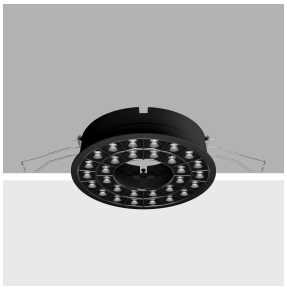
Blade R downlight

Design iGuzzini **iGuzzini**

Last information update: October 2024

Product configuration: QS53
QS53: Frame Ø 170 - Flood beam - LED



Product code
QS53: Frame Ø 170 - Flood beam - LED

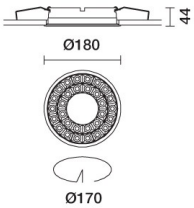
Technical description
Ring luminaire with 18+12 optical elements for LED lamps - fixed optics. The optic system guarantees a high level of visual comfort and no glare. The body includes a radiant surface made of die-cast aluminium. The 18 LED and 12 LED optical assemblies include control gear and separate on/off switches. 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 170 installation hole.

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

* Colours on request

Weight (Kg)
1.25



Mounting
ceiling recessed

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

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

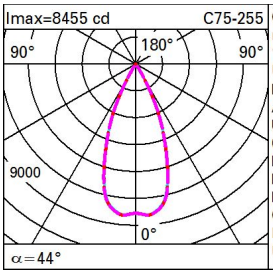
pending

Technical data

lm system:	4026
W system:	56.2
lm source:	4850
W source:	51
Luminous efficiency (lm/W, real value):	71.6
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	83
Beam angle [°]:	44°
CRI (minimum):	90
Colour temperature [K]:	3000
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:	21 A / 139 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.83
100-100-100-100-83
UGR <10-<10
DIN
A.61
UTE
0.83A+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°

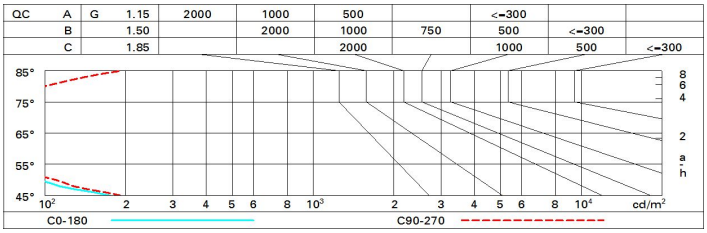
Lux

h	d1	d2	Em	Emax
2	1.6	1.6	1683	2094
4	3.2	3.2	421	524
6	4.8	4.8	187	233
8	6.5	6.5	105	131

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	69	66	71	68	68	65	78
1.0	78	75	72	71	74	72	71	69	83
1.5	82	80	78	76	79	77	76	74	89
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	83	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	88	87	87	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 4850 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	1.8	2.3	2.0	2.6	2.8	1.7	2.3	2.0	2.5	2.8
	3H	1.6	2.1	1.9	2.4	2.7	1.6	2.1	1.9	2.4	2.7
	4H	1.5	2.0	1.9	2.3	2.6	1.5	2.0	1.9	2.3	2.6
	6H	1.5	1.9	1.8	2.2	2.5	1.5	1.9	1.8	2.2	2.5
	8H	1.4	1.9	1.8	2.2	2.5	1.4	1.9	1.8	2.2	2.5
	12H	1.4	1.8	1.8	2.1	2.5	1.4	1.8	1.8	2.1	2.5
4H	2H	1.5	2.0	1.9	2.3	2.6	1.5	2.0	1.9	2.3	2.6
	3H	1.4	1.8	1.8	2.1	2.5	1.4	1.8	1.8	2.1	2.5
	4H	1.3	1.7	1.7	2.0	2.4	1.3	1.7	1.7	2.0	2.4
	6H	1.2	1.5	1.6	1.9	2.3	1.2	1.5	1.6	1.9	2.3
	8H	1.2	1.5	1.6	1.9	2.3	1.2	1.5	1.6	1.9	2.3
	12H	1.1	1.4	1.6	1.8	2.3	1.1	1.4	1.6	1.8	2.3
8H	4H	1.2	1.5	1.6	1.9	2.3	1.2	1.5	1.6	1.9	2.3
	6H	1.1	1.3	1.5	1.8	2.2	1.1	1.3	1.6	1.8	2.2
	8H	1.0	1.2	1.5	1.7	2.2	1.0	1.2	1.5	1.7	2.2
	12H	1.0	1.1	1.5	1.6	2.1	1.0	1.2	1.5	1.6	2.2
12H	4H	1.1	1.4	1.6	1.8	2.3	1.1	1.4	1.6	1.8	2.3
	6H	1.0	1.2	1.5	1.7	2.2	1.1	1.3	1.5	1.7	2.2
	8H	1.0	1.1	1.5	1.6	2.1	1.0	1.2	1.5	1.7	2.2

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -21.5	6.9 / -14.1
	1.5H	9.7 / -23.4	9.7 / -14.5
	2.0H	11.7 / -24.2	11.7 / -14.8