

Title (en)
REFLECTOR FOR LIGHTING SOURCE AND LIGHTING DEVICE COMPRISING THE SAME

Title (de)
REFLEKTOR FÜR BELEUCHTUNGSQUELLE UND BELEUCHTVORRICHTUNG DAMIT

Title (fr)
RÉFLECTEUR POUR LA SOURCE LUMINEUSE ET DISPOSITIF D'ÉCLAIRAGE LE COMPRENANT

Publication
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Application
EP 17275096 A 20170703

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Abstract (en)
[origin: EP3312502A1] The present invention provides a reflector (100, 400) intended for lighting source comprising a reflector body (110) having reflective side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D), a top opening (120, 420) and a bottom opening (140, 440). An inner surface of the side wall (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) is configured to be a light-reflective parabolic surface (432), a parabola of the light-reflective parabolic surface (432) having two end points and a parabola vertex, the parabola vertex being closer to the top opening (120, 420) with respect to the bottom opening (140, 440), a height between a connection line connecting the two end points of the parabola and the parabola vertex being a height H of the parabola. A ratio h/L of a height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to a length L of the bottom opening (140, 440) is between 0.4 and 0.7, a ratio h/H of the height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to the height H of the parabola is between 0.55 and 0.75, and a ratio h/l of the height h of the side walls (130A, 130B, 130C, 130D, 430A, 430B, 430C, 430D) to a length l of the top opening (120, 420) is between 0.3 and 0.55. The present invention also provides a lighting device (500) comprising the above reflector (100, 400), which is able to reduce the Unified Glaring Rating (UGR) while maintaining high luminous efficiency.

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Cited by
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