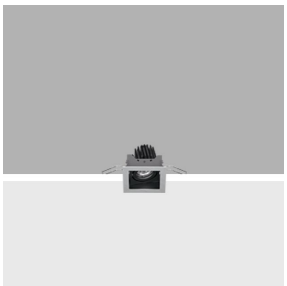
Deep Frame

Design iGuzzini **iGuzzini**

Last information update: May 2018

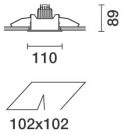


Deep Frame - 1 element - CoB warm LED- spot beam

Product code
P894

Technical description
Individual recessed luminaire for LED lamp. Version with a perimeter frame. Shaped sheet steel structural frame. Die-cast aluminium, twin swivel universal joint located in a position set back from the installation surface to guarantee a high level of visual comfort. Tilts ± 30° around both the horizontal and vertical axes. Die-cast aluminium lighting body designed to optimise heat dispersal. High efficiency aluminium reflector - spot angle. High color rendering index, warm white LED lamp. Glass cover The installation system is toolfree. Control gear unit included.

Installation
Recessed in 1 to 30 mm thick false ceilings. Steel wire fixing springs. Preparation hole 102 x 102.



Dimension (mm)
110x110x89

Colour
White (01) | Grey/Black (74)

Weight (Kg)
0.68

Mounting
ceiling recessed

Wiring
Complete with electronic control gear unit connected to the luminaire. Wiring for connecting to mains network on driver terminal board.

Notes
Accessories available: refractor for elliptical flow distribution - interchangeable reflectors.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Product configuration: P894

Product characteristics

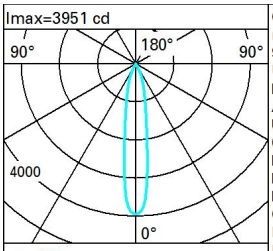
Total lighting output [Lm]: 656	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 10.1	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 64.9	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 69	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 1.7
Nominal power [W]: 8.4	Colour temperature [K]: 3000
Nominal luminous [Lm]: 950	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 18°	MacAdam Step: 3

Polar

Imax=3951 cd



α = 18°

CIE
nL 0.69
99-100-100-100-69
UGR <10-<10
DIN
A.61
UTE
0.69A+0.00T
F"1=990
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
UGR<10 I L<500 cd/mq @65°

Lux

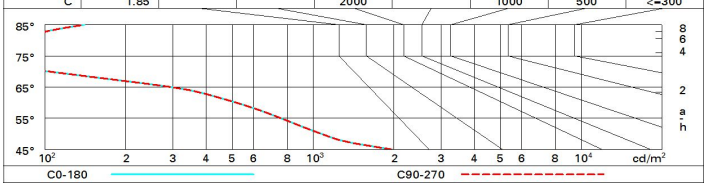
h	d	Em	Emax
2	0.6	773	988
4	1.3	193	247
6	1.9	86	110
8	2.5	48	62

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	57	55	58	56	56	54	78
1.0	65	62	60	58	61	59	59	57	82
1.5	68	66	64	63	65	64	63	61	88
2.0	70	69	67	66	68	67	66	64	93
2.5	72	70	69	69	69	68	68	66	95
3.0	72	72	71	70	70	70	69	67	97
4.0	73	73	72	72	71	71	70	68	99
5.0	74	73	73	73	72	72	71	69	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



UGR diagram

Corrected UGR values (at 950 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	1.4	3.5	1.8	3.8	4.2	1.4	3.5	1.8	3.8	4.2
	3H	1.3	2.9	1.7	3.2	3.6	1.4	2.9	1.7	3.3	3.6
	4H	1.3	2.6	1.6	2.9	3.3	1.3	2.6	1.7	3.0	3.3
	6H	1.2	2.2	1.6	2.6	2.9	1.3	2.3	1.7	2.6	3.0
	8H	1.2	2.2	1.6	2.6	2.9	1.2	2.3	1.6	2.6	3.0
	12H	1.1	2.2	1.5	2.5	2.9	1.2	2.2	1.6	2.6	3.0
4H	2H	1.3	2.6	1.7	3.0	3.3	1.3	2.6	1.6	2.9	3.3
	3H	1.2	2.3	1.6	2.6	3.0	1.2	2.3	1.6	2.6	3.0
	4H	1.1	2.2	1.5	2.6	3.0	1.1	2.2	1.5	2.6	3.0
	6H	0.7	2.5	1.2	2.9	3.4	0.7	2.5	1.2	2.9	3.4
	8H	0.6	2.5	1.1	3.0	3.5	0.6	2.5	1.1	3.0	3.5
	12H	0.5	2.5	1.0	3.0	3.5	0.5	2.5	1.0	2.9	3.5
8H	4H	0.6	2.5	1.1	3.0	3.5	0.6	2.5	1.1	3.0	3.5
	6H	0.5	2.3	1.0	2.8	3.3	0.5	2.3	1.0	2.8	3.3
	8H	0.5	2.1	1.0	2.6	3.1	0.5	2.1	1.0	2.6	3.1
	12H	0.7	1.6	1.2	2.1	2.7	0.7	1.6	1.2	2.1	2.7
12H	4H	0.5	2.5	1.0	2.9	3.5	0.5	2.5	1.0	3.0	3.5
	6H	0.5	2.1	1.0	2.6	3.1	0.5	2.1	1.0	2.6	3.1
	8H	0.7	1.6	1.2	2.1	2.7	0.7	1.6	1.2	2.1	2.7

Variations with the observer position at spacing:

S =	1.0H	3.4 / -4.4	3.4 / -4.4
	1.5H	5.9 / -6.9	5.9 / -6.9
	2.0H	7.9 / -10.8	7.9 / -10.8