



**PHILIPS**

Application bundles



**The perfect  
combination**  
for every space

4  
Office

10  
Small car park

18  
Classroom

14  
Butcher

12  
Small storage

20  
Bathroom

16  
Bakery

8  
Industry

6  
Bathroom

# Application bundles

Combine LED luminaires and intelligent controls for maximum performance and savings.

With the introduction of LED technology, lighting has entered the 21st century. Compared to conventional products, LED lamps and luminaires offer much lower energy consumption and a much longer lifetime. Also, as a digital light source, LED luminaires offer many new possibilities in terms of intelligent lighting.

#### Getting the combination right

To help installers make the most of the technical and commercial potential of LED, Philips has created special virtual packages called 'Application bundles'. These bundles are based on real-life applications that will benefit from having the right combination of LED luminaires, or of luminaires and controls. As most elements are part of the popular CoreLine range, compatibility is guaranteed, and installation is hassle-free.

#### Tools to convey the clients

These application bundles come with a targeted set of tools that will help you convey the many benefits to clients. Each bundle has a suite of materials, including application insights, lighting designs, a tool to calculate the savings in terms of total cost of ownership, details on how to apply the product combination in the bundle, and much more.

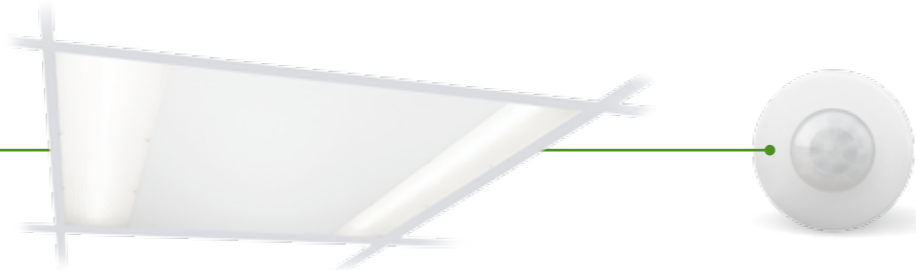
Read on to discover all about the new Philips application bundles! For more information, go to [www.philips.com/applicationbundles](http://www.philips.com/applicationbundles) or your wholesaler.



# Office

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**65%**  
energy savings

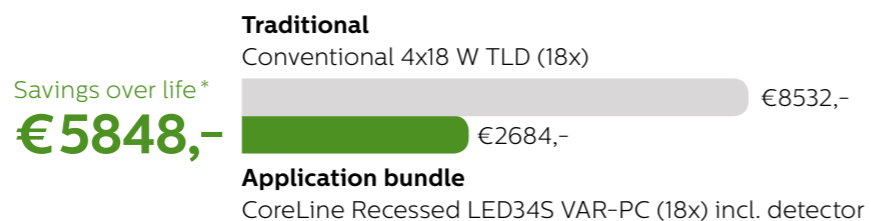


**Your Office application bundle:**  
CoreLine Recessed LED34S & Presence detector LRM1011

## Office lighting insights

When you arrive at the office, you know what you'll be working on and who you'll be working with. And you want to be at your best.

In an office workspace, lighting can help people to concentrate, communicate and cooperate. The right light will create a healthy, comfortable and inspiring environment. Philips office lighting solutions meet all European norms for this application, and can reduce energy costs by up to 65% when combined with smart controls.



\*Based on the European average of 12 cent/kWh hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

## Bundle benefits

### CoreLine Recessed LED34S VAR-PC



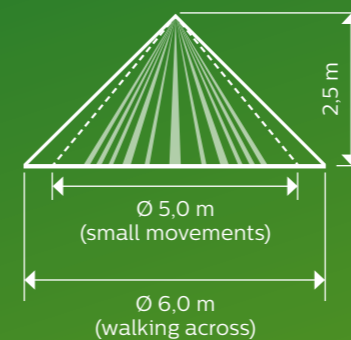
- Replacing conventional TL-D & TL-5
- Energy saving
- UGR < 19

### Presence detector LRM1011



- Automatic switches off light when not required
- Small, unobtrusive sensor

### Detection coverage diagram



## Bundle specifications

### CoreLine Recessed LED34S VAR-PC

Type	RC120B LED34S/830 PSD W60L60 VAR-PC
	RC120B LED34S/840 PSD W60L60 VAR-PC
Power	35,5 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	26656300 3000 K
	26648800 4000 K

### Presence detector LRM1011

Detecting range at 2 - 5 m height	Ø 6 - 11 m
Recommended mounting height	2 m - 5 m
Switch off delay	10 sec. - 30 min. in 6 steps
Number of luminaires on one control	≤ 15
Ordering (EOC) code	44209800

## Lighting design insights

### Display reflections

Minimize reflected glare on displays by using luminaires with proper office light distribution and a low glare ratio (UGR ≤ 19).

### Illuminance requirements

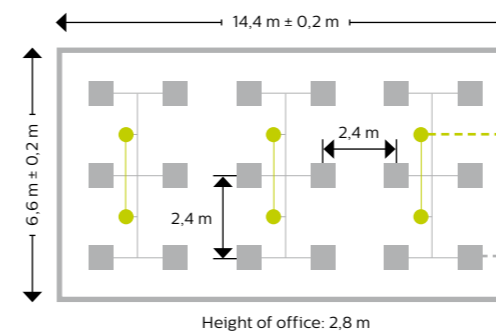
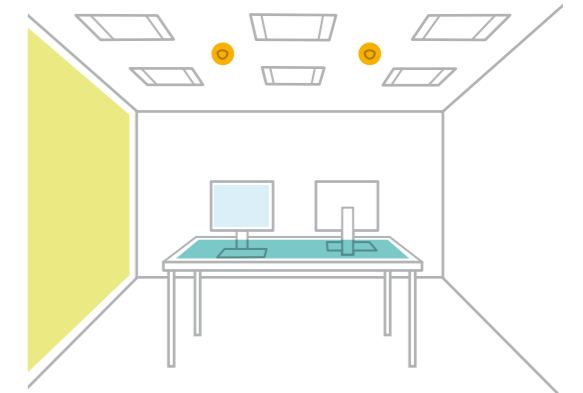
EN12464-1 requirement at desk ≥ 500 lux. Higher levels increase visibility.

### Controls

Controls are located above desks to create optimum effect for presence detection.

### Brightness

Create bright walls and ceilings by using wide light beams. This will make the entire space look more spacious and pleasant.



