Lighting Design Software

Create working drawings of
your highway lighting schemes

TRANSOFT SOLUTIONS

KEYLIGHTS

KeyLIGHTS is an all-inclusive highway lighting software package for creating working drawings of proposed highway lighting schemes. KeyLIGHTS features a flexible roadway design tool, its own Light Calculation Engine (LCE) that automatically generates illuminance levels, and an integrated Highway Power Calculation (HPC) module to calculate all cable and fuse requirements. KeyLIGHTS' AutoCAD-based tools allow you to produce schematics and designs for all the civil works needed for streetlight installation, and its full 3D and BIM capabilities make it easy to share data-rich designs with other software.

Benefits

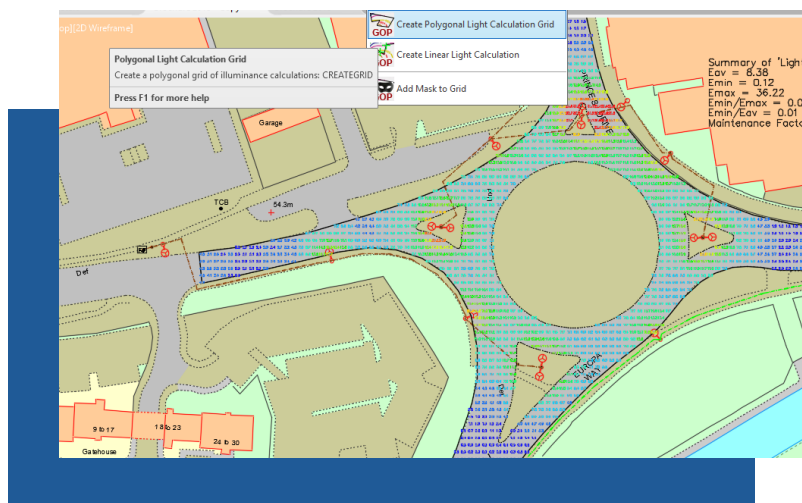## Create complete highway lighting schemes

KEYLIGHTS is a full package software that allows you to design your entire lighting and power plan along with related civil works all in one place—meaning you don't have to do cumbersome data exchange between different platforms to get the job done. Once you've completed your plan, you can easily export it for further BIM collaboration and maintenance inventory via a range of formats including CSV, IFC, GIS (SHP) or Navisworks®.

Produce detailed and accurate plans with less effort

KeyLIGHTS is a complete solution that allows you to design your entire lighting and power plan along with related civil works all in one place.

Depend on KeyLIGHTS' dynamic features to update all aspects of your design

KeyLIGHTS' data-driven system connects objects together, so if you re-work your design, connected objects such as brackets, luminaires, cables, ducts—and even annotations—remain connected and are automatically revised.

Create complete highway lighting schemes

Dynamic editing capabilities provide accuracy and flexibility, whilst offering immediate feedback and guidance, saving you time from re-working your designs.

Visualize the results in 2D and 3D

KeyLIGHTS' Light Calculation Engine (LCE) generates light levels and plots that you can view in 2D or 3D. With the built-in 3D modelling, you can create vertical illuminance grids showing light levels on buildings or sloped terrain, or check your design for driver visibility and safety through 3D driver's eye views.

Features

Complete roadway calculation design tool

KeyLIGHTS includes a full-featured roadway design tool for luminance calculations. You can create simple or complex road profiles—including any combination of verge, cycle path, hard shoulder, footway, or carriageway—at any elevation. These can be saved to the drawing as CAD objects, or as external files for collaborative design and re-use.

Establish lighting and equipment presets for data-driven design
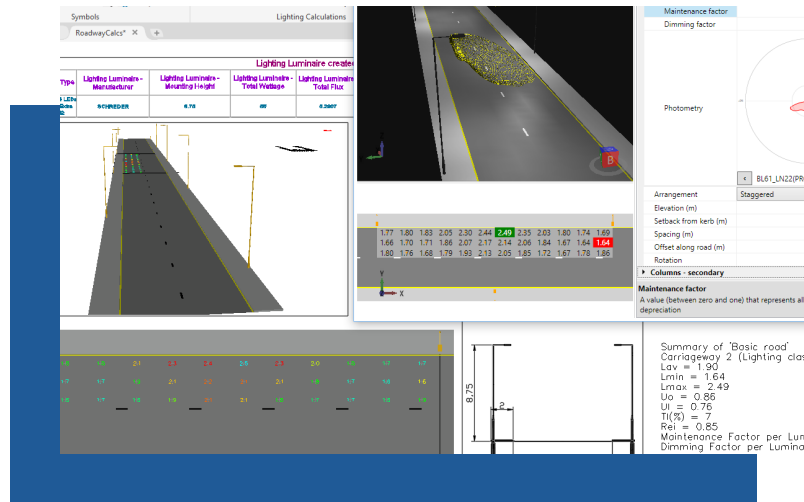
Choose from a comprehensive library or use the Light Manager dialog to build your own symbol library of lighting columns and other electrical equipment, choosing any required properties to be used as presets. Once inserted in your scheme designs, all necessary data—including photometry files, and physical characteristics such as column diameter, material, foundation dimensions, bracket outreach, and height—are stored with each symbol in the design drawing and can be easily exported for use with other programs or to support the BIM process.

3D draping and viewing

With KeyLIGHTS, both 2D designs and 3D draped layouts can be visualised quickly with the 3D view tools and Driver's Eye View functions. Additional knowledge or training is not required to create a 3D model of a road layout and scheme, and 3D draping is updated in real-time when symbols or their locations are edited.

