# collingwood

**light your moment**

# Area bay

Designed to perform
Built to last
Connected to save energy

# Area

## Designed to perform

Light the space using less fittings with our unique lens optic, designed to direct the light where it is needed.

- **Save energy**
- **Save money**
- **Save time on installation**

## Built to last

Made from Aluminium alloy and high quality components, Area Bay provides a long useful lifetime of 54,000 hours L80.

- **5 year guarantee**
- **2 year on-site warranty**

## Connected to save energy

With a selection of sensor options all designed to reduce energy consumption saving both energy and money.

- **PIR sensor**
- **Microwave sensor**
- **Daylight sensor**

bay

# A solution for every project

## The Area Bay can be used in a number of locations

A product designed to be diverse.

**Rack storage floor** • **Open goods storage** • **Unloading / loading area** • **Packing / grouping area** • **Central logistic corridors**

# Meet the range

## A high bay with differentiation

Choose the ideal high bay for your project.



### 16,000lm Area bay

Replaces 2 x 80W T5

| | |
|---|---|
| **Product code** | HBA1V |
| **Type** | Standard |
| **Lumens** | 16000lm |
| **Wattage** | 100W |
| **Efficacy** | 160Llm/W |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 2kg |
| **Warranty** | 5 years<br>2 years on-site |

### 24,000lm Area bay

Replaces 250W or 4 X 49W T5

| | |
|---|---|
| **Product code** | HBA2V |
| **Type** | Standard |
| **Lumens** | 24000lm |
| **Wattage** | 150W |
| **Efficacy** | 160lm/W |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 2kg |
| **Warranty** | 5 years<br>2 years on-site |

### 32,000lm Area bay

Replaces 400W or 4 x 80W T5

| | |
|---|---|
| **Product code** | HBA3V |
| **Type** | Standard |
| **Lumens** | 32000lm |
| **Wattage** | 200W |
| **Efficacy** | 160lm/W |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 2.2kg |
| **Warranty** | 5 years<br>2 years on-site |

# 38,000lm Area bay

Alternative for HBA3V, use less fittings

| | |
|---|---|
| **Product code** | HBA4V |
| **Type** | Standard |
| **Lumens** | 38000lm |
| **Wattage** | 240W |
| **Efficacy** | 160lm/W |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 2.5kg |
| **Warranty** | 5 years<br>2 years on-site |

5

# Meet the range

## Need an emergency option?

Choose the ideal high bay for your project.

### 16,000lm Area bay

Replaces 2 x 80W T5

| | |
|---|---|
| **Product code** | HBA1VEM |
| **Type** | Emergency |
| **Battery type** | Lithium LeFeP04 |
| **Lumens** | 16000lm |
| **Wattage** | 100W |
| **Efficacy** | 160lm/W |
| **Emergency lumens** | 650 |
| **Emergency** | Manual-test |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 3.3kg |
| **Warranty** | 5 years<br>2 years on battery<br>2 years on-site |

### 24,000lm Area bay

Replaces 250W or 4 X 49W T5

| | |
|---|---|
| **Product code** | HBA2VEM |
| **Type** | Emergency |
| **Battery type** | Lithium LeFeP04 |
| **Lumens** | 24000lm |
| **Wattage** | 150W |
| **Efficacy** | 160lm/W |
| **Emergency lumens** | 650 |
| **Emergency** | Manual-test |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 3.3kg |
| **Warranty** | 5 years<br>2 years on battery<br>2 years on-site |

### 32,000lm Area bay

Replaces 400W or 4 x 80W T5

| | |
|---|---|
| **Product code** | HBA3VEM |
| **Type** | Emergency |
| **Battery type** | Lithium LeFeP04 |
| **Lumens** | 32000lm |
| **Wattage** | 200W |
| **Efficacy** | 160lm/W |
| **Emergency lumens** | 650 |
| **Emergency** | Manual-test |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 3.7kg |
| **Warranty** | 5 years<br>2 years on battery<br>2 years on-site |

# 38,000lm Area bay

Alternative for HBA3VEM, use less fittings

| | |
|---|---|
| **Product code** | HBA4VEM |
| **Type** | Emergency |
| **Battery type** | Lithium LeFeP04 |
| **Lumens** | 38000lm |
| **Wattage** | 240W |
| **Efficacy** | 160lm/W |
| **Emergency lumens** | 650 |
| **Emergency** | Manual-test |
| **Dimmable** | 0-10V<br>DALI (with converter) |
| **CCT** | 4000K |
| **LED lifetime** | 54000h L80 |
| **Flicker free** | Yes |
| **Beam angle** | 110° |
| **Pre-wire cable** | 1.5m H05RN-F 3 core |
| **IP rating** | IP65 |
| **IK rating** | IK10 |
| **Maximum ambient temperature** | -20° to +50°C |
| **Weight** | 3.9kg |
| **Warranty** | 5 years<br>2 years on battery<br>2 years on-site |

Indicator

Battery Access

# Installation guide

## How to install your Area Bay?

Choose the ideal mounting method for your project.

