



PETROLED

BELBOTED

PETROLED

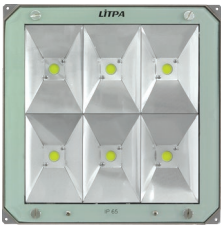
LITPA



# PETROLED

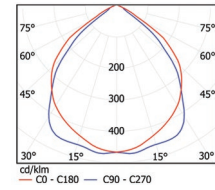
IP65

## PTL/S

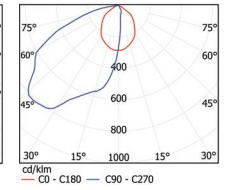


Body : Injected aluminium  
 Diffuser: Impact-resistant, tempered and ground screen printed glass  
 Reflector: Vacuum anodized Micro-Silver aluminium from Alanod with a reflectivity index of 97%. Symmetrical and asymmetrical options.  
 LED: High Efficient COB LED

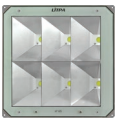
Symmetrical 100W



Asymmetrical 100W



## PTL/AS



Code	System Power (W)	Total Light Flux
PTL 40/S	40W	4,500 lm
PTL 40/AS	40W	4,500 lm
PTL 60/S	60W	6,500 lm
PTL 60/AS	60W	6,500 lm
PTL 80/S	80W	8,500 lm
PTL 80/AS	80W	8,500 lm

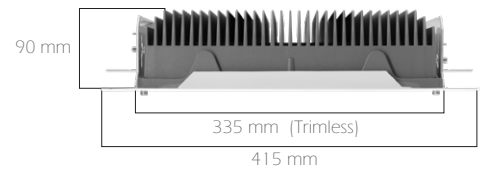
## Recessed Type Accessories

### PTL/GA



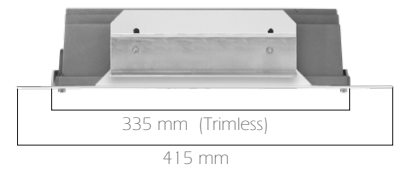
Flush Frame: Aluminum injection frame is painted with 80mm thick power coating.

Code	Description
PTL/GA	Frame

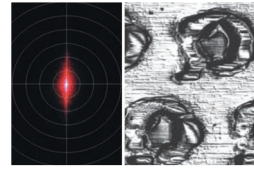
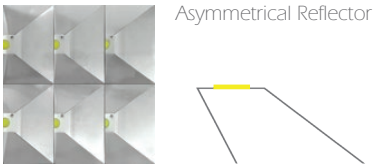
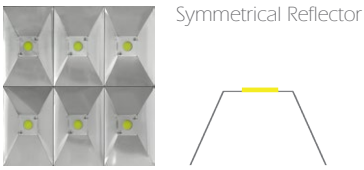


Mounting Brackets: Made of anti-corrosion galvanized material.

Code	Description
PTL/BA	Mounting Brackets



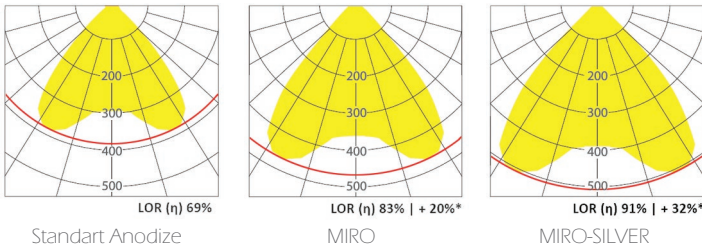
# Reflector



MIRO - SILVER 85 / 8510 AG:  
 ■ Low diffuse reflection  
 ■ Decreasing brightness values at flat angles



## Anodized Reflector Comparison



The left diagram shows the comparison of reflectors with the same shape and beam spread and shows the variation in aluminium types. Although the optical diffusion differences between the standard anodized aluminium (3506), Miro-Aluminium and Miro-Silver aluminium that are manufactured by Alanod show similar characteristics, there are major light efficiency differences. The improved efficiency of Miro-Silver is 32% higher than of standard anodising. For purposes of maximizing the efficiency of LITPA LED fixtures we use Miro-Silver aluminium.

