

## ANALYSIS DATA

|   |   |
|---|---|
| Analysis Type                                   | Simulation  |
| Measurement system                              | Metric  |
| Dispatcher Algorithm                            | Double Deck Destination Control Traffic mode: Up peak |
| Time slice between simulation calculations (s)  | 0.10  |
| No of time slices between screen updates        | 10  |
| No of simulations to run for each configuration | 10  |
| Random number seed for passenger generator      | 1   |
| Energy Model                                    | Off   |

## BUILDING DATA

| Floor Name      | Floor Height (m) | No of people | Area (m <sup>2</sup> ) | Area/person | Entrance Floor |
|-----------------|------------------|--------------|------------------------|-------------|----------------|
| Level 1         | 3.60             | 0            | -                      | -           | Yes            |
| Level 2         | 3.60             | 0            | -                      | -           | Yes            |
| Level 3         | 3.60             | 130          | -                      | -           | No             |
| Level 4         | 3.60             | 130          | -                      | -           | No             |
| Level 5         | 3.60             | 130          | -                      | -           | No             |
| Level 6         | 3.60             | 130          | -                      | -           | No             |
| Level 7         | 3.60             | 130          | -                      | -           | No             |
| Level 8         | 3.60             | 130          | -                      | -           | No             |
| Level 9         | 3.60             | 130          | -                      | -           | No             |
| Level 10        | 3.60             | 130          | -                      | -           | No             |
| Level 11        | 3.60             | 130          | -                      | -           | No             |
| Level 12        | 3.60             | 130          | -                      | -           | No             |
| Level 13        | 3.60             | 130          | -                      | -           | No             |
| Level 14        | 3.60             | 130          | -                      | -           | No             |
| Level 15        | 3.60             | 130          | -                      | -           | No             |
| Level 16        | 3.60             | 130          | -                      | -           | No             |
| Level 17        | 3.60             | 130          | -                      | -           | No             |
| Level 18        | 3.60             | 130          | -                      | -           | No             |
| Level 19        | 3.60             | 130          | -                      | -           | No             |
| Level 20        | 3.60             | 130          | -                      | -           | No             |
| Absenteeism (%) | 0.00             |              |                        |             |                |

## ELEVATOR DATA

|                                  |             |
|----------------------------------|-------------|
| No of Elevators                  | 6           |
| Type                             | Double Deck |
| Capacity (kg)                    | 1600        |
| Car area (m <sup>2</sup> )       | 3.56        |
| Door Pre-opening Time (s)        | 0.00        |
| Door Open Time (s)               | 1.80        |
| Door Close Time (s)              | 2.90        |
| Speed (m/s)                      | 3.15        |
| Acceleration (m/s <sup>2</sup> ) | 1.00        |
| Jerk (m/s <sup>3</sup> )         | 1.60        |
| Start Delay (s)                  | 0.50        |
| Levelling Delay (s)              | 0.00        |
| Home Floor                       | Level 1     |