## Lighting design office

Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional 4xTLD 18 W	18	539	69,5 W	1251 W	13,2	2,4
<b>CoreLine Recessed LED34S VAR-PC</b>	<b>18</b>	<b>515</b>	<b>35,5 W</b>	<b>639 W</b>	<b>6,7</b>	<b>1,2</b>



# Corridor

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**75%**  
energy savings

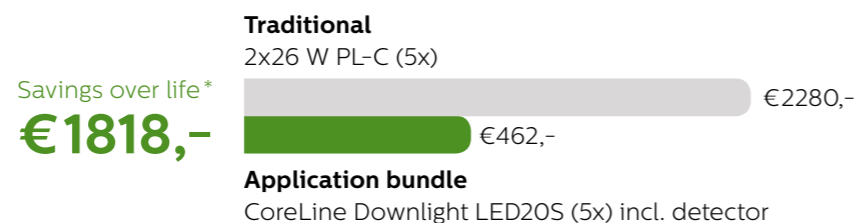


**Your Corridor application bundle:**  
CoreLine Downlight LED20S & Presence detector LRM1011

## Corridor lighting insights

Corridors are important spaces in their own right: in a building, they connect all the work areas, offices, meeting rooms, restaurants etc.

Corridor lighting needs to facilitate the movement of people. It must provide a clear view, without consuming more energy than needed. Philips LED lighting for corridors was developed to deliver clear, instant-on light, while significantly reducing energy costs up to 75% when combined with intelligent detectors.



\*Based on the European average of 12 cent/kWh hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

## Bundle benefits

### CoreLine Downlight LED20S



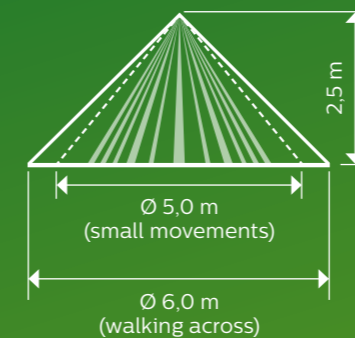
- Replacing compact fluorescent
- Energy saving

### Presence detector LRM1011



- Automatic switches off light when not required
- Small, unobtrusive sensor

### Detection coverage diagram



## Bundle specifications

### CoreLine Downlight LED20S

Type	DN130B LED20S/830 PSU PI6 WH DN130B LED20S/840 PSU PI6 WH
Power	22 W
Luminous Flux	2100 lm
Color temperature	3000 K, 4000 K
Color Render Index	≥ 80
Lifetime	50,000 hours
Number of luminaires on MCB 16A type B	≤ 15
Ordering (EOC) code	85224800 3000 K 85271200 4000 K
Cut-out diameter	200 - 205 mm

### Presence detector LRM1011

Detecting range at 2 - 5 m height	Ø 6 - 11 m
Recommended mounting height	2 m - 5 m
Switch off delay	10 sec. - 30 min. in 6 steps
Number of luminaires on one control	≤ 15
Cut-out diameter	36 mm
Ordering (EOC) code	44209800

## Lighting design insights

### Brightness

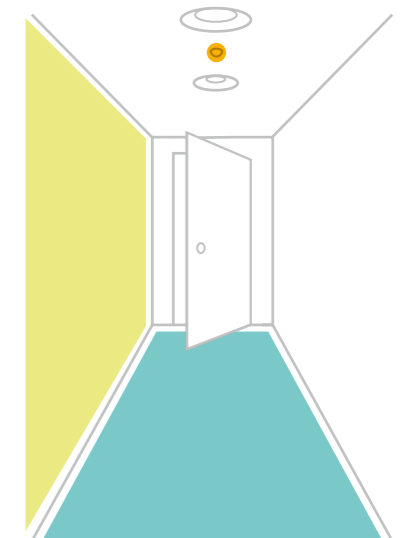
Corridors are confined spaces. Use wide light beams to create a sufficiently bright environment and good vertical illuminance. By providing sufficient light on doors and walls, occupants are guided through the corridor.

### Controls

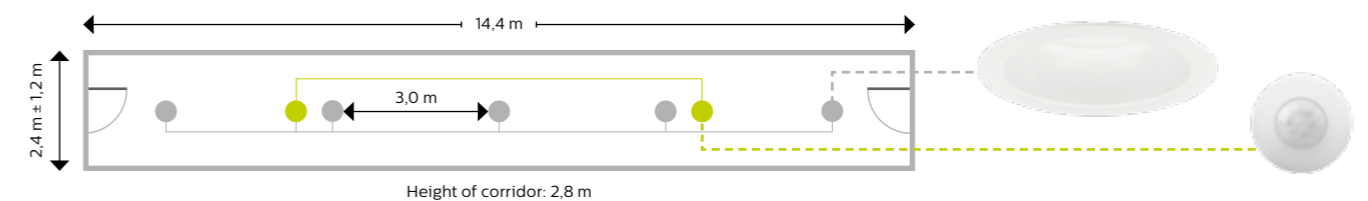
When placing presence detectors consider entrances and exits to avoid going into a dark corridor.

### Illuminance requirements

EN12464-1 requirement at floor ≥ 100 lux. Higher levels increase feeling of comfort & safety.



## Lighting design corridor



Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional PLC 2x26 W downlight	5	158	65,6 W	328 W	9,5	6,0
<b>CoreLine Downlight LED20S</b>	<b>5</b>	<b>157</b>	<b>22 W</b>	<b>110 W</b>	<b>3,2</b>	<b>2,1</b>