### Ring as standard

Our Area Bays come with a detachable ring as standard for fixing to a chain or a hook.

**Comes as standard**

### M20 rod (1.5m)

Drop your area bay to a lower height securely using our rod with M20 thread for fixing directly to trunking or busbar. Recommended when using microwave sensor.

**Product code : HBROD**

## Level installation

When installing an emergency version next to a standard version make sure you use the M20 Extended bracket on the standard version to ensure the emergency version and the standard version are mounted at the same height.

## M20 bracket

Fix directly to trunking or busbar using our bracket with a single point, central M20 thread.

**Product codes**
**Standard Area Bay : HBBRA**
**Emergency Area Bay : HBBRAEM**

## M20 extended bracket

When fixing both standard and emergency luminaires directly to trunking, busbar or a solid surface, use this extended bracket with the standard luminaire to ensure both standard and emergency are mounted at the same height.

**Product code : HBBRAEXT**

# Design guide

## Which high bay is suited to your project?

Use the diagram below to choose your ideal high bay, or for a consultation on your requirements, contact our expert team today. The designers inside The Studio at Collingwood are able to offer expertise throughout the lighting design process, putting together full schemes based around our comprehensive product range. Detailed client consultation ensures a high quality and tailored service.

## Open goods storage area

Use the diagram below for open goods storage areas where **200lux is ideal**.

| 16,000lm | 24,000lm | 32,000lm | 38,000lm |
| 110° | 110° | 110° | 110° |

11m
10m
9m
8m
7m
6m
5m
4m
3m
2m
1m

| 200lux @ 5m | 200lux @ 6m | 200lux @ 7m | 200lux @ 8m |
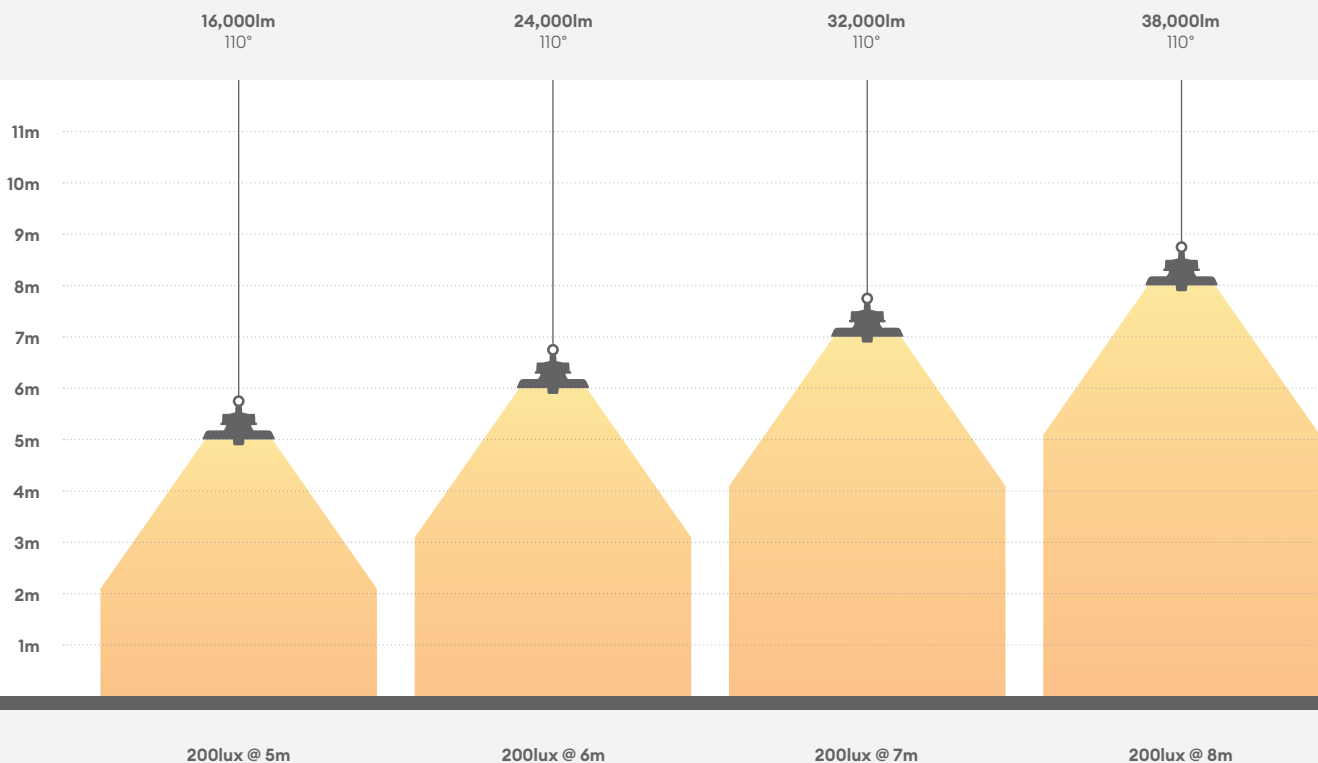
# Rack storage floor

