

Title (en)

Performance optimisation method of LED lighting devices

Title (de)

Verfahren zur Leistungsoptimierung von LED-Beleuchtungsvorrichtungen

Title (fr)

Procédé d'optimisation de débit de dispositifs d'éclairage LED

Publication

**EP 1945007 B1 20120919 (EN)**

Application

**EP 07100432 A 20070111**

Priority

EP 07100432 A 20070111

Abstract (en)

[origin: EP1945007A1] The invention relates to methods for optimising the performance of, for manufacturing and/or for controlling (street) lighting devices involving multiple LED-light sources within a common frame, in which specific LED-light sources are selected from a plurality of types of LED-light sources, specific secondary optics are selected from a plurality of types of secondary optics, for each selected LED light source, and specific orientations are selected for each of those LED-light sources and/or secondary optics, variables representing the light distribution in function of direction coordinates are associated to each LED light source and its secondary optics, and simulations of cumulative variables for multiple combinations of selected LED-light sources, selected secondary optics and selected orientations, are compared, using software assisted calculations, with selected global light distributions, so as to designate combinations of selected LED-light sources, selected secondary optics and selected orientations showing an optimal fit with said selected global light distributions, as well as to street lighting apparatus implementing these methods.

IPC 8 full level

**H05B 37/02** (2006.01)

CPC (source: EP US)

**F21K 9/00** (2013.01 - EP US); **F21S 8/08** (2013.01 - EP US); **F21W 2131/103** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

EP2133622A1; EP2177812A1; ITBA20090011A1; EP2365740A3; WO2011154756A3; WO2009107085A3

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