Laser Pinhole

Last information update: April 2025

Product configuration: P445
P445: recessed adjustable

Product code
P445: recessed adjustable

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.
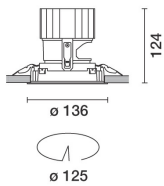
Colour	Weight (Kg)
White (01)	1.3

Mounting
ceiling surface

Wiring
Product inclusive of electronic components.

Complies with EN60598-1 and pertinent regulations

ø 136
124
ø 125

IP20 CE

Technical data

lm system:	802	CRI (minimum):	90
W system:	19.8	Colour temperature [K]:	3000
lm source:	1670	MacAdam Step:	2
W source:	17	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	40.5	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 [°]:	8°		

Polar

Imax=27163 cd

α=8°

h	d	Em	Emax
2	0.3	5290	6791
4	0.6	1323	1698
6	0.8	588	755
8	1.1	331	424
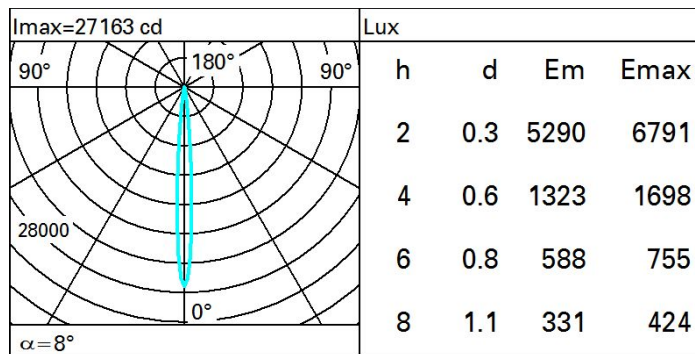
Utilisation factors

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 - - - - - - - - - - -