



FGLED®

Market leading fire-rated LED downlights

- New FGLED3® upgrade
- Highest specification construction
- Crystal clear engineered lenses
- Patented design for maximum fire safety

Advanced LED lighting

10 year domestic and 5 year commercial extended warranty.
Register online at jcc.co.uk





We believe that a manufacturers' warranty is your assurance of quality.

This is why we have always provided FGLED® products with an industry leading ten year domestic and five year commercial extended warranty.

All of our products are independently tested to ensure that they perform to the highest standards.

To register your warranty, simply go to:
jcc.co.uk/warranty

Service & support

If you have any questions about the FGLED® range please contact a member of our team.

Customer services
01243 838999

Technical support
01243 838986

Email
sales@jcc.co.uk



Download JCC's free cost saving app to see how much you could save by using our commercial downlights.



FGLED3®

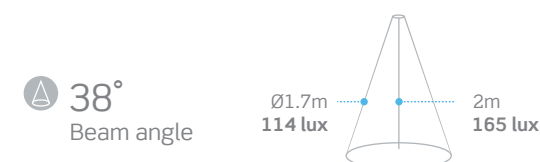
NEW
product



The **cost effective** fire-rated LED downlight

⚡ 380 lumens | 320 lumens
Cool white (4000K) | Warm white (3000K)

- **NEW** increased light output
- **NEW** dimmable as standard
- **NEW** 90mm depth, ideal for shallow ceiling voids
- **NEW** press fit termination
- Up to 88% saving against halogen



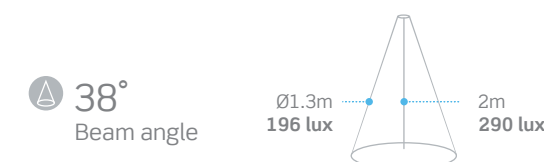
FGLED6®



The **market leading** fire-rated LED downlight

⚡ 500 lumens | 450 lumens
Cool white (4000K) | Warm white (3000K)

- Ideal retrofit halogen replacement
- Six LED array provides clear crisp light
- Designed for standard ceiling heights
- Tilt version available
- Dimmable option



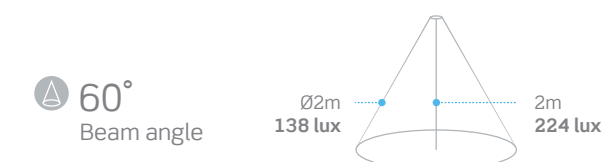
FGLED10®



The **high output** fire-rated LED downlight

⚡ 850 lumens | 750 lumens
Cool white (4000K) | Warm white (3000K)

- Achieve the same light level using 50% less fittings
- Fewer fittings reduces installation costs
- Provides cleaner, less cluttered ceilings
- Ideal for new builds and renovations
- Dimmable as standard



What makes FGLED® the UK's favourite LED downlight?



Safety first

Enclosed steel can design

JCC's enclosed steel can design stops flames from entering the ceiling void, forming a complete barrier in the event of a fire.

In addition, the steel can protects the heat sink from flammable dust, ensuring maximum fire safety.

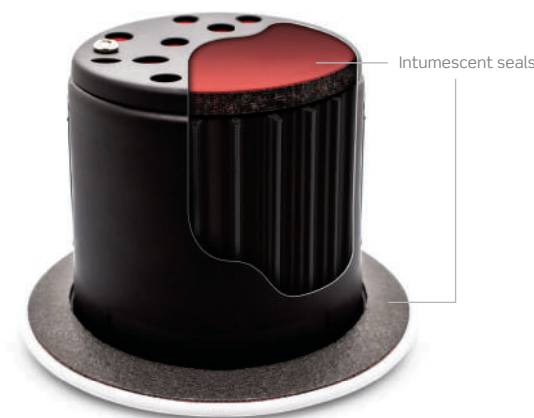


Air vent dissipates heat during normal operation.

Patented intumescent seals

FGLED® downlights use a patented intumescent material which expands in the event of a fire. The intumescent seal combines with the can to seal the gap in the plasterboard ceiling and prevent any flames rising past the fitting.

Unlike many fire-rated LED downlights, FGLED® provides dual protection both around the bezel and around the air vent at the top of the fire proof steel can.