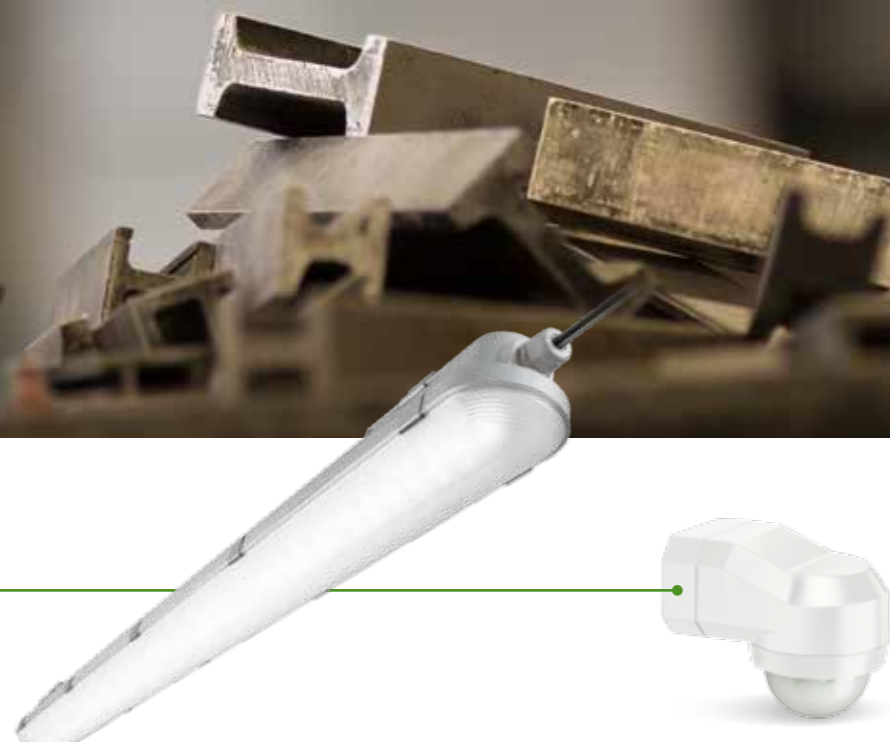


# Industry

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**65%**  
energy savings

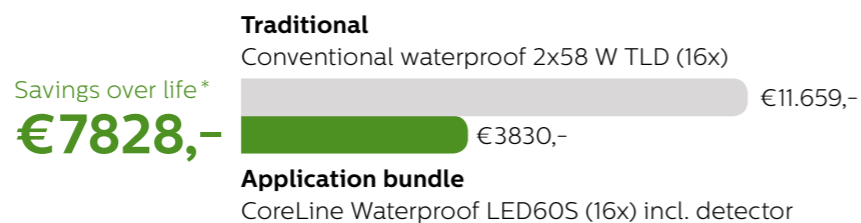
**Your Industry application bundle:**  
CoreLine Waterproof LED60S & Movement detector LRM1040



## Industry lighting insights

There is work to be done, and the workspace is big, with people and goods moving in and out. Here, productivity and safety must go hand in hand.

Industrial applications require effective lighting on a large scale, which means that low energy consumption and low maintenance are a must. But the lighting also needs to create a clear, safe and pleasant environment. With Philips lighting controls, the light switches off whenever the space is not being used, for extra savings.



\*Based on the European average of 12 cent/kW hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

## Bundle benefits

### CoreLine Waterproof LED60S



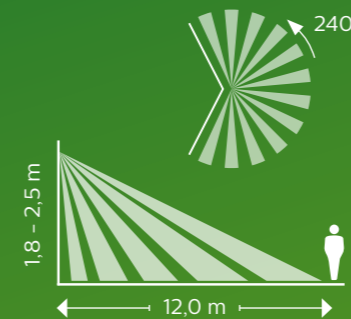
- Replacing conventional TL-D
- Energy saving

### Movement detector LRM1040



- Daylight override prevents switch on if enough daylight is available
- Turns off lighting when not required
- IP54

#### Detection coverage diagram



## Bundle specifications

### CoreLine Waterproof LED60S

Type	WT120C LED60S/840 PSU L1500
Power	57 W
Luminous Flux	6000 lm
Color temperature	4000 K
Color Render Index	≥ 80
Lifetime	50,000 hours
Number of luminaires on MCB 16A type B	≤ 24
Ordering (EOC) code	84049700

### Movement detector LRM1040

Detecting range at 2,5 m height	12 m
Recommended mounting height	1,8 - 2,5 m (wall mounting)
Switch off delay	5 sec. - 12 min.
Number of luminaires on one control	≤ 24
Ordering (EOC) code	22573700

## Lighting design insights

#### Uniformity

Use wide light beams in order to increase uniformity. High uniformity contributes to a comfortable workplace without disturbing shadows.

#### Waterproof luminaires

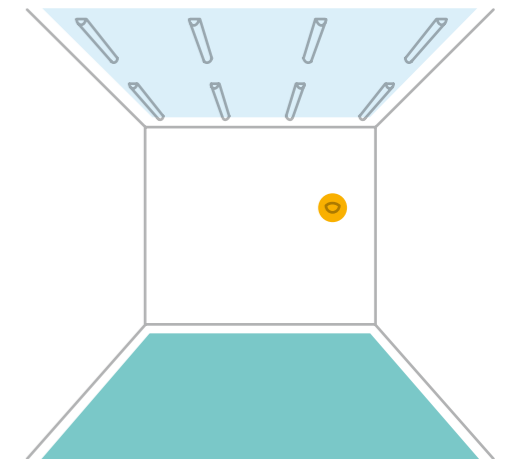
Many industrial environments are wet or dusty. Use waterproof luminaires for safe and reliable lighting.

#### Controls

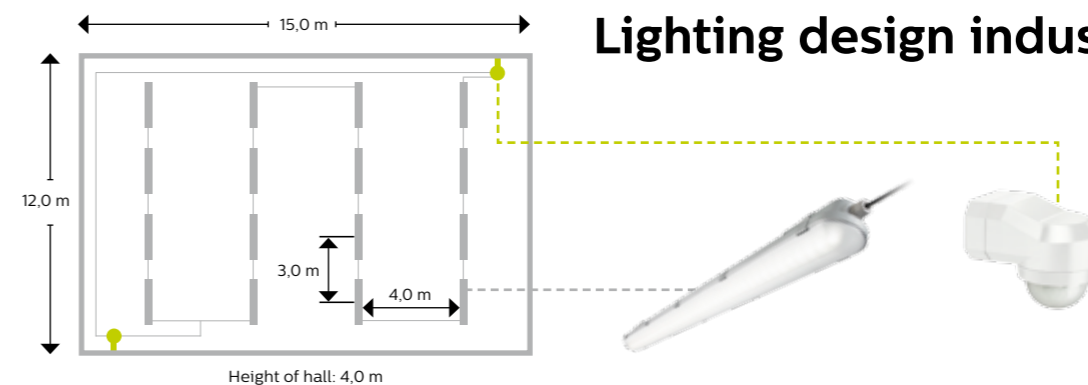
When placing a presence detector consider entrances and exits to avoid going into a dark area. Also take into account high furniture and machinery. These can block the detection zone.

