Laser Pinhole

Design iGuzzini   **iGuzzini**

Last information update: May 2018

recessed adjustable

Product code
P442

Technical description
Round adjustable luminaire designed for housing 2700K 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 DALI 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 DALI components.

Complies with EN60598-1 and pertinent regulations

IP20

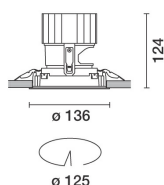**Product configuration: P442**

Product characteristics

Total lighting output [Lm]: 552	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 17	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 32.5	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 48	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2
Nominal power [W]: 15	Colour temperature [K]: 2700
Nominal luminous [Lm]: 1150	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 8°	MacAdam Step: 3

Polar

Imax=18705 cd	Lux			
90° 180° 90°	h	d	Em	Emax
	2	0.3	3643	4676
20000	4	0.6	911	1169
	6	0.8	405	520
0°	8	1.1	228	292
α=8°				
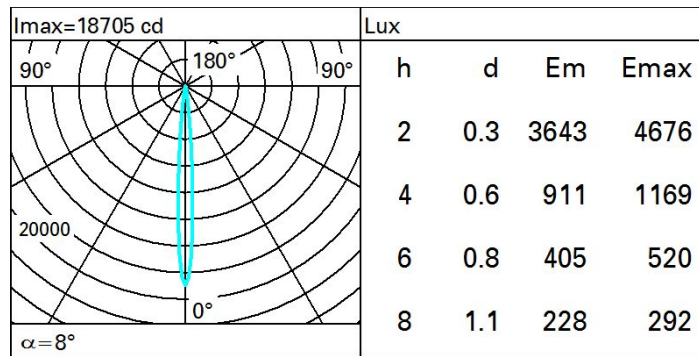
Utilisation factors

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

QC		A	G	1.15	2000	1000	500		<=300		
		B		1.50		2000	1000	750	500	<=300	
		C		1.85			2000		1000	500	<=300

C0-180 ————
C90-270 -----------