

## 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.

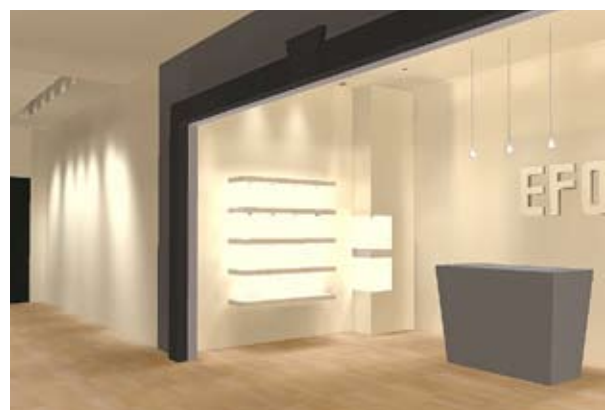
It is now easy to fully integrate fibre optic lighting with other lighting, and then to visualise the results on the screen, print them or export them to other programmes.

The Crescent fibre optic 'plug in' for Dialux can be downloaded from our website - [www.crescent.co.uk](http://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](http://www.dial.de)

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



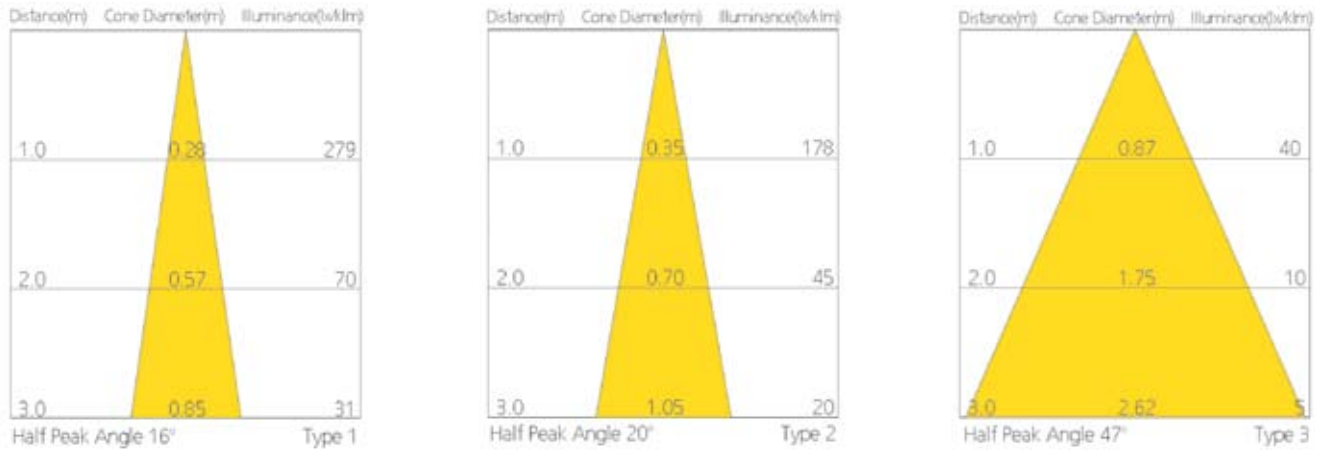
Dialux rendering of a project



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.

Illumination Calculation Table												
Lightprojector	Lamp Lumens 000's	Number of PMMA Fibre strands per fitting							No. of fibres	Port Size Correction Factor		
		3	6	12	25	37	50	75		300	450	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
	A	B	B	B	B	B	B	B		C	C	C

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.