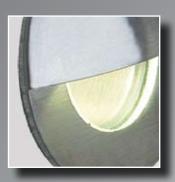
Fibre Optic Lighting









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This is the seventh fibre optic catalogue that we have produced and it is our most comprehensive yet, with decorative products featuring alongside the latest developments from the amazing EFO system. We have been selling high output fibre optic systems since 1988, and have completed many thousands of projects here in the UK and around the world. This year our parent company, Fiberstars was renamed Energy Focus in recognition of the direction that the

EFO range has taken us. We have invested heavily in the development of the products you see in this catalogue, with particular emphasis on thermal performance and lumen output of the luminaires. All our products are designed to comply with the requirements of EN60598-1:2004.

When you specify a Crescent Lighting product you can be sure that you are working with a company that has sufficient resources to handle any size and complexity of project. Crescent is an ISO 9001 (2000) company.

We also manufacture and distribute a wide range of other lighting products and we show a selection of those below. Please ask for a full Crescent binder if any of these products are of interest, or contact our sales or project design teams for more immediate assistance.

Crescent LED Small and neat LED fittings interior or IP rated

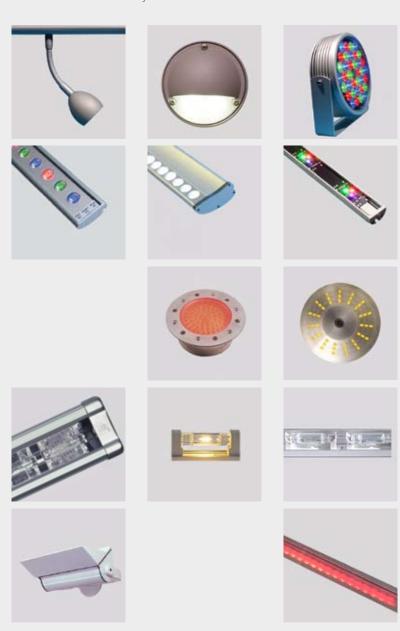
Crescent Linear LED Linear colourchange LED system. Interior or IP rated potted designs

Ambiance Lumiere Exclusive range of LED luminaires for interior or exterior applications

Agabekov 'B' Light Large range of linear systems for concealed lighting in tight spaces. Xenon, Tungsten, Tungsten Halogen or LED lightsources. IP rated versions available.

Elliptipar and Specials Benchmark asymmetric luminaires to light wall, floor or ceiling. Specials and variations of any of our products.

T2 Systems Ultra slim undershelf or cabinet fittings with or without remote ballast



Due to continuous product development and improvements Crescent Lighting reserves the right to change designs and specifications. All sales are subject to Crescent Lighting General Conditions of Sale.

Energy Saving

EFO solutions can reduce energy consumption over conventional lighting.



97% of the EFO lamp is reused, the lamp chemicals and glass are recycled.



Filters combined with the fibre eliminate virtually all infra red and ultra violet radiation.

Colour and Decoration

Fibre optic lighting can bring animated colour and sparkle to a project and is often used for that reason alone.

Size and Adaptability

Fibre optic techniques can be used where standard lighting solutions would not be possible or appropriate.

Safety

The lightprojector is the only part of the system requiring power. Fibre optic cables are inherently safe.

Maintenance and Access

One accessible projector can power a number of remotely mounted features or spotlights.























There is a lot of confusion about the various advantages and benefits of fibre optic lighting when compared to LED solutions. Crescent have worked with fibre optics for twenty years and LEDs for nearly ten, so we are in the perfect position to advise you on the best solution for your project. We have no axe to grind. We believe each technique has its place and the decision which to use will nearly always depend on the particular requirements of the project.

One difference is clear at the present time - for the highest light output from a given size, fibre optic comes out on top.

We are experienced in both technologies - we can help find the right solution for your project



Fibre Optic 50mm diameter fitting

- Typical maximum lumens 500 for the EFO System
- Output variable at design stage
- Dimmable
- Colour change available with simple or sophisticated DMX control, maximum 8 colours
- No voltage in the fitting
- No heat or UV in the beam
- No heat in the fitting
- Small fitting
- Remote projector linked by fibre optic cable - size and route has to be taken into consideration
- Average lamp life 5000-12000 hours (for the highest output)
- Requires maintenance
- Simple lamp changes
- Output at 50,000 hours depends on maintenance and lamp age could be 100% of initial
- Achievable project lumens per watt more than 50



LED 50mm diameter fitting

- Typical maximum lumens 150 for MR16 replacement
- Limited output options at design stage
- Dimmable
- Colour change available with simple or sophisticated DMX control giving millions of colours
- Low voltage in the fitting
- No heat or UV in the beam
- Fitting will get warm
- Fitting size dictated by LED footprint and thermal management
- Remote driver and wiring, size not normally an issue
- Life 50,000+ hours
 If LED fails replacement necessary
- Requires no maintenance
- Complete fitting change
- Output at 50,000 hours 70% of initial
- Achievable project lumens per watt 30

Fibre optic lighting can appear complex to those that have not specified, used or installed it before. We have nearly twenty years of experience with all aspects of this technology so we can help at all stages of a project and provide a complete turnkey service to give customers confidence and a fantastic lighting solution.

Advice at the earliest stage of a project can confirm the feasibility of using fibre optic lighting or we can recommend another technique, if appropriate.

fittings to assisting in a full blown mock up to prove that a particular application will work. This image shows a glass edge lighting demonstration with a number of projectors and lightbars set up in London.



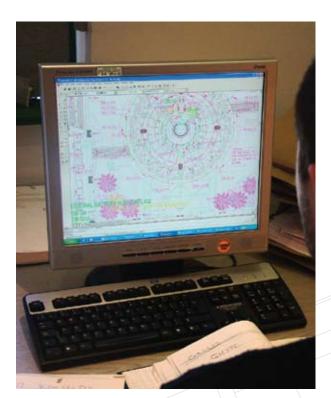




We invest a lot of time and effort in demonstrating fibre optic equipment, there is nothing like seeing it in action to prove the effectiveness of the technique. This could be anything from a simple meeting in a client's office with projector, cable and

Detail design and quotations are handled by our project design department. They are always on hand to give general advice and also coordinate the more complex projects with architects, designers, clients and our installers.

We are able to handle Autocad drawings to take off product quantities, make alterations if necessary, and provide other project backup.

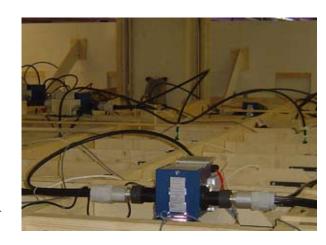


Installation is a straight forward process and we can supply everything you need. However, our team of experienced contractors can handle the project from start to finish if required.





Typical above ceiling layout of CREAD068 lightprojectors



Our full installation service will ensure that however difficult, the equipment will be fitted and integrated with other lighting to the highest standards.

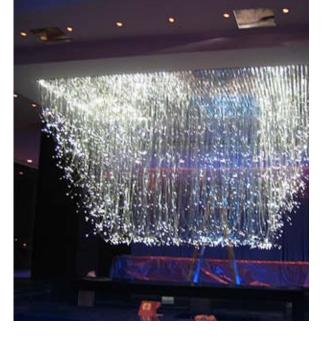




Once we have installed the equipment, we will commission it to check all functions and do any special effect or synchronisation. tuning or programming.

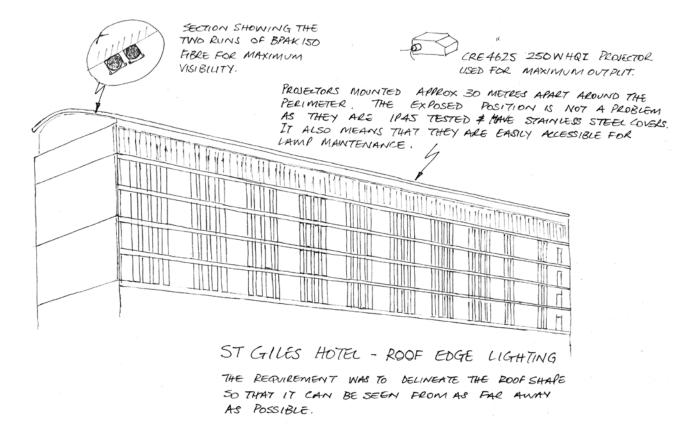


This final process will ensure you, the client or designer, get the superb lighting effect you want.



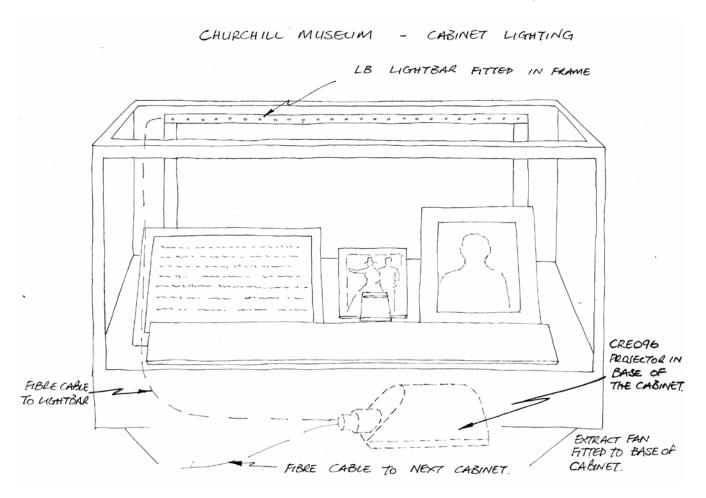


Thanks to St Giles Hotel, London.





Churchill Museum, London. Thanks to DHA.



