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**Blade R downlight**

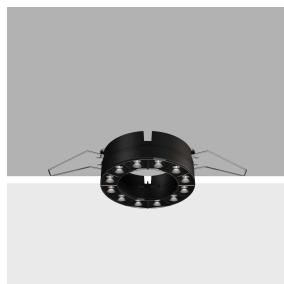
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Last information update: October 2024

## Product configuration: QS89

QS89: Minimal Ø 129 - Medium beam - LED



## Product code

QS89: 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	Weight (Kg)
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White (01)   Black (04)   Gold (14)*   Burnished chrome (E6)*	0.54
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## 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.

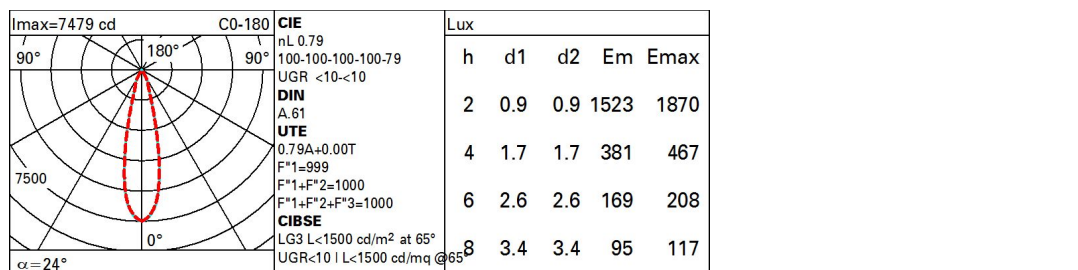
Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	1659	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W system:	26.8	Voltage [Vin]:	230
Im source:	2100	Lamp code:	LED
W source:	24	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	61.9	ZVEI Code:	LED
Im 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 B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
CRI (minimum):	90	Minimum dimming %:	1
Colour temperature [K]:	2700	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	2	Control:	DALI-2

## Polar



# 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 2100 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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										
2H	2H	3.2	5.2	3.5	5.6	5.9	3.0	5.1	3.3	5.4	5.7
	3H	3.0	4.6	3.4	4.9	5.3	2.8	4.4	3.2	4.7	5.1
	4H	2.9	4.3	3.3	4.6	5.0	2.8	4.1	3.1	4.4	4.8
	6H	2.9	3.9	3.3	4.3	4.6	2.7	3.8	3.1	4.1	4.5
	8H	2.8	3.9	3.2	4.2	4.6	2.7	3.7	3.1	4.1	4.4
	12H	2.8	3.8	3.2	4.2	4.6	2.6	3.6	3.0	4.0	4.4
4H	2H	2.9	4.3	3.3	4.6	5.0	2.8	4.1	3.1	4.4	4.8
	3H	2.8	3.8	3.2	4.2	4.6	2.6	3.6	3.0	4.0	4.4
	4H	2.7	3.7	3.1	4.1	4.5	2.5	3.5	2.9	3.9	4.3
	6H	2.3	4.0	2.8	4.4	4.9	2.1	3.8	2.6	4.2	4.7
	8H	2.2	4.0	2.7	4.5	5.0	2.0	3.9	2.5	4.3	4.8
	12H	2.1	4.0	2.6	4.5	5.0	1.9	3.8	2.4	4.3	4.8
8H	4H	2.2	4.0	2.7	4.5	5.0	2.0	3.9	2.5	4.3	4.8
	6H	2.1	3.8	2.6	4.3	4.9	1.9	3.7	2.4	4.1	4.7
	8H	2.1	3.6	2.6	4.1	4.6	1.9	3.4	2.4	3.9	4.5
	12H	2.2	3.2	2.7	3.7	4.2	2.0	3.0	2.5	3.5	4.1
12H	4H	2.1	4.0	2.6	4.5	5.0	1.9	3.8	2.4	4.3	4.8
	6H	2.1	3.6	2.6	4.1	4.6	1.9	3.4	2.4	3.9	4.5
	8H	2.2	3.2	2.7	3.7	4.2	2.0	3.0	2.5	3.5	4.1
Variations with the observer position at spacing:											
S =		1.0H	6.6 / -40.0				6.7 / -40.2				
		1.5H	8.0 / -54.2				7.8 / -45.1				
		2.0H	8.8 / -53.4				8.6 / -47.6				