GLASS GG GUARD

Coated Outside

BlackBand® to BS EN 61549

Fragment Retention Lamp Standard

Product Catalogue

GG GUARD

In partnership with

GlassGuard BlackBand® Coated T5 Std Fluorescent

Length	Stock Code	Description
300mm	883/S	12" 8w Col 830
	884/S	12" 8w Col 840
525mm	1383/S	21" 13w Col 830
	1384/S	21" 13w Col 840
563mm	1483/S	14w Col 830
	1484/S	14w Col 840
	14865/S	14w Col 865
	2483/S	24w Col 830
	2484/S	24w Col 840
	24865/S	24w Col 865
863mm	2183/S	21w Col 830
	2184/S	21w Col 840
	21865/S	21w Col 865
	3983/S	39w Col 830
	3984/S	39w Col 840
	39865/S	39w Col 865
1163mm	2883/S	28w Col 830
	2884/S	28w Col 840
	28865/S	28w Col 865
	5483/S	54w Col 830
	5484/S	54w Col 840
	5484EXTRA/S	54w Col 840 Extra Life
	54865/S	54w Col 865
1463mm	3583/S	35w Col 830
	3584/S	35w Col 840
	35865/S	35w Col 865
	4983/S	49w Col 830
	4984/S	49w Col 840
	4984EXTRA/S	49w Col 840 Extra Life
	49865/S	49w Col 865
	8083/S	80w Col 83
	8084/S	80w Col 840
	8084EXTRA/S	80w Col 840 Exta Life
	80865/S	80w Col 865

GlassGuard BlackBand® Coated T8 Watt-Miser

Length	Stock Code	Description
2ft 600mm	1683/S	16w Col 830 Watt-Miser
	1684/S	16w Col 840 Watt-Miser
4ft 1200mm	3283/S	32w Col 830 Watt-Miser
	3284/S	32w Col 840 Watt-Miser
5ft 1500mm	5183/S	51w Col 830 Watt-Miser
	5184/S	51w Col 840 Watt-Miser
6ft 1800mm	6383/S	63w Col 830 Watt-Miser
	6384/S	63w Col 840 Watt-Miser

GlassGuard® Coated Halogen 2,000 Hour GLS Lamps

	Stock Code	Description
Std	42WBCHALGLSP/S	42w BC Clear
Std	70WBCHALGLSP/S	70w BC Clear
Std	42WESHALGLSP/S	42w ES Clear
Std	70WESHALGLSP/S	70w ES Clear
Std	42WBCHALCAN/S	42w BC Clear Candle
Std	42WESHALCAN/S	42w ES Clear Candle
Std	42WESHALGOLF	42w ES Clear Golf Ball

GlassGuard BlackBand® Coated BlackLight Blue Lamps

Length	Stock Code	Description
2ft 600mm	1808/S	18w BLB
4ft 1200mm	3608/S	36w BLB

All products where applicable are subject to the WEEE recycling charge. Our high quality GlassGuard® coating is applied to lamps from the leading brands: **Philips, GE, Osram** & **Sylvania**

GlassGuard BlackBand® Coated T8 Std Fluorescent Lamps

Length	Stock Code	Description
18" 450mm	1583/S	15w Col 830
	1584/S	15w Col 840
2ft 600mm	1883/S	18w Col 830
	18835/S	18w Col 835
	1884/S	18w Col 840
	1884EXTRA/S	18w Col 840 Extra Life
	1884EXT/S	18w Col 840 Extreme Life
	18865/S	18w Col 865
	18965/S	18w Col 965 Daylight
	1879/S	18w Col 79 Gourmet
3ft 900mm	3083/S	30w Col 830
	3084/S	30w Col 840
	3079/S	30w Col 79 Gourmet
4ft 1200mm	3683/S	36w Col 830
	36835/S	36w Col 835
	3684/S	36w Col 840
	3684EXTRA/S	36w Col 840 Extra Life
	3684EXT/S	36w Col 840 Extreme Life
	3684R/S	36w Col 840 Reflex
	36865/S	36w Col 865
	36965/S	36w Col 965 Daylight
	3679/S	36w Col 79 Gourmet
5ft 1500mm	5883/S	58w Col 830
	58835/S	58w Col 835
	5884/S	58w Col 840
	5884EXTRA/S	58w Col 840 Extra Life
	5884EXT/S	58w Col 840 Extreme Life
	5884R/S	58w Col 840 Reflex
	58865/S	58w Col 865
	58965/S	58w Col 965 Daylight
	5879/S	58w Col 79 Gourmet
6ft 1800mm	7083/S	70w Col 830
	70835/S	70w Col 835
	7084/S	70w Col 840
	7084EXTRA/S	70w Col 840 Extra Life
	70865/S	70w Col 865