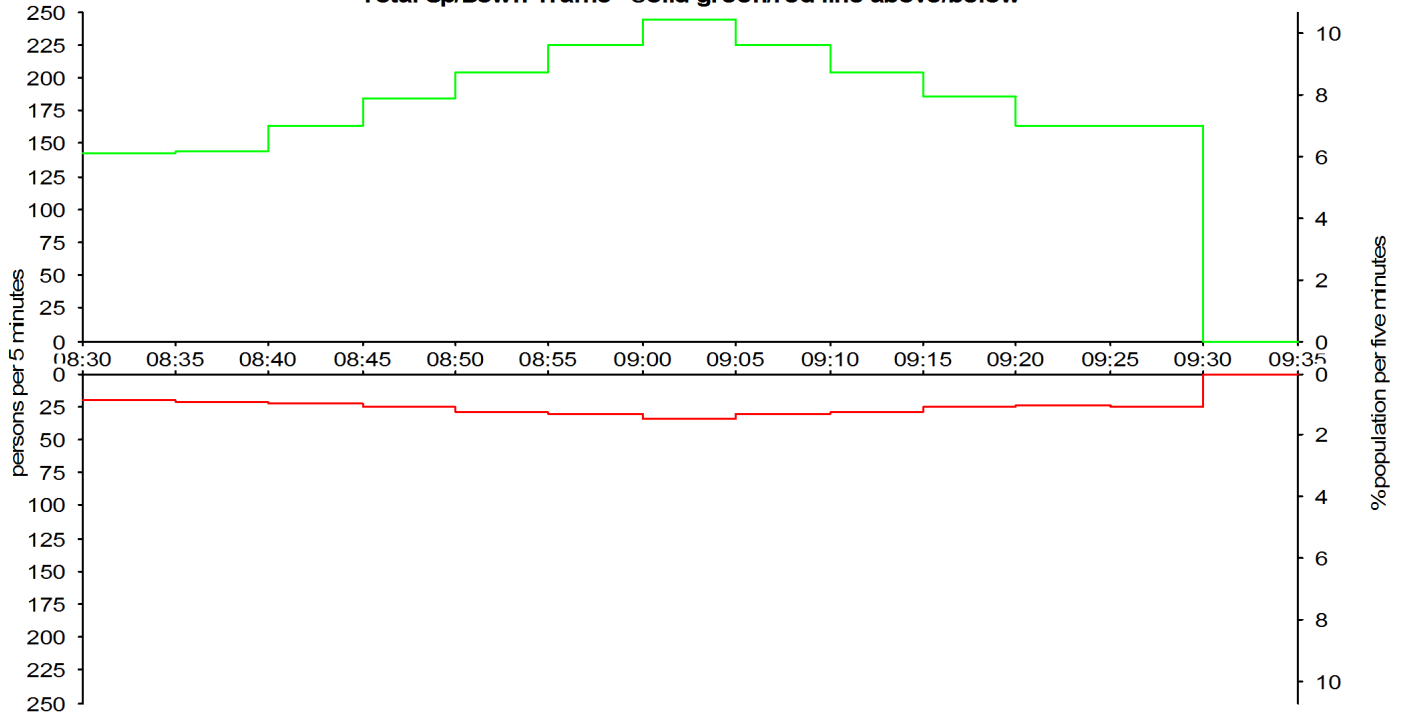
## PASSENGER DATA

|                                  |   |
|----------------------------------|---|
| Arrangement                      | Double Deck with no odd to even floor traffic |
| Template                         | Peters Research (CIBSE) modern office up peak |
| Passenger Mass (kg)              | 75  |
| Passenger Area (m <sup>2</sup> ) | 0.21  |
| Loading Time (s)                 | 1.20  |
| Unloading Time (s)               | 1.20  |
| Stair Factor (%)                 | 0.00  |
| Capacity Factor by Mass (%)      | 80.00   |
| Capacity Factor by Area (%)      | 100.00  |
| Floor Name                       | Entrance Bias                                 |
| Level 1                          | 100.00  |
| Level 2                          |   |

6 No. 1600 kg elevators @ 3.15 m/s  
Average of all runs

### Passenger Demand

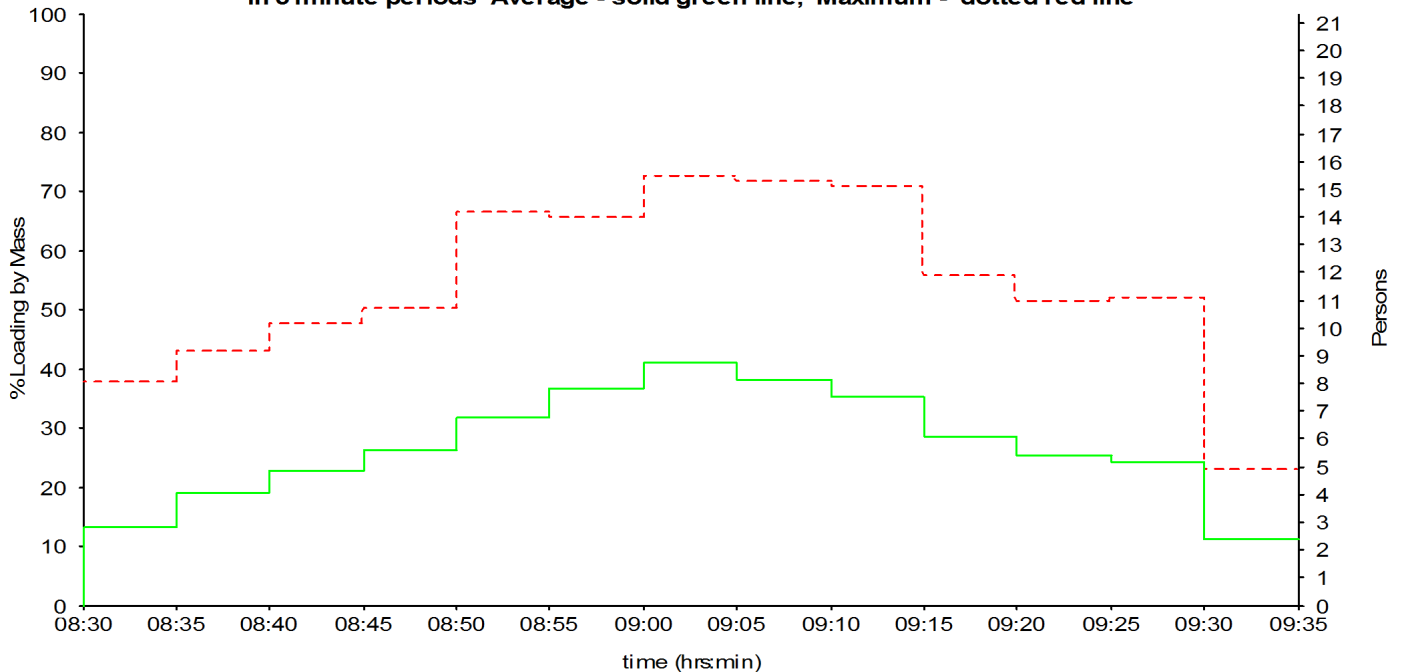
Total Up/Down Traffic - solid green/red line above/below