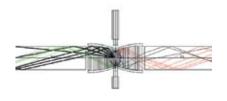






- The most efficient fibre optic system in the world
- New technology throughout the system
- Independently tested at more than 50 lumens/watt
- Up to eight downlights from a 70W HQI lamp
- MR16 lamp replacement





The System - New Technology

CREAD068 Projector

At its heart the 70W CREAD projector has the revolutionary double CPC collector. This non imaging optical system gives a very even light distribution and has coated quartz rods for UV and IR control. This transmits a higher percentage of light into the fibre than ever before – up to eight optical ports!







Opticore™ Fibre

Stranded Fibre

OptiCore™ Fibre

Large core fibre overcomes the 'packing fraction' problem that comes with stranded fibres and has a better numerical aperture which means 50% more light for the same diameter!

OptiCore™ is the first large core fibre optic cable in the world to be produced by an extrusion process, which reduces production costs and gives more options for maximum cable lengths.

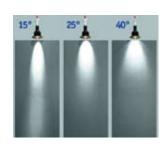




FiberJacks™ Connection

The quick, easy and precise FiberJack™ plug in port connection method is a step forward in fibre optic systems – individual cables can be installed or replaced at will, and no special skill is necessary at the installation stage.





Multi Beam Focusing

Most EFO fittings have a bayonet type connector, to allow quick assembly and three beam angles to be quickly and precisely selected 15, 25 and 40 degrees. They also use larger lenses than standard fibre optic fittings for better and more efficient control of the light.

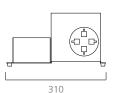


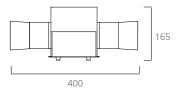




- 70W Projector with twin optical ports
- Fanless, silent operation
- Super efficient large core optical cable
- Quick fit connectors for simple assembly
- Easy and precise beam angle adjustment
- UK Part L compliant (>45Lm/W)
- · Can be used with conventional stranded







Allow at least 400mm in length at each port for fibre bending

CREAD068 Lightprojector

70W AC metal halide Lamp A-Warm white 3500K CRI 75

or B-Daylight 4300K CRI 82

Lamp Life A-14,000 hours average B-10,000 hours average Painted steel enclosure Material Ballast Integral electronic

PMMA or $OptiCore^{TM}$ Fibre Type Op. Temp. -10°C to 35°C Weight 4.5kg

Options White light or fixed colour only -

> NO colour wheel available & therefore no colour synchronisation, DMX or 0-10V

control. Twin port for stranded fibre, 6 or 8 ports for opticore

Acoustics Silent



EFO and Stranded Fibre

EFO is the most efficient fibre optic system in the world when used with large core fibre, but the CREAD068 projector also offers many advantages with conventional stranded fibre. One of the advantages of the CPC optical train is that the focus is very even, which in most cases can remove the necessity for fibre randomisation. It works particularly well with Lightbar too. The unit is also fanless, which makes it silent, a big benefit in some projects.

In fact, if you don't need the raw power of a 150W or 250W HQI projector, and have no particular size constraints, then the CREAD068 is a logical choice.

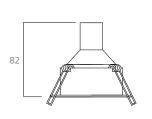


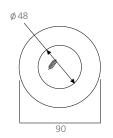
Cat. No.	Туре	Outer Diameter	Max. no. of cables/port
OCF800	7mm large core	9	5
OCF1100	11mm large core	12	4
OCF1200	12mm large core	14	3

Optical Cable

Specify length required. One end of each cable will be fitted with a FiberJack™ connector ready for fitment to the CREAD068 EFO projector. The other end will either be fitted with the multi beam focus connector or prepared for the gallery fitting. Consult Crescent for lengths longer than 10 metres. Note: The minimum bend radius is eight times the outer diameter.







CRE3004 Multibeam Downlight with Spring Fixing

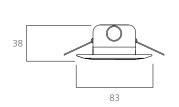
Cut Out Dia. 74

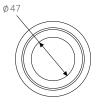
Fibre Type OptiCore™ large core fibre Multi beam focusing with 15°, 25° or 40° beam Fibre connection Finish

White, Black or Gold trim

ring







CRE3005 Small 90° Downlight with Spring Fixing

Cut Out Dia. 65

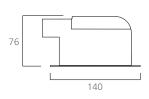
Fibre Type OptiCore™ large core fibre Multi beam connector, Fibre

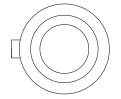
connection fixed focus

Finish White, Black or Gold trim

ring







CRE3003 90° Downlight

Cut Out

OptiCore™ large core fibre Fibre Type Fibre Multi beam connector, fixed

connection focus

Finish White, Black or Gold trim

ring

Specify CRE3003/60 for 60° beam or CRE3003/40 for 40° beam.







CRE3000 Gallery

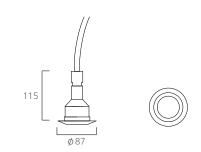
Cut Out Dia. 72

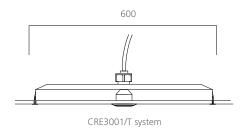
Fibre Type Fibre connection OptiCore™ large core fibre Fibre supplied ready for clamp fixing, variable

focusing and locking

Finish Silver







CRE3001 Multibeam Downlight

Cut Out Dia. 63 OptiCore™ large core fibre Fibre Type Fibre Multi beam focusing with

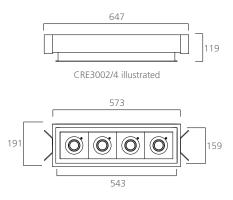
15°, 25° or 40° beam connection Finish White, Black or Gold trim ring

Multibeam Downlight Accessories

CRE3001 can be fitted into either suspended ceiling tile or solid ceiling types. Specify CRE3001/T for a tile ceiling - you will get tie bar brackets to suit a 600 x 600mm and 600 x 1200mm ceiling system.

Specify CRE3001/S for solid ceiling types. For other ceiling types contact the Project Design Department.





CRE3002

Adjustable Modular Downlight

Cut Out Contact Project Design Dept Fibre Type OptiCore™ large core fibre Multi beam focusing with Fibre connection 15°, 25° or 40° beam White or Black Finish

This is a fully adjustable modular fitting that can be specified as a one, two, three or four unit luminaire. Each module is individually adjustable, focusable (with the multi beam connection system) and can be locked into

Specify CRE3002/1 for a single module; CRE3002/2 for a twin module etc







Aufnahamen Uferstadt. Thanks to LBM

- Up to 60% energy saving over conventional accent lighting
- Tested at over 50 lumens/watts
- Exceeds requirements for all situations
- Sharp, clean lighting
- No heat in the light beam
- No ultra violet in the light beam
- No electrical current in the light fittings
- Less maintenance points
- Silent operation

The Crescent EFO system is unique in terms of its efficacy as a fibre optic lighting system, due to the design advances in lamp technology, delivery train and optical cables (see page 12 for more information). It is so efficient in fact that it complies with Part L of the latest edition of the UK Building Regulations.

This will enable the 'small downlight' look to be used to provide a variation in the lighting effect around the edge of large areas, to wall wash, light corridors, lift lobbies, reception areas and meeting rooms.

Background

The UK Building Regulations are concerned with all aspects of building construction - structure, ventilation, drainage etc. Part L deals with the Conservation of Fuel and Power. Part L became law in June 2006.

It concerns the energy efficiency of buildings, so both the lighting and heating fall within the Bill. Conformance is calculated using proprietary software. Normally this is done by the consulting engineer, architect or main contractor because they are the ones most likely to have all the data.

Basically, it affects all new buildings and refurbishments of existing ones (over a certain size), both domestic and commercial.

Meeting the requirements

Domestic: these can comply in one of two ways: Either one energy efficient fitting every 25sq/m of floor space OR 25% or more of the fittings to be energy efficient. Energy efficient means a fitting with a lamp giving > 40 lm/circuit watt.

Commercial: used for offices, storage, industrial, desk based tasks. There is a minimum requirement for luminaire efficacy. This is expressed as lumens per circuit watt, but it is lumens emitted by the fitting. ie, bare lamp lumens x LOR of the fitting divided by total circuit watts. For this category of building the efficacy must be > 45.

EFO has been independently tested by ITL of Colorado at over 50 lumens per watt and therefore exceeds the requirements in both cases.

tel: +44 (0) 1635 878888



- Linear Fibre Optic lighting system
- 1 x 70W lamp for three cabinet doors
- No heat inside the cabinet
- No ultra violet inside the cabinet
- No maintenance inside the cabinet
- No electricity or glass in the cabinet
- More efficient than fluorescent and LEDs
- 12,000 hour lamp life
- Full intensity when cold
- Very low maintenance compared to conventional lighting
- 27 watts per door

EFO ICE is the latest development to the EFO (Efficient Fibre Optic) lighting system, using the improved, super efficient EFO projector and new side emitting fittings to illuminate frozen and refrigerated products.

EFO ICE can make savings in running costs by reducing electrical consumption for refrigeration and lighting, and by simplifying maintenance. Fluorescent lamps and LEDs add heat to a case and increase the compressor load. By applying the benefits of fibre optic lighting, EFO

ICE removes all of the heat before putting the light into the case. This reduces compressor load and saves additional electricity. EFO ICE also directs light onto products more efficiently and does not lose output at low temperatures.

EFO ICE also greatly eases maintenance. One EFO ICE lamp replaces up to six fluorescent lamps. Lamp changes are completed on top of the case in a simple operation needing just a screwdriver. EFO ICE fixtures have no electricity, eliminating

the risk of lamp holder damage during case cleaning. The fixtures contain no glass so there is never a possibility of shattering a lamp inside the case.

Crescent will be happy to work through a calculation with you using your particular energy and maintenance costs to give you an idea of how quickly you can offset the initial purchase price for the system and start saving energy and money.

