

## Reflex

Design iGuzzini

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### Product configuration: Q989

Q989: adjustable luminaire - Ø 125 mm - warm white - medium optic - frame



### Product code

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### Technical description

Round adjustable luminaire designed to use an LED lamp with C.O.B. technology in a warm white colour tone 2700K (CRI 90). Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

### Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

### Weight (Kg)

0.8

### Mounting

ceiling recessed

### Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations



### Technical data

lm system:	963	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	19.1	Lamp code:	LED
lm source:	2100	Number of lamps for optical assembly:	1
W source:	17	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	50.4	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	16 A / 220 µs
Light Output Ratio (L.O.R.) [%]:	46	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires
Beam angle [°]:	20° / 22°	Overvoltage protection:	2kV Common mode & 1kV Differential mode
CRI (minimum):	90	Dimming mode:	PWM
Colour temperature [K]:	2700	Control:	DALI
MacAdam Step:	2		

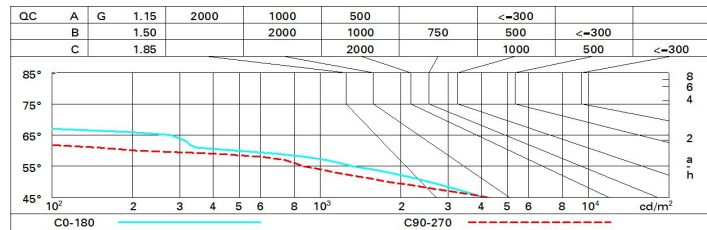
### Polar

Imax=3762 cd		C0-180		CIE		Lux	
90°		180°		nL 0.46		h	d1
				98-100-100-100-46		d2	Em
				UGR <10-10		Emax	
				DIN			
				A.61			
				UTE			
				0.46A+0.00T			
				F*1=990			
				F*1+F*2=999			
				F*1+F*2+F*3=1000			
				CIBSE			
				LG3 L<1500 cd/m² at 65°			
				UGR<10   L<1500 cd/m² @ 65°			
α=20° / 22°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	41	39	37	36	38	37	37	35	77
1.0	43	41	40	38	40	39	39	37	82
1.5	45	44	43	42	43	42	42	40	88
2.0	47	46	45	44	45	44	44	42	92
2.5	47	47	46	45	46	45	45	44	95
3.0	48	48	47	47	47	46	46	45	97
4.0	49	48	48	48	47	47	46	45	99
5.0	49	49	48	48	48	48	47	46	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 2100 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	2.8	3.3	3.0	3.5	3.8	7.0	7.6	7.3	7.8	8.0
	3H	2.7	3.2	3.0	3.4	3.7	6.9	7.4	7.2	7.6	7.9
	4H	2.6	3.1	2.9	3.4	3.7	6.8	7.3	7.1	7.6	7.9
	6H	2.5	3.0	2.9	3.3	3.6	6.7	7.2	7.1	7.5	7.8
	8H	2.5	2.9	2.8	3.2	3.6	6.7	7.1	7.0	7.4	7.8
	12H	2.4	2.8	2.8	3.2	3.5	6.6	7.0	7.0	7.4	7.7
4H	2H	2.6	3.1	2.9	3.4	3.7	6.8	7.3	7.1	7.5	7.8
	3H	2.5	2.9	2.9	3.2	3.6	6.6	7.0	7.0	7.4	7.7
	4H	2.4	2.8	2.8	3.1	3.5	6.6	6.9	7.0	7.3	7.7
	6H	2.3	2.6	2.8	3.0	3.5	6.5	6.8	6.9	7.2	7.6
	8H	2.3	2.6	2.7	3.0	3.4	6.4	6.7	6.9	7.1	7.6
	12H	2.2	2.5	2.7	2.9	3.4	6.4	6.6	6.8	7.1	7.5
8H	4H	2.3	2.6	2.7	3.0	3.4	6.4	6.7	6.9	7.1	7.6
	6H	2.2	2.4	2.7	2.9	3.4	6.3	6.6	6.8	7.0	7.5
	8H	2.1	2.3	2.6	2.8	3.3	6.3	6.5	6.8	6.9	7.4
	12H	2.1	2.3	2.6	2.8	3.3	6.2	6.4	6.7	6.9	7.4
12H	4H	2.2	2.5	2.7	2.9	3.4	6.4	6.6	6.8	7.1	7.5
	6H	2.1	2.3	2.6	2.8	3.3	6.3	6.5	6.8	6.9	7.4
	8H	2.1	2.3	2.6	2.8	3.3	6.2	6.4	6.7	6.9	7.4
Variations with the observer position at spacing:											
S =	1.0H	3.0 / -7.9					3.9 / -9.4				
	1.5H	4.7 / -8.8					6.6 / -18.6				
	2.0H	6.6 / -13.5					8.6 / -19.7				