

## Laser Pinhole

Design iGuzzini

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recessed adjustable

**Product code**  
P462

### Technical description

Round adjustable luminaire designed for housing 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. Wide flood optic. Adjustable internally around the horizontal axis by 35° and around the vertical axis by 358°. Passive cooling system. Product inclusive of DALI components.

### Installation

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

**Dimension (mm)**  
Ø136x124

**Colour**  
White (01)

**Weight (Kg)**  
1.3

**Mounting**  
ceiling surface

### Wiring

Product inclusive of DALI components.

Complies with EN60598-1 and pertinent regulations



### Product configuration: P462

#### Product characteristics

Total lighting output [Lm]: 1557  
Total power [W]: 29  
Luminous efficacy [Lm/W]: 53.7  
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.) [%]: 52  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 26  
Nominal luminous [Lm]: 3000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 38°

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

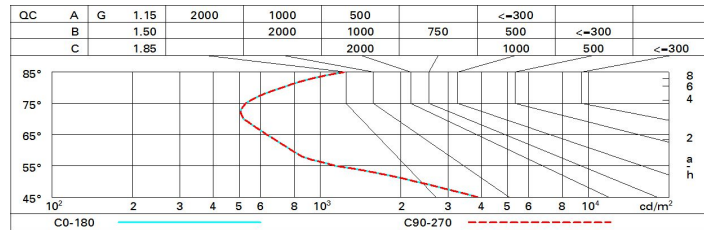
#### Polar

Imax=3982 cd		CIE		Lux			
90°	180°	nL 0.52	99-100-100-100-52	h	d	Em	Emax
		UGR <10-10	DIN	2	1.4	790	995
		A.61	UTE	4	2.8	197	249
		0.52A+0.00T	F*1=993	6	4.1	88	111
		F*1+F*2=999	F*1+F*2+F*3=1000	8	5.5	49	62
		CIBSE	LG3 L<1500 cd/m² at 65°				
		UGR<10   L<1500 cd/mq @65°					
α=38°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	47	44	43	41	44	42	42	40	78
1.0	49	47	45	44	46	45	45	43	83
1.5	51	50	48	47	49	48	47	46	88
2.0	53	52	51	50	51	50	50	48	93
2.5	54	53	52	52	52	52	51	50	96
3.0	54	54	53	53	53	53	52	51	98
4.0	55	55	54	54	54	54	53	51	99
5.0	55	55	55	55	54	54	53	52	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x            y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
viewed crosswise						viewed endwise					
2H	2H	10.4	10.9	10.6	11.1	11.4	10.4	10.9	10.6	11.1	11.4
	3H	10.2	10.7	10.5	11.0	11.3	10.2	10.7	10.5	11.0	11.3
	4H	10.2	10.6	10.5	10.9	11.2	10.2	10.6	10.5	10.9	11.2
	6H	10.1	10.5	10.4	10.8	11.2	10.1	10.5	10.4	10.8	11.1
	8H	10.1	10.5	10.4	10.8	11.1	10.0	10.5	10.4	10.8	11.1
	12H	10.0	10.4	10.4	10.8	11.1	10.0	10.4	10.4	10.7	11.1
4H	2H	10.2	10.6	10.5	10.9	11.2	10.2	10.6	10.5	10.9	11.2
	3H	10.0	10.4	10.4	10.8	11.1	10.0	10.4	10.4	10.8	11.1
	4H	9.9	10.3	10.3	10.7	11.0	9.9	10.3	10.3	10.7	11.0
	6H	9.9	10.2	10.3	10.6	11.0	9.9	10.2	10.3	10.6	11.0
	8H	9.8	10.1	10.3	10.5	11.0	9.8	10.1	10.2	10.5	10.9
	12H	9.8	10.1	10.3	10.5	11.0	9.8	10.0	10.2	10.4	10.9
8H	4H	9.8	10.1	10.2	10.5	10.9	9.8	10.1	10.3	10.5	11.0
	6H	9.7	10.0	10.2	10.4	10.9	9.8	10.0	10.2	10.4	10.9
	8H	9.7	9.9	10.2	10.4	10.9	9.7	9.9	10.2	10.4	10.9
	12H	9.7	9.9	10.2	10.4	10.9	9.7	9.8	10.2	10.3	10.9
12H	4H	9.8	10.0	10.2	10.4	10.9	9.8	10.1	10.3	10.5	11.0
	6H	9.7	9.9	10.2	10.4	10.9	9.7	9.9	10.2	10.4	10.9
	8H	9.7	9.8	10.2	10.3	10.9	9.7	9.9	10.2	10.4	10.9
Variations with the observer position at spacing:											
S =	1.0H	5.4 / -9.8					5.4 / -9.8				
	1.5H	8.2 / -10.5					8.2 / -10.5				
	2.0H	10.2 / -10.8					10.2 / -10.8				