

## Laser Pinhole

Design iGuzzini

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Last information update: May 2018



recessed adjustable

**Product code**  
P445

### Technical description

Round adjustable luminaire designed for housing 3000K Warm White COB LED light sources with high colour rendering, featuring OPTIBEAM LENS technology suitable for narrow and well-defined light cones. 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. Spot 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.

**Dimension (mm)**  
Ø136x138

**Colour**  
White (01)

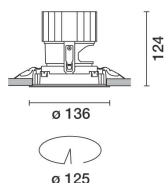
**Weight (Kg)**  
1.3

**Mounting**  
ceiling surface

### Wiring

Product inclusive of electronic components.

Complies with EN60598-1 and pertinent regulations



### Product configuration: P445

#### Product characteristics

Total lighting output [Lm]: 576  
Total power [W]: 17  
Luminous efficacy [Lm/W]: 33.9  
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

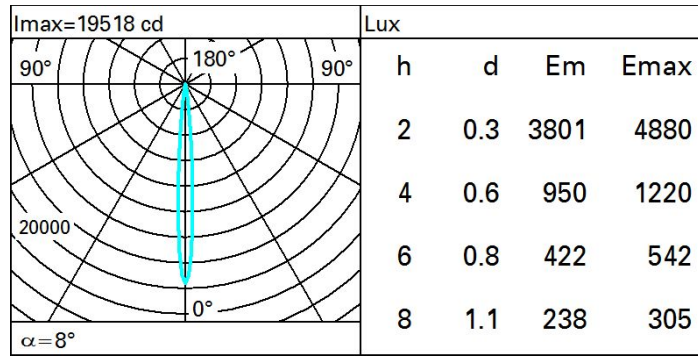
Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

#### Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 48  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 15  
Nominal luminous [Lm]: 1200  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 8°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 2  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 3

**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**