Use the diagram below for rack storage floors where **150lux is ideal**.

| 16,000lm | 24,000lm | 32,000lm | 38,000lm |
| 110° | 110° | 110° | 110° |

| 150lux @ 7m | 150lux @ 9m | 150lux @ 10m | 150lux @ 11m |
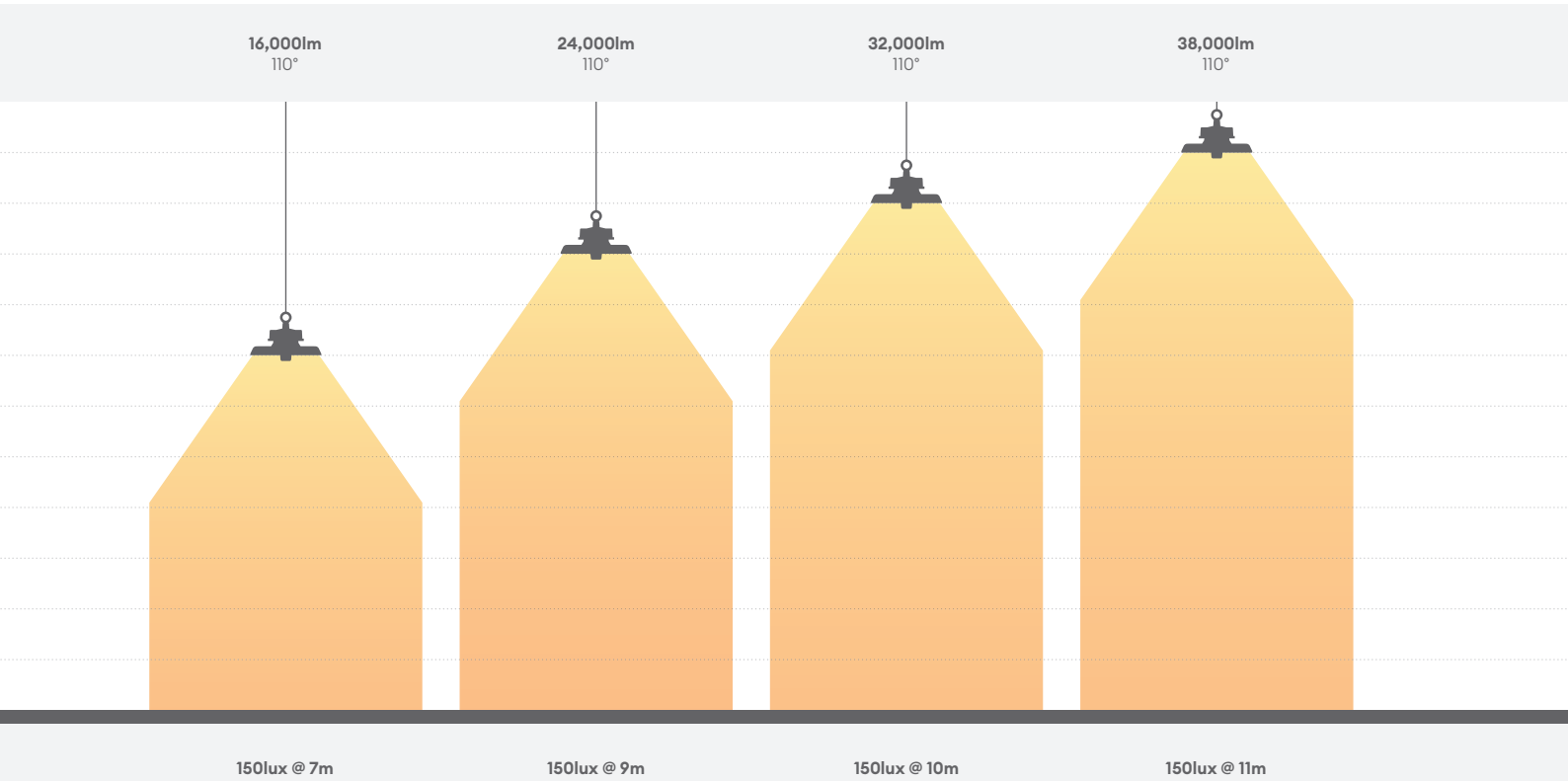
# Energy & cost savings
## Best practice for savings

