

NAME

ltview – view photometry of a light source

SYNOPSIS

ltview [*-i*] [*-b* *boxsize*] [*-o* *device*] *input*

DESCRIPTION

ltview renders a Radiance luminaire or IES photometry interactively using *rad(1)*.

ltview accepts exactly one Radiance object or IES photometry file as input. No input is taken from STDIN. The *-i* option tells it that the input file contains IES photometry rather than a Radiance description of a luminaire. In this case, Radiance's *ies2rad(1)* is called with its default settings to convert the IES file into a Radiance object.

Unlike *objpict(1)* or *objview(1)*, no additional light sources are added to the scene, since it is assumed that the object is a luminaire.

ltview relies on Radiance's *rad(1)* command to compile an octree using *oconv(1)* and to call *rvu(1)* to display an interactive preview of the luminaire. The luminaire, or output from *ies2rad(1)*, is moved so that its center is at world origin. *ltview* then generates an open box around the fitting that is ten times as big as the largest axis-aligned dimension of the fitting. The *-y* face of the box is left open so that the camera can look inside, facing *+y*. The overall dimensions of the enclosing box may be overwritten with the *-b box-size* option. Note that both the fitting and the box are always centred at the origin.

When *ltview* is run with the *-i* option, i.e. the file is an IES photometry file, then the dimensions of the luminaire and intensity of its output are determined by *ies2rad(1)*'s default settings. If this is not acceptable, then it is best to run *ies2rad(1)* manually, and to feed *ltview* the hand-crafted fitting, rather than the IES photometry. In any case, it is likely that the initial exposure within the *rvu(1)* window window needs to be adjusted before the distribution of the fitting can be fully appreciated.

The default *rvu(1)* output device is *x11* on all platforms except for Windows, where it is set to *qt*. This may be overwritten with the *-o output* option.

EXAMPLES

To query available output devices

```
rvu -devices
```

To visualise an IES file with the qt driver

```
ltview -o qt ABC123.ies
```

To look at a typical fluorescent fitting that is modelled in millimeters

```
ltview -b 5000 XYZ_batten.rad
```

AUTHOR

Axel Jacobs

SEE ALSO

ltpict(1), *ies2rad(1)*, *oconv(1)*, *rad(1)*, *rvu(1)*