#### Illuminance requirements

EN12464-1 requirement at task ≥ 300 lux for general machinery work. Higher levels increase visibility.



## Lighting design industry



Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional waterproof 2xTLD 58 W	16	336	110 W	1760 W	9,8	2,9
<b>CoreLine Waterproof LED60S</b>	<b>16</b>	<b>328</b>	<b>57 W</b>	<b>928 W</b>	<b>5,2</b>	<b>1,6</b>



# Small car park

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**80%**  
energy savings

**Your Small car park application bundle:**  
CoreLine Waterproof LED40S & Movement detector LRM1040

## Small car park lighting insights

Car parks are functional spaces; you go there only to drive in or out. And you always want a car park to be safe and easily accessible.

In a large but confined space like a car park, it is most important that people can find their way quickly and safely - whether they are walking or driving. That means bright, instant-on lighting with no dark spaces. But as the lights are always on, energy savings and minimal maintenance are also paramount.

	Traditional	Application bundle
Savings over life*	Conventional waterproof 2x36 W TLD (9x) €4182,-	CoreLine Waterproof LED40S (9x) incl. detector €664,-
		<b>€3518,-</b>

\*Based on the European average of 12 cent/kW hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

## Bundle benefits

### CoreLine Waterproof LED40S



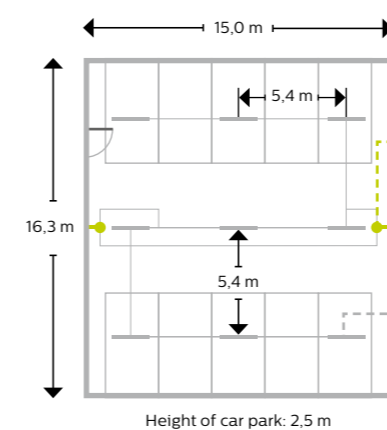
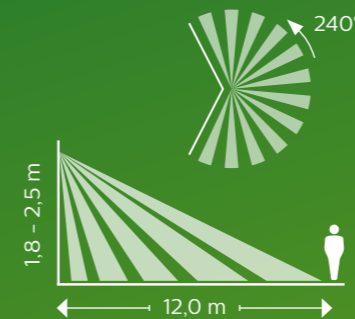
- Replacing conventional TL-D
- Energy saving

### Movement detector LRM1040



- Daylight override prevents switch on if enough daylight is available
- Turns off lighting when not required
- IP54

### Detection coverage diagram



Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional Waterproof 2xTLD 36 W	9	101	72 W	648 W	2,7	2,6
<b>CoreLine Waterproof LED40S</b>	<b>9</b>	<b>111</b>	<b>41 W</b>	<b>369 W</b>	<b>1,5</b>	<b>1,4</b>

## Bundle specifications

### CoreLine Waterproof LED40S

Type	WT120C LED40S/840 PSU L1200
Power	41 W
Luminous Flux	4000 lm
Color temperature	4000 K
Color Render Index	≥ 80
Lifetime	50,000 hours
Number of luminaires on MCB 16A type B	≤ 24
Ordering (EOC) code	84048000

### Movement detector LRM1040

Detecting range at 2,5 m height	12 m
Recommended mounting height	1,8 - 2,5 m (wall mounting)
Switch off delay	5 sec. - 12 min.
Number of luminaires on one control	≤ 24
Ordering (EOC) code	22573700

## Lighting design insights

### Face recognition

Enhance comfort and safety by using wide light beams. This increases the uniformity and the vertical illuminance which helps to illuminate faces.

### Illuminance requirements

EN12464-1 requirement at floor ≤ 75 lux. Higher values increase feeling of safety.

### Guidance

Place the luminaires in reference to the lanes and parking lots so they can support guidance through the car park.

### Controls

When placing presence detectors consider entrances and exits to avoid going into dark areas.



## Lighting design small car park





# Small storage

Combine an LED luminaire with an intelligent control for maximum performance and savings

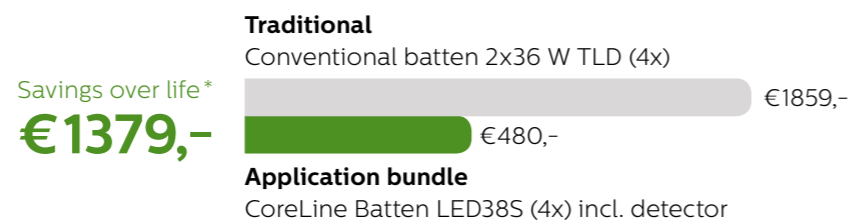
Up to  
**70%**  
energy savings

**Your Small storage application bundle:**  
CoreLine Batten LED38S & Movement detector LRM1032

## Small storage lighting insights

You're searching for that file, or that special component - and you need it now! Knowing where to look makes all the difference.

Storage spaces can be cramped and busy. With the right lighting, however, they can still be accessible and easy to navigate. Clear white light from carefully placed luminaires creates the right atmosphere, while motion-detector sensors also offers big energy savings of up to 70%.



\*Based on the European average of 12 cent/kWh hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

## Bundle benefits

### CoreLine Batten LED38S



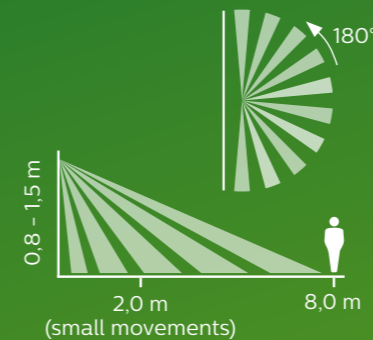
- Replacing conventional TL-D
- Energy saving
- No UV-emission

### Movement detector LRM1032



- Movement detector unit replaces traditional light switch
- Turns off lighting when not required

### Detection coverage diagram



## Bundle specifications

### CoreLine Batten LED38S

Type	BN120C LED38S/830 PSU L1200 BN120C LED38S/840 PSU L1200	
Power	40 W	
Luminous Flux	3800 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	89961699	3000 K
	89957999	4000 K

### Movement detector LRM1032

Detecting range at 0,8 -1,5 m height	8 m	
Recommended mounting height	1,2 m	
Switch off delay	10 sec. - 30 min. (10 settings)	
Number of luminaires on one control	≤ 10	
Ordering (EOC) code	44225800	LRM1032 3w
	44227200	LRM1033 2w (retrofit)