Save energy & money on your project by following these 3 easy steps.

**1** **Quality optics**

Light the space using less fittings with our unique lens optic, designed to direct the light where it is needed.

**Efficient lighting design**

**2** **Motion sensors**

Use our HBPIR or HBMWS motion sensor to ensure your light is only on when a person is detected.

**Save up to 60%**

## Examples

| Energy rate £/kWh: £0.37 | Existing fitting | **1** Collingwood fitting | **2** Collingwood fitting with motion sensor | **3** Collingwood fitting with motion sensor and daylight detection |
|---|---|---|---|---|
| **Average lamp life** | 12,000 hours | 54,000 hours | 54,000 hours | 54,000 hours |
| **Quantity of fittings** | 100 | 100 | 100 | 100 |
| **Watts per fitting** | 400W | 150W | 150W | 150W |
| **Energy £/Year** | £106,649 | £48,922 | £19,569 | £8,806 |
| **Energy savings £/Year** | - | **£57,727** | **£87,080** | **£97,843** |
| **Energy savings over 5 years** | - | **£288,635** | **£435,400** | **£489,215** |

## 3 Daylight detection

Enable daylight switching, or if your zone is automated, daylight harvesting, to ensure your electric light works in sync with the natural light within the space.

**Save up to an additional 22%**

## Optimise energy savings by using our lighting design service

Make the most of our lighting design service and turn your project into the most energy efficient possible.

**Call 01604 495 151 to get your project started now**

| Energy rate £/kWh: £0.37 | Existing fitting | 1 Collingwood fitting | 2 Collingwood fitting with motion sensor | 3 Collingwood fitting with motion sensor and daylight detection |
|---|---|---|---|---|
| **Average lamp life** | 12,000 hours | 54,000 hours | 54,000 hours | 54,000 hours |
| **Quantity of fittings** | 100 | 100 | 100 | 100 |
| **Watts per fitting** | 250W | 150W | 150W | 150W |
| **Energy £/Year** | £67,512 | £48,922 | £19,569 | £8,806 |
| **Energy savings £/Year** | - | **£18,590** | **£47,947** | **£58,706** |
| **Energy savings over 5 years** | - | **£92,950** | **£239,735** | **£293,530** |

# Quality optics
## Best practice for savings

Each LED chip has its own lens optic that has been optimised to suit the application