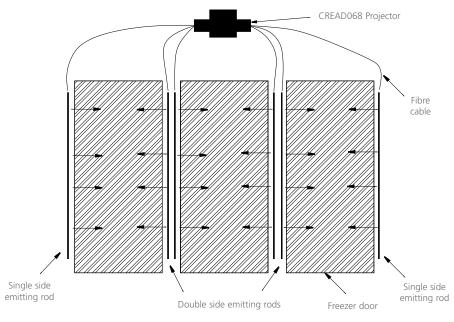




As with most fibre optic equipment, an essential part of assessing the suitability of this singular technique, is to try it out. We have the EFO ICE system in stock and can set up a demonstration to prove its effectiveness in a demonstration area or in a working store. Contact us for more details.



The side emitting rods shown mounted inside a cabinet



Schematic layout of an EFO ICE System

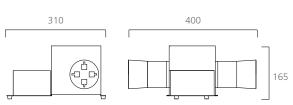




Display case at BAT HQ, London. Thanks to Hulley & Kirkwood Consulting Engineers.

- Wide range for every situation
- Interior and exterior models
- HQI, TH, or LED sources





Allow at least 400mm in length at each port for fibre bending

CREAD068 Lightprojector

Lamp 70W AC metal halide

A-Warm white 3500K CRI 75 or B-Daylight 4300K CRI 82

A-14000 hours average

Lamp Life B-10000 hours average

Material Painted steel enclosure Ballast Integral electronic

PMMA or OptiCore™ Fibre Type Op. Temp. -10°C to 35°C

Weight 4.5kg

White light or fixed colour Options

only - NO colour wheel available & therefore no colour synchronisation DMX or 0-10v control. Twin port for stranded fibre, 6 or 8 ports for

opticore

Acoustics Silent

CREAG068 External IP65 Lightprojector

Lamp 70W AC metal halide

Warm white 3500K CRI 75

or Daylight 4300K CRI 82

6000 hours Lamp Life

Material Aluminium extrusion with

die cast aluminium end caps

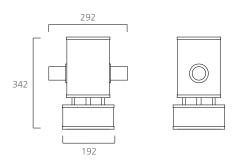
Ballast Integral electronic Features Up to 2 colour wheels Fibre Type PMMA or Opticore™

Weight -10°C to 35°C Op. Temp.

Options White light or fixed colour

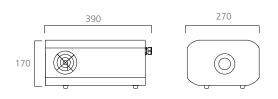
> only - NO colour wheel available & therefore no colour synchronisation DMX or 0-10v control.

Acoustics Silent



Allow at least 300mm in length at each port for fibre bending





Allow at least an extra 300mm length for port and fibre

CRE6255 Lightprojector

250W HQI 4200°K with Lamp dichroic reflector 5000 hours Lamp Life

Material Painted aluminium extrusion

with painted zinc plated steel

Ballast Integral standard with

electronic ignitor Up to 2 colour wheels Features Fibre Type PMMA or 30mm Glass

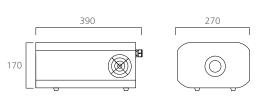
Weight 8.8kg Op. Temp. -10°C to 35°C

Options Colour synchronisation,

DMX or 0-10V control

36 dBA Acoustics





Allow at least an extra 300mm length for port and fibre

CRE6155E Lightprojector

Lamp 150W HQI 4200°K with Energy Focus dichroic reflector

Lamp Life 8000 hours average

Material Painted aluminium extrusion with painted zinc plated steel

Ballast Integral electronic

Up to 2 colour wheel Features Fibre Type PMMA or 30mm Glass

Weight 10kg

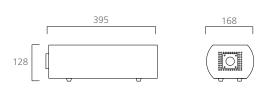
-10°C to 35°C Op. Temp. 3000K lamp Options

Colour synchronisation,

DMX or 0-10V control

Acoustics 31 dBA





Allow at least an extra 300mm length for port and fibre

CRE0150E Lightprojector

150W HQI 4200°K with Lamp

Osram reflector

Lamp Life 6000 hours average Material

Painted aluminium extrusion

with painted zinc plated steel

Ballast Integral electronic Features 1 colour wheel PMMA or 30mm Glass Fibre Type

Weight 10kg

Acoustics

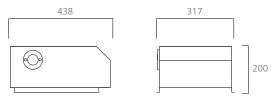
-10°C to 35°C Op. Temp.

Option Colour synchronisation

> A sparkle wheel is an alternative to the colour

wheel 34 dBA





Allow at least an extra 300mm length for port and fibre

CRE4625 External IP45 Lightprojector - Stainless Steel Cover

Lamp 250W HQI 4200°K with dichroic reflector
Lamp Life 5000 hours average
Material 304 stainless steel cover
Ballast Integral standard with electronic ignitor

Features Colour wheel
Fibre Type PMMA or 30mm Glass

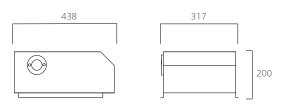
Weight 11kg

Op. Temp. -10°C to 35°C Options Colour synchro

tions Colour synchronisation, DMX or 0-10V control

Acoustics 34 dBA





Allow at least an extra 300mm length for port and fibre

CRE465E External IP45 Lightprojector - Stainless Steel Cover

Lamp 150W HQI 4200°K with Energy Focus dichroic reflector

Lamp Life 8000 hours average
Material 304 stainless steel cover
Ballast Integral electronic
Features Colour wheel
Fibre Type PMMA or 30mm Glass

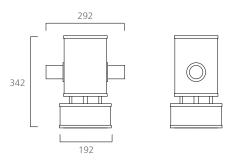
Weight 11kg
Op. Temp. -10°C to 35°C
Options 3000K Lamp.

Colour synchronisation,

DMX or 0-10V control

Acoustics 34 dBA





Allow at least 300mm in length at each port for fibre bending

CREAG068 External IP65 Lightprojector

Lamp 70W AC metal halide

Warm white 3500K CRI 75 or Daylight 4300K CRI 82

Lamp Life 6000 hours

Material Aluminium extrusion with

die cast aluminium end caps

Ballast Integral electronic
Features Up to 2 colour wheels
Fibre Type PMMA or Opticore™

Weight 7kg

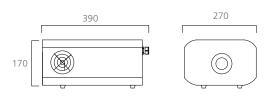
Op. Temp. -10°C to 35°C

Options White light or fixed colour

only - NO colour wheel available & therefore no colour synchronisation DMX or 0-10v control.

Acoustics Silent





Allow at least an extra 300mm length for port and fibre

CRE6220 Lightprojector

Lamp 250W (185W) TH MR16
Lamp Life 600 hours average
Material Painted aluminium extrusion
with painted zinc plated steel

Transformer Integral wire wound Features Colour wheel Fibre Type PMMA or 30mm Glass

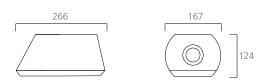
Fibre Type PMMA or 3 Weight 10kg

Op. Temp. -10°C to 35°C Options Colour synchronisa

Colour synchronisation, standard dimming, DMX or 0-10V control

Acoustics 31 dBA





Allow at least an extra 300mm length for port and fibre

CRE096ELN Lightprojector

Lamp Life 2000 hours average
Material Painted aluminium ex

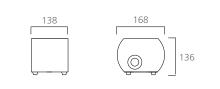
Painted aluminium extrusion with painted zinc plated steel

Transformer Integral electronic
Features Up to 2 Colour wheels
Fibre Type PMMA or 30mm Glass

Weight 2.6kg
Op. Temp. -10°C to 35°C
Options Synchronisation,
standard dimming

Acoustics 21 dBA





Allow at least an extra 300mm length for port and fibre

CRE0100 Lightprojector

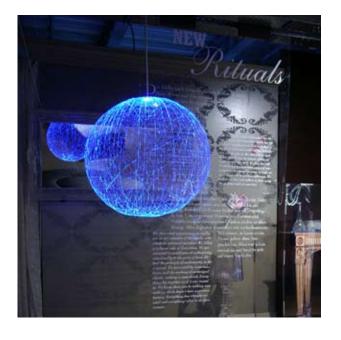
Lamp 100W 64637
Lamp Life 2000 hours average
Material Painted aluminium extrusion
with painted zinc plated stee

with painted zinc plated steel
Transformer Integral electronic

Features Up to 2 Colour wheels
Fibre Type PMMA or 30mm Glass
Weight 2.6kg

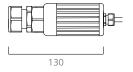
Weight 2.6kg
Op. Temp. -10°C to 35°C
Options Synchronisation,

standard dimming Acoustics 21 dBA



- Small LED projectors
- Great for decorative features
- White light or RGB







CRE0003 LED Lightprojector IP67

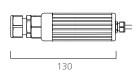
LED 1W Luxeon® Material Painted extrusion aluminium alloy

Power Supply Integral 12V driver
Transformer 12V transformer required to

power on board driver

Cable Length 2 metres







CRE0007 LED RGB Lightprojector IP67

LED RGB LIGHTPIOJECTOI 1F07

Painted extrusion aluminium alloy

Power Supply Integral 12V driver

Transformer 12V transformer required to

power on board driver

Cable Length 2 metres

Material

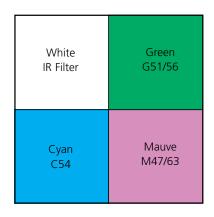
Colours White, Green, Magenta, Cyan

Simple colour control

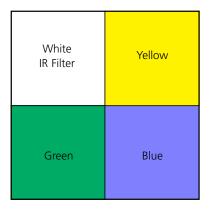
Colour Wheel Options

Colour Wheels are available for all projectors and are made from dichroic glass filters which will not degrade throughout life.

Standard Colour Wheel For All Lightprojectors Except CRE0150



Standard Colour Wheel For CRE0150 (no options)



Special colours can be ordered using combinations of the following dichroic glass colour filters An eight colour wheel is available, choose from colours below. Note: Reduced port capacity.



^{*} Intensity is reduced on lateral fibre.

The above colours are a visual representation only.

