



## 42 Partners Limited

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# 42 Partners Limited Company Information

42 Partners - providing independent technical services for lighting manufacturers and users. Established in 1992 as an independent photometric laboratory, services have been continuously expanded to now include:

- Lighting consultancy
- Test consultancy
- Design consultancy
- 'Virtual' photometric testing from CAD models
- Lens, louvre, reflector, refractor and prism design
- 3D CAD modelling
- Photometric data file production, conversion and editing
- Luminaire database and BIM production
- Design and construction of test equipment
- Sole UK & Ireland authorised provider of RELUX light simulation tools, software, training, sales, support and membership since 2000.

Registered Office &  
Trading Address

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Bilston  
West Midlands  
WV14 9UW UK

Telephone & Fax

+44 (0) 7801 885453 Richard Hayes - Mobile  
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0905 386 42 42 Relux payable support hot line (UK only)  
Calls are charged at £1.50 per minute at all times.  
Lines are open 10am to 4pm Monday to Friday  
42 Partners Limited are the UK and Ireland agents for Relux tools.

Email

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Accreditation BS EN ISO 9001:2008

Institution British Standards Institution  
Membership Federation of Small Businesses  
Black Country Chamber of Commerce

**RELUX**<sup>®</sup>  
light simulation tools



<b>Sample disposal</b>	<p>The testing process will usually involve some degree of damage to the sample that would make it unfit for resale, it is generally considered that the cost of return, handling, inspection and probable rework required by Quality Management systems would exceed the value of most luminaires.</p> <p>If you require a sample to be returned, please arrange your own transport and inform us of collection arrangements beforehand. We will re-pack luminaires in the original packaging whenever possible. It is notoriously difficult to transport test samples without damage, we will therefore not accept any claims for damage in transit. If you wish to have transit insurance or want the ability to claim for damage in transit, please arrange this with your carrier. We will not usually arrange for the return of samples, courier companies are no longer prepared to offer reasonable rates to low volume users like us, if you already use a courier you will almost certainly get a better rate than if we arranged it and passed the costs on.</p> <p>Due to space constraints, if an item remains uncollected for a month, it will be disposed of and due to increasingly expensive waste disposal costs a fee may be charged.</p>
<b>Virtual Photometry</b>	Producing simulated photometric data from CAD models of luminaires.
<b>CAD Model preparation</b>	Preparing or modifying CAD models, assigning materials etc in preparation for performing a photometric test simulation.
<b>Virtual photometric test</b>	A simulated photometric test of a CAD model to produce a photometric report and data files.
<b>Electronic communications</b>	All communications including data, test results, software and invoices are made electronically either by email, or in the case of software by being available for download from an internet site. Working in an electronic medium helps us to control costs.
<b>Hard Copy</b>	Physical data can be provided on request e.g. printed copies of reports or program CDs but there is an additional minimum charge. There may be a supplement depending on the actual cost of the work involved.
<b>Photometric File Conversion</b>	From a supplied electronic format photometric data file, 42 Partners can reproduce the photometric data in other formats. We can also accept data in hard copy format, or in some cases extract data from encoded files, for which there will be a surcharge depending on the amount of work involved.
<b>Standard Conversion</b>	Produce a typical format data file e.g. TM14, IES, EU-LUM with the opportunity to amend the extracted data, e.g. changing dimensions, catalog numbers and descriptions, or applying the data to different lamp types.
<b>Simple Conversion</b>	Produce a typical format data file e.g. TM14, IES, EU-LUM from the extracted data. Missing data will be substituted with default values. This option does not give any opportunity for amending catalog numbers and descriptions, or applying the data to different lamp types.
<b>Report production</b>	Produce a full standard pdf report, and typical format data files e.g. TM14, IES, EU-LUM with the opportunity to amend the extracted data, e.g. changing dimensions, catalog numbers and descriptions, or applying the data to different lamp types.
<b>Consultancy</b>	42 Partners offer a range of consultancy services
<b>Design Consultancy</b>	Consultancy work regarding the design and development of luminaires and components.
<b>Relux Consultancy</b>	Discounted rate for Relux members for the maintenance of databases and photometric data.
<b>Relux database preparation</b>	Cost for preparing a database for use with Relux.