GlassGuard BlackBand® Coated Insect & Germicidal Lamps

Length	Stock Code	Description
12" 300mm	128WBL368/S	12" 8w BL368
18" 450mm	1518BL368/S	18" 15w BL368
2ft 600mm	18BL368/S	2ft 18w BL368
2ft 600mm	1810P/S	2ft 18w Col10
2ft 600mm	2420WBL368/S	2ft 20w BL368
2ft 600mm	2440WBL368/S	2ft 40w BL368
	FC22WBL368/S	FC 22w Circline BL368
	25WUBEND	4 PIN 25w U Bend BL368
	40WUBEND	4 PIN 40w U Bend BL368
	PL11WLYNX-S	2 PIN 11w LYNX BL368
12" 300mm	8TUV/S	12" 8w Germicidal UVC
18" 450mm	15TUV/S	18" 15w Germicidal UVC
3ft 900mm	30TUV/S	3ft 30w Germicidal UVC
4ft 1200mm	36TUV/S	4ft 36w Germicidal UVC

T8 UV Blocking Sleeves

Length	Stock Code	Description
2ft 600mm	18WG10	18w Gold/Yellow
2ft 600mm	18WC10	18w Clear U.V Block
3ft 900mm	30WG10	30w Gold/Yellow
3ft 900mm	30WC10	30w Clear U.V Block
4ft 1200mm	36WG10	36w Gold/Yellow
4ft 1200mm	36WC10	36w Clear U.V Block
5ft 1500mm	58WG10	58w Gold/Yellow
5ft 1500mm	58WC10	58w Clear U.V Block
6ft 1800mm	70WG10	70w Gold/Yellow
6ft 1800mm	70WC10	70w Clear U.V Block

T5 UV Blocking Sleeves

Length	Stock Code	Description
563mm	14W/24WG10	14w / 24w Gold/Yellow
	14W/24WC10	14w / 24w Clear U.V Block
863mm	21W/39WG10	21w / 39w Gold / Yellow
	21W/39WC10	21w / 39w Clear U.V Block
1163mm	28W/54WG10	28w / 54w Gold / Yellow
	28W/54WC10	28w / 54w Clear U.V Block
1463mm	35W/49WG10	35w / 49w Gold / Yellow
	35W/49WC10	35w / 49w Clear U.V Block

GlassGuard® Coated Halogen Flood Lights

Length	Stock Code	Description
Std	FLOOD375W/S	400w Energy Saver Flood Light
Std	FLOOD300W/S	300w Flood Light

GlassGuard® Coated HID Mercury Lamps

Length	Stock Code	Description
Std	80HPLN/S	80w MBF/U
Std	125HPLN/S	125w MBF/U
Std	250HPLN/S	250w MBF/U
Std	400HPLN/S	400w MBF/U

GlassGuard® Coated HID Metal Halide Lamps

Length	Stock Code	Description
Std	HPI250W/S	250w Philips Elliptical Metal Halide
Std	HPI400W/S	400w Philips Elliptical Metal Halide
Std	250WHIE00326/S	250w Venture Elliptical Metal Halide
Std	400WHIE00327/S	400w Venture Elliptical Metal Halide

GlassGuard® Coated Incandescent Lamps

Length	Stock Code	Description
Std	25W BCP/S	25w BC Clear
Std	40WBCP/S	40w BC Clear
Std	25WESP/S	25w ES Clear
Std	40WESP/S	40w ES Clear
Std	60WBCR64/S	60w BC R64 Reflector Spot
Std	60WBCR80/S	60w BC R80 Reflector Spot
Std	60WESR64/S	60w ES R64 Reflector Spot
Std	60WESR80/S	60w ES R80 Reflector Spot
Std	40WESCGOLF/S	40w ES Clear 45mm Round

