

EFO - Efficient Fibre Optics

The second fibre optic revolution



- Up to 60% energy saving over conventional display lighting
- Sharp, clean display lighting
- No heat
- No Ultra violet
- No electrical current in the light fittings
- Small, cold light fittings
- Longer shelf life for fresh produce
- Less maintenance points

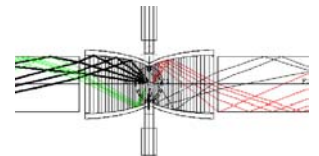
Crescent EFO is a revolutionary new lighting system offering all the benefits of Fibre Optic Lighting with the added advantage of energy efficiency. Technology breakthroughs in the solid core optical fibre and light collecting systems in EFO give crisp, white light with an efficiency way beyond what has been possible with Fibre Optics up to now.

EFO - The System



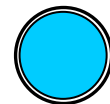
CRE AD068 Projector

At its heart the 68W CRE AD projector has a revolutionary double CPC collector system. This gets more light into the fibre than ever before – with TWO optical ports!

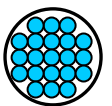


OptiCore™ Fibre

Large core fibre overcomes the 'packing fraction' problem that comes with stranded fibres and has a better Numerical Aperture = 50% more light for the same diameter!



OptiCore

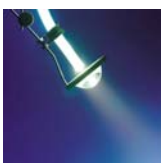
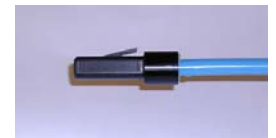


FSPTe



FiberJacks™ connection

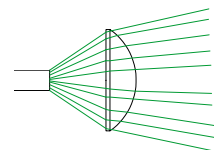
The quick, easy and precise FiberJack plug in port and luminaire connection method is a step forward in fibre optic systems – individual cables can be installed or replaced at will.



New Luminaires

EFO luminaires use larger lenses than standard fibre optic fittings, for better, more efficient control of the light.

The FiberJacks™ connector allows simple & precise beam angle setting.



EFO Performance:

Six downlights/spotlights - **332 lumens each** = **36%** delivered performance
Two fixed downlights - **2064 lumens each** = **75%** delivered performance
(normal fibre optic systems can only offer 12 –18% delivered performance)

Independent test results - from Dial GmbH.

Download from our website our free fibre optic lighting design wizard for use with Dialux software.



This cinema food outlet replaced 96 50w MR16 tungsten halogen downlights with 12 EFO systems, cutting their maintenance requirements drastically. Power requirements for lighting also went down from nearly 5 Kw to less than 1 Kw! With careful focusing the original lighting levels were maintained.

The System - Projector.



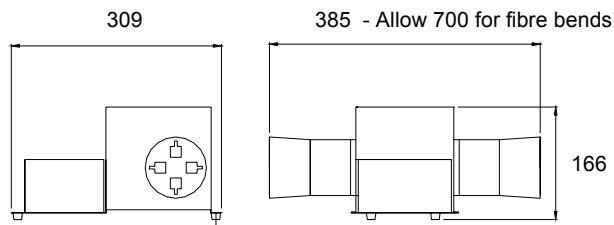
The heart of the EFO system with it's unique, patented CPC optical system and twin outputs. The porting system is designed to accept the FiberJacks connectors as shown on the right.

Specify: CRE068AD4/4 for 4 outputs each side

CRE068AD3/3 for 3 outputs each side*

CRE068AD2/2 for 2 outputs each side*

A version is also available to use FSPTe & BPAK stranded fibre, specify CRE068AD1/1.



CRE068AD

Lamp: 68W AC metal arc

Lamp Life: 6000 -10 000 hour average

Fibre Type: Stranded PMMA 600 fibres per side

Large core – see below

Op. Temp. -10C to 35C

Weight: 9kg

Options: White light only or colour wheels;

Warm white lamp 3500K CRI 69

Daylight lamp 5000K CRI 82

Acoustic

rating: Silent

The System – Optical Cable

OptiCore™ is an efficient, PVC jacketed large core cable developed especially for the EFO system.



