Deep Frame

Design iGuzzini	iGuzzini

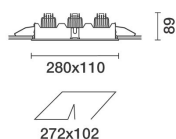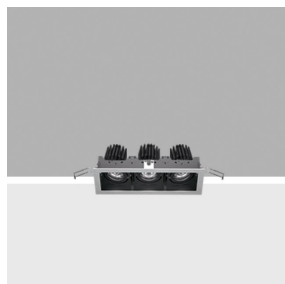Last information update: August 2023

Product configuration: P904
P904: Deep Frame - 3 elements - CoB warm LED - medium beam

Product code
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Technical description
Three element recessed luminaire for LED lamps. Version with a perimeter frame. Shaped sheet steel structural frame. Die-cast aluminium, twin swivel universal joints 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 bodies designed to optimise heat dispersal. High efficiency aluminium reflectors - medium angle. High color rendering index, warm white LED lamps. Each lamp unit has its own 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 272.

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

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.
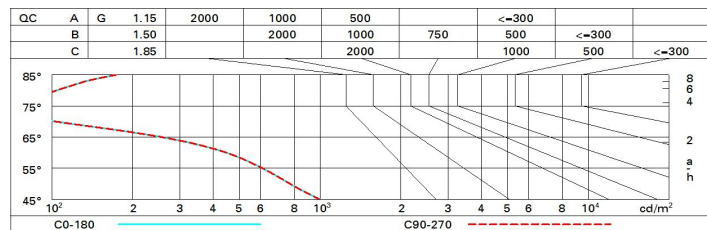
Complies with EN60598-1 and pertinent regulations

IP20   IP23   On the visible part of the product once installed

Technical data

lm system:	1995	CRI (minimum):	90
W system:	30.4	Colour temperature [K]:	3000
lm source:	950	MacAdam Step:	3
W source:	8.4	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	65.6	Ballast losses [W]:	1.7
		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.) [%]:	70	Number of optical assemblies:	3
Beam angle [°]:	26°		

Polar

Imax=2705 cd

CIE
nL 0.70
99-100-100-100-70
UGR <10-<10
DIN
A.61
UTE
0.70A+0.00T
F"1=993
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux			
h	d	Em	Emax
2	0.9	556	676
4	1.8	139	169
6	2.8	62	75
8	3.7	35	42

α=26°

280x110
272x102

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	60	58	56	59	57	57	55	78
1.0	66	63	61	59	62	60	60	58	83
1.5	69	67	65	64	66	65	64	62	88
2.0	71	70	68	67	69	68	67	65	93
2.5	73	71	70	70	70	70	69	67	96
3.0	73	73	72	71	72	71	70	68	98
4.0	74	74	73	73	73	72	71	69	99
5.0	75	74	74	74	73	73	72	70	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 ------------

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				

x	y										
2H	2H	-1.7	0.5	-1.3	0.8	1.2	-1.7	0.5	-1.3	0.8	1.2
	3H	-1.7	-0.0	-1.3	0.3	0.6	-1.7	0.0	-1.3	0.4	0.7
	4H	-1.8	-0.4	-1.4	-0.0	0.3	-1.7	-0.3	-1.3	0.0	0.4
	6H	-1.8	-0.7	-1.4	-0.4	-0.0	-1.7	-0.6	-1.3	-0.3	0.0
	8H	-1.8	-0.7	-1.4	-0.4	-0.0	-1.8	-0.7	-1.4	-0.4	0.0
	12H	-1.8	-0.8	-1.4	-0.4	-0.0	-1.8	-0.8	-1.4	-0.4	-0.0
4H	2H	-1.7	-0.3	-1.3	0.0	0.4	-1.8	-0.4	-1.4	-0.0	0.3
	3H	-1.7	-0.7	-1.3	-0.3	0.1	-1.7	-0.7	-1.3	-0.3	0.1
	4H	-1.8	-0.8	-1.4	-0.4	-0.0	-1.8	-0.8	-1.4	-0.4	-0.0
	6H	-2.1	-0.4	-1.6	0.0	0.5	-2.1	-0.4	-1.7	-0.0	0.5
	8H	-2.2	-0.3	-1.7	0.1	0.6	-2.3	-0.4	-1.8	0.1	0.6
	12H	-2.3	-0.3	-1.8	0.2	0.7	-2.4	-0.4	-1.9	0.1	0.6
8H	4H	-2.3	-0.4	-1.8	0.1	0.6	-2.2	-0.3	-1.7	0.1	0.6
	6H	-2.3	-0.5	-1.8	-0.0	0.5	-2.3	-0.5	-1.8	-0.0	0.5
	8H	-2.3	-0.7	-1.8	-0.2	0.3	-2.3	-0.7	-1.8	-0.2	0.3
	12H	-2.1	-1.0	-1.6	-0.5	-0.0	-2.1	-1.1	-1.6	-0.6	-0.1
12H	4H	-2.4	-0.4	-1.9	0.1	0.6	-2.3	-0.3	-1.8	0.2	0.7
	6H	-2.4	-0.7	-1.8	-0.2	0.3	-2.3	-0.6	-1.8	-0.1	0.4
	8H	-2.1	-1.1	-1.6	-0.6	-0.1	-2.1	-1.0	-1.6	-0.5	-0.0

Variations with the observer position at spacing:

S =	1.0H	3.9 / -2.7	3.9 / -2.7
	1.5H	6.3 / -4.6	6.3 / -4.6
	2.0H	8.2 / -7.3	8.2 / -7.3