GlassGuard® Coated Compact Fluorescent Lamps

Length	Stock Code	Description
Std	10WPLC2P83	10w PL-C 2 Pin Col 83
Std	10WPLC2P84	10w PL-C 2 Pin Col 84
Std	13WPLC2P83	13w PL-C 2 Pin Col 83
Std	13WPLC2P84	13w PL-C 2 Pin Col 84
Std	18WPLC2P83	18w PL-C 2 Pin Col 83
Std	18WPLC2P84	18w PL-C 2 Pin Col 84
Std	26WPLC2P83	26w PL-C 2 Pin Col 83
Std	26WPLC2P84	26w PL-C 2 Pin Col 84
Std	10WPLC4P83	10w PL-C 4 Pin Col 83
Std	10WPLC4P84	10w PL-C 4 Pin Col 84
Std	13WPLC4P83	13w PL-C 4 Pin Col 83
Std	13WPLC4P84	13w PL-C 4 Pin Col 84
Std	18WPLC4P83	18w PL-C 4 Pin Col 83
Std	18WPLC4P84	18w PL-C 4 Pin Col 84
Std	26WPLC4P83	26w PL-C 4 Pin Col 83
Std	26WPLC4P84	26w PL-C 4 Pin Col 84
Std	18WPLL4P83	18w PL-L 4 Pin Col 83
Std	18WPLL4P84	18w PL-L 4 Pin Col 84
Std	24WPLL4P83	24w PL-L 4 Pin Col 83
Std	24WPLL4P84	24w PL-L 4 Pin Col 84
Std	36WPLL4P83	36w PL-L 4 Pin Col 83
Std	36WPLL4P84	36W PL-L 4 Pin Col 84
Std	40WPLL4P83	40w PL-L 4 Pin Col 83
Std	40WPLL4P84	40w PL-L 4 Pin Col 84
Std	55WPLL4P83	55w PL-L 4 Pin Col 83
Std	55WPLL4P84	55w PL-L 4 Pin Col 84
Std	80WPLL4P83	80w PL-L 4 Pin Col 83
Std	80WPL-L4P84	80w PL-L 4 Pin Col 84
Std	5WPLS2P83	5w PL-S 2 Pin Col 83
Std	5WPLS2P84	5w PL-S 2 Pin Col 84
Std	7WPLS2P83	7w PL-S 2 Pin Col 83
Std	7WPLS2P84	7w PL-S 2 Pin Col 84
Std	9WPLS2P83	9w PL-S 2 Pin Col 83
Std	9WPLS2P84	9w PL-S 2 Pin Col 84
Std	11WPLS2P83	11w PL-S 2 Pin Col 83
Std	11WPLS2P84	11w PL-S 2 Pin Col 84

GlassGuard® IP65 T5 HF with GlassGuard BlackBand®

Length	Stock Code	Description
4ft 1200mm	IP6528THF	Twin 28w T5
4ft 1200mm	IP6554THF	Twin 54w T5
5ft 1500mm	IP6535THF	Twin 35w T5
5ft 1500mm	IP6549THF	Twin 49w T5
5ft 1500mm	IP6580THF	Twin 80w T5

GlassGuard® IP65 T8 HF with GlassGuard BlackBand®

Length	Stock Code	Description
4ft 1200mm	IP6532THF	Twin 32w Watt-Miser T8
4ft 1200mm	IP6536THF	Twin 36w T8
5ft 1500mm	IP6558THF	Twin 58w T8
5ft 1500mm	IP6551THF	Twin 51w Watt-Miser T8
5ft 1500mm	IP6558THFXTM-POL	Twin 58w T8 Polar

GLASS GG GUARD

- All GlassGuard BlackBand® Fluorescent Lamps Meet BS EN 61549 Fragment Retention Lamp Standard & All EUP Regulations

- All Lamps Suitable For Open & Enclosed Fixture Operation

- Exclusive Single BlackBand® Ring Optimises Safety by Enabling Remote Lamp Identification & Compliance

- Achieves H.A.C.C.P Compliance Quickly & Easily to a High Standard

- Creates a Glass Free Environment Protecting Product, Profits & Personnel

- Long Life 20,000 Hour Protection Providing Significant Client Savings Through Cost of Ownership

- Lamp & Coating Fully Recyclable

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ARK8

Polar Version for Cold Rooms

- GlassGuard BlackBand® Protected to BS EN61549 Standard
- Up to 60% Higher Output at Lower Temperatures
- 5 Year Polar Lamp Technology
- No Sleeves or Diffusers Neccessary
- Quick & Easy Lamp Replacement
- Low Investment Compared With LED
- Passes All Hygiene Audits