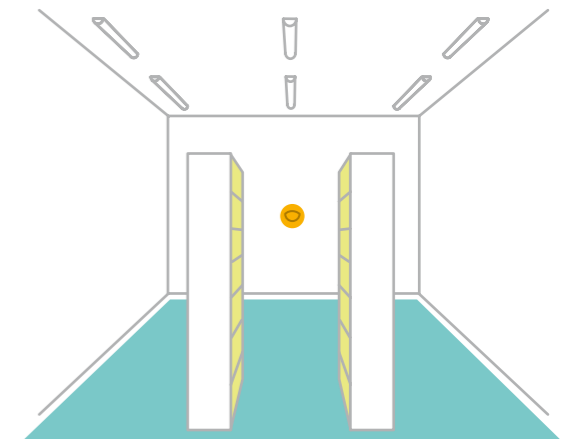
## Lighting design insights

### Room elements

Room elements as shelves and drawers affect the light distribution. Try to position the luminaires between these elements. This will create a good vertical illuminance.

### Controls

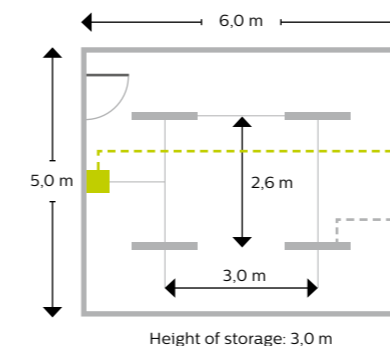
When placing a presence detector consider entrances and furniture in the room to ensure detection coverage.



### Illuminance requirements

EN12464-1 requirement at floor: 100 lux for storage rooms & 200 lux for archives. Higher levels increase visibility.

## Lighting design small storage



Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional batten 2xTLD 36 W	4	193	72 W	288 W	9,6	5,5
<b>CoreLine Batten LED38S</b>	<b>4</b>	<b>163</b>	<b>40 W</b>	<b>160 W</b>	<b>5,3</b>	<b>2,2</b>



# Butcher

Combine different LED luminaires for maximum performance and savings

Up to  
**50%**  
energy savings



**Your Butcher application bundle:**  
CoreLine Downlight LED20S & GreenSpace Accent Fresh Food Meat

## Butcher lighting insights

A trip to the butchery is a trip to the imagination. After all, your choice of meat or poultry defines the character of your entire meal.

The magic word is: fresh. In a butcher's shop, the products on display have to look fresh and appealing. Philips's Fresh Food Meat lighting solution enhances the redness of the meat, making the cuts look their very best. Also, it extends the shelf life and minimizes food discoloration due to light, which helps to reduce waste.

	Traditional	Application bundle
Savings over life*	Conventional 2x18 W PL-C (8x) + 50 W SDW-TG (4x) €3996,-	CoreLine Downlight (8x) + GreenSpace Accent Fresh Food Meat (4x) €2016,-

\*Based on European average of 12 cent/kWh including maintenance and lamp replacement cost.

## Bundle benefits

### CoreLine Downlight LED20S



- Replacing compact fluorescent
- Energy saving

### GreenSpace Accent Fresh Food Meat\*



- Perfect Accent lighting for highlighting fresh meat
- Replacing white SON
- Energy saving

\* Instead of the GreenSpace Accent Fresh Food Meat, you can also use a track-mounted option: the EcoStyle Fresh Food Meat projector - EOC order code: 85340500 (white) or 85339900 (black). This alternative also enhances the redness in the meat display. Lighting design will differ slightly if alternative products are used.

## Bundle specifications

	CoreLine Downlight LED20S	GreenSpace Accent Fresh Food Meat*
Type	DN130B LED20S/840 PSU PI6 WH	RS342B LED19S/FMT PSU-E WB II WH
Power	22 W	36 W
Luminous Flux	2100 lm	1900 lm
Color temperature	4000 K	Fresh Food Meat
Color Render Index	≥ 80	87
Lifetime	50,000 hours	70,000 hours
Number of luminaires on MCB 16A type B	≤ 15	≤ 40
Ordering (EOC) code	85271200	26334100
Cut-out diameter	200 - 205 mm	175 mm

## Lighting design insights

### Glare and shadows

Limit the projector angle to < 20° to avoid glare for the staff and customers' shadows on the display.

### Brightness

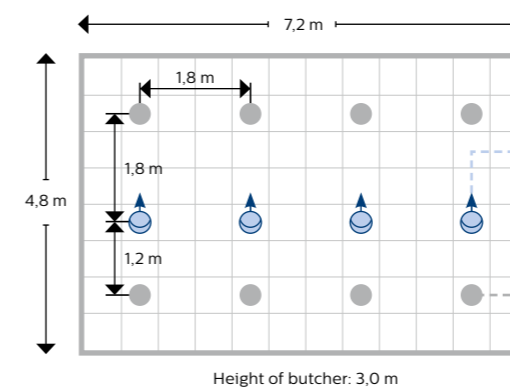
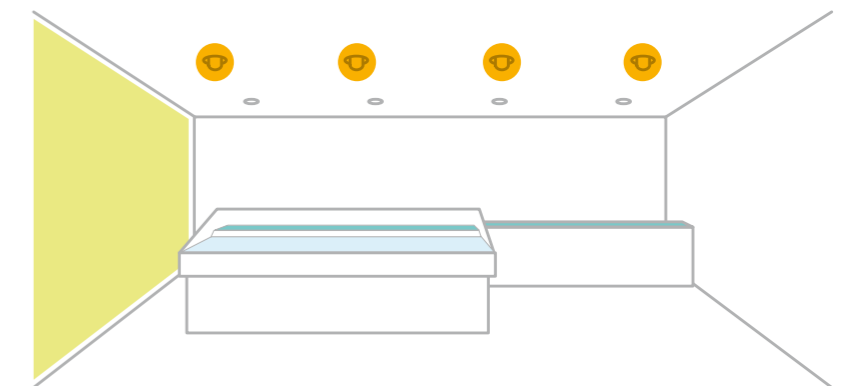
Light the walls to communicate that the store is open and make it appear more spacious. Max. downlight-to-wall distance: 1,2 m.

### Task light

Use downlights in the working environment for countertop task lighting, EN 12464-1 norm requires 300 lux in sales areas.

### Accent lighting

The human eye is drawn to higher brightness. Use accent lighting to create contrast and highlight the display.