Colour Control and Effects

Colour Wheel Speed

The standard fitment is 2.5rpm. A 1rpm motor is available for CRE6155 and some other models. Consult the Project Design Department for details.

Colour Synchronisation

This ensures that on multi-projector installations all colour wheels rotate together ie. all projectors have the same colour at the same time or stepped deliberately out of synchronisation.

There are two main applications:

If lateral fibre (BPAK) is being used with a projector at each end (not in a loop), the colour should be synchronised so that the whole length of the fibre cable looks the same.



The other application is with end lit cable (FSPTe) where all the tails need to be the same colour.

Colour synchronisation is available on all projectors which have a colour wheel option. Specify '/synchro' as a suffix to the projector catalogue no, ie, CRE6155/synchro.

Colour Control

Both Analogue (0-10V) and DMX512 (channels 0-255) control systems can be installed. These systems allow preset or variable colour sequences to be programmed from a suitable lighting controller on site. Colour synchronisation is achieved as part of the control process.

Dimming - Neutral Density Wheel

A four step neutral density wheel which can be fitted as an addition (or replacement) to the colour wheel. This offers 100, 75, 50 and 25% light output as the wheel rotates. The wheel can be stopped, synchronised and controlled in the same way as a colour wheel.

Dimming - Mechanical Wheel

Used in conjunction with an analogue or DMX control system, this wheel can provide 0-100% light output. It can be used together with a colour wheel in the CRE6155 and some other projectors. Consult the Project Design Department for details.

Sparkle Effect

Sparkle Wheel - Fitting either the 2.5rpm or 1rpm motor, this gives a gently flickering effect and is usually used for star ceilings and other decorative applications. This can be combined with colour on the same, or a second motor (not available with CREAD068 or CRE0150).



Ventilation

Most projectors have fan assisted thermal control, which relies on an open mounting location. For cases where this is not possible, specify CRE2318 Ventilation Kit. Comprising a fan, two louvred finger guards, metal brackets, connecting cable, earth cable, fixing screw kit, cutter template and full fitting instructions. This allows the projector to be mounted in a small or restricted location. If in doubt, contact the Project Design Department.



Underground Lightprojectors

If external projectors need to be mounted underground, pit specifications are available from the Project Design Department.

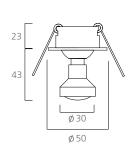




Marriott Hotel, Mumbai. Thanks to Versalite Lighting.

- Variations to suit most applications
- Different lens options
- Some models have adjustable light beams
- Easy fixing
- Decorative trims to some items







CRE1001 Lensed Fully Adjustable

Rotation 360°

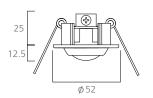
40° from vertical 23mm excluding fibre Tilt Angle Recess

Flange Dia. Cut Out 40mm

Recommended FSPTe 12-50, Fibre Type

8mm ferrule required Black/White/Gold/Chrome Finish Output Data Refer to page 64 - Type 1







CRE1002 Lensed Eyeball

Rotation

Tilt Angle 20° from vertical

Recess 25mm excluding fibre Flange

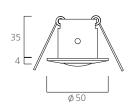
52mm Dia. Cut Out

Recommended FSPTe 12-75, Fibre Type

8 or 10mm ferrule required

Finish Black/White/Gold/Chrome Output Data Refer to page 64 - Type 2







CRE2501 Fixed Lens

Recess 35mm excluding fibre

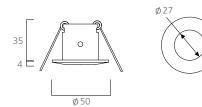
Flange Dia. 50mm 40mm Cut Out

Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required White/Black/Silver/Gold

Finish Output Data Refer to page 64 - Type 1





CRE2502

Clear or Frosted Glass

Recess 35mm excluding fibre Flange

Dia. 50mm Cut Out 40mm

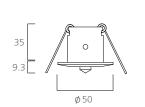
Fibre Type Recommended FSPTe12-75,

8 or 10mm ferrule required
White/Black/Silver/Gold
Output Data Refer to page 64 - Type 3

(clear glass only)

Colour or effect filters available







CRE2503

Sparkle Point

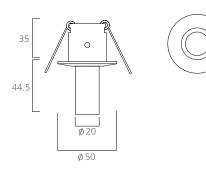
Recess 35mm excluding fibre Flange

Flange Dia. 50mm Cut Out 40mm

Fibre Type Recommended FSPTe 12-50,

8mm ferrule required Finish White/Black/Silver/Gold Output Data n/a - decorative







Drop Acrylic Rod

Recess 35mm excl. fibre

Drop Below

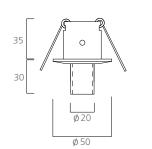
Ceiling 45mm Flange Dia. 50mm Cut Out 40mm

Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required

Finish White/Black/Silver/Gold
Output Data n/a - decorative







CRE2506

Drop Acrylic Tube

Recess 35mm excl. fibre

Drop Below

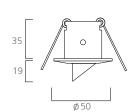
Ceiling 30mm Flange Dia. 50mm Cut Out 40mm

Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required

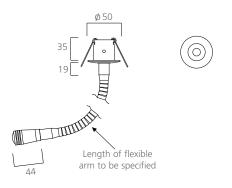
Finish White/Black/Silver/Gold
Output Data n/a - decorative



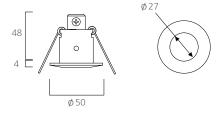














35mm excl. fibre

Drop Below

CRE2507

Ceiling 20mm Flange Dia. 50mm 40mm Cut Out

Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required White/Black/Silver/Gold

Finish Output Data n/a - decorative

Mount within 300mm of the

wall (2.5m high typical)

CRE2508

Flex Arm - available with clear glass or lens, other configurations available

35mm excl. fibre Recess

Drop Below

Ceiling Tube Dia. 160mm vertical* 8.5mm* Flange Dia. 50mm Cut Out 40mm

Recommended FSPTe 25*, Fibre Type

special ferrule required White/Black/Silver/Gold Output Data Refer to page 64 - Type 2 or 3

*other sizes available, contact the Project

Design Dept

CRE2510 Recessed Lens

Recess 35mm excl. fibre 50mm

Flange Dia. Cut Out 40mm

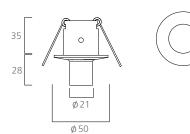
Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required

White/Black/Silver/Gold Finish

Output Data n/a





CRE2512 Snoot

Recess 35mm excl. fibre Drop Below

Ceiling

30mm Flange Dia. 50mm Cut Out 40mm

Fibre Type Recommended FSPTe 12-75,

8 or 10mm ferrule required

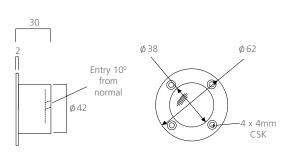
White/Black/Silver/Gold Finish Output Data Refer to page 64 - Type 2



Thanks to LBM

- Unique luminaire designs
- Discreet mounting possibilities
- MR16 replacement
- Resilient construction





CRE2228 Stairlight

Rotation Tilt Angle 0°

40mm excluding fibre

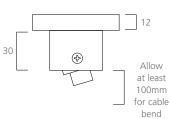
Recess 40mm Flange Dia. 62mm Cut Out Dia. 44mm

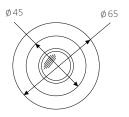
Fibre Type Recommended FSPTe 12-50,

8mm ferrule required Satin Silver/White/Black

Finish Output Data n/a







CRE2233

Adjustable Floor Mounted Uplight

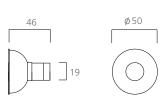
+/-20° Tilt Angle 142mm Recess Flange Dia. 65mm Cut Out Dia. 66mm

Fibre Type Recommended FSPTe 12-75,

8-10mm ferrule required Natural Stainless Steel

Finish Output Data Refer to page 64 - Type 2





CRE1007 50mm Reflector

Replaces standard 50mm dichroic lamps in

most fittings

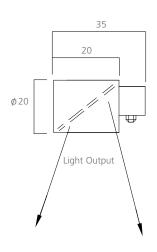
Flange Dia.

Recommended FSPTe 12-75, Fibre Type

8-10mm ferrule required

Output Data Refer to page 64 - Type 2





CRE1119 90° Light Angle

A special stainless steel fitting with aluminium mirror for moving beam angle through 90°

20mm excluding fibre Recess 20mm x 25mm Recommended FSPTe 12-50, Aperture Fibre Type

8mm ferrule required

Finish Silver Output Data n/a

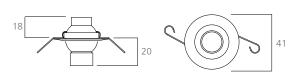




World Art Museum, Beijing. Thanks to LBM

- No heat and UV in the cabinet
- Small discreet luminaires
- Choice of styles and sizes





Small Adjustable Eyeball

Tilt Angle ±30° Cut Out 36mm dia.

Fibre Type Recommended FSPTe 12-75,

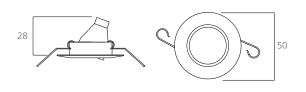
10mm threaded ferrule

required

Finish Black/Silver

Output Data Refer to page 64 - Type 3





CRE2514

Small Adjustable Gimble

Tilt Angle ±30° Cut Out 40mm dia.

Fibre Type Recommended FSPTe 12-50,

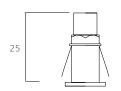
10mm threaded ferrule

required

Finish Black/Silver

Output Data Refer to page 64 - Type 2







CRE2515

Small Downlight

Rotation 0° Tilt Angle ±30°

Recess 35mm excluding fibre

Flange Dia. 32mm Cut Out 17mm dia.

