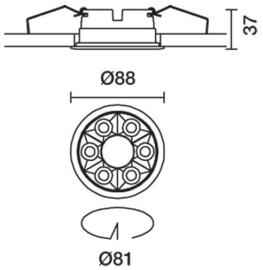
Blade R downlight

Design iGuzzini **iGuzzini**

Last information update: January 2025

Product configuration: QS18
QS18: Frame Ø 80 - Medium beam - LED



Product code
QS18: Frame Ø 80 - Medium beam - LED

Technical description
Ring luminaire with 6 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. Version includes a perimeter surface frame. 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. Central cover available with separate item code.

Installation
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - Ø 80 installation hole.

Colour
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | White / burnished chrome (E7)*

* Colours on request

Weight (Kg)
0.3

Mounting
ceiling recessed

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

Notes
Central cover to complete the luminaire to be ordered with a separate item code - available in a standard finish, it is designed to be painted with a customised finish.

Complies with EN60598-1 and pertinent regulations

IP20 IP23

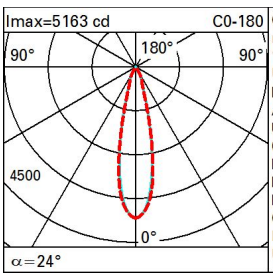
pending pending

Technical data

lm system:	1080
W system:	14.5
lm source:	1350
W source:	12
Luminous efficiency (lm/W, real value):	74.5
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	80
Beam angle [°]:	24°
CRI (minimum):	90
Colour temperature [K]:	4000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Voltage [Vin]:	230
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	5 A / 220 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 81 luminaires B16A: 130 luminaires C10A: 135 luminaires C16A: 221 luminaires
Minimum dimming %:	1
Control:	DALI-2

Polar



CIE
nL 0.80
100-100-100-100-80
UGR <10-<10
DIN
A.61
UTE
0.80A+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 I L<1500 cd/mq @65°

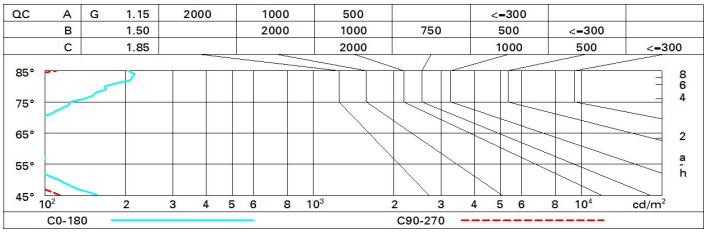
Lux

h	d1	d2	Em	Emax
2	0.9	0.9	1028	1291
4	1.7	1.7	257	323
6	2.6	2.6	114	143
8	3.4	3.4	64	81

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	69	66	64	68	66	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	77	75	73	76	74	73	71	89
2.0	82	80	78	77	79	77	77	74	93
2.5	83	82	81	80	81	80	79	77	96
3.0	84	83	82	82	82	81	80	78	98
4.0	85	84	84	83	83	83	81	79	99
5.0	86	85	85	84	84	83	82	80	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1350 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	3.4	5.5	3.7	5.8	6.1	4.6	6.7	5.0	7.0	7.4
	3H	3.2	4.8	3.6	5.1	5.5	4.5	6.1	4.8	6.4	6.7
	4H	3.2	4.5	3.5	4.8	5.2	4.4	5.7	4.8	6.1	6.4
	6H	3.1	4.2	3.5	4.5	4.9	4.4	5.4	4.7	5.7	6.1
	8H	3.1	4.1	3.5	4.5	4.8	4.3	5.3	4.7	5.7	6.1
	12H	3.0	4.1	3.4	4.4	4.8	4.3	5.3	4.7	5.6	6.0
4H	2H	3.2	4.5	3.5	4.8	5.2	4.4	5.7	4.8	6.1	6.4
	3H	3.0	4.0	3.4	4.4	4.8	4.3	5.3	4.7	5.7	6.0
	4H	2.9	3.9	3.3	4.3	4.7	4.1	5.2	4.6	5.5	6.0
	6H	2.6	4.2	3.0	4.7	5.1	3.8	5.5	4.3	5.9	6.4
	8H	2.4	4.3	2.9	4.8	5.3	3.7	5.5	4.1	6.0	6.5
	12H	2.3	4.3	2.8	4.8	5.3	3.5	5.5	4.0	6.0	6.5
8H	4H	2.4	4.3	2.9	4.7	5.2	3.7	5.5	4.1	6.0	6.5
	6H	2.3	4.1	2.8	4.6	5.1	3.5	5.3	4.0	5.8	6.3
	8H	2.3	3.9	2.8	4.4	4.9	3.5	5.1	4.0	5.6	6.1
	12H	2.5	3.5	3.0	4.0	4.5	3.7	4.7	4.2	5.2	5.7
12H	4H	2.3	4.3	2.8	4.7	5.2	3.5	5.5	4.1	6.0	6.5
	6H	2.3	3.9	2.8	4.4	4.9	3.5	5.1	4.0	5.6	6.1
	8H	2.5	3.5	3.0	4.0	4.5	3.7	4.7	4.2	5.2	5.7

Variations with the observer position at spacing:

S =	1.0H	6.6 / -12.8	6.7 / -17.1
	1.5H	9.4 / -13.0	9.5 / -17.3
	2.0H	11.4 / -13.0	11.5 / -17.5