Intumescent material expands and seals in event of fire.

Fully fire-rated

FGLED® products are rigorously fire tested to provide fire safety that you can trust.

Complies with **Part L, B, C and E** of the latest building regulations.

30 Minute Ceiling

600mm joist centres
Single layer
12.5mm plasterboard

60 Minute Ceiling

600mm joist centres
Double layer
15.0mm plasterboard

90 Minute Ceiling

450mm joist centres
Double layer
15.0mm plasterboard

Designed for simple installation



Integrated driver

The FGLED® enclosed steel can design allows the direct mounting of the driver to the fixture.



Fixed die-cast aluminium bezel

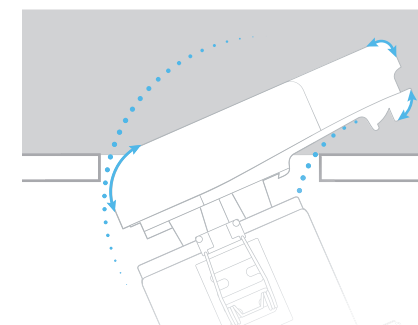
No need for separate bezels, saving valuable time during installation.



Adjustable steel clips

Pre-connected high strength steel clips designed to accommodate different thickness of ceilings.

Easy ceiling entry

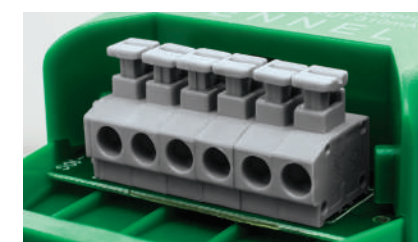


Rounded driver housing

Round edges provide easy entry through the ceiling cut out.



Ultra fast push fit termination*



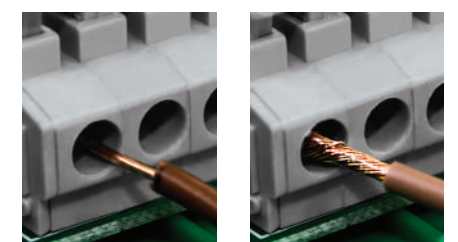
Wider access for wiring

Clear access is provided to the terminal block for easy wiring.



Large terminal buttons

FGLED® provides larger terminal buttons and wire entry points.



Solid and stranded cable

FGLED® accommodates both solid and stranded cable.

Cutting edge LED technology

Up to 88% energy saving against halogen



FGLED10®
Chip-on-board configuration



FGLED6®
Six LED configuration



FGLED3®
Three LED configuration

Crystal clear engineered lenses

FGLED® products are designed with the highest LED specification that focusses through specially developed composite lenses. This helps to reduce glare and creates the crystal clear sparkling light that has become synonymous with the FGLED® brand.

The face of FGLED® lenses use a honeycomb structure to diffuse the light and ensure smooth and even light distribution.

Designed as a family

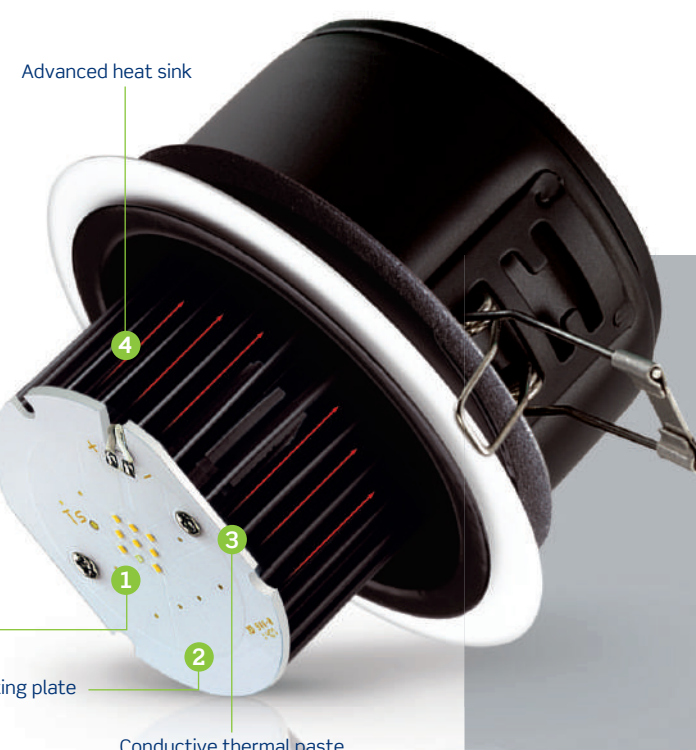
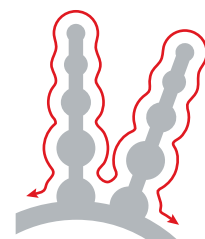
All FGLED® products have common design features to provide a consistent style throughout applications. Products are available with matching colour temperatures and finishes.