Fibre Type Recommended FSPTe 12-75,

10mm threaded ferrule

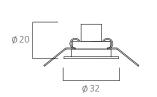
required

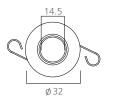
Finish Black/White/Brass/Chrome

Output Data n/a









Miniature Adjustable Lensed Downlight

Rotation ±30° Tilt Angle

Recess 35mm excluding fibre Flange Dia. 32mm

26mm dia. Cut Out

Fibre Type Recommended FSPTe 12-75,

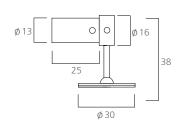
10mm threaded ferrule

required

Black/White/Brass/Chrome Finish

Output Data n/a





CRE2224

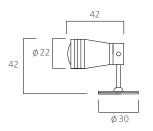
Miniature Spotlight

Tilt Angle ±30°

Recommended FSPTe 12-75, Fibre Type 10mm threaded ferrule

required Finish Black/Silver Output Data n/a





CRE2225

Miniature Lensed Spotlight

Tilt Angle ±30°

Recommended FSPTe 12-50, Fibre Type

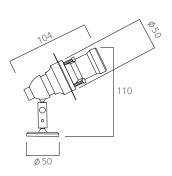
10mm threaded ferrule

required

Finish Black/Silver

Output Data Refer to page 64 - Type 2





CRE2385

Framing Spotlight

Fitting Body Anodised aluminium alloy

Cover Glass 27mm lens

Applications Pictures/display/gobos Fibre Type Recommended FSPTe 50-75,

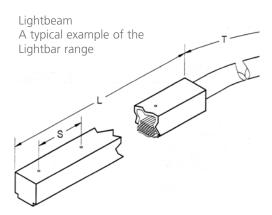
special ferrule required

Output Data n/a





Churchill Museum, London. Thanks to DHA.



Specify 'S', 'L' and 'T' dimensions to form part of the product number - see table on next page.

The Crescent Lightbar range makes it easier to achieve great display case lighting and also opens up a host of other applications. Combining durable optical fibre with extruded aluminium housings, these fibre optic lightbars may be easily installed in the existing structures or incorporated into new designs. By installing lightbars within cabinets and casework, distracting source reflections may be completely eliminated from the glass case surfaces.



Triaxis has three rows of fibres producing light at three distinct angles. This enables the Triaxis to throw light over a much greater area of cabinet display than other systems. Its compact size means that it can be concealed easily within the cabinet.



This profile fits particularly well into corners and is useful for running vertically in tall displays.



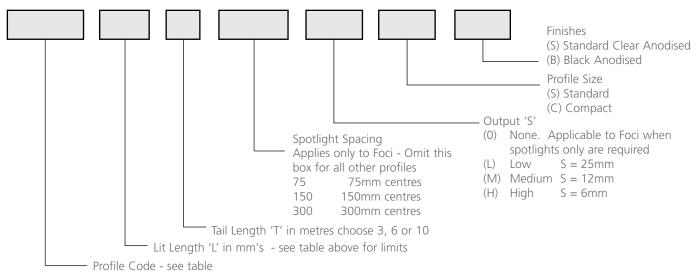
Lightbeam is engineered to be conveniently mounted within display cases and casework. The compact cross-section makes this fixture easy to conceal behind an existing framework.



Adding small adjustable and lockable spotlights to the Lightbeam creates the Foci lightbar which offers the possibility of spotlighting individual display items.

Profile	Profile Code	Dimensions (in mm's)	Profile Size	Output		Max. Lit Length	:
Lightbeam	LB	17 x 17	Compact (C)	L M H		3048 2134 915	
		25 x 25	Standard (S)	L M H		3048 2743 2743	
Lightbeam QR	LBQR	19 x 19	Compact (C)	L M H		3048 2134 915	
		32 x 32	Standard (S)	L M H		3048 2743 2743	
Triaxis	TRX	36 x 32		High output only		2743	
Foci	F				Spo	tlight Spa	acing
		25 x 25 (51 deep to lens end)		O L M H	75 1219 1219 915 915	150 2743 2134 1829 1219	300 3048 2743 2743 1829

Product Number Generation

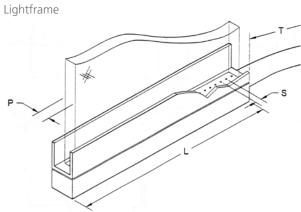


Examples:

- 1. LB 1650 6 M S B This is a standard Lightbeam profile, 1650mm long with a 6 metre tail, medium output with a black anodised finish.
- 2. F 1200 10 75 L S This is a Foci profile 1200mm long with 10 metre tail, spotlights every 75mm and with a clear anodised finish.

To calculate the number of fibres in a lightbar, divide the lit length by the fibre spacing. In the case of Foci, add 25 fibres per spotlight fitted.



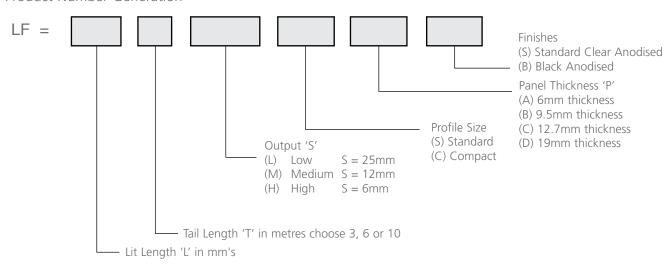


Specify 'S', 'L', 'T' and 'P' dimensions to form part of the product number - see table below.

Etched acrylic and glass panels are transformed into elegant, eye catching displays when illuminated from within using Lightframe. Permanently installed behind framing or trim, the fixtures never need to be disturbed, simplifying the design of edge lit panels and opening up many exciting new applications for designers.

Profile	Profile Code					ension mm's		Profile Size	Output	Max. Lit Length
		Z	W	Χ	Υ	Z	Panel thickness			
						6.9	6		L	3048
			30	16.6	16.9	9.8	9.5	Compact	M	2134
						13.2	12.7	(C)	Н	915
LightFrame	LF	w								
						9.8	9.5	Standard	L	3048
			39	25.7	26	13.2	12.7	(S)	M	2743
		X				19.6	19		Н	2743

Product Number Generation



Example:

LF - 900 - 6 - M - S - B - S This is a standard Lightframe profile, 900mm long with a 6 metre tail, medium output, for a 9.5mm wide panel, in clear anodised finish.

To calculate the number of fibres in a lightbar, divide the lit length by the fibre spacing.





CRE1101



CRE1107



CRE1111



CRE1115



CRE1102



CRE1108



CRE1112



CRE1116



CRE1103



CRE1109



CRE1113



CRE1117



CRE1104



CRE1110



CRE1114



CRE1118



CRE1105



CRE1106

Cat No	Description	Colour	Fibre FSPTe	Cut Out mm	Length mm	Diameter ø mm
CRE1101	Micro Bullet	n/a	1	3	11	4
CRE1102	Mini Bullet	n/a	3-12	6.4	20	5
CRE1103	Bullet	n/a	12-25	9.5	25	8
CRE1104	Maxi Bullet	n/a	50-75	18	43	22
CRE1105	Icicle Bullet	n/a	3-12	10	89	13
CRE1106	Opal Ball	opal	3-12	10	-	10.4
CRE1107	5 Point Star	n/a	3-12	8	9	27
CRE1108	Micro Bullet with Bezel	white or black	1	7.8	27	10
CRE1109	Mini Bullet with Bezel	white or black	3-12	10	27	12
CRE1110	Bullet with Bezel	white or black	12-25	17.5	28	20
CRE1111	Bullet with Bezel	white or black	3-12	9.5	40	25
CRE1112	Maxi Bullet with Bezel	white or black	50-75	17.5	43	36
CRE1113	5 Point Star with Bezel	white or black	3-12	12.8	27	26
CRE1114	Opal Ball with Bezel	white or black	3-12	12.8	13	16
CRE1115	Fine Point	gold or chrome	1	10	19	16
CRE1116	Crystal Point	gold or chrome	1-12	10	29	16
CRE1117	Large Crystal Point	gold or chrome	1-12	10	49	16
CRE1118	Mini Downlight	gold or chrome	1-12	10	20	16

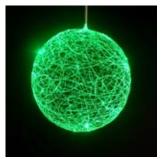


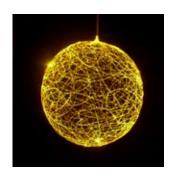
- Illuminated sphere made from fibre optic strands
- Designed by Steffen Bauer
- Can be supplied complete with projector
- Two sizes available
- Up to twelve may be run from one projector
- Striking colour change effects
- Easy to install
- Just ... Beautiful!

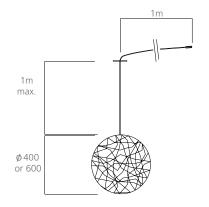
Thanks to LBM.

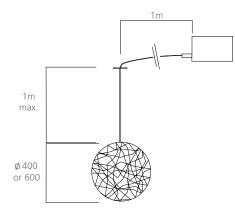
Laluna is a beautiful fibre optic pendant luminaire that will cause a stir wherever it is installed. Painstakingly handmade making each one unique, Laluna is available either as a 400mm or 600mm diameter fitting. It can be supplied separately or complete with a tungsten halogen projector or LED colour change projector.











CRE2550

Laluna 40

Laluna 400mm diameter with 1 metre fibre tail and ceiling plate

CRE2551

Laluna 60

Laluna 600mm diameter with 1 metre fibre tail and ceiling plate

CRE2550THP

Laluna 40 with TH projector

Laluna 40 complete with CRE0100 100w TH lightprojector, colour wheel, cable and mains plug

CRE2551THP

Laluna 60 with TH projector

Laluna 60 complete with CRE0100 100w TH lightprojector, colour wheel, cable and mains plug

CRE2550LEDP

Laluna 40 with LED projector Laluna 40 complete with CRE0007 LED lightprojector, colour effects, cable and transformer

CRE2551LEDP

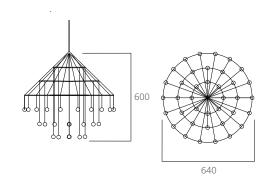
Laluna 60 with LED projector Laluna 60 complete with CRE0007 LED lightprojector, colour effects, cable and transformer



Thanks to Neues Licht.

