	80	29	34	1.13	0.33
3500	90	29	33	1.13	0.38

Fixture: 2'x2' at 4000lm*				Layout: 8'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	37	42	1.13	0.42
3500	80	38	43	1.12	0.42
4000	80	39	45	1.14	0.42
3500	90	38	43	1.15	0.51

Fixture: 2'x2' at 4000lm*				Layout: 10'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	31	34	1.23	0.36
3500	80	32	35	1.22	0.36
4000	80	33	37	1.24	0.36
3500	90	32	35	1.26	0.44

Fixture: 1'x4' at 3000lm*				Layout: 8'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	27	31	1.10	0.31
3500	80	28	32	1.10	0.31
4000	80	30	35	1.12	0.31
3500	90	28	32	1.10	0.37

Fixture: 1'x4' at 4000lm*				Layout: 8'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	36	42	1.13	0.42
3500	80	37	43	1.12	0.42
4000	80	40	46	1.14	0.42
3500	90	37	43	1.15	0.51

Fixture: 1'x4' at 4000lm*				Layout: 10'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	31	34	1.19	0.35
3500	80	32	35	1.19	0.35
4000	80	34	37	1.21	0.35
3500	90	31	34	1.23	0.43

Fixture: 2'x4' at 4000lm*				Layout: 10'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	33	36	1.21	0.35
3500	80	34	38	1.24	0.35
4000	80	35	39	1.23	0.35
3500	90	34	38	1.24	0.42

Fixture: 2'x4' at 5200lm*				Layout: 10'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	43	47	1.24	0.46
3500	80	44	48	1.20	0.46
4000	80	45	50	1.22	0.46
3500	90	42	46	1.21	0.54

Fixture: 2'x4' at 6800lm*				Layout: 10'x10' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	56	61	1.22	0.62
3500	80	57	63	1.23	0.62
4000	80	59	65	1.22	0.62
3500	90	55	61	1.22	0.74

Fixture: 2'x4' at 5200lm*				Layout: 10'x12' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	36	40	1.35	0.38
3500	80	37	41	1.34	0.38
4000	80	38	42	1.33	0.39
3500	90	35	39	1.32	0.45

Fixture: 2'x4' at 6800lm*				Layout: 10'x12' o.c.	
CCT	**CRI**	**Light Level** (fc)	**Light Level Stat** (fc)	**Workplane Uniformity****	**Energy Density** (W/ft²)
3000	80	47	51	1.34	0.51
3500	80	48	53	1.33	0.51
4000	80	49	54	1.34	0.52
3500	90	46	51	1.34	0.61

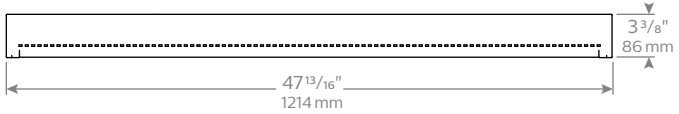
Lighting power density and illuminance information are average maintained values based on predictive engineering analysis in an open plan measuring 60'Wx60'Lx9'H and a statistical area 30'Wx30'L; with room reflectances of pc 80/ pw 50/ pf 20; and LLF of 0.85 in all cases. All application results have been calculated using real luminaire photometric test data and OEM published systems specifications for Philips Ledalite factory standard components at time of publication. Modifications to architectural conditions, luminaire components, and calculation parameters will yield different results.

*Nominal output within a range
** Workplane uniformity on Statistical Area (MAX:MIN)

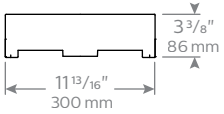
VersaForm LED

1'x4'

Side View

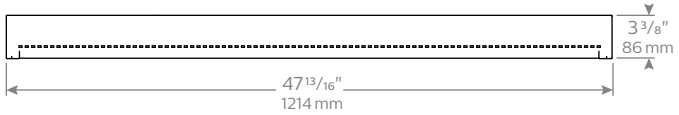


Cross Section



2'x4'

Side View



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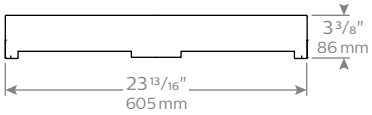
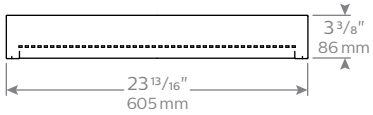
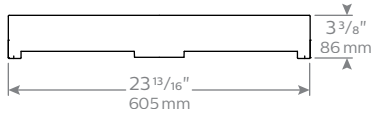


2'x2'

Side View



Cross Section



Specification guide

example: 4122D2STL8CES51EDS

Series		Type		Lumen Package			Body	Electrical			
Family	**Size**	**Version**	**Configuration**	**Source**	**CRI / CCT**	**Lumens***	**Housing**	**Wiring**	**Voltage**	**Driver**	**Integ. Controls**
41			**ST**	**L**						**E**	
41 VersaForm LED	**14** 1'x4' **22** 2'x2' **24** 2'x4'	**D1** Standard T-Grid **D2** Tegular/Slot T-Grid **A1** Air Return/Std. T-Grid **A2** Air Return/Slot T-Grid **S1** Surface Mount	**ST** Standalone	**L** LED	**8A** 80/4000K **8B** 80/3500K **8C** 80/3000K **9B** 90/3500K	**E** 3000lm **D** 4000lm **D** 4000lm **C** 5200lm **A** 6800lm	**S** Standard **C** Chicago	**1** 1 cct **5** 1 cct w/ battery pack **7** 1 cct w/ dimming (0-10V)	**1** 120V **2** 277V **3** 347V	**E** Standard	**DS** Response Daylight Sensor **DO** Actilume Occupancy Sensor

* Nominal output within a range, consult spec sheets for exact lumen output for each configuration.
Some options may not be available for each configuration. Consult factory for full list of available options.

PLe-1404BR 08/14 www.philips.com/luminaires

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