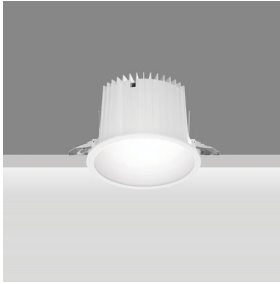**Reflex**

Design iGuzzini	iGuzzini

Last information update: June 2018

Fixed circular recessed luminaire - Ø 212 mm - warm white - white optic

Product code
P522

Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector painted white with a layer of anti-scratch protection. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI90 (3000K). General lighting beam.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 25 mm.

Dimension (mm)
Ø226x150

Colour
White (01)

Weight (Kg)
1.95

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20   IP54   On the visible part of the product once installed

CE   A++

Product configuration: P522
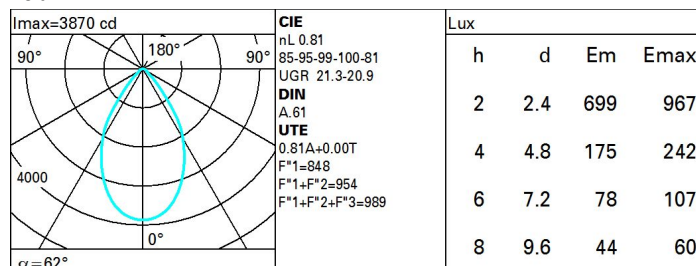
Product characteristics
Total lighting output [Lm]: 4048	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 45.1	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 89.7	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 81	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.1
Nominal power [W]: 42	Colour temperature [K]: 3000
Nominal luminous [Lm]: 5000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 62°	MacAdam Step: 2

Polar

Imax=3870 cd

CIE
nL 0.81
85-95-99-100-81
UGR 21.3-20.9
DIN
A.61
UTE
0.81A+0.00T
F"1=848
F"1+F"2=954
F"1+F"2+F"3=989

α=62°

Lux			
h	d	Em	Emax
2	2.4	699	967
4	4.8	175	242
6	7.2	78	107
8	9.6	44	60

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	67	62	59	56	61	58	58	54	67
1.0	71	67	63	61	66	63	62	59	73
1.5	77	73	70	68	72	69	68	65	81
2.0	80	77	75	73	76	74	73	70	86
2.5	82	79	78	76	78	76	76	73	90
3.0	83	81	80	78	80	78	77	75	92
4.0	84	83	82	81	81	80	79	77	95
5.0	85	84	83	82	82	82	80	78	96

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 ------------
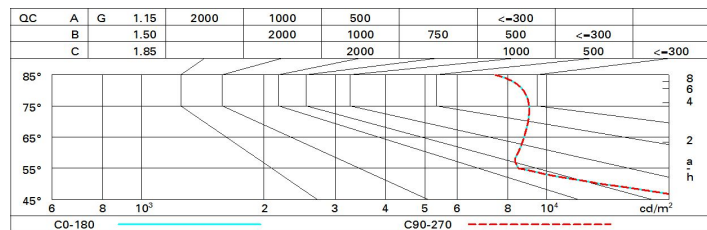
UGR diagram

Corrected UGR values (at 5000 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 x	y			viewed crosswise					viewed endwise		
2H	2H	19.6	20.3	19.9	20.6	20.8	19.6	20.3	19.9	20.6	20.8
	3H	20.0	20.7	20.4	21.0	21.3	19.6	20.3	19.9	20.6	20.8
	4H	20.3	20.9	20.7	21.2	21.5	19.6	20.3	20.0	20.6	20.9
	6H	20.6	21.2	20.9	21.5	21.8	19.6	20.2	20.0	20.5	20.8
	8H	20.7	21.2	21.1	21.6	21.9	19.6	20.2	20.0	20.5	20.8
	12H	20.7	21.3	21.1	21.6	22.0	19.6	20.1	20.0	20.4	20.8
4H	2H	19.6	20.3	20.0	20.6	20.9	20.3	20.9	20.7	21.2	21.5
	3H	20.3	20.8	20.7	21.2	21.5	20.6	21.1	21.0	21.4	21.8
	4H	20.7	21.2	21.1	21.5	21.9	20.7	21.2	21.1	21.5	21.9
	6H	21.1	21.5	21.5	21.9	22.3	20.8	21.2	21.3	21.6	22.1
	8H	21.3	21.6	21.7	22.1	22.5	20.9	21.2	21.3	21.6	22.1
	12H	21.4	21.7	21.8	22.1	22.6	20.8	21.2	21.3	21.6	22.1
8H	4H	20.9	21.2	21.3	21.6	22.1	21.3	21.6	21.7	22.1	22.5
	6H	21.4	21.7	21.9	22.1	22.6	21.5	21.8	22.0	22.3	22.7
	8H	21.6	21.9	22.1	22.3	22.8	21.6	21.9	22.1	22.3	22.8
	12H	21.8	22.0	22.3	22.5	23.0	21.7	21.9	22.2	22.4	22.9
12H	4H	20.8	21.2	21.3	21.6	22.1	21.4	21.7	21.8	22.1	22.6
	6H	21.4	21.7	21.9	22.2	22.7	21.6	21.9	22.1	22.4	22.9
	8H	21.7	21.9	22.2	22.4	22.9	21.8	22.0	22.3	22.5	23.0

Variations with the observer position at spacing:					
S =	1.0H	1.6 / -1.4		1.6 / -1.4	
	1.5H	3.4 / -1.6		3.4 / -1.6	
	2.0H	5.0 / -1.6		5.0 / -1.6	