Intelligent thermal management

The reliability of FGLED® owes a great deal to its ability to efficiently dissipate heat away from the LED chips.

Efficient heat transfer

- 1 The LED chips generate heat which needs to be quickly dissipated.
- 2 Metal mounting plate transmits heat away from the LED.
- 3 Conductive thermal paste ensures total transfer of heat from the LED mounting board to the advanced heat sink.
- 4 Contoured heat sink fins provide a larger surface area to dissipate heat.



LED chips

Metal mounting plate

Conductive thermal paste

Advanced heat sink

jcc.co.uk



No need for separate accessories

Unique fixed driver design, allows you to lay insulation directly over the back of the fitting.

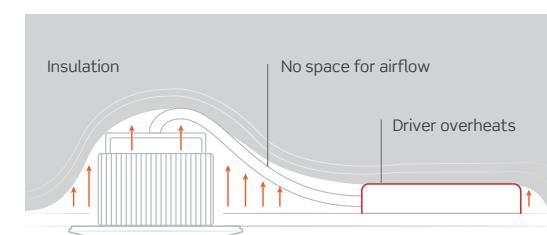
FGLED's unique design allows for the driver to be securely fixed on top of the enclosed steel can that surrounds the heat sink. The driver is positioned to give clear space between the vent above the heat sink and the base of the driver. Heat is dissipated effectively whilst shielding the opening from dust.

The fixed driver ensures that when the fitting is placed into a ceiling which contains insulation a clear space is created around the fitting*. This controlled environment allows air to flow freely, maintaining the correct operating temperature.

* Ceiling insulation can be laid over the top of the fitting but it is important that it is not packed around.

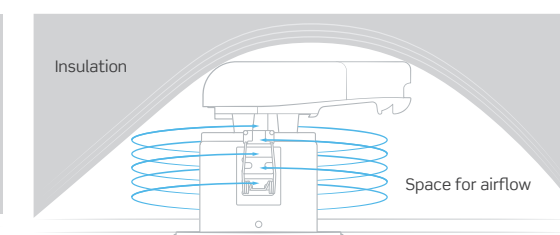
Can lay insulation directly over the fitting

Competitor with separate driver



Fire-rated downlights with separate drivers do not create adequate space for airflow and risk reliability due to overheating.

FGLED® fitting



The FGLED® larger air pocket guarantees that the temperature of the driver remains at the correct operating level.

- ✓ No need to cut holes in mineral wool insulation
- ✓ No need for firehoods or fire cages
- ✓ No need for insulation accessories



The high output fire-rated LED downlight

Achieve the same light level using 50% less fittings

- Fewer fittings reduces installation costs
- Provides cleaner, less cluttered ceilings
- Ideal for new builds and renovations



850 lumens
Cool white (4000K)

750 lumens
Warm white (3000K)



10W LED
12.4W total wattage



69 LpcW
Lumens per circuit watt



IP65
For bathrooms



60°
Beam angle

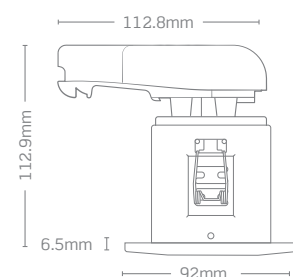


Dimmable
As standard



Emergency
Version available

JC94501CH



Cutout sizes

Ø71-73mm – 12.5mm thick
30 minute ceiling types

Ø80mm – 30mm thick
60-90 minute ceiling types

Colour temperature	Lumens	Total wattage	LpcW	IP rating	Beam angle
Cool white	850	12.4W	69	IP65	60°
Warm white	750	12.4W	60	IP65	60°

FGLED10® options

JC94501CH



JC94501BN



JC94501WH



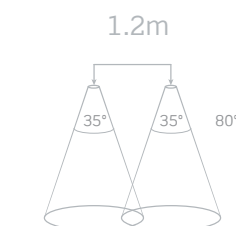
Fills the room with light.
Not lights.

