

Title (en)
REFLECTOR FOR A STREET LAMP

Publication
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Application
EP 83100353 A 19830117

Priority
DE 3203221 A 19820201

Abstract (en)
[origin: EP0085336A1] 1. A reflector for a street-lamp, shaped like a hood symmetrical to a main plane (H) and associated with a bulb-shaped lamp (L) whose longitudinal axis is arranged on the intersection line between main plane (H) and a transverse plane (Q) at right angles thereto, and so determines the zero point (O) of a coordinate system (x, y) in a reference plane (B) at right angles to the main and transverse planes, said reflector having two halves which are symmetrical with respect to the main plane (H) and rest against each other in a common limiting curve (KO) and respectively consist of three cup-shaped reflecting zones (1, 2, 3), namely a central reflecting zone (1) and two lateral reflecting zones (2, 3) so arranged that only the light reflected from the central reflecting zone (1) crosses the main plane (H) and the common limiting curve (K1, K2), in which each of the lateral reflecting zones (2, 3) borders on the central reflecting zone (1) in an intersection plane (S2, S3) at right angles to the reference plane (B), characterized in that each reflecting zone (1, 2, 3) is a section from a body of rotation having a rotational axis (M1, M2, M3), at right angles to the reference plane (B), and a generatrix (E1, E2, E3) which at least in the third adjacent to the reference plane (B) approximates a parabolic or circular course, that the intersection planes (S2, S3) together with the transverse plane (Q) form an acute setting angle (α_2 , α_3) of different value and sign between the central reflecting zone (1) and the adjacent lateral reflecting zones (2, 3), that the Y-coordinate of the rotational axis (M1) of the central reflecting zone (1) is negative, and that the following value, within a tolerance of $\pm 10\%$, are valid for the coordinates of the rotational axes (M2, M3) and the rotational radius (r2, r3) of the lateral reflecting zones (2, 3) in the reference plane (B) Reflecting Zone 2 3 X/D 0.28 1.04 Y/D -0.23 1.18 r/D 0.56 1.78 where D, the maximal diameter of the reflector in the reference plane (B), lies below 300 mm, and preferably has a value of 220 mm $\pm 5\%$.

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