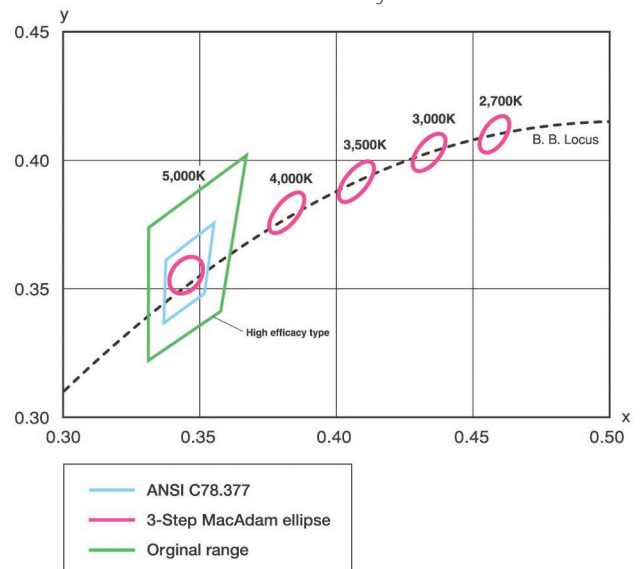
Product	Quality	Total Reflection %	Reflector material efficiency class
MIRO-Silver 85 Erotex	8510 AG	≤97	<b>A+</b>

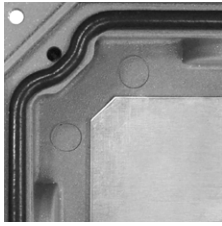
# LED



- High quality COB (Chip On Board) LEDs
- Different colour temperatures available

## Chromaticity

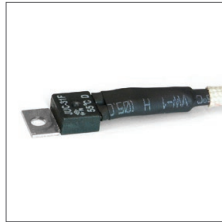




PETROLED fixtures are compliant with protection class IP66. A liquid cast polyurethane seal of uniform thickness provides maximum security against leaks thanks to its homogeneous compressive strength between the glass and body.



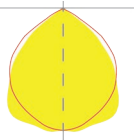
LITPA PETROLED fixtures utilise highly efficient long-lasting COB (Chip On Board) LEDs.



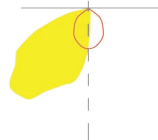
LITPA PETROLED luminaires are thermally protected in order to avoid damage due to ambient temperature or electrical problems. If the thermal level determined is exceeded, the special thermal protection system is activated protect the LED and driver unit from damage.

Optical system: The PETROLED is equipped with highly efficient Alanod-Micro-Silver reflectors. Symmetrical and asymmetrical reflectors can be chosen depending on the required application.

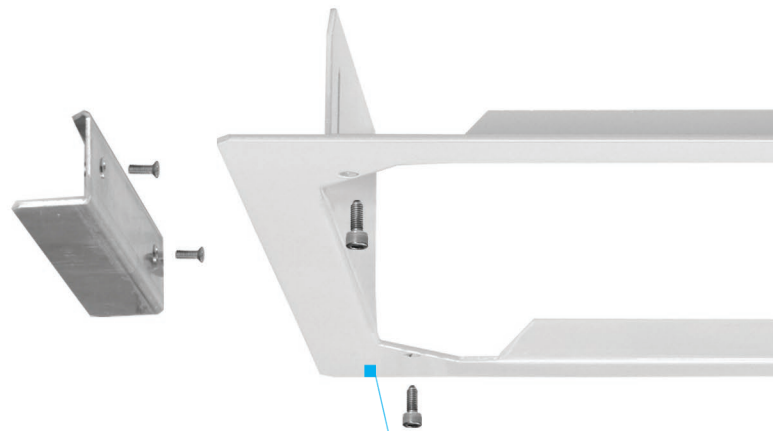
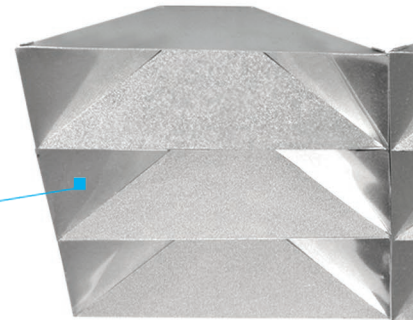
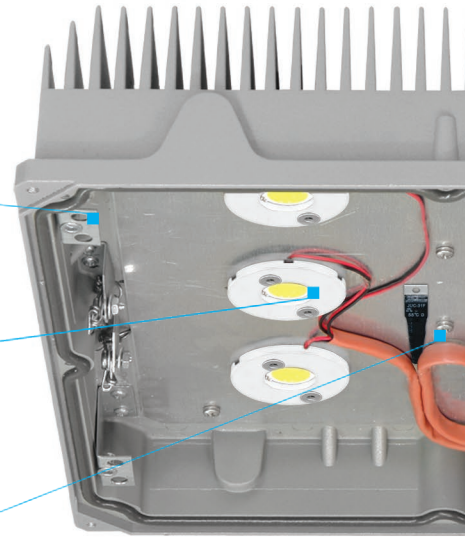
Symmetrical