Genius.

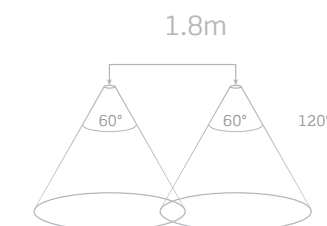
Sometimes it can be the simplest innovations that provide the greatest benefits. FGLED10® delivers 850 lumens spread across a wide 60° beam angle.

This means that you can achieve the same light level as 50W GU10 halogen with 50% fewer fittings. **Simple.**

Average 50W GU10
halogen spacing



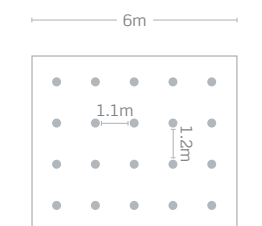
Average FGLED10®
spacing



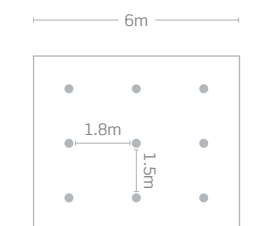
Cleaner, less cluttered ceilings

Why use more fittings than needed? FGLED10® resolves the issue of unnecessary downlights and provides clean, contemporary ceilings.

50W GU10 halogen
20 fittings



FGLED10®
9 fittings



See next page

Reduced installation time and costs

Fewer fittings means reduced installation time coupled with lower material costs. FGLED10® incorporates our latest driver design to ensure ultra fast and efficient wiring.



20 fittings

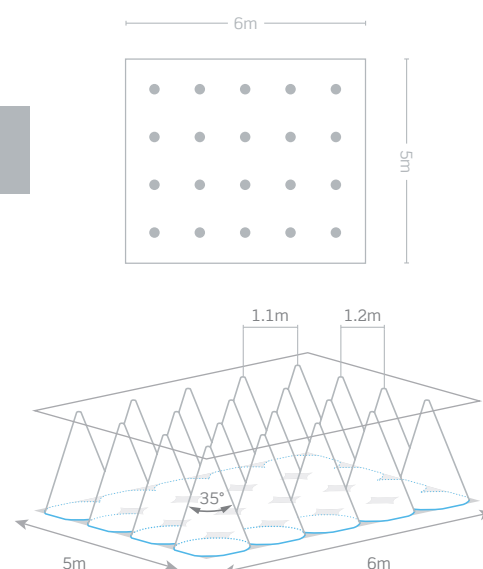
50W GU10 halogen

Energy cost £273.75pa Lamp cost £36.50pa = Total cost **£310.25pa**

Total wattage 1000watts CO₂ emission 813kgCO₂e

Lamp replacements

During the life of FGLED10® you would typically have to replace each halogen lamp more than 30 times. This is based on an average halogen lamp life of 2000 hours.



9 fittings

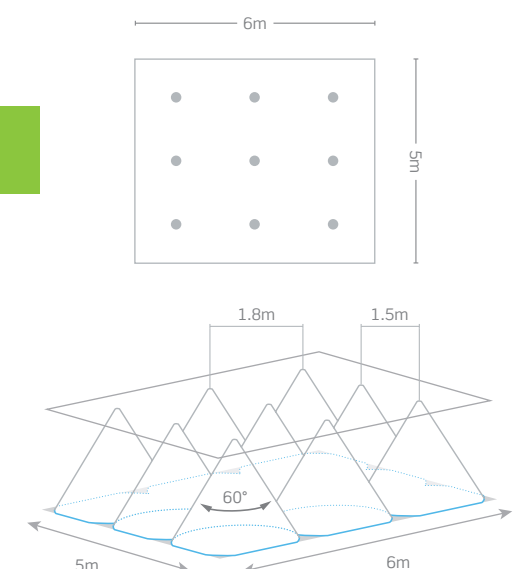
FGLED10®

Energy cost £30.55pa Lamp cost N/A = Total cost **£30.55pa**

Total wattage 112watts CO₂ emission 91kgCO₂e = Total energy saving **89%**

Cost saving **£279.70pa** CO₂ reduction **722kgCO₂e**

6m x 5m living room using FGLED10®



220 Lux* (average)

*Measured at 1.65m from fitting. Based on a standard 2.4m ceiling.



