

## Laser Pinhole

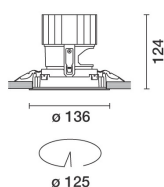
Design iGuzzini

iGuzzini

Last information update: April 2025

### Product configuration: P446

P446: recessed adjustable



### Product code

P446: recessed adjustable

### Technical description

Round adjustable luminaire designed for housing 3000K Warm White COB LED light sources with high colour rendering and OPTIBEAM reflector made of thermoplastic material. Rim made of white-coated die-cast aluminium, upper barrel made of black-coated thermoplastic for guaranteeing maximum visual comfort and preventing stray light dispersion, black-coated extruded aluminium heat sink. Medium optic. Adjustable internally around the horizontal axis by 35° and around the vertical axis by 358°. Passive cooling system. Product inclusive of electronic components.

### Installation

Recessed installation in false ceilings with 1 mm to 20 mm thickness with steel springs.

### Colour

White (01)

### Weight (Kg)

1.3

### Mounting

ceiling surface

### Wiring

Product inclusive of electronic components.

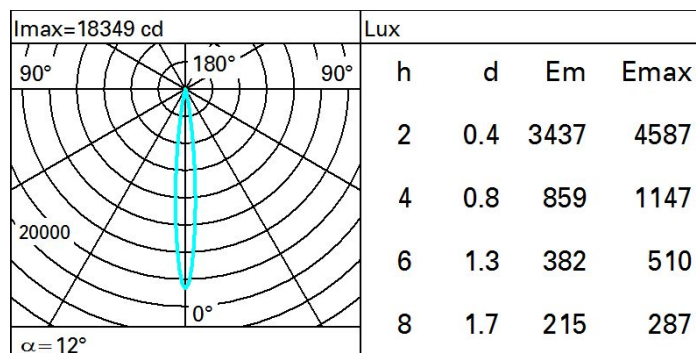
Complies with EN60598-1 and pertinent regulations



### Technical data

lm system:	960	CRI (minimum):	90
W system:	21	Colour temperature [K]:	3000
lm source:	2000	MacAdam Step:	2
W source:	18	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	45.7	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	48	Number of optical assemblies:	1
Beam angle [°]:	12°		

### Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	43	41	40	38	41	39	39	38	78
1.0	45	43	42	41	43	41	41	40	83
1.5	47	46	45	44	45	44	44	42	88
2.0	49	48	47	46	47	46	46	45	93
2.5	50	49	48	48	48	48	47	46	96
3.0	50	50	49	49	49	49	48	47	98
4.0	51	51	50	50	50	50	49	48	99
5.0	51	51	51	51	50	50	49	48	100

Luminance curve limit