<b>Relux software</b>	42 Partners Limited are the UK and Ireland agents for Relux software light simulation tools. For full details of all the ReluxSuite programs, please visit the Relux website.
<b>ReluxPro</b>	ReluxPro is a calculation and lighting design program used to predict the illuminance produced by luminaires and daylight. A detailed product description is available for download in pdf format. User manuals are available for download in pdf format. There is no charge for the download, registration or use of ReluxPro. All that is required is that you register your details with Relux.
<b>Relux CAD</b>	<p>ReluxCAD is a plug-in interface for AutoCAD that allows the transfer of projects to and from ReluxPro.</p> <p>A detailed product description is available for download in pdf format.</p> <p>User manuals are available for download in pdf format.</p> <p>ReluxCAD can be downloaded and used free of charge for 30 days, after which it will cease to function until a license key is entered.</p> <p>Relux full advertiser members can buy licenses at a discounted rate.</p> <p>Academic institutions can have a 'teaching purposes only' license at a discounted rate.</p> <p>ReluxCAD requires the full version of AutoCAD, it will not work with AutoCAD LT because AutoCAD LT does not have a programming interface and so cannot accept plug-ins, this is one of the reasons why AutoCAD LT is so much cheaper than the full version of the program. AutoCAD LT is advertised as being suitable for users who 'do not need to customise their software through automation' with plug-in such as ReluxCAD.</p>
<b>ReluxLum</b> (formerly LumEdit)	<p>ReluxLum (formerly LumEdit) is a program used to view and edit luminaire data.</p> <p>ReluxLum is installed as a free of charge viewer with ReluxSuite, in order to upgrade from a 'read only' to an 'edit' version, a license key must be purchased,</p>
<b>ReluxLumPic</b>	A program to generate polar curve images in picture format (BMP, JPEG or TIFF, EMS and EPS) from luminaire data in Eulum or IES format. Helpful when compiling technical documentation or product catalogues.
<b>ReluxTunnel</b>	A program for the computer aided design of tunnel lighting. This requires the purchase of a hardware dongle.
<b>ReluxTunnel Demo</b>	A time limited hardware dongle to allow evaluation of the program.

**Training for Relux** 42 Partners Limited are the UK and Ireland agents for Relux software, and offer training courses in the use of the software. Regular training sessions are arranged to which individual delegates are invited to attend. Training courses can also be arranged for a group of delegates from an individual company.

For more information about course content, please refer to the Relux Seminars document.

**ReluxSuite Access**

Aims: To teach attendees the use of ReluxSuite to predict the illuminance produced by artificial lighting.

Duration: 1 day

Knowledge: Delegates should have a working knowledge of lighting design terminology and practices.

Equipment: Each delegate should have a laptop loaded with the latest updated version of ReluxSuite

Content: For more information about course content, please refer to the Relux Seminars document.

**ReluxSuite Interior I**

Aims: To teach attendees the use of the features of ReluxSuite that that allows lighting designs to conform to relevant standards.

Duration: 1 day

Knowledge: Delegates should have satisfactorily completed the ReluxSuite Access seminar

Equipment: Each delegate should have a laptop loaded with the latest updated version of ReluxSuite

Content: For more information about course content, please refer to the Relux Seminars document.

**ReluxSuite Interior II**

Aims: To teach delegates the use of the features of ReluxSuite to import CAD files, and produce photo realistic images.

Duration: 1 day

Knowledge: Delegates should have satisfactorily completed the ReluxSuite Access seminar

Equipment: Each delegate should have a laptop loaded with the latest updated version of ReluxSuite

Content: For more information about course content, please refer to the Relux Seminars document.

**ReluxSuite Road & Exterior**

Aims: To teach delegates the use of the features of ReluxSuite to produce exterior and road schemes that conform to relevant standards.