Cat. No.	Type	Outer Diameter	Max. no. of cables /projector
EFO – 12/10	10mm large core	12	8
EFO – 14/12	12mm large core	14	6
EFO – 17/15	15mm large core	17	4*
EFO – 22/19	19mm large core	22	2*

Specify length required. Each length will be fitted with FiberJack™ connectors on either end.

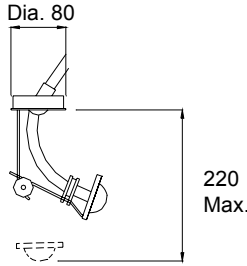
Consult Crescent for lengths longer than 10 metres.

Note: the maximum bend radius is eight times the outer

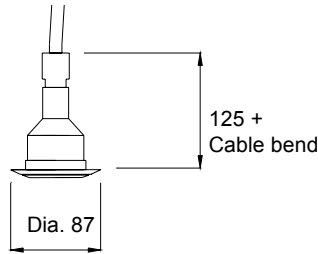
* Check with sales office for availability

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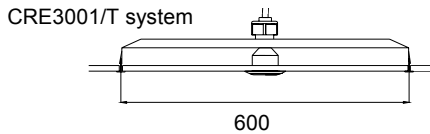
The System - Luminaires



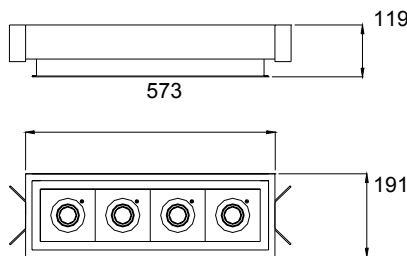
CRE3000
 Gallery
 Cut out Dia. 72
 Fibre Type OptiCore large core fibre
 Fibre Fibre supplied ready for clamp fixing, variable focusing and locking.
 Connection
 Finish Silver



CRE3001
 Multi Beam Fitting
 Cut out 136 Dia. 63
 Fibre Type OptiCore large core fibre
 Fibre Multi beam focusing with
 Connection 15, 25 or 40 degree beam
 Finish Silver

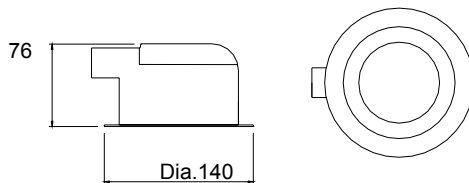


The CRE3001 can be fitted into either suspended or solid ceiling types. Specify CRE3001/T for a tile ceiling – brackets to suit 600 x 600 & 600 x 1200 ceiling systems. Specify CRE3001/S for solid ceiling types. For other ceiling types contact our Technical Office.

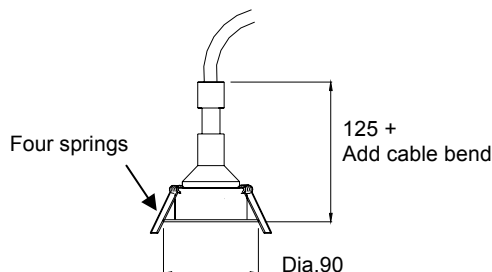


CRE3002
 Adjustable Modular Downlight
 Cut out tbc
 Fibre Type OptiCore large core fibre
 Fibre Multi beam focusing with
 Connection 15,25 or 40 degree beam
 Finish White or Black

1, 2, 3, or 4 units per luminaire, fully adjustable. Specify CRE3002/1 for a single module; CRE3002/2 for a twin module etc.



CRE3003
 90 Degree downlight
 Cut out Dia. 114
 Fibre Type OptiCore large core fibre
 Fibre Multi beam connector
 Connection fixed focus
 Finish White, Black or Gold trim
 Specify CRE3003/60 for 60 degree beam or CRE3003/25 for a 25 degree beam.



CRE3004
 Multi beam downlight – flat bezel
 Cut out Dia. 75
 Fibre Type OptiCore large core fibre
 Fibre Multi beam focusing with
 Connection 15, 25 or 40 degree beam focusing and locking.
 Finish Silver, White