

## High Bay Warehouse Lighting

## Application requirements

Target application: High B

Ceiling height:

Warehouse dimensions:

Shelf height: Aisle width:

Design goal:

High Bay aisle lighting

14 meters

70 x 47 meters

13 meters 3 meters

100 lx at floor level<sup>1]</sup>.

equal illumination on shelf frontal faces

Optics used: CA13057\_FLARE-MINI-AD

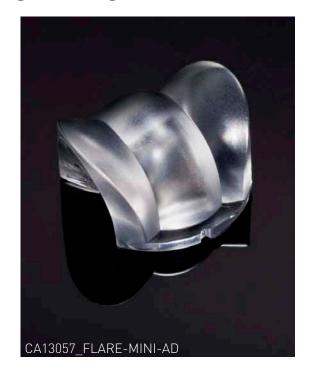
• Diameter: 16 mm

• Height: 8,6 mm

• Viewing angle 100°+20°

• Designed for LEDs from Cree, Nichia, Seoul, Osram

and Philips Lumileds

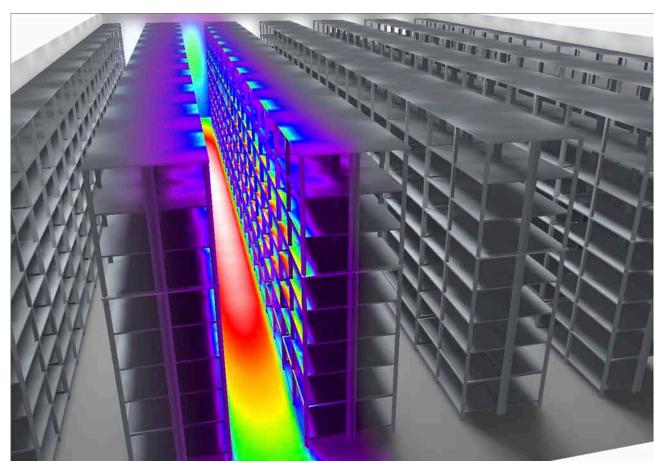


1) Floor under the shelves is not included in the calculations.



Industrial lighting





## Solution with FLARE-MINI-AD

Luminaire installation height: 14 meters Luminaire spacing: 6 meters Luminaires are installed on the aisle centerline

Number of luminaires: 66 pcs

Number of LEDs / luminaire: 25 pcs @ 1000 mA Power consumption / luminaire: approx. 70W

Avg. illuminance at floor level: ≈100 lx

Illuminance uniformity on

the shelf vertical face (Emin/Eavg): better than 0,5

Total power consumption:  $4,6 \text{ kW} (\approx 1,9 \text{ W/m}^2)$ 

Approximated energy savings when compared to conventional

fluorescent lighting: ≈40%

- Luminaire installation height: 14 m
- Installed in the aisle centerline
- Fixture luminous flux 6200 lm
- LED luminous flux 7000 lm