

Your Classroom application bundle:

CoreLine Surfacemounted LED34S VAR-PC & Presence detector LRM1000

Classroom lighting insights

The bond between teachers and students is a very special one. It's all about passing on knowledge and discovering the world together.

Going to school should be fun, safe and educational. The classroom is a place where students can learn to excel. Philips LED lighting makes it easy to concentrate, in a healthy, warm and welcoming environment that encourages collaboration and group work. And with the use of intelligent sensors, energy costs can be reduced by up to 70%.

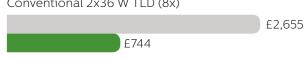


More info: www.philips.co.uk/coreline

Traditional

Conventional 2x36 W TLD (8x)

Savings over life* £1,910



Application bundle

CoreLine Surface-mounted LED34S VAR-PC (8x) incl. detector

^{*}Based on UK average of 10p/kW hours including maintenance and lamp replacement cost.

Bundle benefits

Bundle specifications

CoreLine Surface-mounted LED34S VAR-PC



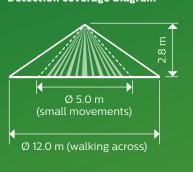
- Replacing conventional TL-D & TL-5
- Energy saving
- UGR < 19
- 3-year warranty

Presence detector LRM1000



- Automatically switches off light when not required
- Ceiling surface mountable

Detection coverage diagram



CoreLine Surface-mounted LED34S VAR-PC

Туре	SM120V LED34S/830 W20L120 VAR-PC			
	SM120V LED34S/840 W20L120 VAR-PC			
Power	31 W			
Luminous Flux	3400 lm			
Colour temperature	3000 K, 4000 K			
Colour Render Index	≥ 80			
Lifetime	50,000 hours			
Number of luminaires on MCB 16A type B	≤ 24			
Ordering (EOC) code	26662400 3000 K			
	26654900 4000 K			
	Also available in emergency			

Presence detector LRM1000

Detecting range at 2.8 m height	ø 5 – 12 m
Recommended mounting height	2 m - 4 m
Switch off delay	10 sec 5 min.
Number of luminaires on one control	≤ 15
Ordering (EOC) code	22557700

Lighting design insights

Glare

Use low-glare luminaires for comfort, to improve the experience of students and teachers.

Blackboard

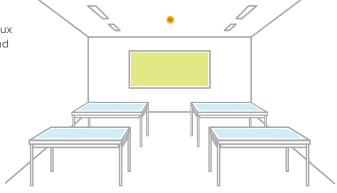
Add dedicated luminaires and adjust their arrangement to light the blackboard for readability.

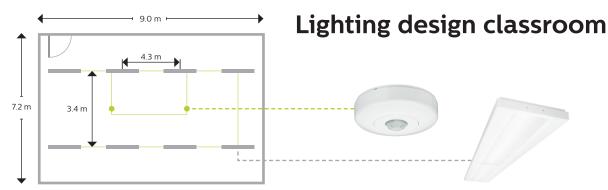
Illuminance

At desks, EN12464-1 requires 300 lux for classrooms and 500 lux for evening classes and adult education.

Controls

Locate the controls directly above the desks to optimise presence detection.





Height of classroom: 3.0 m

Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional 2xTL-D 36 W	8	410	576 W	72 W	8.9	2.2
CoreLine Surface-mounted LED34S VAR-PC	8	352	248 W	31 W	3.8	1.1