### Standard high bay (with no lens optic)

Although this light can be very efficient in terms of output, it actually is not very efficient in terms of direction of light because it has no optical control.
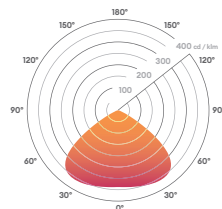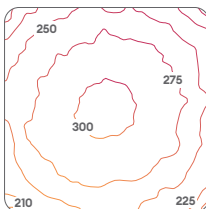
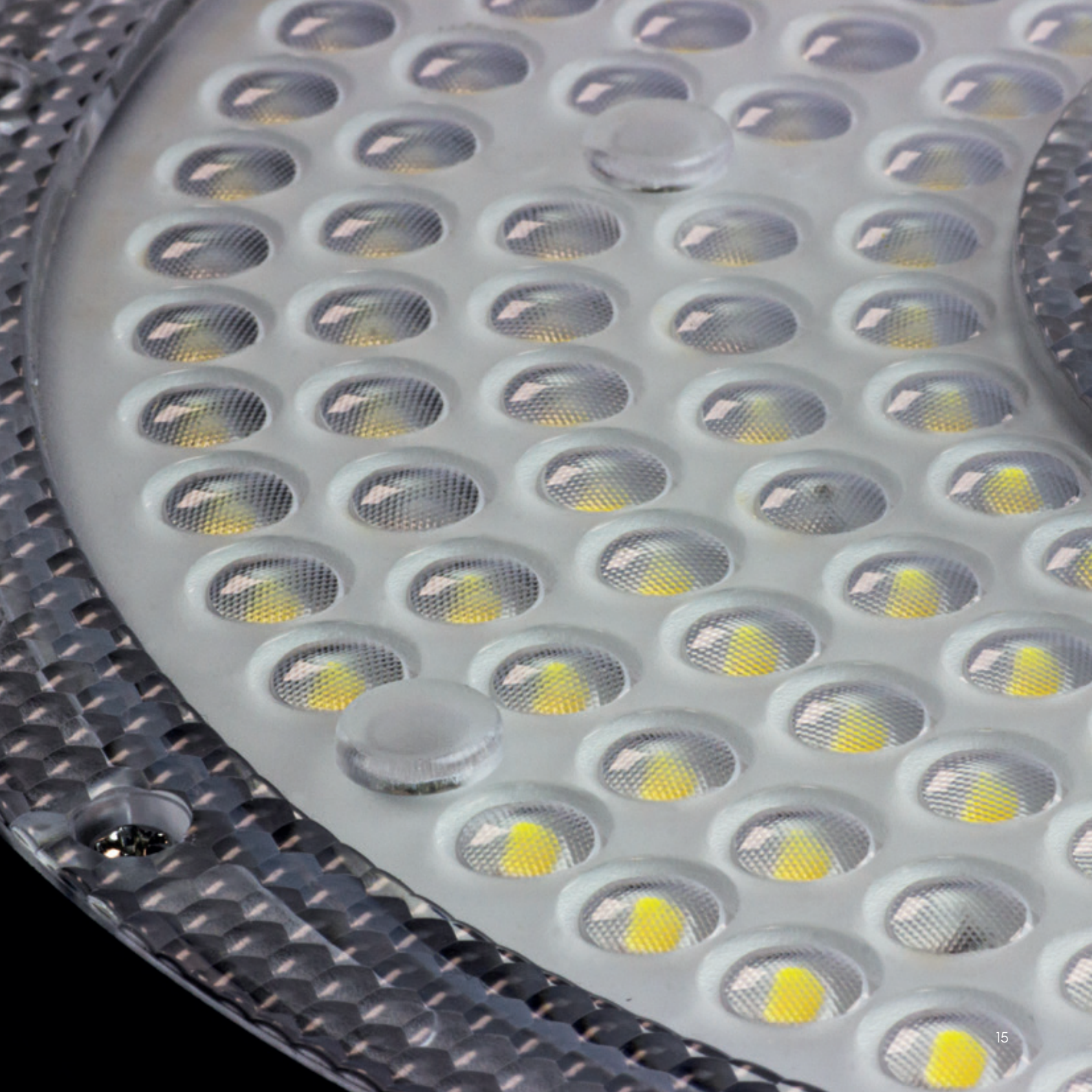**More fittings resulting higher energy consumption and costs**
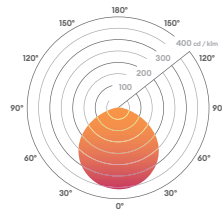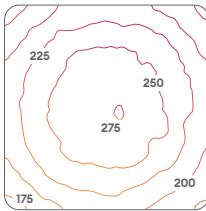


### Area Bay high bay (with lens optic)

To light a space efficiently, a luminaire optic must be designed to direct the light to where it is needed. Our unique lens optic changes the light distribution to create the perfect wide beam application.

**Less fittings required providing energy and cost savings**

# Motion sensors
## Save up to 60% in energy

Using a motion sensor ensures your light is only on when a person is detected.

## PIR Vs Microwave sensors

It's important to know when to choose between a PIR sensor and a Microwave sensor.

### PIR sensor

Ideal for use in aisles.

