

# Your Classroom application bundle:

CoreLine Surfacemounted LED34S VAR-PC & Presence detector LRM1000



More info: www.philips.com/ applicationbundles

# 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%.

### **Traditional**

Conventional 2x36 W TLD (8x)

Savings over life\* **€2675,**-

€1042,-

€3717,-

### **Application bundle**

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

<sup>\*</sup>Based on European average of 12 cent/kW hours including maintenance and lamp replacement cost.

# **Bundle benefits**

# **Bundle specifications**



## 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				
Color temperature	3000 K, 4000 K				
Color 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				

### Presence detector LRM1000

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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

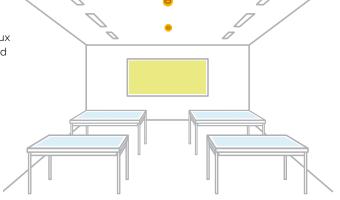
Add dedicated luminaires and adjust their arrangement to light the blackboard for readability.

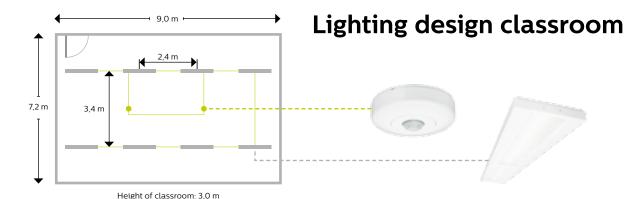
#### Illuminance

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 optimize presence detection.





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