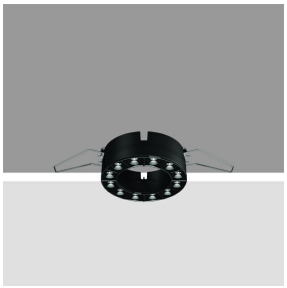
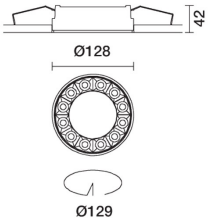
Blade R downlight

Design iGuzzini **iGuzzini**

Last information update: November 2024

Product configuration: R249
R249: MInimal Ø 125 - Flood beam - LED





Product code
R249: MInimal Ø 125 - Flood beam - LED

Technical description
Ring luminaire with 12 optical elements for LED lamps - fixed optics. The optic system guarantees a high level of visual comfort and no glare. The body includes a radiant surface made of die-cast aluminium. Minimal (frameless) version for flush with ceiling installation. For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. High definition reflectors made of thermoplastic material vacuum-metallised with aluminium vapours, integrated in a set-back position in the anti-glare screen. Supplied with a power supply unit connected to the luminaire.

Installation
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - Ø 125 installation hole.

Colour
White (01) | Black (04) | Gold (14)* | Burnished chrome (E6)*

Weight (Kg)
0.34

* Colours on request

Mounting
ceiling recessed

Wiring
On the power supply unit with terminal board included. Available in DALI electronic versions.

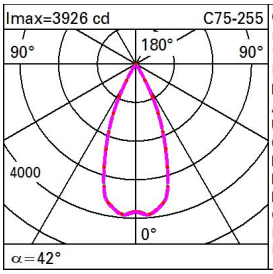
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	1848	CRI (minimum):	90
W system:	24	Colour temperature [K]:	3000
lm source:	2200	MacAdam Step:	2
W source:	24	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	77	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.) [%]:	84	Number of optical assemblies:	1
Beam angle [°]:	42°	Control:	DALI-2

Polar



CIE
nL 0.84
100-100-100-100-84
UGR <10-<10
DIN
A.61
UTE
0.84A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

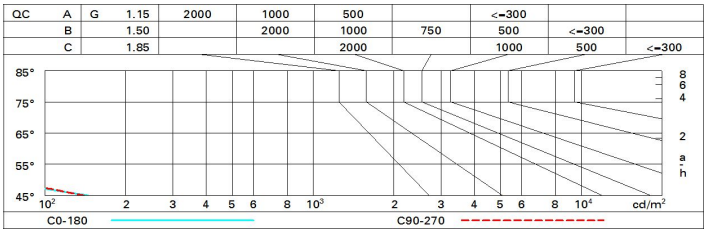
Lux

h	d1	d2	Em	Emax
2	1.5	1.5	796	967
4	3.1	3.1	199	242
6	4.6	4.6	88	107
8	6.1	6.1	50	60

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	76	72	69	67	71	69	68	66	78
1.0	79	76	73	71	75	73	72	70	83
1.5	83	80	78	77	80	78	77	74	89
2.0	86	84	82	81	83	81	80	78	93
2.5	87	86	85	84	85	84	83	80	96
3.0	88	87	86	86	86	85	84	82	98
4.0	89	89	88	88	87	87	85	83	99
5.0	90	89	89	89	88	88	86	84	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2200 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	1.2	1.8	1.5	2.0	2.2	1.4	2.0	1.7	2.2	2.4
	3H	1.1	1.6	1.4	1.9	2.1	1.3	1.8	1.6	2.0	2.3
	4H	1.0	1.5	1.3	1.8	2.1	1.2	1.7	1.5	2.0	2.3
	6H	0.9	1.4	1.3	1.7	2.0	1.1	1.6	1.5	1.9	2.2
	8H	0.9	1.3	1.3	1.6	2.0	1.1	1.5	1.4	1.8	2.2
	12H	0.9	1.3	1.2	1.6	1.9	1.0	1.4	1.4	1.8	2.1
4H	2H	1.0	1.5	1.3	1.8	2.1	1.2	1.7	1.5	2.0	2.3
	3H	0.9	1.3	1.2	1.6	1.9	1.0	1.4	1.4	1.8	2.1
	4H	0.8	1.1	1.2	1.5	1.9	0.9	1.3	1.3	1.7	2.1
	6H	0.7	1.0	1.1	1.4	1.8	0.9	1.2	1.3	1.6	2.0
	8H	0.6	0.9	1.1	1.3	1.8	0.8	1.1	1.2	1.5	1.9
	12H	0.6	0.8	1.0	1.3	1.7	0.8	1.0	1.2	1.4	1.9
8H	4H	0.6	0.9	1.1	1.3	1.8	0.8	1.1	1.2	1.5	1.9
	6H	0.5	0.8	1.0	1.2	1.7	0.7	1.0	1.2	1.4	1.9
	8H	0.5	0.7	1.0	1.1	1.6	0.7	0.9	1.1	1.3	1.8
	12H	0.4	0.6	0.9	1.1	1.6	0.6	0.8	1.1	1.3	1.8
12H	4H	0.6	0.8	1.0	1.3	1.7	0.8	1.0	1.2	1.4	1.9
	6H	0.5	0.7	1.0	1.1	1.6	0.7	0.9	1.1	1.3	1.8
	8H	0.4	0.6	0.9	1.1	1.6	0.6	0.8	1.1	1.3	1.8

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -27.7	6.9 / -27.8
	1.5H	9.7 / -32.6	9.7 / -32.4
	2.0H	11.7 / -41.6	11.7 / -46.3