Performance Data

Ambient Temp	Lumen Output
- 5º C	100%
- 15º C	90%
- 25º C	60%

THE ULTIMATE LOW MAINTENANCE

FOOD INDUSTRY LUMINAIRE

IP 65

T5 H.F With GlassGuard BlackBand®

Stock Code	Description
PRO28THF	Twin 28w T5
PRO54THF	Twin 54w T5
PRO35THF	Twin 35w T5
PRO49THF	Twin 49w T5
PRO80THF	Twin 80w T5

T8 H.F With GlassGuard BlackBand®

Stock Code	Description
PRO32THF	Twin 32w Watt-Miser T8
PRO36THF	Twin 36w T8
PRO58THF	Twin 58w T8
PRO51THF	Twin 51w Watt-Miser T8
PRO58THFXTM-POL	Twin 58w T8 Polar

Distributed By:-

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GLASS GG GUARD

Coated Outside

BlackBand® to BS EN61549

IP65

THE ULTIMATE LOW MAINTENANCE

FOOD INDUSTRY LUMINAIRE

IP65 Fluorescent Luminaries

- IP65 rated

- GlassGuard BlackBand® protected to BS EN61549 standard

- Low maintenance (no diffusers necessary)

- H.F control gear (5 year service life)

- Up to 40% energy saving with T5 lamps

- Fast payback on investment

- Food industry compliant

GlassGuard® IP65

Fully IP65 rated available in twin or single batten

H.F or low loss control gear available

24 Hour protection with GlassGuard BlackBand® Shatterproof Lamps Manufactured to BS EN61549 standard

Low maintenance costs as no diffuser or clips necessary

Save up to 40% energy with T5 lamps!

GlassGuard® Luminaires

Introduction

GlassGuard® manufactures an extensive range of luminaires and lamps which are designed to provide the highest level of protection for the food production, pharmaceutical, hotel and catering industries as well as public areas such as schools, leisure centres and hospitals.

Added value

All of our luminaires come with the added protection of GlassGuard BlackBand® fragment retention lamps.

GlassGuard® produces Europe's widest range of fragment retention lamps, providing a safer lighting solution for all businesses and organisations wishing to minimise the risk of glass contamination or injury from accidental lamp breakages.

GlassGuard BlackBand® is manufactured in compliance with EN 61549, providing a guaranteed level of protection. The BlackBand® ring is our signal of compliance.

Fragment Retention Lamps

Fragment retention lamps are standard glass lamps with a polymer coating applied to the outside surface, including the end caps. In the event of accidental breakage, the coating will retain all of the glass particles safely, thus ensuring adequate protection.

GlassGuard® SB

GlassGuard® SB 55-220 and SB 80-320 range of luminaires can provide significant financial savings and fast paybacks against existing 250w and 400w metal halide or sodium lighting for warehousing, sports halls and other high-level lighting. Using latest compact fluorescent lamp technology combined with high efficiency reflector design (LOR of 93%), the GlassGuard® SB range of luminaires is compact and versatile, designed to meet your lighting requirements.

Achieve BRC, IFS, HACCP and H&S compliance quickly and easily to a high standard!

As tubular metal halide and sodium lamps are not available in fragment retention options due to operating temperatures, GlassGuard® SB luminaires offer a 100% 'glass free' solution protecting against product contamination and personnel or public injury. The compact fluorescent lamp technology also offers 90% lumen maintenance throughout lamp life compared to only 70% with metal halide and sodium versions. This results in more stable light levels of up to 20,000 hours with excellent colour performance. The GlassGuard BlackBand® fragment retention lamps which are supplied with the fixtures meet the requirements of BRC, IFS, HACCP, H&S and other food manufacturing standards.

More time for planned maintenance!

When metal halide or sodium lamps fail, an immediate floor-level dark spot is created resulting in possible Health & Safety issues. At times, it can be days or weeks before a replacement lamp is fitted, especially at high level and difficult to access environments.

GlassGuard® SB luminaires incorporate a four-way lamp twin ballasted feature which will continue to deliver 50% illumination in the event of a single lamp failure (2 lamps – 1 ballast). This leaves more time for you to react and plan your maintenance, avoiding H&S issues. Luminaires incorporating the LumaStat® feature will automatically power the remaining lamps at full capacity to compensate for the non-functioning lamps, thereby preventing a floor-level dark spot.

Immediate energy and financial savings with fast payback!