- Design by Simon Bruenner
- Light and art combined in unique designs
- Glass, crystal and fibre optics combined



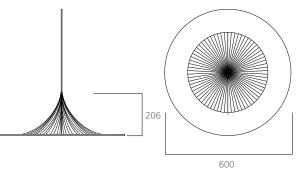


CRE2553 Scintilla Fibre Optic Pendant

Material Glass and Crystal Weight 2Kg

Various tail lengths and configurations available. Contact the Crescent Design Department.





CRE2552 ufo Fibre Optic Pendant

Material Glass and Fibre Optic Fibres

Weight 3Kg

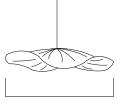
Various tail lengths and configurations available. Contact the Project Design Department.



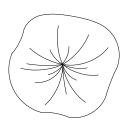
Thanks to LBM

- Stunning, unique designs
- Work especially well with colour change
- Create a wow factor in any interior





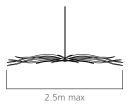


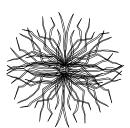


Jelly

Jelly is manufactured in 1.5, 2, 2.5, 3m diameter. It is made from 400 x 1mm polymer fibres. This is made to order. We recommend CRE6155 lightprojector with this



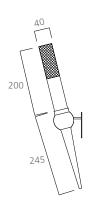




CRE2555 Medusa

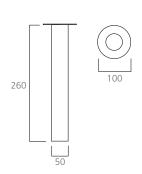
Medusa is made up of 80 x 3mm acrylic rods. 2.5m max length. This is made to order.





Wand, wall mounted Material Aluminium alloy and acrylic FSPTe 12-50 Fibre



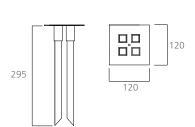


CRE2557

Pole One, ceiling mounted Aluminium alloy Material and acrylic FSPT 300 or OCF 1200 Fibre

Cut Out Dia. 86



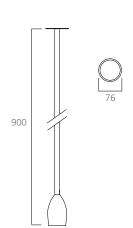


CRE2558

Quatra S, ceiling mounted Steel and acrylic 4 x FSPT 150 or OCF 1200 Dia.92 x 92 Material Fibre

Cut Out





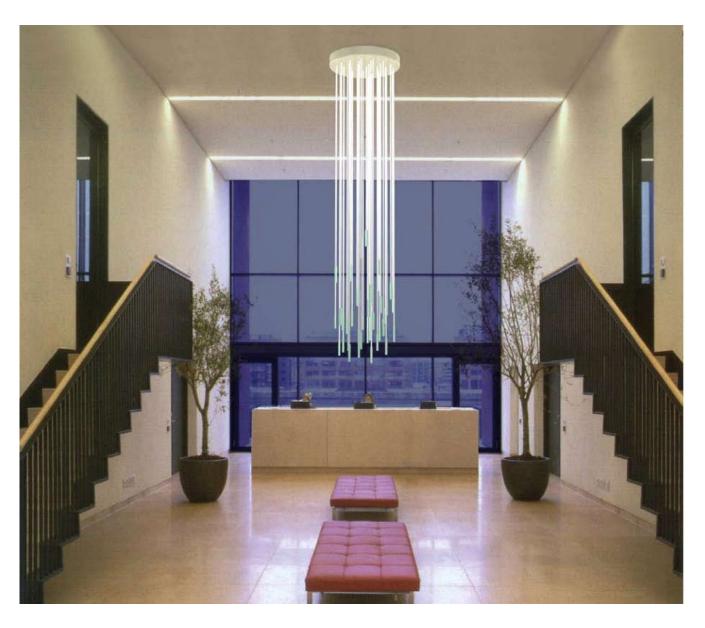
CRE2559 Vino Pendant

Acrylic OCF 1000/OCF 1200 Material

Fibre

Cut Out Dia. 72

For typical installation, see page 63



Fibre optic cable is a wonderful material to work with to create unique lighting objects. Whether you want a small feature area or have a 25 metre atrium to fill, we can help you realise your design concept. We work with designers at all stages of the process, and can provide a full installation and commissioning service - or you may just want to source the material from us and do the rest yourself, we don't mind.

Rendering of the hanging fibre chandelier design shown below









Hanging raw fibre strands are a good way to start. They could be glass or polymer, you could add crystals, beads, turned metal shapes, the choice is yours.





Fibre optic strands are available in different thicknesses and are surprisingly strong. This idea uses fibre to create a semi rigid structure.





Fine polymer fibre can be woven into a flexible material, that when specially treated emits light.

This can then be cut and used as curtaining, blinds, even a table covering, creating a wonderful effect. As usual with decorative effects, this works extremely well with colour change. Suitable for use with any standard projector.

Contact us at an early stage if you want something special created, even if you are not sure where to start - we are here to help.





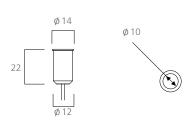






- Different styles of in ground luminaires
- Manufactured from marine grade 316L stainless steel
- Salt and chlorine resistant
- Choice of fixing options





CRE1207 Micro Paver

Marine grade Stainless Steel 316L Fitting Body

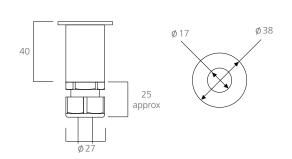
Toughened 6mm, Cover Glass

frosted or clear

Applications Walk over/Drive over

Recommended FSPTe 3-12 Fibre Type





CRE1208 IP68 Mini Paver

Marine grade Stainless Steel 316L Fitting Body

Cover Glass Toughened 6mm,

frosted or clear

Walk over/Drive over/ Applications

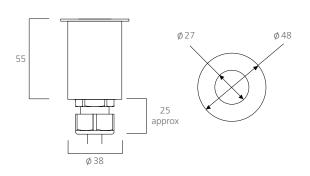
Underwater

Recommended FSPTe 3-75, Fibre Type

8-10mm ferrule required

CRE1211 Installation Tube





CRE1209 IP68 Standard Paver

Fitting Body Marine grade Stainless

Steel 316L

Toughened 6mm, Cover Glass

frosted or clear

Walk over/Drive over/ Applications

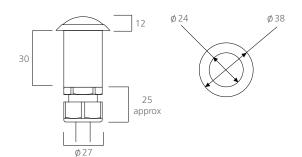
Underwater

Recommended FSPTe 3-75, Fibre Type

8-10mm ferrule required

CRE2302 Spring Fixing Kit CRE1212 Installation Tube





CRE1210 IP68 Domed Paver

Fitting Body Marine grade Stainless

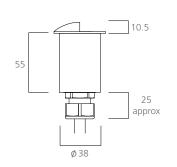
Steel 316L

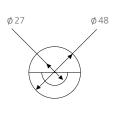
Cover Glass Clear or frosted glass lens Applications Decorative/Underwater Fibre Type Recommended FSPTe 3-75,

8-10mm ferrule required

CRE1211 Installation Tube







CRE2320 IP68 Eyelid Paver

Applications

Fitting Body Marine grade Stainless

Steel 316L

Cover Glass Toughened 6mm,

frosted or clear Walk over/Drive over/

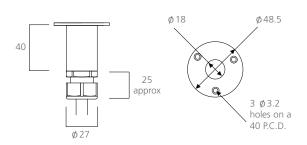
Underwater

Fibre Type Recommended FSPTe 12-75,

8-10mm ferrule required

CRE2302 Spring Fixing Kit CRE1212 Installation Tube





CRE2321 IP68 Small Screw Fix Paver

Fitting Body Marine grade Stainless

Steel 316L

Cover Glass Toughened 6mm,

frosted or clear

Applications Walk over/Drive over/

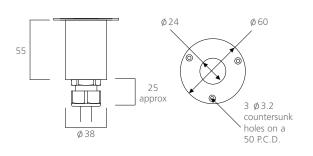
Underwater

Fibre Type Recommended FSPTe 12-75,

8-10mm ferrule required

Polycarbonate lenses are available to special order, please contact Project Design Department for assistance.





CRE2322 IP68 Large Screw Fix Paver

Marine grade Stainless Steel 316L Fitting Body

Toughened 6mm, Cover Glass

frosted or clear Walk over/Drive over/

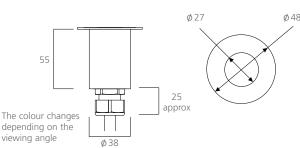
Applications Underwater

Fibre Type

Recommended FSPTe 12-75,

8-10mm ferrule required





CRE2324 IP68 Dichroic Glass Paver

Fitting Body Marine grade Stainless

Steel 316L

Toughened 6mm, frosted Cover Glass

with dichroic backing

Walk over/Drive over/ Applications

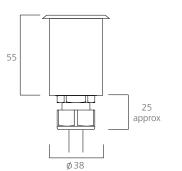
Underwater

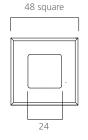
Recommended FSPTe 12-75, Fibre Type

8-10mm ferrule required

CRE2302 Spring Fixing Kit CRE1212 Installation Tube







CRE2329 IP68 Square Paver

Cover Glass

Applications

Fitting Body Marine grade Stainless

Steel 316L Toughened 6mm,

frosted or clear

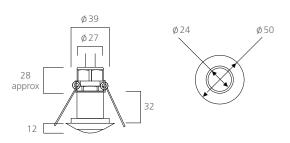
Walkover/Driveover/

Underwater Recommended FSPTe 12-75, Fibre Type

8-10mm ferrule required

CRE2302 Spring Fixing Kit CRE1212 Installation Tube





Springs

Similar to CRE1210 but with larger bezel and spring fixing

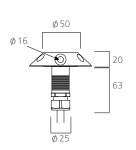
Fitting Body Marine grade Stainless Steel 316L

9.5mm frosted lens Cover Glass Applications Canopies/Walls

Fibre Type Recommended FSPTe 12-75,

8-10mm ferrule required







CRE2349 IP68 Sloped Paver

Marine grade Stainless Steel 316L Fitting Body

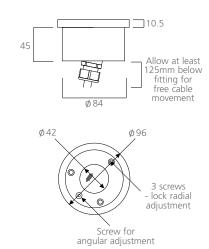
Cover Glass Toughened 6mm, Applications Walkover/Driveover/

Underwater

Recommended FSPTe 12-50, Fibre Type

Special ferrule required





CRE2610 IP68 **Buried Spotlight**

Spotlight is adjustable for both angular and radial position from above ground without removing luminaire

Marine grade Stainless Steel 316L Fitting Body

Cover Glass Toughened 6mm, Walk over/Drive over/ **Applications**

Underwater

Recommended FSPTe 12-75, Fibre Type

8-10mm ferrule required

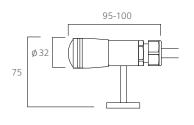
Output Data Refer to page 64 - Type 2



Sheaf Square, Sheffield. Thanks to Sutton Vane and Associates and Sheffield City Council.

