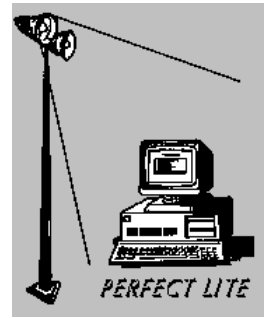


V Category - Update History

The following is a brief list of all the major changes that have taken place in the Perfect Lite – V Category software (and its predecessors, the Vehicular Traffic Lighting and SAASTAN - User Interface) since inception.



Application File: PleVcat.exe

Version 5.09 (Released – April 2013)

- 'Luminaire Library' menu item moved from under the 'File' menu to the top line menu
- allows the Vcat Library files to be saved in another location, see additional field in the 'Tools' / 'Options...' menu input screen
- addresses the issue of 'Turbo' mode getting slightly different results to SAASTAN for New Zealand spacing calculations when certain road lane widths are used
- No. of lanes per carriageway increased from 5 to 7 (10 to 14 for a 'Two Way' road) in New Zealand Mode
- addresses issue of 'Turbo' mode getting slightly different results to SAASTAN for Australia spacing calculations for multiple runs with a median
- calculation results display now shows whether SAASTAN or the VB6 emulator is used
- picks up sooner if Line Feed and/or Carriage Return (LF/CR) characters are missing from any input files and gives relevant message
- program 'PleW-VerChk' modified to scroll up from the bottom of the screen and will now indicate if the internet is not available

Version 5.08 (Released – October 2012)

- program 'PleW-VerChk' added to regularly check, via the internet, if the latest version of the software is installed. If not latest, information message will be given on how to obtain the latest.
- position of 'Carriageway Width' & 'Maintenance Factor' on output changed
- allows for a range of Carriageway Widths in Australia Mode

Version 5.07 (Released – July 2012)

- Copyright notice etc. changed to reflect sale to Constant Energy

Version 5.06 (Released April 2012)

- Minor internal changes to enhance performance

Version 5.05 (Released October 2011)

- Upcast Angle field now also included on Spacing Calculation screen allowing easier in-run changes to the upcast angle. Whenever the program is restarted, the Upcast angle will revert to the value input on the Luminaire Description screen NOT the Spacing Calculation screen.
- 'Turbo' mode added which uses a Visual Basic 6.0 emulator of the SAASTAN Fortran program to reduce calculation times
- 'Close' button on results display now made the default
- When opening a new i-table file the 'Flux' value is set to zero
- 'Lamp Wattage and Type' field now optional (not displayed on output, if blank)
- Input i-table filename can be up to 150 characters long
- Better handles resetting of default printer, if changed
- 'Multi File' mode now added to New Zealand mode
- Width of 'Multi File' mode selection screen increased
- 'Upcast' angle range changed to -5 to 45
- Includes on the spacing table output reference to AUS or NZ Mode
- Minor screen and output formatting changes

The **Perfect Lite** software for area and roadway lighting design with AS/NZS1158 compliance assistance is owned and distributed by: **CONSTANT ENERGY** Contact: Graeme Palmer
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Version 5.04 (Released June 2011)

- T5, CFL & LED light types added to luminaire description screen
- Light source text added to output
- Outreach size text omitted from output if both blank
- User Guide, Update History & Terminology accessed via PDF reader module on Help menu
- Import & Export of Library changed to remove 'PLELIBZP.exe' as does not work on WIN7
- Importing of 'old' UIS97 Library no longer supported
- Filename field (& drop-down box) in Open i-table screen increased in size
- ComboBox in Summary Listing only includes manufacturers included in the Library
- Colours corrected on NZ input screen
- Program & results display screen are now resizable
- Checks made that input CIE file contains CR/LF characters
- More error messages included when calculating UWLR
- More menu items made un-selectable in the Evaluation version

Version 5.03 (Released November 2010)

- Allows an overhang up to 36m
- Outreach fields added on input layout screen
- Compatible with 32bit and 64bit Windows PC operating systems
- Compatible with amendments in 2008 and 2009 to AS/NZS 1158.1.1 & AS/NZS 1158.2

Version 5.02 (Released November 2007)

- Includes on the results the R-table used (particularly relevant where a table other than R3 is used).
- 'Multi File Mode' added for Australia Mode where numerous I-table files can be assessed at the one time.
- Further checks to ensure input I-table is in correct CIE format.
- LTP table corrected to show appropriate lux values against Category V1 to V5.
- Checks Read/Write access is available to the user to allow program to operate correctly.
- Lengthy Path/File name for the selected luminaire is suitably wrapped on result screen & printed output.
- Allows carriageway widths up to 36 metres wide (contact Trevor Caswell if this requirement is needed).

