Reflex

Design iGuzzini **iGuzzini**

Last information update: June 2024

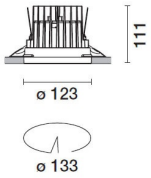
Product configuration: Q143
Q143: Fixed circular recessed luminaire - Ø133 mm - neutral white - medium optic - UGR<19

Product code
Q143: Fixed circular recessed luminaire - Ø133 mm - neutral white - medium 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 without rim for mounting flush with ceiling. 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 neutral white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° medium optic.

Installation
Installation flush with the ceiling is for false ceilings 12.5 mm thick

Colour
Aluminium (12)



Mounting
ceiling recessed

Wiring
product complete with 1-10V components

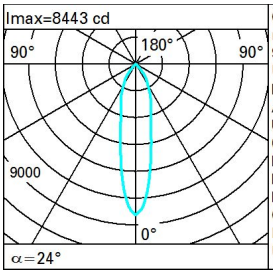
Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed □ pending pending

Technical data

lm system:	3118	CRI (minimum):	80
W system:	29.4	Colour temperature [K]:	4000
lm source:	3550	MacAdam Step:	2
W source:	25	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	106.1	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.) [%]:	88	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	1-10V

Polar



CIE
nL 0.88
98-100-100-100-88
UGR 18.9-18.9
DIN
A.61
UTE
0.88A+0.00T
F"1=978
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

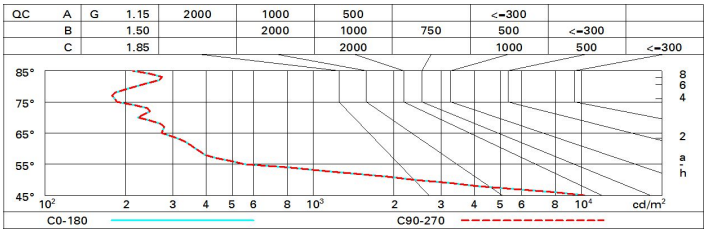
Lux

h	d	Em	Emax
2	0.9	1595	2111
4	1.7	399	528
6	2.6	177	235
8	3.4	100	132

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

Corrected UGR values (at 3550 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 crosswise					viewed endwise		
x	y										
2H	2H	19.5	20.1	19.7	20.4	20.6	19.5	20.1	19.7	20.4	20.6
	3H	19.3	19.9	19.6	20.2	20.5	19.3	19.9	19.6	20.2	20.5
	4H	19.3	19.8	19.6	20.1	20.4	19.3	19.8	19.6	20.1	20.4
	6H	19.2	19.7	19.5	20.0	20.3	19.2	19.7	19.5	20.0	20.3
	8H	19.1	19.6	19.5	19.9	20.3	19.1	19.6	19.5	19.9	20.3
	12H	19.1	19.6	19.5	19.9	20.3	19.1	19.6	19.5	19.9	20.3
4H	2H	19.3	19.8	19.6	20.1	20.4	19.3	19.8	19.6	20.1	20.4
	3H	19.1	19.6	19.5	19.9	20.3	19.1	19.6	19.5	19.9	20.3
	4H	19.0	19.4	19.4	19.8	20.2	19.0	19.4	19.4	19.8	20.2
	6H	18.9	19.3	19.3	19.7	20.1	18.9	19.3	19.3	19.7	20.1
	8H	18.9	19.2	19.3	19.6	20.1	18.9	19.2	19.3	19.6	20.1
	12H	18.8	19.1	19.3	19.6	20.0	18.8	19.1	19.3	19.6	20.0
8H	4H	18.9	19.2	19.3	19.6	20.1	18.9	19.2	19.3	19.6	20.1
	6H	18.8	19.1	19.3	19.5	20.0	18.8	19.1	19.3	19.5	20.0
	8H	18.7	19.0	19.2	19.4	19.9	18.7	19.0	19.2	19.4	19.9
	12H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
12H	4H	18.8	19.1	19.3	19.6	20.0	18.8	19.1	19.3	19.6	20.0
	6H	18.7	19.0	19.2	19.4	19.9	18.7	19.0	19.2	19.4	19.9
	8H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9

Variations with the observer position at spacing:

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