Up to 50% energy savings can be immediately achieved with low up front investment costs. Compared to other technologies such as LED and induction lighting, payback periods can be as little as 18 months and with the 5-year ballast warranty you can enjoy trouble free lighting with significant savings year on year.

Comparison against 250w Metal Halide / Sodium

Basic Energy Saving Calculation (24 hour operation):
Existing Installation (without motion or daylight options)

1 x 250w Tubular M/H	=	300w (consumption including circuit losses)
4 x 55w (SB 55-220)	=	220w (no circuit losses with HF control gear)

Net Energy Saving = **80w or 27%**

Total Annual Energy Saving = **700Kw** (80w x 8760 hrs)

Total Annual Financial Saving = **£70.00** (based upon £0.10 P/Kw Hr)

Additional Minimum Savings with LumaStat® Daylight Sensor Control
50% Output Reduction for 4 hrs per day (minimum average)

4 x 55w (220w) - 50%	=	110w
4 hrs per day (4 x 110w)	=	440w

Net Saving per Day = **£0.044** *(based upon £0.10 P/Kw Hr)*

Additional Annual Financial Saving = **£16.06** (£0.044 x 365)

Additional Annual Energy Saving = **160Kw** (440w x 365)

Grand Total Annual Energy Saving = **860Kw (33%)**
Grand Total Annual Financial Saving = **£86.00**

Based on Major European lamp manufacturers published data

Comparison against 400w Metal Halide / Sodium

Basic Energy Saving Calculation (24 hour operation):
Existing Installation (without motion or daylight options)

1 x 400w Tubular M/H	=	450w (consumption including circuit losses)
4 x 80w (SB 80-320)	=	320w (no circuit losses with HF control gear)

Net Energy Saving = **130w or 29%**

Total Annual Energy Saving = **1,138Kw** (130w x 8760 hrs)

Total Annual Financial Saving = **£113.80** *(based upon £0.10 P/Kw Hr)*

Additional Minimum Savings with LumaStat® Daylight Sensor Control
50% Output Reduction for 4 hrs per day (minimum average)

4 x 80w (320w) - 50%	=	160w
4 hrs per day (4 x 160w)	=	640w

Net Saving per Day = **£0.064** *(based upon £0.10 P/Kw Hr)*

Additional Annual Financial Saving = **£23.36** (£0.064 x 365)

Additional Annual Energy Saving = **234Kw** (640w x 365)

Grand Total Annual Energy Saving = **1,372Kw (35%)**
Grand Total Annual Financial Saving = **£137.20**

Based on Major European lamp manufacturers published data

Standard Fixture Construction:

- White polyester painted steel body with IP20 rating
- High performance reflector made from MIRO grade polished aluminium
- Wieland GST18 Power cable entry socket on end of body
- Supplied with 2 'L' shaped end brackets for easy fixing
- Can also be fixed via optional 4 x 20mm knock-outs in rear of body for suspension or ceiling mounting with 2 x BESA fixings
- High frequency gear

Features:

- Low profile fluorescent low bay for a wide variety of industrial and commercial applications including sports, retail and warehouse installations
- High light output ratio (LOR 93%)
- GlassGuard BlackBand® protected compact fluorescent lamps to EN 61549
- 20,000 hours lamp service life
- 5 years ballast warranty
- 50% illumination in the event of single lamp failure
- Safety locking lamp holders
- LumaStat® daylight link lighting sensor control system*
- Presence detection and dimmable options*
- Emergency versions*
- Hand held digital programming from up to 20 metres*
- LumaLift remote controlled motorised luminaire lowering system*
- Wire guard and dustproof polycarbonate accessories available

* Where fitted

Benefits:

- A compact energy efficient alternative to tubular metal halide and sodium luminaires
- High Light Output Ratio (LOR) by increased reflector efficiencies
- Eliminates the risk of product contamination and personal injury from accidental lamp breakage
- Achieves BRC, IFS, HACCP and H&S compliance quickly and easily to a high standard
- Savings through full control of lighting levels with LumaStat® daylight link system
- Very low maintenance with less planning required and more flexibility
- Immediate energy and financial savings on a significant level
- Fast payback on investment
- Quick and easy lamp replacement
- Hand held easy to use digital programming for complete installation
- Immediate illumination (no lengthy warm up period or hot re-strike issues)
- 90% lumen maintenance throughout lamp service life
- Packages to suit all applications

GlassGuard® SB Plus

Our GlassGuard® SB range of luminaires come with a range of optional extras to suit your lighting requirements.

