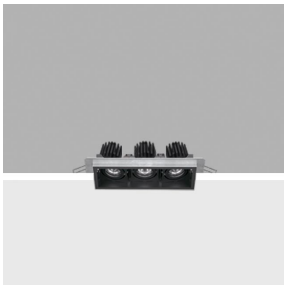
Deep Minimal

Design iGuzzini **iGuzzini**

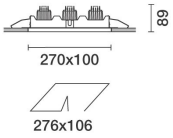
Last information update: May 2018



Deep Minimal - 3 elements - CoB warm LED - flood beam - dimmable DALI

Product code
P914

Technical description
Three element recessed luminaire for LED lamps. Minimal (frameless) version with no contact frame. Shaped stainless steel sheet structural frame specifically designed for flush with ceiling application using the adapter supplied. 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 - flood angle. High color rendering index, warm white LED lamps. Each lamp unit has its own glass cover. Control gear unit included.



Installation
Recessed in 12.5 mm thick false ceilings. The aluminium adapter is designed for filling, smoothing and finishing the false ceiling before inserting the recessed unit. Steel wire fixing springs. Preparation hole 106 x 276

Dimension (mm)
270x100x89

Colour
White (01) | Black (04)

Weight (Kg)
1.3

Mounting
ceiling recessed

Wiring
Complete with DALI dimmable 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 - adapter for installation in 15 mm thick false ceilings

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Product configuration: P914

Product characteristics

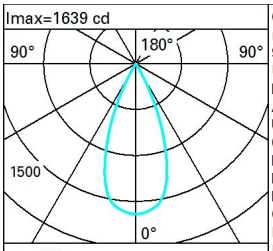
Total lighting output [Lm]: 2248.1	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 32.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 69.8	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 3

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 79	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.3
Nominal power [W]: 8.4	Colour temperature [K]: 3000
Nominal luminous [Lm]: 950	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 42°	MacAdam Step: 3

Polar

Imax=1639 cd



α = 42°

CIE
nL 0.79
99-100-100-100-79
UGR <10-<10
DIN
A.61
UTE
0.79A+0.00T
F"1=991
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
BZ1

Lux

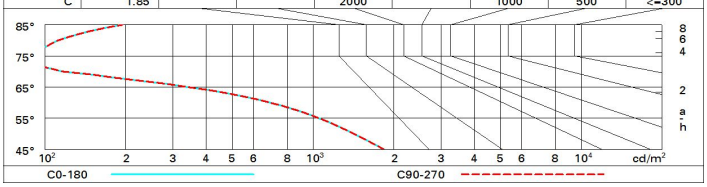
h	d	Em	Emax
2	1.5	328	410
4	3.1	82	102
6	4.6	36	46
8	6.1	21	26

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	65	63	67	64	64	61	78
1.0	74	71	68	67	70	68	68	65	82
1.5	78	75	73	72	74	73	72	70	88
2.0	80	78	77	76	77	76	75	73	93
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	81	80	79	77	98
4.0	84	83	83	82	82	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

Luminance curve limit

QC		G								
	A		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	walls	work pl.	Room dim x	y	viewed crosswise					viewed endwise				
					0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
					0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
					0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H			2H		3.6	4.2	3.9	4.4	4.7	3.6	4.2	3.9	4.4	4.7
			3H		3.5	4.0	3.8	4.3	4.6	3.6	4.1	3.9	4.4	4.6
			4H		3.5	3.9	3.8	4.2	4.5	3.5	4.0	3.8	4.3	4.6
			6H		3.4	3.8	3.7	4.1	4.5	3.4	3.9	3.8	4.2	4.5
			8H		3.4	3.8	3.7	4.1	4.4	3.4	3.8	3.8	4.2	4.5
			12H		3.3	3.7	3.7	4.1	4.4	3.4	3.8	3.7	4.1	4.5
4H			2H		3.5	4.0	3.8	4.3	4.6	3.5	3.9	3.8	4.2	4.5
			3H		3.4	3.8	3.8	4.1	4.5	3.4	3.8	3.8	4.1	4.5
			4H		3.3	3.7	3.7	4.0	4.4	3.3	3.7	3.7	4.0	4.4
			6H		3.2	3.5	3.7	3.9	4.4	3.2	3.5	3.7	3.9	4.4
			8H		3.2	3.5	3.6	3.9	4.3	3.2	3.5	3.6	3.9	4.3
			12H		3.2	3.4	3.6	3.8	4.3	3.1	3.4	3.6	3.8	4.3
8H			4H		3.2	3.5	3.6	3.9	4.3	3.2	3.5	3.6	3.9	4.3
			6H		3.1	3.3	3.6	3.8	4.3	3.1	3.3	3.6	3.8	4.3
			8H		3.1	3.3	3.5	3.7	4.2	3.1	3.3	3.5	3.7	4.2
			12H		3.0	3.2	3.5	3.7	4.2	3.0	3.2	3.5	3.7	4.2
12H			4H		3.1	3.4	3.6	3.8	4.3	3.2	3.4	3.6	3.8	4.3
			6H		3.0	3.3	3.5	3.7	4.2	3.1	3.3	3.6	3.7	4.2
			8H		3.0	3.2	3.5	3.7	4.2	3.0	3.2	3.5	3.7	4.2

Variations with the observer position at spacing:

S =			
	1.0H	5.3 / -4.9	5.3 / -4.9
	1.5H	8.0 / -7.8	8.0 / -7.8
	2.0H	9.9 / -11.8	9.9 / -11.8