## Lighting design butcher

Luminaire types	# Lum.	Em [lux]	Em [lux] counter	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional PLC 2x18 W downlight	8	518	854	51 W	653 W	18,9	3,7
Conventional SDW-TG 50 W accent spot	4			62 W			
<b>CoreLine Downlight LED20S</b>	<b>8</b>	<b>551</b>	<b>843</b>	<b>22 W</b>	<b>320 W</b>	<b>9,7</b>	<b>1,8</b>
<b>GreenSpace Accent LED19S Fresh Food Meat</b>	<b>4</b>			<b>36 W</b>			

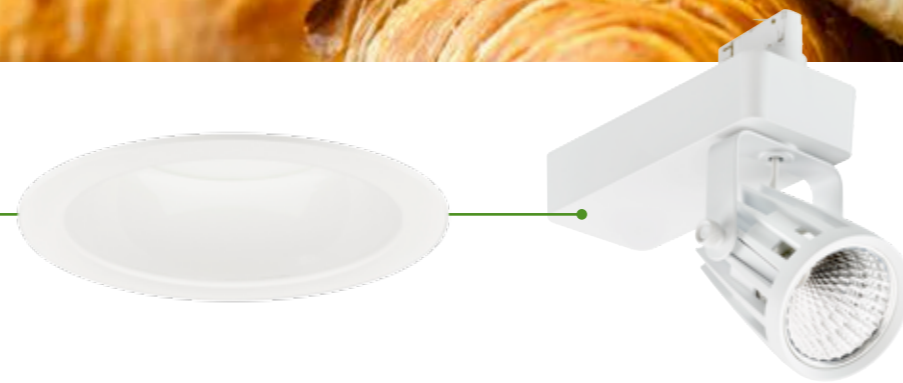




# Bakery

Combine different LED luminaires for maximum performance and savings

Up to  
**60%**  
energy savings



**Your Bakery application bundle:**  
CoreLine Downlight LED20S & EcoStyle Fresh Food Champagne

## Bakery lighting insights

Who doesn't love bread? Stepping into a bakery means stepping into a world of warmth, comfort and goodness - with lighting to match.

The smell of fresh bread always brings a smile to people's faces. In a bakery, what matters is bringing out all the subtle colors and textures of the different kinds of bread on display. Customers should be able to see the taste of the bread, and experience a cosy atmosphere due to the warm lighting colour.

	Traditional	Application bundle
Savings over life*	Conventional 2x18 W PL-C (4x) + 100 W SDW-T (8x) €6660,-	CoreLine Downlight (4x) + EcoStyle Fresh Food Champagne (8x) €2928,-

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

## Bundle benefits

### CoreLine Downlight LED20S



- Replacing compact fluorescent
- Energy saving

### EcoStyle Fresh Food Champagne\*



- Perfect Accent lighting for highlighting bread and pastries
- Replacing white SON
- Energy Saving

\* Instead of the EcoStyle Fresh Food Champagne, you can also use a recessed accent option: the GreenSpace Accent Fresh Food Champagne - EOC order code: 26322800 (white). This alternative also enhances the colors and textures of the different breads on display. Lighting design will differ slightly if alternative products are used.

## Bundle specifications

	CoreLine Downlight LED20S	EcoStyle Fresh Food Champagne*
Type	DNI30B LED20S/830 PSU PI6 WH	ST440T LED27S/CH PSU WB II WH
Power	22 W	49 W
Luminous Flux	2100 lm	2700 lm
Color temperature	3000 K	Fresh Food Champagne
Color Render Index	≥ 80	> 90
Lifetime	50,000 hours	70,000 hours
Number of luminaires on MCB 16A type B	≤ 15	≤ 35
Ordering (EOC) code	85224800	85338200 (white) / 85337500 (black)
Cut-out diameter	200 - 205 mm	not applicable

## Lighting design insights

### Glare and shadows

Limit the projector angle to < 20° to avoid glare for the staff and customers' shadows on the display.

### Accent lighting

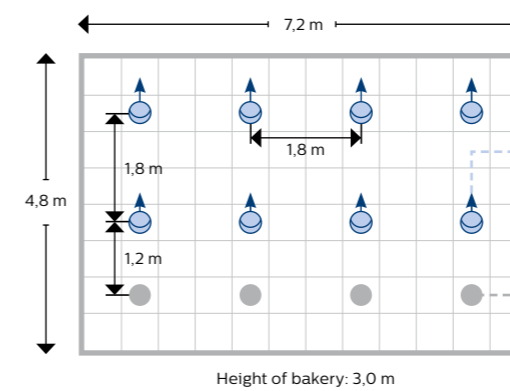
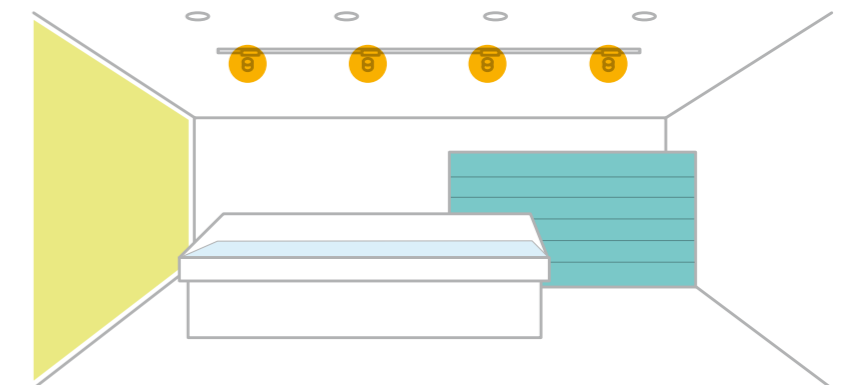
The human eye is drawn to higher brightness. Use accent lighting to create contrast and highlight the display.

### Brightness

Light the walls to communicate that the store is open and make it appear more spacious. Max. downlight-to-wall offset: 1,2 m.

### Shelves

With minimal glare risk, projectors lighting shelves can be tilted > 20°. To avoid shadows, the minimal light-to-shelf offset is 70 cm.