Perfect for avoiding nuisance triggering in areas that may have vibrations.

**Product code : HBPIR**
with daylight switch

### Microwave sensor

Ideal for use in open areas.

Perfect for areas that need to trigger when the sensor is not in a direct line of sight.

**Product code : HBMWS**
with daylight switch

## Individual Control

Each high bay has its own sensor, which can be mounted up to a recommended height of 13m. Maximise your energy savings by only switching **on** the light you are working under.
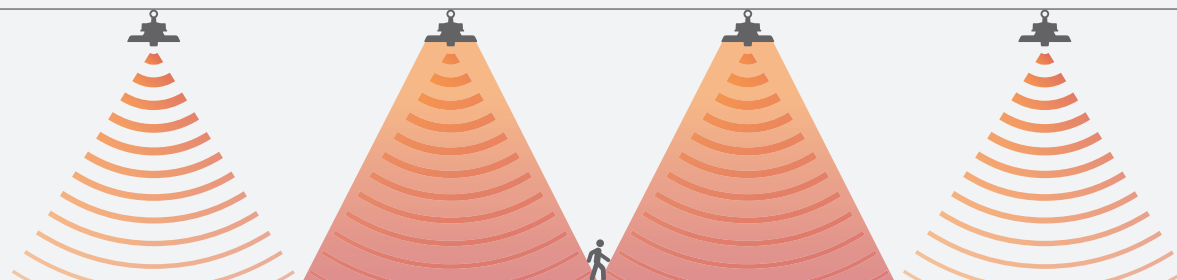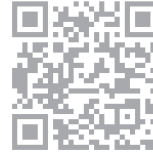
# Quick & easy installation

Save time on the installation ultimately savings costs on installation.

## Quick tool-less connection

Tool-less, plug-in and twist sensors make installation quick & easy for you to adopt lighting control, even interchange your sensors should your floorspace be re-configured.

Takes under
**3 seconds**

Installation is
**Tool-less**

## Simple & easy remote (HBREM)

Commission your Area Bay from the floor.

**Hold Time**:  how long the light stays on after movement is no longer detected
**Stand-by Dimming**:  what level the light should dim to after movement is no longer detected
**Stand-by Period**:  how long after no movement is detected, does the luminaire wait until switching **off**
**Detection Range**:  enables you to adjust the sensitivity of sensor
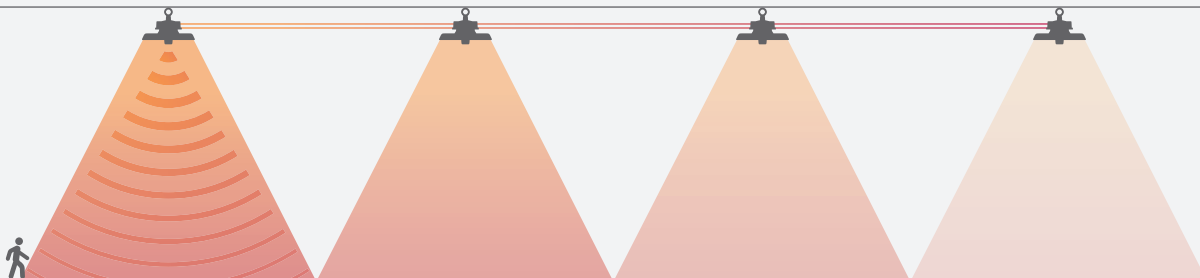**Daylight Threshold**:  set to only switch the light **on** when the natural light in the space is insufficient for the task

# Group control

Each high bay is connected using a 0-10V control line.
Avoid complete darkness and create safety by maintaining a low level of light when no-one is present.

# Daylight detection
## Save up to an additional **22%** in energy

Utilise the daylight from the sky lights within your warehouse to save you energy on your electric lighting

### Daylight switching

Whether your warehouse is made up of open storage areas, racking aisles, quality control or a mix of everything, we can set our lighting to switch **on** or hold **off** depending on the natural light within the space.

Both our **HBPIR** and **HBMWS** include this feature.

### Daylight harvesting

Whenever you have a building that enjoys a generous amount of natural daylight, it is a good idea to harvest this and save money on your electricity bill.

The Area Bay **HBDLS** can be setup to DIM up or down throughout the day as it syncs with this light to maintain the correct level for the tasks being performed in the space by your employees.