Version 5.01 (Released November 2005)

- Bug fixed where the calculation grid across the road for Arrangements 1 to 4 with Two Way traffic (Australia mode only) would not give the maximum no. of points and locate them correctly. This had a minor impact on the calculated Average Luminance (Lbar) and the Overall Uniformity (Uo).
- Displays opposite the 'Ingress Protection Rating' field the respective maximum 'Maintenance Factor'.
- 'Luminaire Classification' field removed from the Luminaire Description input screen.
- 'Luminaire Description' and 'Lamp Wattage & Type' fields increased from 20 to 40 characters maximum.
- Some minor typographical errors fixed.
- As each STAN run is done the resultant SAAOUT file is saved and can be accessed from a new selection from the 'View' menu.

Version 5.00 (Released August 2005)

- With the introduction of **AS/NZS 1158.1.1:2005** the previous PleVTL program has now been superseded by the **V Category Lighting software** (PleVcat).
- The 'Miscellaneous' menu has been renamed to the 'Tools' menu and the 'Options' item added.
- Setting the Company Name for use in the software has been moved to the 'Options' menu item.
- The 'Options' menu now includes a new item called 'Output setup' which is used to set the left margin indent, font name & size for all output to the printer. Selection of the country, Australia or New Zealand, is also done here.
- As part of a spacing calculation a selection is required as to whether the traffic flow on the carriageway is One way or Two way as this can affect the number of calculations to be performed. For example, results may show LTPs for 'Normal' and 'Oncoming' traffic – compliance with both is necessary.
- Where New Zealand is selected as the Country, calculations are performed for both R-tables NZR2 & NZN4 and the Observer is located in centre of each lane, results for each are given.
- Where Australia is selected as the Country, calculations are generally performed with R-table CIE R3 but an alternate table can be selected. The Observer is located in the centre of the driver's

section of the carriageway i.e. half way across for one way and quarter way across for two carriageways.

- The Maintenance factor calculation screen has been modified to include inputs for the 'IP Rating' and a 'Lamp Depreciation factor'.
- A maximum Maintenance Factor of 0.8 is now allowed IP6x luminaires, for all others it is 0.7.
- When 'opening' an i-table or adding one to the Library the Luminaire Description screen now includes fields for the 'IP Rating', 'Light Source' and 'Luminaire Classification'.
- No automatic de-rating of the lamp flux is carried out for Sodium Vapour lamps as done in the P Category.
- The maximum Upward Waste Light Ratio is now reduced to 3%.
- Due to popular demand Arrangement '5s' has been added i.e. stagger on a dual carriageway road
- Format of the output has been modified to show some lines with Bold and/or Italic text.

VEHICULAR TRAFFIC LIGHTING (PleVTL.exe) (Superseded in 2005)

Version 4.01 (Released June 2004)

- A 'Tools' menu has been added which incorporates the 'Company name' and 'Manufacturer names' selections previously on the 'File' menu
- New selection added to 'Tools' menu called 'Options' - this allow formatting (font name, font size & left margin width) of printed output
- Due to access problems associated with Network security the configuration file (Plevtl-user.cfg) is now stored in the same folder as the program (NOT root folder of C drive)
- Curve spacing adjustment results can now be printed
- Bug where the 'Save As' button on the results screen did not save the results to a file has been fixed
- Program version/Date stamp on bottom of printouts has been modified slightly

Version 4.00 (Released June 2003)

- Full 32-bit Windows application incorporating many of the feature of the previous DOS based **SAASTAN - User Interface** software
- By default, the software is installed in same folder as the Pedestrian Area Lighting software (i.e. c:\Program Files\Perfect Lite)
- Now validates the Company name entered against the serial number of the software
- Routines added to Import/Export the PLEVTL Library files
- Routine added to Import the previous SAASTAN - User Interface Library
- Mode 2 automatically includes the previous F5 spacing range calculations
- The Batch Mode facility has been removed

SAASTAN - User Interface software (UIS97.exe) (Superseded in 2003)

(Previous DOS based version)

Version 3.88a (Released May 2003)

- Released with the Perfect Lite software package (Version 4.86a)
- Allows wildcard characters in the I-table filename for Mode 2 - <F5> runs only.
- Remaining calculation time display has been removed to increase speed

Version 3.88 (Released October 2002)

- Released with the Perfect Lite software package (Version 4.86)
- Performance improved when running on Windows NT/2000/XP systems
- Output layout slightly modified
- For Mode 1, 2 & 3 calculations software now warns if the I-table nominated from a file is in the IES format
- Allows output to be printed to a text file (PLE.TXT) rather than a specific printer

Version 3.86 (Released May 2001)