- Marine grade stainless steel for corrosion resistance
- Silicone 'O' ring seals for IP68 protection
- Adjustable beam focusing





CRE2223 IP66 **Exterior Spotlight**

Fitting Body Marine grade Stainless

Steel 316L

Cover Glass Toughened 6mm,

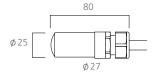
Applications Exterior

Recommended FSPTe 12-75, Fibre Type

8-10mm ferrule required

Output Data Refer to page 64 - Type 1





CRE2153 IP68 Fountain Spotlight

Marine grade Stainless Fitting Body

Steel 316L

Cover Glass Toughened 6mm, Applications Exterior/Underwater Fibre Type Recommended FSPTe 12-75,

8-10mm ferrule required Output Data Refer to page 64 - Type 2

Installation Fixing clamp required, normally supplied by

a fountain specialist





- Beautiful effects from linear or end emitting fibre optics
- Safe, no voltage in or near the water
- Colour change options on all equipment
- Products developed from 20 years of experience
- Products for most pool construction types

Waterfall System



Several different sizes and needing only a small amount of fibre to create a stunning effect.

Laminar Flow Fountain



Beautifully illuminated, these fountains add a new dimension to any pool area. Two sizes and works with all project types.

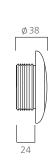
Star Floor Kits

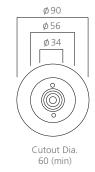


Available in 10 or 25 star sizes and suitable for gunite pool types.

Energy Focus (formally Fiberstars) is one of the largest pool lighting suppliers in the world. Call our Project Design Department for full details of these products or visit www.energyfocusinc.com







LNS100G Underwater Fitting

Fitting Body
Front Lens
Seals

Moulded polymer
Moulded clear polymer
'O' rings and water tight

gland

Applications Swimming pools and water

features

Fibre Type Recommended FSPTe 25-50

Note: LNS100A with locknut available for Glass Fibre Pools



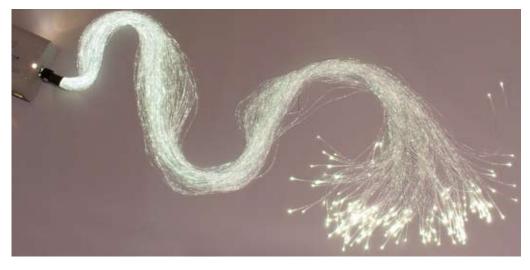


Thanks to St Giles Hotel, London.

- The original lateral fibre optic cable
- Latest braided version provides the highest output
- Outer sleeve has algicides, fungicides, UV stabilisers, and chlorine inhibitors
- For continuous use underwater, use BPAK50UW

		Si	de Emitting	, Fibre		
Description	No. Fibres (mm)	Active Dia. (mm)	Outer Dia. (mm)	Min.bend radius (mm)	Outer Tubing	Drum size (m)
Brightpak III						
BPAK15	14	4	5	10	Clear PVC	304
BPAK50	48	7	8	20	Clear PVC	304
BPAK50UW	48	7	8	20	Clear PVC	304
BPAK75	77	8	10	25	Clear PVC	243
BPAK100	96	9	11	30	Clear PVC	182
BPAK100UW	96	9	11	30	Clear PVC	182
BPAK150	144	11	15	40	Clear PVC	152
SS15	14	4	5	10	Black/Clear PVC	304
SS50	48	7	8	20	Black/Clear PVC	304
FSSB	30		9x16	15	Clear PVC	152
BriteCore™						
BC1300	Large Core	12	13	110	Clear PVC	
BC1400-E	Large Core	12	14	120	Clear PVC	





Cracked glass side emitting fibre is also available in various sizes - contact the Project Design Department for details.



Glass harnesses were supplied to the cabinets at the Elizabeth gallery at the Royal Maritime Museum, Greenwich.

Thanks to VBK.

- Polymer or Glass optical fibres
- Supplied loose, on reels or made into harnesses
- High transmission grades for superior results

We can offer a wide range of fibre optic cables and are happy to offer both glass and PMMA (polymer). The choice of material will depend on the type of project, likely fibre lengths and client preference. We have extensive experience of preparing PMMA harnesses and have supplied glass fibre optics for many years, so we are well placed to help you make the decision.

There are distinct differences between the two materials, a summary of which is shown below.

PMMA Harnesses	Glass Harnesses
On site porting & finishing possible	Porting & finishing in factory only
White light transmission losses are typically 3% per metre	White light transmission losses are typically 5% per metre
Robust 0.75mm dia. fibres are resistant to breakage	Thin 0.05mm dia fibres are fragile
PMMA harnesses tend to be cheaper than the equivalent sized glass	Glass harnesses tend to be more expensive than equivalent sized PMMA
Little colour shift over long lengths	Longer lengths can exhibit colour shift
Randomisation of fibres possible	Fine randomisation of fibres possible
Acceptance angle 60° (large core 80°)	Acceptance angle 60°

Maximum number of tails

for a 30mm port is 200 of

size 2 (active dia. 1.6mm)

		Glass Er	nd Lit Fibre		
Size	Active Diameter	Ferrule Diameter	Min. Bend Radius	No of Fibres/Tail	Max. Tails
0.75	0.98mm	2.96mm	25mm	300	530
1	1.12mm	2.96mm	25mm	400	400
1.5	1.50mm	3.50mm	45mm	600	265
2	1.60mm	3.50mm	60mm	800	200
3	1.95mm	3.50mm	80mm	1200	133
4	2.26mm	4.46mm	90mm	1600	100
7	2.98mm	5.95mm	100mm	2800	57
8	3.20mm	8.00mm	110mm	3200	48
12	3.90mm	8.00mm	125mm	4800	32
14	4.20mm	8.00mm	140mm	5600	27
18	4.80mm	8.00mm	150mm	7200	21
24	5.55mm	8.00mm	160mm	9600	16
30	6.18mm	8.00mm	170mm	12000	13
32	6.40mm	8.00mm	180mm	12800	12
36	6.80mm	8.00mm	190mm	14400	11
42	7.50mm	10.85mm	200mm	16800	9
48	7.95mm	10.85mm	200mm	19200	8

Additional Information	
Common End	F30 (30mm)
Sleeving	Megolon
Randomised	8:1 (size 7 & above)

Maximum number of tails

for a 30mm port is 150 of

FSPTe3 (active dia. 1.6mm)



Sri Ramachandra Medical College, Chennai, India. Thanks to Versalite Lighting.

				PMMA	End Lit Fibre	2			
Description	No. Fibres (mm)	Active Dia. (mm)	Active Area (mm²)	Outer Dia. (mm)	Min.bend radius (mm)	Outer Tubing	Max. Tails All Projectors Except AD/AG	Max. Tails AD/AG	Drum size
FSPT End Lit									
Multiple Fibre									
FSPTe3	3	1.6	1.3	4	5	Black polymer	150	332	1000
FSPTe6	6	2.1	2.65	5	7.5	Black polymer	75	166	1000
FSPTe12	12	3	5.3	6	10	Black polymer	37	82	1000
FSPTe25	25	4.3	11.05	6.8	15	Black polymer	18	40	1000
FSPTe37	37	5	16.35	9	18.5	Black polymer	12	26	1000
FSPTe50	50	6	22.1	10	20	Black polymer	9	20	500
FSPTe62	62	6.5	27.04	11	25	Black polymer	7	16	500
FSPTe75	75	7.5	33.15	11.2	25	Black polymer	6	12	400
FSPT150	150	11	66.3	14.7	35	Black PVC	3	6	152
FSPT225	225	13	99.45	18.8	40	Black PVC	2	4	76
OptiCore™									
Large core fibre									
OCF800	1	7.5	44.18	9	90	Black PVC		14	
OCF1100	1	11	95.05	12	120	Black PVC		8	
OCF1200	1	12	113.11	14	140	Black PVC		6	
Single fibres									
Clad									
FSPT1	1	1				Black PVC			1000
FSPT1.5	1	1.5				Black PVC			500
Single fibres									
Un clad									
FSPTU0.75	1	0.75				None	450	1000	2700
FSPTU1	1	1				None			1500
FSPTU1.5	1	1.5				None			700

Photometric Information

All of our photometric information is derived from tests conducted by Dial GmbH, Europe's leading photometric testing laboratory and lighting software company. Their programme Dialux has been at the forefront of lighting design since 1994. Following extensive testing, Crescent is the first company to have its fibre optic data fully available on the Dialux programme. We are members of the Dialux partner network.

It is now easy to fully integrate fibre optic lighting with other lighting, and then to visualise the results on the screen, print them or export them to other programmes.

The Crescent fibre optic 'plug in' for Dialux can be downloaded from our website - www.crescent.co.uk
This 'plug in' will guide you through the selection of lightprojector, fibre configuration and fitting type. You can then add this combination to your lighting design, and calculate light levels based on the actual measured performance of our systems.

