

Title (en)  
EXTREME CUTOFF BEAM CONTROL OPTICS

Title (de)  
OPTIK ZUR STEUERUNG EINES EXTREM-ABSCHNEIDUNGSSTRAHLS

Title (fr)  
OPTIQUE DE COMMANDE DE FAISCEAU DE COUPURE EXTRÊME

Publication  
**EP 4239244 A1 20230906 (EN)**

Application  
**EP 23160000 A 20230303**

Priority  
• US 202217686799 A 20220304  
• US 202263356130 P 20220628

Abstract (en)  
An optical assembly and a luminaire with extreme cutoff beam control optics. The optical assembly includes a base, a plurality of lenses, a plurality of light emitting diodes (LED) positioned to emit light into the lenses, and a reflector having a reflective surface disposed adjacent at least one of the plurality of LEDs. The optical axis of one or more of the LEDs may be offset from a central axis of the respective lens in which it emits light. The reflective surface of the reflector may extend from the base over the one or more of the LEDs and beyond the optical axis of the one or more LEDs to direct light in a desired direction or toward a selected area (e.g., a street) and cut off light directed in an undesirable direction or area (e.g., a house).

IPC 8 full level  
**F21V 7/00** (2006.01); **F21S 8/08** (2006.01); **F21V 5/00** (2018.01); **F21V 7/04** (2006.01); **F21V 11/00** (2015.01); **F21V 13/04** (2006.01); **F21W 131/103** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP)  
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Citation (search report)  
• [XYI] WO 2019215265 A1 20191114 - SCHREDER SA [BE]  
• [XYI] EP 1988576 A1 20081105 - RUUD LIGHTING INC [US]  
• [Y] CA 2630114 A1 20091029 - PEARSE MICHAEL R [CA]  
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