

Indoor architectural & general lighting



EN 1838 compliant Emergency Exit Route Lighting

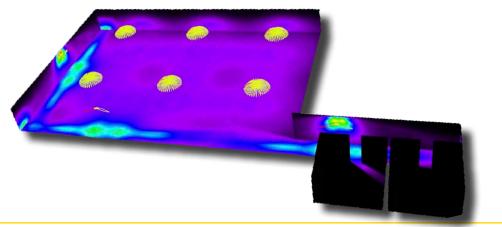
Application requirements

Target application: Target dimensions: Illuminance Requirements: Emergency Exit Route Lighting Office space

EN 1838 compliant illuminance levels on the exit routes and anti-panic areas.







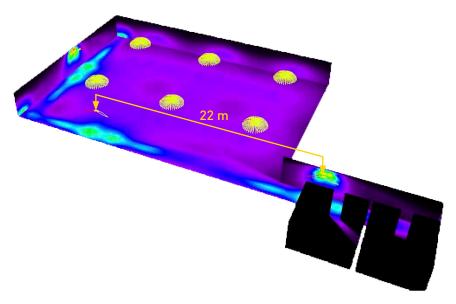
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LEDIL

Application simulation



Exit routes are lit with LEDiL's EMERALD-A lens optimized for emergency lighting. Extremely wide and narrow beam pattern makes it possible to mount exit light fixtures with a height/distance ratio higher than 1:7.

Anti-panic lighting of the open area is done with the SIRI-A lens using only six lighting fixtures.

High efficiency and application optimized light distributions of these optics make them perfect choice for exit route and anti-panic lighting applications powered with back-up batteries.

Simulated results:

Exit route lighting

Optic used: CA13156_EMERALD-A Power / fixture: 1,5 W Luminous flux: 180 lm Installation height: 3 m Escape route central axis Illuminance uniformity: 1:3,24 Central axis illuminance (E_{min}): 1,47 lx Simulated exit route lighting complies with the EN 1838 demands regarding:

- Uniformity ratio better than 1:40
- Minimum central axis floor level illuminance (E_{min} >1 lx along the central axis).

Anti-panic lighting

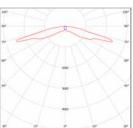
Optic used: C12473_SIRI-A Power / fixture: 1 W Luminous flux: 130 lm Area lit: 404 m² Illuminance uniformity: 1:5 Minimum illuminance (E_{min}): 0,54 lx Simulated anti-panic lighting complies with the EN 1838 demands regarding minimum illuminance levels (E_{min} >0,5 lx) and uniformity (better than 1:40) with only six fixtures and power levels suitable for systems powered with emergency batteries.

Optics used

CA13156_EMERALD-A

Optimized for exit route lighting

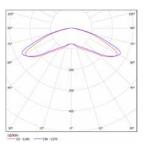
- FWHM: 158° x 78°
- Good efficiency: 94%
- Extremely wide beam pattern with narrow vertical cutoff
- Optimized light distribution for exit route lighting compliant with EN 1838 standard
- Cost effective solution
- Diameter: 21,6 mm
- Height: 6,9 mm



Wide and uniform area light in small package suitable for lighting of the anti-panic

C12473 SIRI-A

- areas with good efficiency
 Very wide batwing light distribution over large areas
- Dimensions: 13,9 x 13,9 mm
- Height: 4,2 mm



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