Design iGuzzini

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Last information update: May 2024

#### Product configuration: N231

N231: Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR<19



ø 144

ø 125

107

## Product code

N231: Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR<19 Attention! Code no longer in production

# 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 α>65° flood optic.

#### Installation

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

<b>Colour</b> White / Aluminium (39)					Weight (K 1.02	(g)				
Mountin ceiling re										
Wiring product c	complete wit	th an electr	onic ballast			Co	omplies with	EN60598-1 a	and pertiner	it regul
				CE	<b>E</b> 03	8	EAC		VRMV	G

Technical data					
Im system:	2635	CRI (minimum):	80		
W system:	23.7	Colour temperature [K]:	3000		
Im source:	3000	MacAdam Step:	2		
W source:	21	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)		
Luminous efficiency (Im/W,	111.2	Lamp code:	LED		
real value):		Number of lamps for optical	1		
Im in emergency mode:	-	assembly:			
Total light flux at or above	0	ZVEI Code:	LED		
an angle of 90° [Lm]:		Number of optical	1		
Light Output Ratio (L.O.R.) [%]:	88	assemblies:			
Beam angle [°]:	24°				

### Polar

Imax=7135 cd	CIE	Lux			
90° 180° 9	∇nL 0.88 )° 98-100-100-100-88	h	d	Em	Emax
	UGR 18.3-18.3 DIN A.61 UTE	2	0.9	1348	1784
XXX/	0.88A+0.00T F"1=978	4	1.7	337	446
7500	F"1+F"2=999 F"1+F"2+F"3=1000 CIBSE	6	2.6	150	198
α=24°	LG3 L<1500 cd/m <sup>2</sup> at 65° UGR<19   L<1500 cd/mq (	a <sub>65°</sub> 8	3.4	84	111

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

QC	Α	G	1.15	2000	1000	500		<-300		
	в		1.50		2000	1000	750	500	<-300	
	С		1.85			2000		1000	500	<=300
85°			-							38
		-								- 6
75°		5	-			$-\left( \cdot \right)$				_ 4
			4							
35°								$\overline{\nabla}$		2
55°	<u> </u>									a
										h
45°.	0 <sup>2</sup>		2	3 4 5	6 8 1	0 <sup>3</sup>	2 3	4 5 6	8 10 <sup>4</sup>	cd/m <sup>2</sup>
45.1	0-									

### UGR diagram

Rifle	et :										
ceil/c		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		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
	n dim			viewed					viewed		
x	У		c	rosswis	е				endwise		
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
	<b>4</b> H	18.7	19.2	19.0	19.5	19.8	18.7	19.2	19.0	19.5	19.8
	6H	18.6	19.1	18.9	19.4	19.7	18.6	19.1	18.9	19.4	19.1
	BH	18.6	19.0	18.9	19.4	19.7	18.6	19.0	18.9	19.4	19.1
	12H	18.5	19.0	<mark>18.9</mark>	19.3	19.7	18.5	19 <mark>.</mark> 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.
	ЗH	18.5	19.0	18.9	19.3	19.7	18.5	19.0	18.9	19.3	19.
	4H	18.4	18.8	18.8	19.2	19.6	18.4	18.8	18.8	19.2	19.
	6H	18.3	18.7	18.8	19.1	19.5	18.3	18.7	18.8	19.1	19.
	BH	18.3	18.6	18.7	19.0	19.5	18.3	18.6	18.7	19.0	19.
	12H	18.2	18.5	18.7	19.0	19.4	18.2	18.5	18.7	19.0	19.
вн	4H	18.3	18.6	18.7	19.0	19.5	18.3	18.6	18.7	19.0	19.
	6H	18.2	18.5	18.7	18.9	19.4	18.2	18.5	18.7	18.9	19.
	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.
	бH	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	ations wi	th the ot	oserver p	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.	