Design iGuzzini

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Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR<19

#### Product code

N231

#### Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m2  $\alpha$ >65° flood optic.

#### Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

ø 144



# Dimension (mm)

Ø144x107

#### Colour

White/Aluminium (39)

#### Weight (Kg)

1.02

#### Mounting

ceiling recessed

## Wiring

product complete with an electronic ballast

Complies with EN60598-1 and pertinent regulations









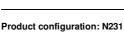
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## Product characteristics

Total lighting output [Lm]: 2635 Total power [W]: 23.7 Luminous efficacy [Lm/W]: 111.2

Life Time: 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0

Emergency luminous flux [Lm]: /

Voltage [V]: -

Number of optical assemblies: 1

# Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 88 Lamp code: LED

ZVEI Code: LED

Nominal power [W]: 21

Nominal luminous [Lm]: 3000

Lamp maximum intensity [cd]: /

Beam angle [°]: 24°

Number of lamps for optical assembly: 1

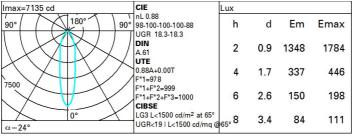
Socket: /

Ballast losses [W]: 2.7 Colour temperature [K]: 3000

CRI: 80

Wavelength [Nm]: / MacAdam Step: 2

#### Polar

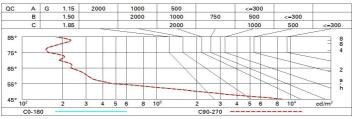




## Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	79	74	71	69	74	71	70	68	77
1.0	82	78	76	73	77	75	75	72	82
1.5	86	84	81	79	83	81	80	77	88
2.0	89	87	85	84	86	84	83	81	92
2.5	91	89	88	87	88	87	86	84	95
3.0	92	91	90	89	89	89	88	85	97
4.0	93	92	92	91	91	90	89	87	99
5.0	94	93	93	92	92	91	90	88	100

# Luminance curve limit



# UGR diagram

Rifled	ct.:										
ceil/cav walls work pl. Room dim		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 0.20	0.30	0.30	0.50 0.20	0.30	0.50	0.30	0.30
		X	У	crosswise end						endwise	wise
2H	2H	18.9	19.5	19.2	19.8	20.0	18.9	19.5	19.2	19.8	20.0
	ЗН	18.7	19.3	19.1	19.6	19.9	18.7	19.3	19.1	19.6	19.9
	4H	18.7	19.2	19.0	19.5	19.8	18.7	19.2	19.0	19.5	19.8
	бН	18.6	19.1	18.9	19.4	19.7	18.6	19.1	18.9	19.4	19.7
	нв	18.6	19.0	18.9	19.4	19.7	18.6	19.0	18.9	19.4	19.7
	12H	18.5	19.0	18.9	19.3	19.7	18.5	19.0	18.9	19.3	19.7
4H	2H	18.7	19.2	19.0	19.5	19.8	18.7	19.2	19.0	19.5	19.8
	ЗН	18.5	19.0	18.9	19.3	19.7	18.5	19.0	18.9	19.3	19.7
	4H	18.4	18.8	18.8	19.2	19.6	18.4	18.8	18.8	19.2	19.6
	6H	18.3	18.7	18.8	19.1	19.5	18.3	18.7	18.8	19.1	19.5
	HS	18.3	18.6	18.7	19.0	19.5	18.3	18.6	18.7	19.0	19.5
	12H	18.2	18.5	18.7	19.0	19.4	18.2	18.5	18.7	19.0	19.4
вн	4H	18.3	18.6	18.7	19.0	19.5	18.3	18.6	18.7	19.0	19.5
	6H	18.2	18.5	18.7	18.9	19.4	18.2	18.5	18.7	18.9	19.4
	HS	18.1	18.4	18.6	18.8	19.3	18.1	18.4	18.6	18.8	19.3
	12H	18.1	18.3	18.6	18.8	19.3	18.1	18.3	18.6	18.8	19.3
12H	4H	18.2	18.5	18.7	19.0	19.4	18.2	18.5	18.7	19.0	19.4
	6H	18.1	18.4	18.6	18.8	19.3	18.1	18.4	18.6	18.8	19.3
	H8	18.1	18.3	18.6	18.8	19.3	18.1	18.3	18.6	18.8	19.3
Varia	tions wi	th the ot	serverp	osition	at spacin	g:	_				
S =	1.0H	4.4 / -24.6					4.4 / -24.6				
	1.5H	7.2 / -25.8					7.2 / -25.8				
	2.0H	9.2 / -26.2					9.2 / -26.2				