Duration: 1 day

Knowledge: Delegates should have satisfactorily completed the ReluxSuite Access seminar

Equipment: Each delegate should have a laptop loaded with the latest updated version of ReluxSuite

Content: For more information about course content, please refer to the Relux Seminars document.

**ReluxSuite Daylight & Energy**

Aims: To teach delegates the use of the features of ReluxSuite to optimise designs for the use of daylight, and to calculate energy use, and payback times using lighting controllers.

Duration: 1 day

Knowledge: Delegates should have satisfactorily completed the ReluxSuite Access seminar

Equipment: Each delegate should have a laptop loaded with the latest updated version of ReluxSuite

Content: For more information about course content, please refer to the Relux Seminars document.

## ReluxCAD

- Aims:** To teach delegates the use of the ReluxCAD an interface for AutoCAD that allows the transfer of projects to and from ReluxPro.
- Duration:** An additional 2 hours after any Relux seminar.
- Knowledge:** Delegates should have satisfactorily completed the ReluxSuite Access course. For the ReluxCAD component, delegates should have a working knowledge of AutoCAD (this is not a CAD training course).
- Equipment:** Each delegate should have a laptop loaded with the latest updated version of ReluxSuite, a licensed or trial version of ReluxCAD (a 30 day trial version is available for download), and a licensed version of AutoCAD. It is the responsibility of each delegate to ensure that they have any necessary license codes to be able to use the software.
- Content:** Controls in AutoCAD, Scaling and luminaire selection, Defining rooms and exterior areas, Program interface, Relux calculations, CAD file update

## Lighting Awareness + ReluxSuite Access

- Aims:** To teach delegates who have no technical knowledge of the lighting industry basic lighting technology concepts and definitions so that they can undertake the ReluxSuite Access course that forms the final module
- Duration:** 2 days
- Knowledge:** None
- Equipment:** Each delegate should have an electronic calculator for modules 2 & 3, and a laptop with the latest updated version of ReluxSuite loaded for the final module of the course
- Content:** Module 1 - Electrical principles - Watts, Amps, Volts, A.C., D.C. Power factor defined and explained. Lighting Principles - Lumens, Candela, Candela/m<sup>2</sup>, lux, efficacy defined and explained, basis of vision and the nature of glare. Colour rendition and colour comparisons. Lamps - GLS, TH, Fluorescent MBF, MBI, SON, SOX, CDM. Circuits - ballasts, starters, capacitors. H.F. vs copper/iron, dimming, ignitors, capacitors, what they are how they work what they do and look like. Colour, efficacy, life, costs.
- Module 2 - Luminaires and photometry. Luminaire type and design, constructional standards CE marking legislation, basis and nature of photometric data. Simple interior design - Lumen method, spacing, uniformity etc.
- Module 3 - Floodlighting - Basic considerations, choice of lamps on floodlit materials, simple estimation rules. Fluorescent luminaires - Further design considerations, glare leading to LG3, uplighting. Street and amenity Lighting - Basic considerations of street lighting and amenity lighting practice, choice of lamps and lanterns. Emergency lighting terms & definitions, commercial & industrial industry practice.
- Module 4 – ReluxSuite Access

## Relux Help

42 Partners Limited are the UK and Ireland agents for Relux software.

Email **relux@42partners.com** for a selection of FAQ's (Frequently Asked Questions) that should be of help.

The majority of queries that we receive are resolved by downloading the latest version of the software, and ensuring that the hardware requirements are met.

Before contacting us again, please check these points in the FAQs, see if your problem is mentioned and follow any fixes.

If your query has not been answered at this point, please contact us with more details by replying to the email, please include the file that is causing the problem, and its associated log file <scheme>.rdf and <scheme>.rdf.log, and if you have a system for reporting what processes are running if your computer crashes, e.g. Dr Watson, please send us that log file too.

Technical assistance can be obtained by contacting:  
the Relux payable **support hot line 0905 386 42 42** (UK only).

Calls are charged at **£1.50 per minute** at all times.

Lines are open 10am to 4pm Monday to Friday.

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