Potential energy savings of **82%**

# Step-dimming
## Safety first!

It is human nature to not want to walk into darkness and if your warehouse has long racking aisles, it can be more comfortable to maintain a low level of light instead.

### How it works

Area Bay features a 0-10V dimmable driver as standard with a dimming control line output which can be connect up to 40 high bays to create group control.

When connected our Step-dim feature can reduce the light level (and your energy usage) to a low 10% output during periods when no-one is working within the space but is always ON ready to dim up to 100% output as soon as someone enters the space, quickly and efficiently.

The dimming level % can be set to your preference using the remote, along with the timing of how long the sensor delays, before starting to dim back down and eventually turn **off**.

### DALI

Require DALI for your project? Use our **HBADP** to convert your Area Bay in seconds.

# Lighting design service
## Energy saving lighting designs

At The Studio, our team of professional lighting designers have decades of experience, providing bespoke lighting design solutions for our stockists and end consumers. We pride ourselves on providing a quality hassle free service, delivering quality, compliant, energy saving solutions on time.

## What is included in our service?

### Compliant lighting solutions

Our lighting design team have decades of experience producing compliant lighting solutions.

### Customised design for your needs

Using cutting edge lighting design software, we provide a comprehensive lighting solution specifically tailored to your project.

### Single room to entire building designs

We provide a lighting design for anything from a single room, to a more complex project with multiple areas on large infrastructures.

### Quick, efficient and on budget

We provide our lighting design solutions in a quick turn around and on budget to give you a hassle free process and peace of mind.

### Relux

We use Relux to ensure our lighting designs have been built using the most effective software possible.

### Full quote and solution

We provide the complete solution for your project, which includes a full lighting scheme, which products, the quantity of products, the level of illumination, and how it is compliant all in one easy to read pdf.

## What do you have to do?

All you need to do is provide us with a DWG or PDF plan of your project, and from there we can provide you with a full solution and quote.
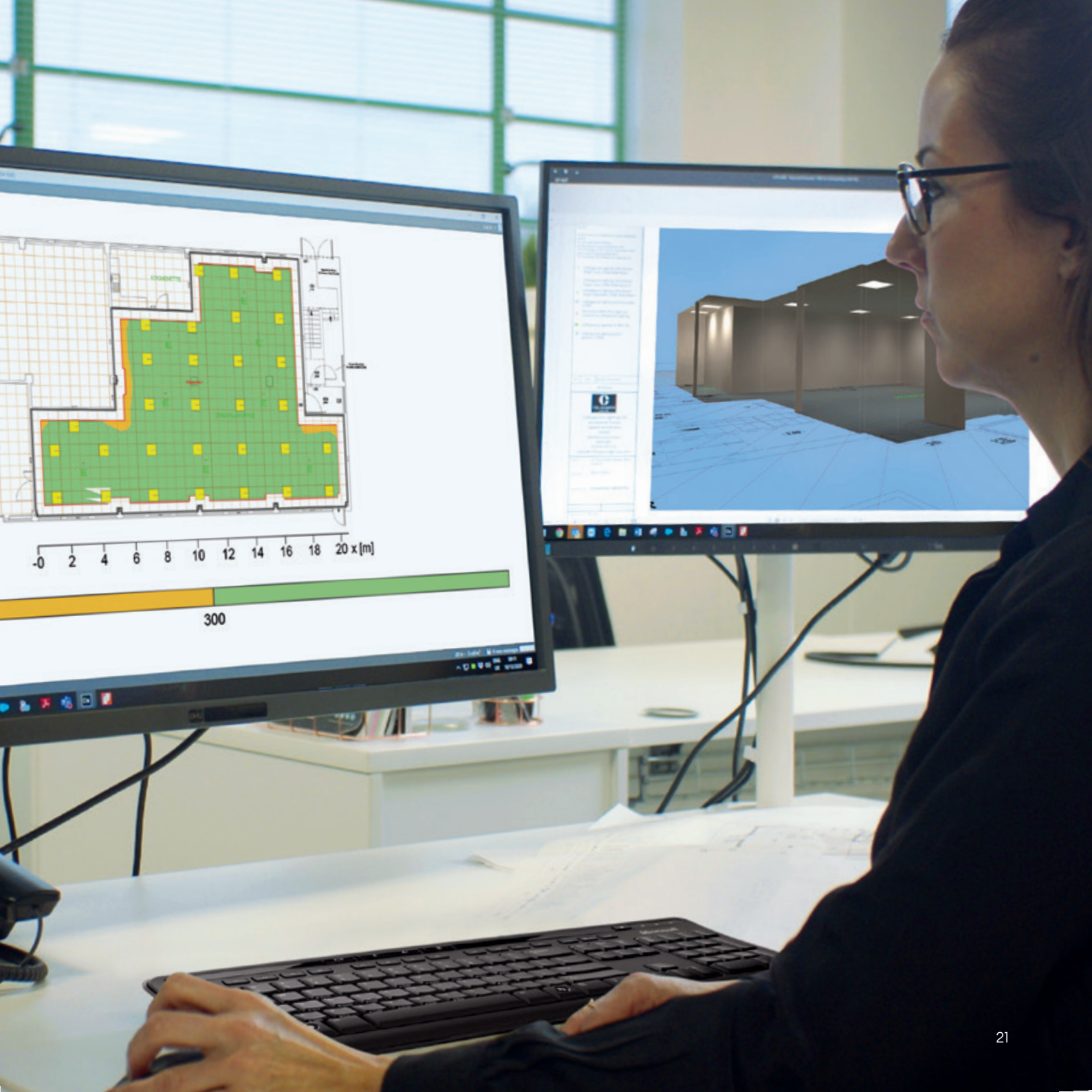
# Sustainable approach