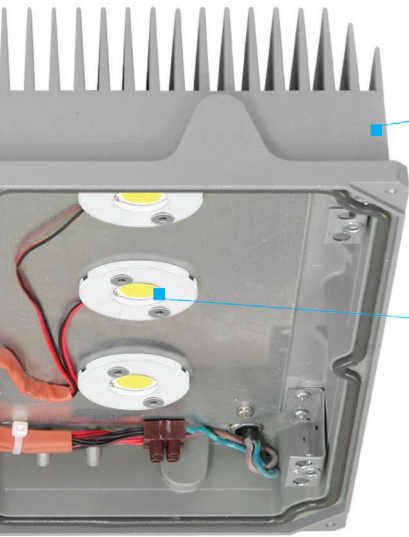
Asymmetrical



The special tempered glass is attached to the body at two points to provide additional security against falling. Furthermore, this construction allows access to the internal structure with no need for disassembly of the fixture.

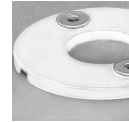


Luminaire Frame: For flush mounting, providing an aesthetic appearance with...

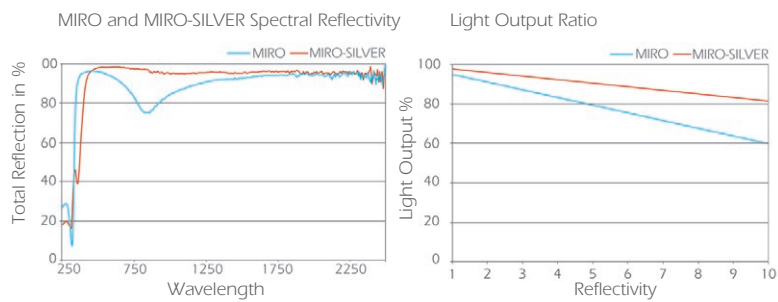
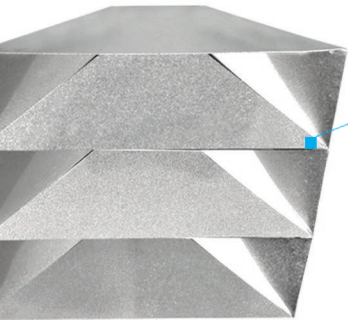
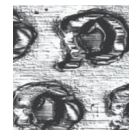


**Body:** The body is shaped by injection of aluminum into the mould. Aluminum is an anti-corrosion element with high level of thermal conduction and low level of specific weight. These material properties have direct positive effects on lifetime of LEDs thanks to the multiple cooling channels on the body.

**High efficiency COB LEDs** are secured by means of the fastening elements that have been developed by LITPA. Bergquist thermal bonding material is applied between the LED and the aluminium surface conducts the heat to the heat sink under with optimum efficiency.

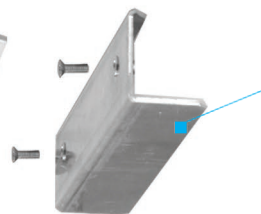


The Micro-Silver reflector pattern developed by Alanod to increase the luminaire efficiency has a reflectivity of up-to 97% in the visible part of the spectrum. The reflector surface is 99.95% covered with silver by means of vacuum anodic oxidation.



**Glass Installation Bushes:** These are sealing bushes made of special material fitted between glass fixing screws and front optic glass as to provide IP66 protection.

**Diffuser:** Impact-resistant, tempered and ground silk-screen printed glass



**Mounting Brackets:** Installed on both sides of the frame ensure that the frame is tightly secured to ceilings of any thickness. Captive nuts in the brackets allow for easy installation. The brackets are made of anti-corrosion galvanized material for long life.

des quick and easy mounting in the ceiling  
n minimal gap.

L I T P A

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