Blade R downlight
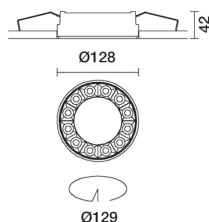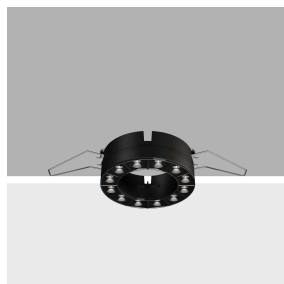
Design iGuzzini   **iGuzzini**

Last information update: October 2024

Product configuration: QS83
QS83: MInimal Ø 129 - Medium beam - LED

Product code
QS83: MInimal Ø 129 - Medium 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 12,5 to 25 mm thick - Ø 129 installation hole.

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

Weight (Kg)
0.54

* Colours on request

Mounting
ceiling recessed

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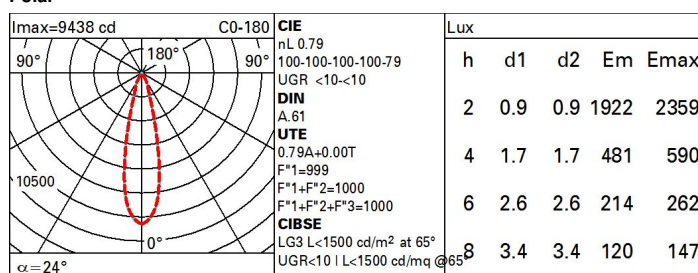On the power supply unit with terminal board included. Available in DALI electronic versions.

Complies with EN60598-1 and pertinent regulations

IP20 IP23   On the visible part of the product once installed   CE

pending   pending

Technical data

lm system:	2094	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W system:	26.8	Voltage [Vin]:	230
lm source:	2650	Lamp code:	LED
W source:	24	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	78.1		
		ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0		
		Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	79	Inrush current:	21 A / 139 µs
Beam angle [°]:	24°	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires
CRI (minimum):	90		B16A: 24 luminaires
Colour temperature [K]:	4000		C10A: 24 luminaires
MacAdam Step:	2		C16A: 40 luminaires
		Minimum dimming %:	1
		Overvoltage protection:	2kV Common mode & 1kV Differential mode
		Control:	DALI-2

Polar

Imax=9438 cd   C0-180

α=24°

CIE
nL 0.79
100-100-100-100-79
UGR <10-<10
DIN
A.61
UTE
0.79A+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	0.9	0.9	1922	2359
4	1.7	1.7	481	590
6	2.6	2.6	214	262
8	3.4	3.4	120	147

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	68	65	63	67	65	64	62	78
1.0	74	71	69	67	70	68	68	66	83
1.5	78	76	74	72	75	73	72	70	89
2.0	81	79	77	76	78	76	76	73	93
2.5	82	81	80	79	80	79	78	76	96
3.0	83	82	81	81	81	80	79	77	98
4.0	84	83	83	82	82	82	80	79	99
5.0	84	84	84	83	83	82	81	79	100

UGR diagram

Corrected UGR values (at 2650 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	4.0	6.1	4.3	6.4	6.7	3.8	5.9	4.1	6.2	6.5
	3H	3.8	5.4	4.2	5.7	6.1	3.6	5.2	4.0	5.5	5.9
	4H	3.8	5.1	4.1	5.4	5.8	3.6	4.9	3.9	5.2	5.6
	6H	3.7	4.8	4.1	5.1	5.4	3.5	4.6	3.9	4.9	5.3
	8H	3.7	4.7	4.1	5.1	5.4	3.5	4.5	3.9	4.9	5.2
	12H	3.6	4.6	4.0	5.0	5.4	3.4	4.5	3.8	4.8	5.2
4H	2H	3.8	5.1	4.1	5.4	5.8	3.6	4.9	3.9	5.2	5.6
	3H	3.6	4.6	4.0	5.0	5.4	3.4	4.5	3.8	4.8	5.2
	4H	3.5	4.5	3.9	4.9	5.3	3.3	4.3	3.7	4.7	5.1
	6H	3.1	4.8	3.6	5.2	5.7	3.0	4.6	3.4	5.0	5.5
	8H	3.0	4.9	3.5	5.3	5.8	2.8	4.7	3.3	5.1	5.6
	12H	2.9	4.8	3.4	5.3	5.8	2.7	4.6	3.2	5.1	5.6
8H	4H	3.0	4.9	3.5	5.3	5.8	2.8	4.7	3.3	5.1	5.6
	6H	2.9	4.7	3.4	5.1	5.7	2.7	4.5	3.2	5.0	5.5
	8H	2.9	4.4	3.4	4.9	5.5	2.7	4.2	3.2	4.7	5.3
	12H	3.0	4.0	3.5	4.5	5.0	2.8	3.8	3.3	4.3	4.9
12H	4H	2.9	4.8	3.4	5.3	5.8	2.7	4.6	3.2	5.1	5.6
	6H	2.9	4.4	3.4	4.9	5.5	2.7	4.2	3.2	4.7	5.3
	8H	3.0	4.0	3.5	4.5	5.0	2.8	3.8	3.3	4.3	4.9

Variations with the observer position at spacing:

S =	1.0H	6.6 / -46.0	6.7 / -46.2
	1.5H	8.0 / -54.2	7.8 / -45.1
	2.0H	8.8 / -53.4	8.6 / -47.6