Harness the Light Calculation Engine to generate light level plots

KeyLIGHTS' powerful Light Calculation Engine (LCE) automatically generates light levels from the photometric data files specified for your luminaire symbols, and dynamically updates levels and light contours on your design drawing if column placement is altered.

Produce vertical illuminance grids for environmental impact assessments

Easily integrate Ordnance Survey (OS) information to calculate light levels on building frontages and on the ground, including on slopes. Handy tools allow you to rotate lighting calculation grids in any plane, providing for environmental impact.

Check visibility and safety through 3D driver's eye views

KeyLIGHTS employs 3D capabilities to generate driver's eye views that can be used to assist with safety audits. Other 3D features such as buildings, walls, trees, signs, and more can be added to enhance the design drawings for presentation.

Easily calculate highway power requirements

The integrated Highway Power Calculations (HPC) module calculates all cable and fuse requirements to meet the 18th Edition IET Wiring Regulations (BS 7671), allowing you to quickly produce test schedules and schematics. KeyLIGHTS also facilitates the drawing of detailed ducting and cabling designs. Voltage drops and other electrical properties are automatically updated if your design needs to be changed to meet lighting requirements.

Effortlessly export files with built-in 3D AND BIM capabilities

Using the stored data in your design, KeyLIGHTS can rapidly generate dynamic 3D enabled models. You can also create your own custom data fields for exports to Navisworks, Industry Foundation Classes (IFC), or SHP for Esri and other GIS products.
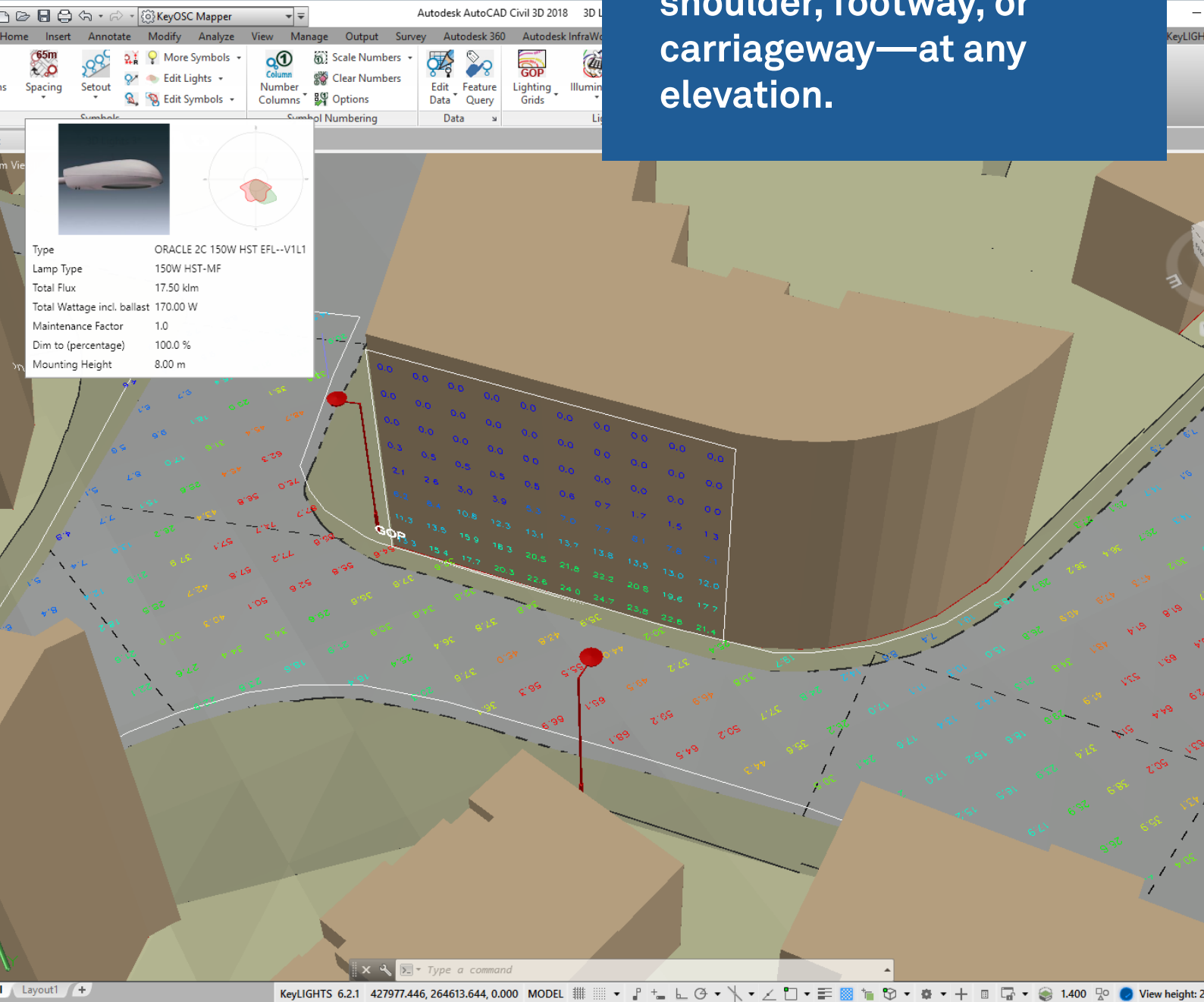
System Requirements & Supported Browsers

Supports the current and four previous versions of AutoCAD series of products.

For details on platform and system requirements, including the list of all supported versions, please visit the product compatibility page using the QR code below.

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Type	ORACLE 2C 150W HST EFL--V1L1
Lamp Type	150W HST-MF
Total Flux	17.50 klm
Total Wattage incl. ballast	170.00 W
Maintenance Factor	1.0
Dim to (percentage)	100.0 %
Mounting Height	8.00 m

Scan the code to learn more

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