Victoria Pride Centre

Preliminary Daylight Assessment
26_JUL 2018

METHODOLOGY AND ASSUMPTIONS

Modelling Software

The software used to perform the analysis in this report is “Integrated Environmental Services” (IES) Version 2017. IES is a software package with a unique approach to conceptual building design utilising the FlucsDL daylight calculation engine. It couples an intuitive 3D design interface with a comprehensive set of performance analysis functions and interactive information displays.

Daylight Factor Calculations

Daylight factor percentage were determined for the model building on a uniform overcast sky at the equinox at 720mm height. This condition provides a good indication of average lux levels throughout the year.

Building Form

Building form has been accounted for with all stories and shading devices.

MODELLING ASSUMPTIONS	DESCRIPTION
SOFTWARE	IES VE 2017 MODELIT AND FLUCSDL TOOLKIT
SKY	UNIFORM OVERCAST SKY WITH HORIZONTAL ILLUMINANCE OF 10,000 LUX
WORKING PLANE	720MM ABOVE FLOOR LEVEL
WINDOW DIMENSIONS	N/A
FLOOR REFLECTANCE	0.3
WALL REFLECTANCE	0.7
CEILING REFLECTANCE	0.5
ROOF REFLECTANCE	0.5
GLAZING VISIBLE LIGHT TRANSMITTANCE (VLT)	0.55 (CLEAR GLASS)

Assessment Basis

Proposed Condition - BAU Architectural drawing set issued 18_JUN 2018.

Existing Condition - Based on survey drawings prepared by Bates & Co on 21_SEP 2017.

The Bates & Co drawings provide the area for the existing canopy only. The height of the canopy was estimated as 2.1m, as viewed from Google Street View (the canopy sits just above door height).

We have modified the streetscape only for our assessment, as the rest of the building will have minimal impact on the overall daylight level on the street.

Analysis Results

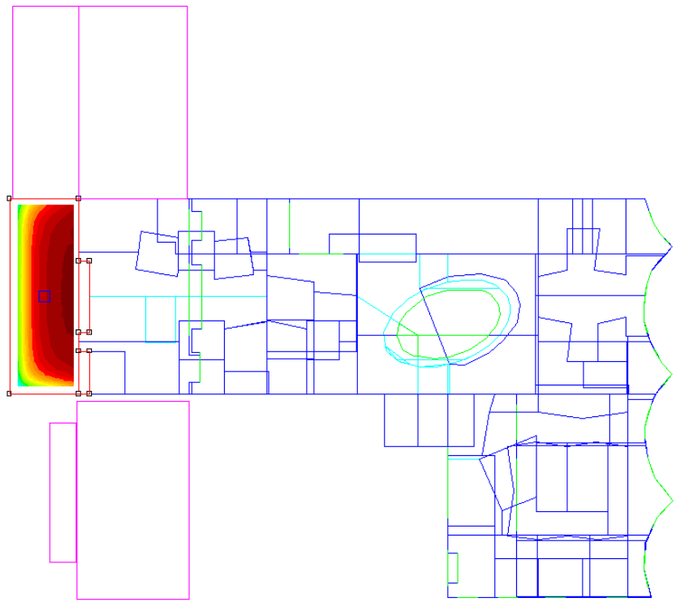


IMAGE: EXISTING BUILDING, IES MODEL

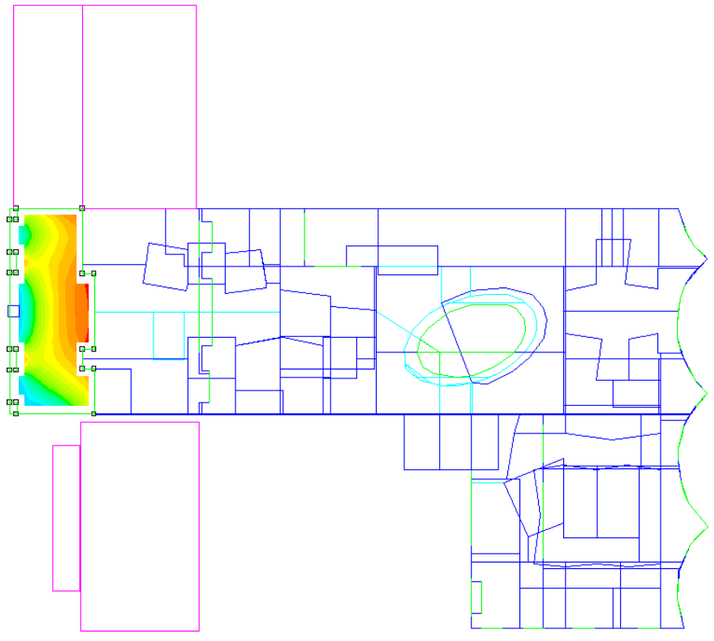
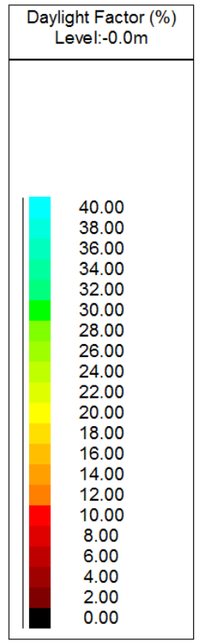


IMAGE: PROPOSED BUILDING, IES MODEL



EXISTING BUILDING

AVERAGE LUX LEVEL	1,119.66 Lux

NEW BUILDING

AVERAGE LUX LEVELS	2,361.06 Lux