The **market leading** fire-rated LED downlight

Ideal retrofit halogen replacement

- 88% energy saving against 50W halogen
- Six LED array provides clear crisp light
- Designed for standard ceiling heights

500 lumens
Cool white (4000K)

450 lumens
Warm white (3000K)

6W LED
7.2W total wattage

70 LpcW
Lumens per circuit watt

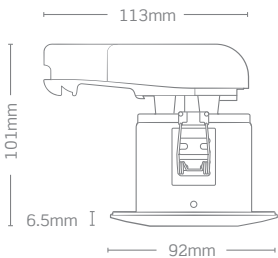
IP65
For bathrooms

38°
Beam angle

Dimmable
Option

Emergency
Version available

JC94475CH



Cutout sizes
Ø71-73mm – 12.5mm thick
30 minute ceiling types

Ø76mm-80mm – 30mm thick
60-90 minute ceiling types

Colour temperature	Lumens	Total wattage	LpcW	IP rating	Beam angle
Cool white	500	7.2W	70	IP65	38°
Warm white	450	7.2W	63	IP65	38°

FGLED6® options

JC94472CH



JC94475BN



JC94475WH



JC94572CH



JC94572BN



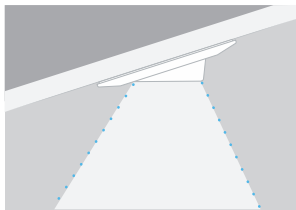
JC94572WH



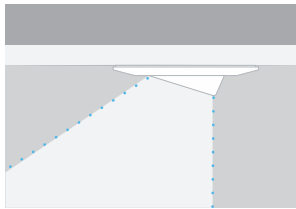
All the features of FGLED6® with **unique tilt and rotate**

Ideal for sloped ceilings and directing light

- 20° tiltable and 360° rotatable lens
- Dimmable as standard
- Outperforms 50W GU10 halogen
- Brushed nickel, white and chrome bezel options available



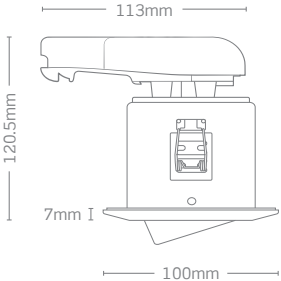
Use on sloped ceilings to provide vertical downlight.



Use on horizontal ceilings to direct light and wall wash.

IP IP20

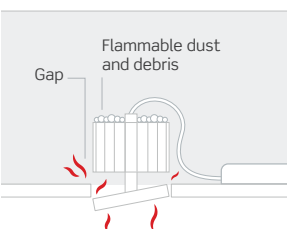
JC94481CH



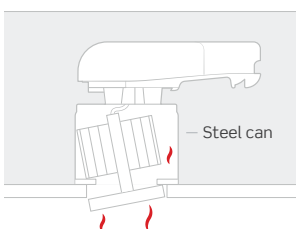
Cutout sizes
Ø71-73mm – 12.5mm thick
30 minute ceiling types

Ø80mm – 30mm thick
60-90 minute ceiling types

✗ Competitor product without an enclosed can



✓ FGLED6® Tilt with an enclosed steel can



Enclosed steel can, essential for fire protection

Tilting the lens in a standard LED fitting can create a gap that, in the event of a fire, will allow flames to penetrate into the ceiling void.



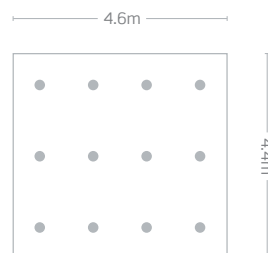
4.4m x 4.6m kitchen using FGLED6®

FGLED6® provides 88% energy saving against halogen

50W GU10 halogen / 12 fittings

Energy cost £164.25pa Lamp cost £21.90pa = Total cost **£186.15pa**

Total wattage 600watts CO₂ emission 488kgCO₂e



Lamp replacements

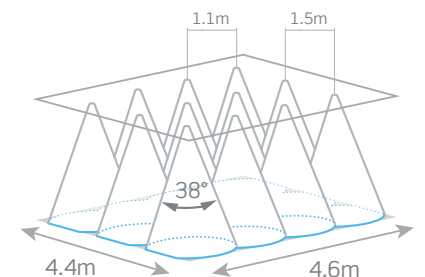
During the life of FGLED6® you would typically have to replace each halogen lamp more than 30 times. This is based on an average halogen lamp life of 2000 hours.

