



Refractive Emission Technology

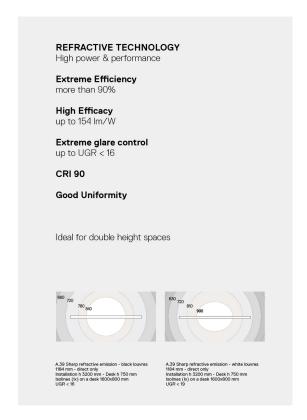
Refractive emission's patented optical technology was developed to achieve maximum efficiency on a small scale, in compliance with the regulation for the lighting of workspaces. The lens is especially designed to intercept 100% of the flux emitted by the LED and control it with minimum dispersion so as to ensure more than 90% efficiency and an efficacy of up to 154 lm/W.

The lens is the primary optical system that collects and redirects the flux without intercepting the geometry of the cell in which it is inserted, thus avoiding a deterioration in performance in terms of quantity and quality of light emission. The small cells, in which the LED and lens are inserted, act only as screens to avoid direct viewing of the source from certain angles but do not affect the flux emitted, leaving a clean, pure light, whose characteristics are defined solely by the primary optics.

The refractive technology therefore guarantees **perfect glare- free perception with UGR up to <16**, with a level of lighting that is compliant with the regulations for office spaces.



A.39 Sharp Refractive Emission - Carlotta de Bevilacqua



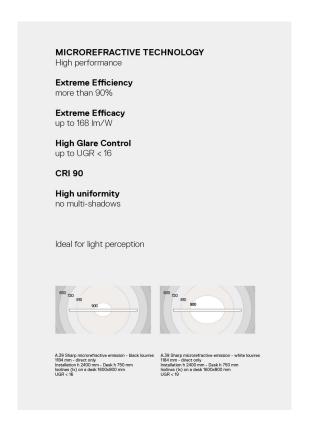


Microrefractive

A cell of Refractive houses four cells of Microrefractive. This reduction in scale has led to an improvement in efficacy to 164 lm/W and an enhancement in uniformity by totally eliminating the multi-shadow effect.



A.39 Sharp Microrefractive Emission - Carlotta de Bevilacqua



Refractive technology is particularly suitable for environments where light perception is crucial and ideal for applications requiring a high level of visual accuracy and a high ability (CRI > 90) to correctly represent the colours of the objects it illuminates.

Refractive Technology products



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