LumaStat®

Daylight is FREE so make the most of it!

Up to a 60% energy saving is achievable with LumaStat® Daylight Sensor Control function for applications where ambient daylight is present. Select the desired lux level using the hand-held LumaStat® programmer at dusk. Output levels will then decrease automatically during the day in accordance with the amount of natural daylight present. This can provide further significant savings as the luminaires will typically dim on sunny days by up to 50% for at least 4 hours.

Presence Detection with Motion Sensor

Presence detection is also available with a number of user settings. The GlassGuard® SB motion sensor range is fitted with a Passive Infra-Red (PIR) which detects motion from up to a 20 metre height. This provides automatic switch off in an empty environment and minimises energy wastage, delivering significant energy and financial savings.

The motion sensor can also be programmed to operate the luminaire at a 20% output in a vacant environment.

This is recommended for installations where full light output is immediately required on entry.

- Standard housing with presence detector, pre-set to 20 minutes or customer requirements
- Integral sensor provides photocell control, lighting held off whilst ambient light present
- Can operate up to 20 metres mounting height as standard
- Supplied with fixed output gear
- Can provide up to 30% energy savings

LumaLift

Raise and lower luminaires automatically by remote control, eliminating expensive ongoing access equipment hire costs associated with lighting maintenance. LumaLift from GlassGuard® will lower luminaires automatically from mounting heights of up to 20 metres to a floor standing height. This enables the user to carry out on-the-spot maintenance quickly and easily, significantly reducing H&S or quality issues associated with poor lux levels and dark spots.
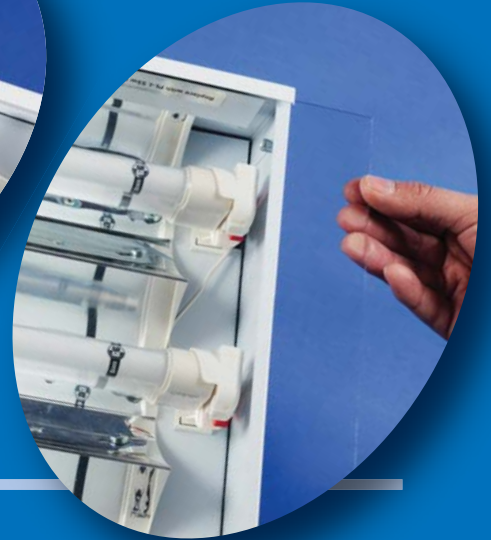
As soon as the lift is lowered, power is automatically cut off to the luminaire allowing maintenance to be carried out safely and easily. When the luminaire is raised back to its original docking position, power is automatically restored with immediate illumination.

LumaLift is ideal for factory and sports applications which are difficult to access by other means. Reduce long term excessive

maintenance costs and take control of your lighting in-house without the need for a scaffold or cherry picker.

Construction
- Belt driven
- Fail safe shut-off
- Stirrup mounting bracket with 1 x 14mm dia. centre hole and 2 x 20mm x 10mm slotted holes at 150mm centres
- Separate 3 pole mains terminal block for LumaLift power and for luminaire power

Features
- Designed to raise and lower luminaires that are located in difficult to access areas
- Ideal for factory, retail or sports applications where lamp change and luminaire maintenance is expensive
- Power cut off to luminaire when lift is lowered
- Designed for loads up to 12kg in weight - heavy duty version also available
- Can be used for mounting heights up to 20 metres

Accessories

Polycarbonate covers and wire guards are also available for applications where dust or flying objects are present. These can be fitted at the time of installation to provide additional safety.

Emergency Versions

GlassGuard® SB 55-220 and SB 80-320 luminaires are also available in emergency versions.

A 3-hour battery backup is fitted as standard, meeting latest guidelines and legislation.

GlassGuard® IP65

Our range of GlassGuard® IP65 luminaires do not require any diffuser covers or clips which can degrade or break over time. The absence of diffuser covers not only reduces maintenance costs significantly but also increases lumen output throughout.

The IP65 rating means that the luminaires guarantee ingress protection against dust and water, allowing washing and cleaning to a high level thus maintaining hygiene standards.

Polar Version

Our Polar version for cold rooms offers all the benefits associated with the standard range and also provides up to 60% higher output at lower temperatures.

GLASS GG GUARD

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