FGLED6® / 12 fittings

Energy cost **£23.65pa** Lamp cost **N/A** = Total cost **£23.65pa**

Total wattage **86.4watts** CO₂ emission **70kgCO₂e** = Total energy saving **88%**

Cost saving **£162.50pa** CO₂ reduction **418kgCO₂e**



199 Lux* (average)

*Measured at 1.65m from fitting. Based on a standard 2.4m ceiling.

FGLED3[®]

The **cost effective** fire-rated LED downlight


Ultra low energy usage


- **NEW** increased light output
- **NEW** dimmable as standard
- **NEW** 90mm depth, ideal for shallow ceiling voids
- **NEW** press fit termination
- Up to 88% saving against halogen


NEW
improved

 **380 lumens**
Cool white (4000K)

 **3W LED**
4.8W total wattage


 **79 LpcW**
Lumens per circuit watt

 **IP65**
For bathrooms


 **38°**
Beam angle

 **JC94302CH**


FGLED3[®] options

 **JC94301CH**




 **JC94302BN**




 **JC94302WH**




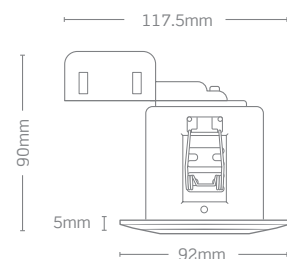
 **JC94311CH**



 **JC94312BN**



 **JC94312WH**



Cutout sizes
Ø72-74mm - 12.5mm thick
30 minute ceiling types

Ø79-81mm - 30mm thick
60-90 minute ceiling types

Colour temperature	Lumens	Total wattage	LpcW	IP rating	Beam angle
Cool white	380	4.8W	79	IP65	38°
Warm white	320	4.8W	66	IP65	38°

Reliability & trust

Designed, developed and tested as a single integrated unit

FGLED[®] products are an integrated lighting solution. This means that the LED has been specifically designed to operate within the fixture. Replacement LED lamps are not designed to operate within enclosed steel cans. This can result in excessive heat build up which will reduce the life expectancy and reliability of the lamp.

❌ Replacement LED lamps

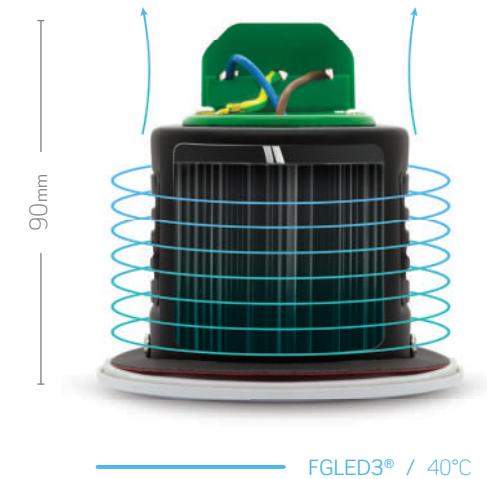
Compromise reliability and looks

- Typical 2 year warranty
- Not designed to operate within a can
- Heat build up reduces LED life
- Average lamp life of just 15,000 hours

✅ FGLED3[®]

Guaranteed quality

- 10 year warranty for entire fitting
- Guaranteed performance & fire safety
- Unique design ensures adequate airflow
- Outstanding 50,000 hour lifetime

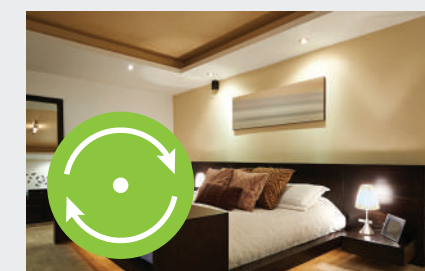


New upgraded features



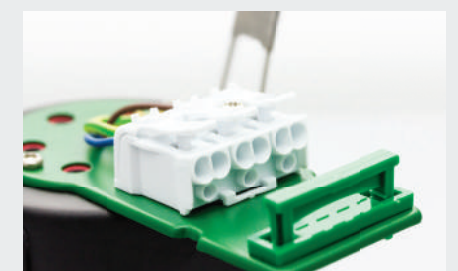
✅ Increased lumens

FGLED3[®] now delivers up to 380 lumens, whilst maintaining it's outstanding 88% energy saving.