## Lighting design bakery

Luminaire types	# Lum.	Em [lux]	Em [lux] counter	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional PLC 2x18 W downlight	4	543	964	51 W	1098 W	29,3	5,4
Conventional SDW-TG 100 W projector	8			112 W			
<b>CoreLine Downlight LED20S</b>	<b>4</b>	<b>525</b>	<b>1144</b>	<b>22 W</b>	<b>400 W</b>	<b>10,9</b>	<b>2,1</b>
<b>EcoStyle Fresh Food Champagne LED27S</b>	<b>8</b>			<b>49 W</b>			



# Classroom

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**70%**  
energy savings

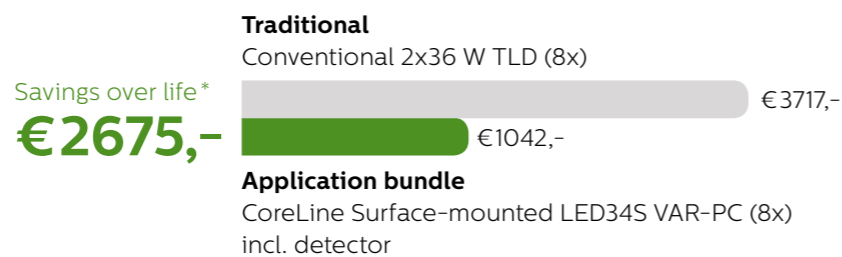


**Your Classroom application bundle:**  
CoreLine Surface-mounted LED34S VAR-PC & Presence detector LRM1000

## 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%.



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

## Bundle benefits

### CoreLine Surface-mounted LED34S VAR-PC



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

### Presence detector LRM1000



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

### Detection coverage diagram



## Bundle specifications

### CoreLine Surface-mounted LED34S VAR-PC

Type	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

Detecting range at 2,8 m height	∅ 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

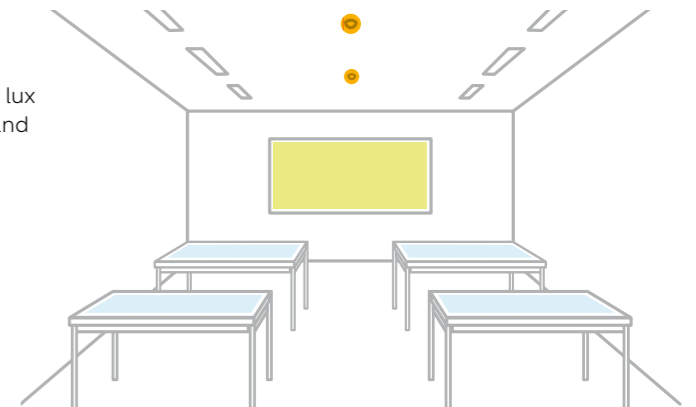
Add dedicated luminaires and adjust their arrangement to light the blackboard for readability.

### Illuminance

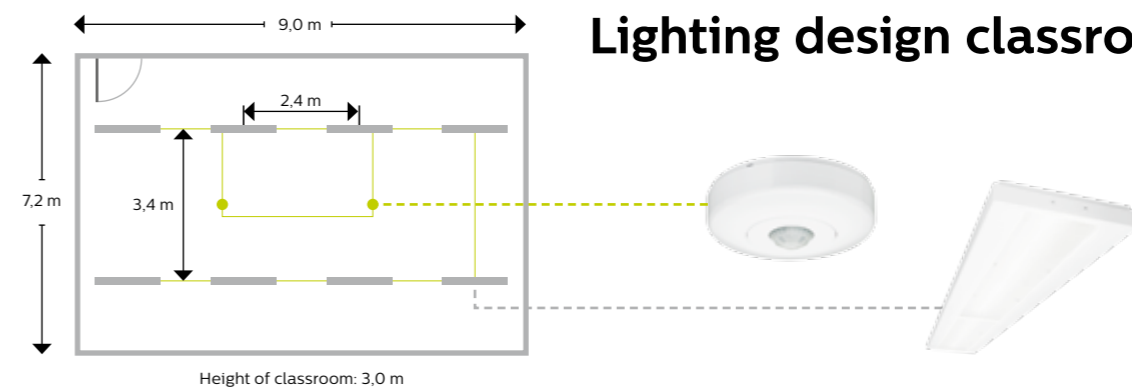
At desks, EN12464-1 requires 300 lux for classrooms and 500 lux for evening classes and adult education.

### Controls

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



## Lighting design classroom



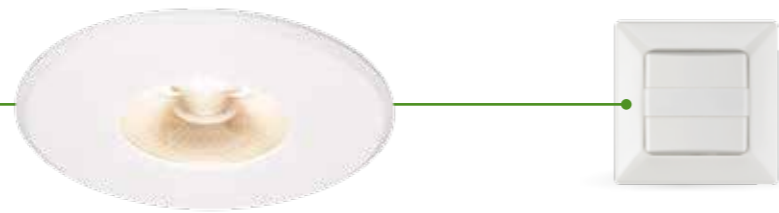
Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional 2xTL-D 36 W	8	410	576 W	72 W	8,9	2,2
<b>CoreLine Surface-mounted LED34S VAR-PC</b>	<b>8</b>	<b>352</b>	<b>248 W</b>	<b>31 W</b>	<b>3,8</b>	<b>1,1</b>



# Restroom

Combine an LED luminaire with an intelligent control for maximum performance and savings

Up to  
**90%**  
energy savings



**Your Restroom application bundle:**  
CoreLine Recessed Spot & Movement detector LRM1032

## Restroom lighting insights

Restrooms are small spaces with that are sometimes slippery. So you want to be able to see well at all times.

When entering a restroom area, you shouldn't have to look for the light switch or wait for the light to gain its full strength. Philips waterproof luminaires and intelligent sensors make sure the light switches on as soon as you need it and off again when you leave, for extra convenience and substantial energy savings.