The images opposite show renderings prepared for a project, making use of the wide range of furniture that can be placed inside the space. The latest version of Dialux allows you to "walk through" the area and see the effects from all angles.

Dialux is available for downloading from the Dial web site at www.dial.de

Crescent can provide customer training in the use of Dialux if required.



Dialux rendering of a project





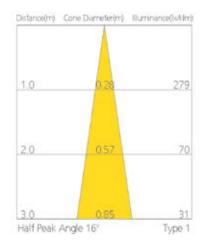


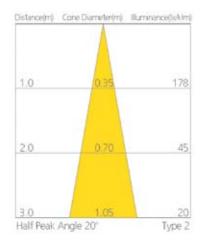


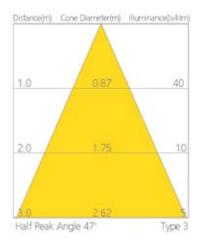
Image of the installation, Thanks to LBM

It is possible to manually calculate illuminance levels for some luminaires. Select the appropriate cone diagram from those shown (the luminaire specification will tell you which one to use), and use the values for A, B & C that match your lightprojector and fibre configuration, and multiply out as shown in the example given.

In case of difficulty, contact the Project Design Department.







Types 1 & 2 show the fibre focused in the optimum position in front of the lens to achieve maximum output. In both cases the fibre position could be changed to give a less intense, wider distribution.

				Illur	mination	n Calcula	ation Tal	ble				
Lightprojector	Lamp Lumens 000's	Nun 3	nber of 6	PMMA I 12	Fibre str 25	ands pe 37	r fitting 50	75	No. of fibres	Port Size 300	Correction 450	n Factor 600
CRE096 & 0100	3	0.06	0.12	0.24	0.5	0.74	1	1.5	CRE096 & 0100	1	0.78	0.62
CRE6220	6	0.06	0.12	0.24	0.5	0.74	1	1.5	CRE6220	1	0.78	0.62
CRE0150	7.65	0.05	0.1	0.2	0.4	0.6	0.81	1.22	CRE6155 & 465	1	0.84	0.68
CRE6155 & 465	9	0.05	0.1	0.2	0.4	0.6	0.81	1.22	CRE6155 & 465	1	0.84	0.68
CRE6255 & 4625	15	0.04	0.07	0.15	0.3	0.45	0.61	0.92	CRE6255 & 4625	1	0.92	0.85
CRE068AD & AG	5.5	0.03	0.06	0.11	0.23	0.34	0.46	0.69	CREAD & AG	1	1.38	1.42
	А	В	В	В	В	В	В	В		С	С	С

Illuminance = Lux from diagram x A x B x C x correction for fibre length (FSPTe loses 3% per metre so x 0.97 for every metre over 3m). Example: CRE6255 with 9 x FSPTe50 (450 port) each 4 metres long and with CRE2501's, what is the peak illuminance at 2 metres? equals... 70 x 15 x 0.61 x 0.92 x 0.97 = 571 lux.

All photometric measurements taken using 3 metres of fibre.



- Great effects
- Simple to install
- Projector, cable and fittings included
- Harness made and finished ready to install
- Cable length options
- Colour or sparkle wheel included



CRE2362	2 metre kit
CRE2363	4 metre kit
CRE2364	6 metre kit
CRE2365	8 metre kit

Star Kit

A silent, fanless 35W lightprojector complete with enough fibre optic cable to give 144 bright points of light over an approximate 3 square metre area. Sparkle effect wheel included. Projector: 178 x 138 x 136 high

complete with power lead 6 tails of FSPTe25 giving 150 fibres total. Fibre cable:



CRE2366	6 x 4 metre kit
CRE2367	6 x 6 metre kit
CRE2368	6 x 8 metre kit
CRE2369	2 x 4 metre/ 2 x 6 metre/ 2 x 8 metre kit

Patio Kit

A complete kit for lighting patios and other exterior areas. The 100W TH lightprojector has a colour wheel which can be set to give white light, fixed colour

or colour change effects.

Projector: 178 x 138 x 136 high complete with power lead

Fibre cable: FSPTe25

Paver: CRE1208 - see p52



Fixed Downli	ght Kit
CRE2408	6 x 4 metre kit
CRE2409	6 x 6 metre kit
CRE2410	6 x 8 metre kit
CRE2411	2 x 4m/ 2 x 6m/
	2 x 8m kit
Adjustable D	ownlight Kit
Adjustable D	ownlight Kit 6 x 4 metre kit
,	9
CRE2412	6 x 4 metre kit

2 x 8m kit

Downlight Kit

A powerful 100W TH lightprojector complete with 6 fixed or adjustable lensed downlights. The projector has a fitted colour wheel which can be set to give white light, fixed colour or colour change effects.

Projector: 178 x 138 x 136 high complete with power lead

Fibre cable: FSPTe25 Fixed downlight: CRE2501 - see p30 Adjustable downlight: CRE1002 - see p30

Tracks

TRK-U-100 Rigid clear polycarbonate channel for BPAK50 or BPAK100. CAP-U-130 use with BPAK50 only Used to ensure optical cable is fixed in a straight line. L = 1.8m, W = 15mm, H = 11mm TRK-U-130
Rigid clear polycarbonate channel for BPAK100 or BPAK150. CAP-U-130 use with BPAK100 only Used to ensure optical cable is fixed in a straight line. L = 1.8m, W = 16mm, H = 15mm

TRK-U-160
Rigid clear polycarbonate channel for BPAK150. Used to ensure optical cable is fixed in a straight line. L = 1.8m, W = 18mm, H = 16mm

CAP-U-130 Clear polycarbonate cap for TRK-U-100, TRK-U-130 and TRK-U-160.

P70 - Pack of 10 Clear P-clips for mounting BPAK15 and

P-Clips

P160 - Pack of 10 Clear P-clips for mounting BPAK150.

P160 - Pack of 10 Clear P-clips for mounting BPAK100.

Spare Optical Ports

FCREPxxx

Spare Optical Port for all projectors. Ready sized for 25 to 450 fibres. Complete with fully adjustable clamp for simple on site assembly.

Add fibre quantity to catalogue number when ordering.

Clear P-clips for mounting BPAK75,

P100 - Pack of 10

BPAK50 and SS50.

Larger capacity ports are available to special order. Please consult the Project Design Dept.

FCREP300
FCREP350
FCREP400
FCREP450
FCREP500
FCREP600

Diameter 30mm, Overall Length 125mm, Maximum Diameter 51mm

Spare Lamps/Optical Systems

LMHR100 - 100W HID Optical System Pre-focused 100W HID lamp in dichroic reflector for CRE420 lightprojector.

HID 303 - 150W HID Optical System Pre-focused 150W HID lamp and dichroic reflector for CRE6155 and CRE465 lightprojector (late model). Please state 3000 or 4200K.

HID 304 - 150W HID Optical System Pre-focused 150W HID lamp and dichroic reflector for CRE301 and CRE401 lightprojector. Please state 3000 or 4000K.

HID 306 - 150W HID Optical System Pre-focused 150W HID lamp and dichroic reflector for CRE425, CRE465 (early model only), CRE6150 lightprojector.

HID 308 - 150W HID Optical System Pre-focused 150W HID lamp and dichroic reflector for CRE0150 lightprojector.

HID 309 - 250W HID Optical System Pre-focused 250W HID lamp and dichroic reflector for CRE6255 lightprojector.

HID 504 - 400W HID Optical System Pre-focused 400W HID lamp and dichroic reflector for CRE520 and CRE6400 lightprojector.

HID 601 - 250W HID Optical System Pre-focused 250W HID lamp and dichroic reflector for CRE601 lightprojector.

HI 50 - 50W Halogen Optical System Pre-focused 50W halogen lamp and dichroic reflector for CRE050 lightprojector.

HI 111 - 250W Halogen Optical System Pre-focused 250W (183W) halogen lamp and dichroic reflector for CRE6220 and CRE201 lightprojector.

HI 100 - 100W Halogen Optical System Pre-focused 100W halogen lamp and dichroic reflector for CRE095, CRE096ELN, CRE0100 and CRE101 lightprojector.

FS EFO-070DL - 70W AC 4200K. HID Optical system pre-focused with twin CPC output for CREAD068 lightprojector.

FS EFO-068 - 70W AC 3500K HID Optical system pre focused with twin CPC output for CREAD068 lightprojector.

FS EFO-070-DL-SC - 70W AC 4200K HID Optical system pre focused with twin CPC output for CREAD068 lightprojector with fixed colour filter - state colour when ordering.

FS EFO-68-SC -70W AC 3500K HID Optical system pre focused with twin CPC output for CREAD068 lightprojector with fixed colour filter - state colour when ordering.

FS EFO-068-AG - 70W AC 4200K HID Optical system pre focused with twin CPC output for CREAG068 lightprojector.

FS EFO-068-AG-SC - 70W AC 4200K HID Optical system pre focused with twin CPC output for CREAD068 lightprojector with fixed colour filter - state colour when ordering.

Accessories

CRE2318 Ventilation Kit For Lightprojectors - See page 28.

FS-118 Electric Hot Axe Cutter Use to cut large groups of fibres, ideal for 300-600 and all CRE6255 ports.

FS121 Butane Hot Knife Useful for preparing ports outside. FS131 Double Sided Tape-U Channel holds cable to track or track to surface prior to final fixing. 50m roll, 8mm wide.

FSFC Large Core Cutter Used for the preparation and correct cutting of large core fibre.

FS-136 Silicone Sealant
Used on all applications to seal and protect
the cable, particularly when used in
swimming pools.

FBRST Fibre Burst

Coupler for Star Ceilings 25:75 - other options to order.

Ferrules

A wide variety of end ferrules are available for FSPTe fibres.





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