- Released with Perfect Lite Version 4.84
- Modified to do all printing through the Windows Print Manager
- Menu added at start of program to select printer for output
- Changes to the Help file in particular to the input fields in Mode 3

Version 3.85 (Released June 1998)

- Released with Perfect Lite Version 4.82
- Several internal changes relating to Year 2000 compliance.
- The maximum mounting height able to be input into the program has been increased to 60 metres. This allows for the use of high mast installations on very wide freeways etc.. (To use wider than the 25 metre maximum road width set in SAASTAN a specially modified version of SAASTAN is required.)
- Allows specification of a full pathname (eg. Drive letter, subdirectory, file name and extension) of photometric data files to be imported into the Library.
- Selection of files for import uses the standard DOS file dialogue box for easier operation.
- Detects the problem of SAASTAN not completing the creation of the SAAOUT file containing the calculation results on newer/faster PC's. The program reports the situation and advises of corrective action.
- UIS97.EXE is now stand alone, that is, it can be executed directly from DOS, if desired, rather than going through the normal Perfect Lite menu system. This is necessary sometimes if you get an error message, using the menu system, indicating you have 'insufficient conventional memory' to run the program.

Version 3.84 (Released April 1997)

- Released with Perfect Lite Version 4.81
- Mode 3 corrected - results only shown for nominated Observer positions NOT all 5.
- Some limiting values on input fields increased for more practical extremes
- Spacing range timing display corrected
- Illuminance design noted for radius of curvature less than 100 metres
- LTP's changed for revised standard (AS/NZS 1158.1.1-1997)
- Rounding & compliance checking done properly to 2 significant places
- 'Exit to DOS command I.....' option removed
- Summary display for Mode 2 changed to be on input screen
- 'View last SAASTAN run results' replaced by 'View last Spacing run results'
- UWLR102.EXE now referenced for Upward Waste Light Ratio
- Luminaire spacing for Mode 3 NO longer twice for staggered arrangement
- Cursor now returns to last field used after calculating for Mode 1 & 2
- Help file changed to UIS97.HLP and updated
- Initialisation file changed to UIS97.INI
- Archive/Restore option removed as not considered any real use

Version 3.83

- 'Add luminaires....' option replaced by 'Insert luminaires....'
- 'Archive/Restore' option added using PKZip style archiving routines
- MAIN MENU now referred to as USER INTERFACE MENU
- File 'SLCONFIG.DAT' now called "UIS.INI" and consists of only 8 lines (ie. Manufacturer names)
- 'Modify manufacturer names' menu option added
- 'SAAOUT' corrected so 'overhang 2' not shown if ARR=2
- Only 1 luminaire per photometric data file allowed
- Archives/Restores Batch run files as well (erases them when done)
- Picks up where GLARE CANNOT BE CALCULATED and displays appropriate message
- Disables MOUSE if file 'MOUSE.NO' found

Version 3.82

- Colour scheme passed from PLE.EXE
- Photometric I-table data print out added

Version 3.81

- Spacing runs corrected to use changed input data
- Summary of layout added to Spacing listing
- Last spacing range used are displayed when 'F5' pressed
- NZR2 (Dry) & NZN4 (Dry) road surfaces added to 'RTABLES.DAT'
- Allows I-table file name to be used in lieu of luminaire reference no.
- <F3> for luminaire list added to 'Delete/Change' screens
- <F4> for Directory list of files at various points
- 'Curve spacing adjustment' option added to main menu
- Max. median width & overhang increased to 20m

Version 3.80

- Almost totally revamped

- Uses "ESCMODE" screens for data input
- Converted to use Basic Compiler 7.1 and Probas Library fully
- Luminaire description increased to 40 characters
- Network printer Support (/LPT? option)
- Spacing range added to Mode 2
- <F3> option added to Mode 1, 2 & 3 input screens
- File 'OVERHANG' changed to 'OVER-HNG'
- Maximum no. of lights in Library changed from 300 to 200

Version 3.72

- Maximum upcast angle increased to 60 degrees
- Maximum carriageway width increased to 60 metres

Version 3.71

- Display of overhang included in summary lists

Version 3.70

- Uses Basic Compiler 7.0 and PLER-ENR library

Version 3.51

- Maximum carriageway width increased to 40m
- Maximum overhang increased to 20m

Version 3.5

- uses PROBAS routines etc.
- New menu systems using mouse

Version 3.33

- includes interface with 'CARL'

Version 3.32

- Mode 3 file format corrected

Version 3.30

- Improved menu selection

Version 3.25

- "SAAOUT" file cleared before "SAASTAN" is executed

Version 3.22

- Delayed batch execution added

Version 3.20

- Batch mode added

Version 1.0

- Original issue (1987)

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