✅ Dimmable as standard

FGLED3[®] now comes dimmable as standard. An approved dimmer list can be found at jcc.co.uk.



✅ Fast press fit terminal

The new loop-in/loop-out press fit terminal dramatically increases the speed of installation.

FGLED® ANTI-GLARE

The quality of FGLED® with discreet light source


Creates a strong, clean beam of light

- Recessed LED module
- Ideal for corridors, bars, restaurants and retail
- Black baffle to reduce glare

 **272 lumens**
Warm white (3000K)

 **6W LED**
7.2W total wattage

 **IP65**
For bathrooms


 **25°**
Beam angle

 **Dimmable**
As standard


 **Emergency**
Version available

 **JC94507CH**


FGLED® Anti-glare options

 **JC94507CH**




 **JC94507BN**




 **JC94507WH**




 **JC94515CH**



 **JC94515BN**



 **JC94515WH**



 **JC94180BN**



 **JC94180WH**



 **IP65**
For bathrooms

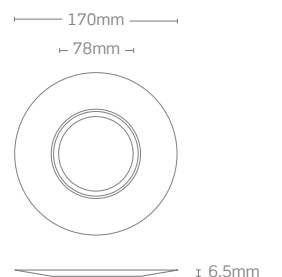
ACCESSORIES

Converter plate

Allows the retrofit of a standard FGLED® units where larger downlights were previously installed

- Part B compliant (fire rated)
- Suitable for all ceiling types for cut outs 80-130mm in diameter
- Chrome, brushed nickel and white finish to match bezels
- FGLED6® Tilt version available

 **JC94180CH**



Concealer ring

Subtle retrofit option for standard FGLED® units where the ceiling cut out may have suffered cosmetic damage (Note: Does not maintain fire rated ceiling)

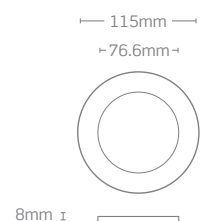
- For use with ceiling cut outs 80-110mm in diameter
- White finish to match average ceiling colour
- Ideal for installing FGLED® into suspended ceilings
- FGLED6® Tilt version available

 **JC94183**



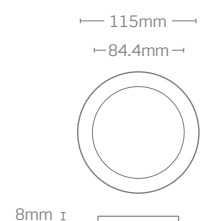
FGLED3/6/10®

 **JC94183**



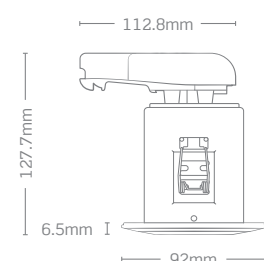
FGLED6® Tilt

 **JC94185**




Cutout sizes
JC94183 – Ø78mm
JC94185 – Ø86mm

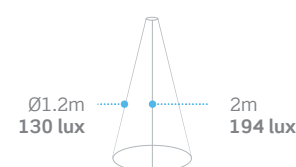
 **JC94507 / JC94515**



Cutout sizes
Ø72-74mm - 12.5mm thick
30 minute ceiling types

Ø79-81mm - 30mm thick
60-90 minute ceiling types

 **25°**
Beam angle



Colour temperature	Lumens	Total wattage	LpcW	IP rating	Beam angle
Warm white	272	7.2W max	38	IP65	25°

FGLED10®

Code	Description	Dimmable	Bezel	Colour temp.	LED's	Lumens	Beam
JC94501	FGLED10®	Yes	Round	Cool white	10W	850	60°
JC94503	FGLED10®	Yes	Round	Warm white	10W	750	60°
JC94502	FGLED10® emergency	Yes	Round	Cool white	10W	850	60°
JC94504	FGLED10® emergency	Yes	Round	Warm white	10W	750	60°

