

Poster & paste

Night-time white simulation

A simulation was produced, in order to provide optimum Luminance data to assist in the comparison between the two billboard systems. This was necessary in order to obtain luminance values for the “perfect” LED installation.

Simulation data

Panel size: 6m x 3m
 Luminaire: Portland Lighting Ecolux Mini Cool
 Luminaire stand-off: 600mm
 Zero ambient light

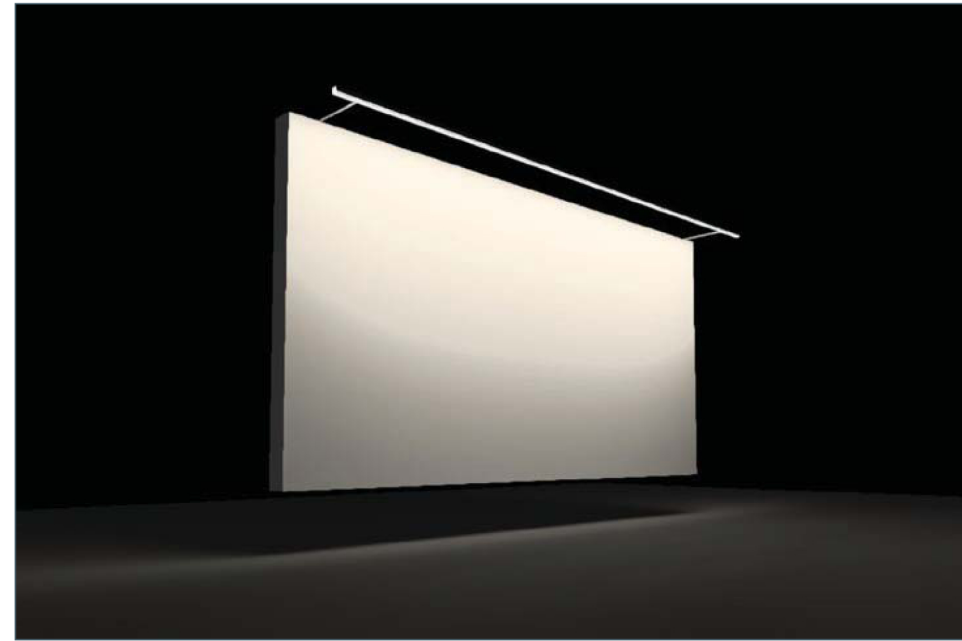
Luminance results

Minimum: 4.96 cd/m²
 Maximum: 197 cd/m²
 Average: 56.0 cd/m²

Comments

The illumination of top-lit advertising panels produces inconsistent results, with the top of the panel being relatively bright, and then light output sharply dropping off towards the bottom edge. As a result, average Luminance readings, whilst useful, are not particularly indicative of the visual impact of lit displays.

Taking the maximum reading as the “point of maximum visual impact”, it is clear that in order for the D-Poster to closely mimic the visual impact of the Poster & Place system, it will have to be controlled to achieve a Luminance reading of less than 197 cd/m². The testing results show, that with so many dimming levels available to the control unit, the Luminance levels can easily be set to this level and, in fact, well below it.



Isolines [cd/m²]