	Traditional	Application bundle
Savings over life*	Conventional 50 W Halogen (6x) €4176,-	CoreLine Recessed Spot (6x) incl. movement detector €198,-
<b>€3978,-</b>		

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

## Bundle benefits

### CoreLine Recessed Spot



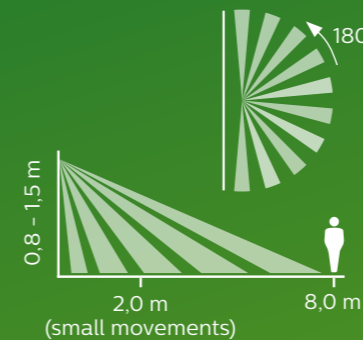
- Replacing conventional 50 W halogen lamps
- Water resistant up to IP54
- Slim design fits most ceiling types

### Movement detector LRM1032



- Movement detector unit replaces traditional light switch
- Turns off lighting when not required

### Detection coverage diagram



## Bundle specifications

### CoreLine Recessed Spot

Type	RS140B LED6-32-/830 PSR P16 WH RS140B LED6-32-/840 PSR P16 WH
Power	11 W
Luminous Flux	650 lm
IP rating	IP54
Color temperature	3000 K, 4000 K
Color Render Index	≥ 85
Lifetime	50,000 hours
Number of luminaires on MCB 16A type B	≤ 40
Ordering (EOC) code	06898499 3000 K 06899199 4000 K

### Movement detector LRM1032

Detecting range at 0,8 - 1,5 m height	8 m
Recommended mounting height	1,2 m
Switch off delay	10 sec. - 30 min. (10 settings)
Number of luminaires on one control	≤ 10
Ordering (EOC) code	44225800 LRM1032 3w 44227200 LRM1033 2w (retrofit)

## Lighting design insights

### Illuminance

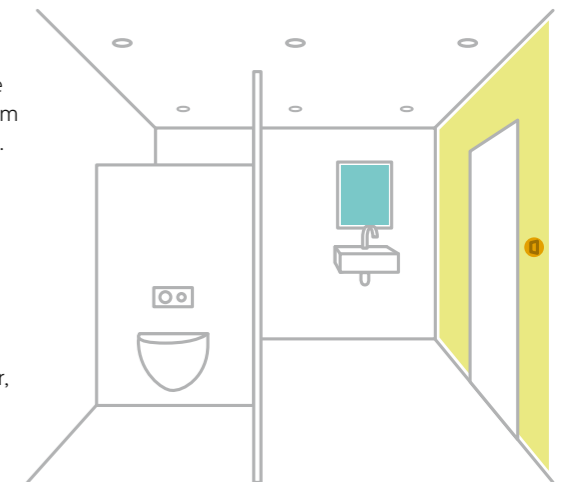
In these small spaces, light all surfaces sufficiently to make the space feel larger. EN12464-1 norm requires ≥ 100 lux for restrooms.

### Controls

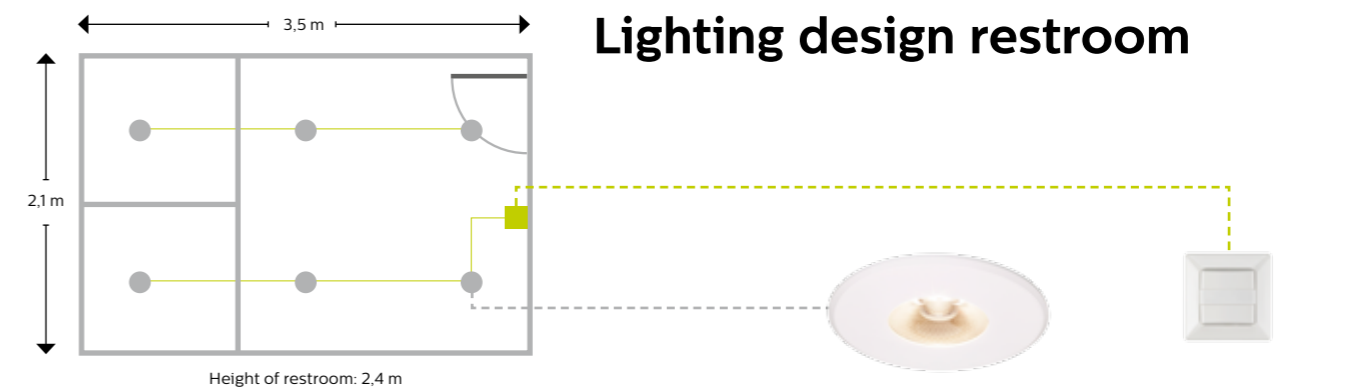
Apply a wall sensor to easily integrate the control with existing installations.

### Mirror

Place luminaires next to a mirror, optimizing the amount of light and shadows.



## Lighting design restroom



Luminaire types	# Lum.	Em [lux]	Sys. Power	Installed Power	W/m2	W/m2/100lux
Conventional 50 W Halogen Spot	6	350	300 W	50 W	40,8	11,6
<b>CoreLine Recessed Spot</b>	<b>6</b>	<b>340</b>	<b>66 W</b>	<b>11 W</b>	<b>8,9</b>	<b>2,6</b>

# Bundle overview

## Office



**Your Office application bundle:**  
CoreLine Recessed LED34S & Presence detector LRM1011



Up to **65%**  
energy savings

## Butcher



**Your Butcher application bundle:**  
CoreLine Downlight LED20S & GreenSpace Accent Fresh Food Meat \*



Up to **50%**  
energy savings

## Corridor



**Your Corridor application bundle:**  
CoreLine Downlight LED20S & Presence detector LRM1011



Up to **75%**  
energy savings

## Bakery



**Your Bakery application bundle:**  
CoreLine Downlight LED20S & EcoStyle Fresh Food Champagne \*\*



Up to **60%**  
energy savings

## Industry



**Your Industry application bundle:**  
CoreLine Waterproof LED60S & Movement detector LRM1040



Up to **65%**  
energy savings

## Classroom



**Your Classroom application bundle:**  
CoreLine Surface-mounted LED34S VAR-PC & Presence detector LRM1000



Up to **70%**  
energy savings

## Small car park



**Your Small car park application bundle:**  
CoreLine Waterproof LED40S & Movement detector LRM1040



Up to **80%**  
energy savings

## Restroom



**Your Restroom application bundle:**  
CoreLine Recessed Spot & Movement detector LRM1032



Up to **90%**  
energy savings

## Small storage



**Your Small storage application bundle:**  
CoreLine Batten LED38S & Movement detector LRM1032



Up to **70%**  
energy savings

\* Instead of the GreenSpace Accent Fresh Food Meat, you can also use a track-mounted option: the EcoStyle Fresh Food Meat projector - EOC order code: 85340500 (white) or 85339900 (black). This alternative also enhances the redness in the meat display. Lighting design will differ slightly if alternative products are used.  
\*\* Instead of the EcoStyle Fresh Food Champagne, you can also use a recessed accent option: the GreenSpace Accent Fresh Food Champagne - EOC order code: 26322800 (white). This alternative also enhances the colors and textures of the different breads on display. Lighting design will differ slightly if alternative products are used.