## Make the right choice for the planet

The Collingwood philosophy is to take the sustainable approach and as such have designed our Area Bays to be as sustainable as possible.

## An Area Bay made right

We have manufactured our Area Bay to be as sustainable as possible.

### Efficient light distribution

High performance optics place light where it is needed, avoiding wasted lumens and therefore wasted power.

### Easy serviceability

Designed to ensure all components are replaceable, we have paid special attention to make it easy to change the emergency battery at end of life plus allow upgrade or rectification of the driver, extending the lifetime of the product and giving you peace of mind.

### Recyclable at end of life

Manufactured using Aluminium allow that is 100% recyclable, we do not only consider the luminaire but the packaging too as we select FSC certificated sources of cardboard and ensure no plastic is used to house our product or its accessories.
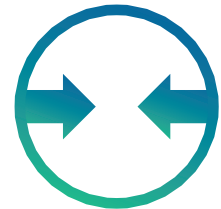
### Minimised material usage

Careful attention during the product development was made to optimise the efficiency of our product so that we could offer a compact heatsink design and therefore minimal material content whilst still retaining high performance.

# Sustainability is at the core of everything we do

Our commitment to tackle environmental challenges means we are pro-actively taking action to minimise the impact of our materials used and operations, to build towards carbon neutrality.

### Silver medal EcoVardis

Methodology built on international sustainability standards, EcoVadis are the worlds largest and most trusted provider to rate our business and provide you with transparency on environmental, social and ethical performance - or sustainability.

### Recycling

- 100% of cardboard waste is either used as shredded packaging filler or recycled.
- 100% of plastic waste is used in bales or recycled.
- 100% of our warehouse pallets are recycled.

### Energy from renewable sources

100% of our electricity all comes from renewable energy sources such as solar and wind turbines.

### Waste experts partnership

We partner with waste experts to enhance our overall environmental performance.
- 100% of waste is diverted from landfill.
- 96% of waste is recycled, with the remaining 4% being recovered as energy from waste.
- Consolidating waste pick ups to minimise our carbon footprint.
- Euro 6 standard for all waste pick up vehicles.

# No substitute for quality
## You can be confident with us

In locations where people are performing labour tasks it is essential to be as safe as possible.

### 5 year guarantee

You can trust in our products as we do. We offer long warranties on our products because we believe in our products. They all go through vigorous testing to ensure they are of the highest quality that will stand the test of time.

### 2 year on-site guarantee

On the rare occasion you need to make the most of an on-site guarantee we offer one for two years.

### Warranty registration

Complete our online form within 90 days of installing to ensure you receive your free extended warranty.

### LIA accreditation

The Lighting Industry Association Quality Assurance scheme is a quality assurance scheme developed by industry experts. The scheme assesses the members quality system and product compliance, and supports the member in achieving and maintaining the standard expected for LIA membership. Collingwood have been awarded the LIAQA Assured Company mark.

### EDA accreditation

The EDA (Electrical Distributors' Association) is the trade association that represents the interests of wholesale distributors of electro-technical products in the UK. Collingwood are a product affiliate and together we work for the good of the sector.

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