FGLED6®

Code	Description	Dimmable	Bezel	Colour temp.	LED's	Lumens	Beam
JC94472	FGLED6®	Yes	Round	Warm white	6W	450	38°
JC94473	FGLED6®	Yes	Round	Cool white	6W	500	38°
JC94474	FGLED6®	No	Round	Warm white	6W	450	38°
JC94475	FGLED6®	No	Round	Cool white	6W	500	38°
JC94476	FGLED6® emergency	Yes	Round	Warm white	6W	450	38°
JC94477	FGLED6® emergency	Yes	Round	Cool white	6W	500	38°
JC94478	FGLED6® emergency	No	Round	Warm white	6W	450	38°
JC94479	FGLED6® emergency	No	Round	Cool white	6W	500	38°
JC94572	FGLED6®	Yes	Square	Warm white	6W	450	38°
JC94573	FGLED6®	Yes	Square	Cool white	6W	500	38°
JC94574	FGLED6®	No	Square	Warm white	6W	450	38°
JC94575	FGLED6®	No	Square	Cool white	6W	500	38°
JC94576	FGLED6® emergency	Yes	Square	Warm white	6W	450	38°
JC94577	FGLED6® emergency	Yes	Square	Cool white	6W	500	38°
JC94578	FGLED6® emergency	No	Square	Warm white	6W	450	38°
JC94579	FGLED6® emergency	No	Square	Cool white	6W	500	38°

FGLED6® TILT

Code	Description	Dimmable	Bezel	Colour temp.	LED's	Lumens	Beam
JC94481	FGLED6® Tilt	Yes	Round	Warm white	6W	450	38°
JC94482	FGLED6® Tilt	Yes	Round	Cool white	6W	500	38°

FGLED3®

Code	Description	Dimmable	Bezel	Colour temp.	LED's	Lumens	Beam
JC94301	FGLED3®	Yes	Round	Warm white	3W	320	38°
JC94302	FGLED3®	Yes	Round	Cool white	3W	380	38°
JC94311	FGLED3®	Yes	Square	Warm white	3W	320	38°
JC94312	FGLED3®	Yes	Square	Cool white	3W	380	38°

FGLED® ANTI-GLARE

Code	Description	Dimmable	Bezel	Colour temp.	LED's	Lumens	Beam
JC94507	FGLED® Anti-glare	Yes	Round	Warm white	6W	272	25°
JC94511	FGLED® Anti-glare emergency	No	Round	Warm white	6W	272	25°
JC94515	FGLED® Anti-glare	Yes	Square	Warm white	6W	272	25°
JC94519	FGLED® Anti-glare emergency	No	Square	Warm white	6W	272	25°

ACCESSORIES

Code	Description	Code	Description
JC94180	FGLED6® converter plate	JC94183	FGLED10/6/3® concealer ring white (5 pack)
JC94184	FGLED6® Tilt converter plate	JC94185	FGLED6® Tilt concealer ring white (5 pack)

LED

Warm white 3000K CRI: Ra (80)

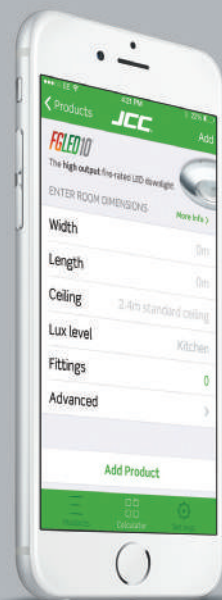
Cool white 4000K CRI: Ra (80)

Construction

Body – pressed steel (converter plate cast aluminium)

Bezel – die-cast aluminium

Max. void working temperature 30°C



Calculate your cost savings

Download JCC's free cost saving app to see how much money you could save by using any FGLED® fitting.

Simply enter the number of fittings that you require and see your precise energy reduction and cost savings.

Available on the
App Store

GET IT ON
Google play

JCC's cost saving app is available for **free** on both iOS & Android devices.

JCC Lighting Products Ltd

Innovation Centre, Beeding Close,
Southern Cross Trading Estate,
Bognor Regis, West Sussex
PO22 9TS

© JCC Lighting Products Ltd 2015
LIT0117 Version 4