6 No. 1600 kg elevators @ 3.15 m/s  
Average of all runs

### Car Loading on Departure from Home Floor

in 5 minute periods Average - solid green line, Maximum - dotted red line

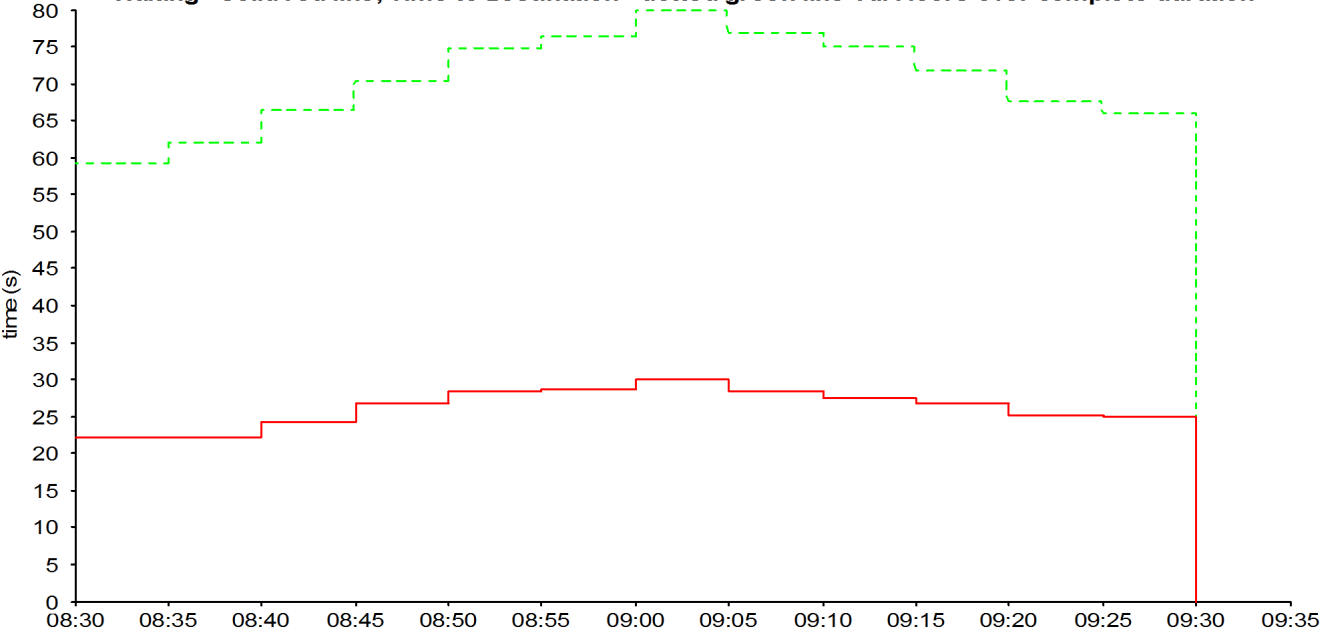


Worst Average Capacity Factor by Area during any 5 min period (%) 51.6

6 No. 1600 kg elevators @ 3.15 m/s  
Average of all runs

**Average Waiting and Time to Destination**

Waiting - solid red line; Time to Destination - dotted green line All Floors over complete duration



time (hrs:min)  
Worst Average Waiting Time during any 5 min period (s) 30.0  
Worst Average Transit Time during any 5 min period (s) 49.9