

Last information update: April 2024

Product configuration: Q974

Q974: Fixed circular recessed luminaire - Ø153 mm - warm white - medium optic - UGR<19

**Product code**

Q974: Fixed circular recessed luminaire - Ø153 mm - warm white - medium optic - UGR<19

Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m² α>65° medium optic.

Installation

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

Weight (Kg)

1.22

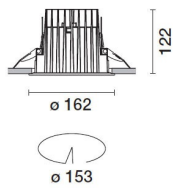
Mounting

ceiling recessed

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2776	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	31.2	Lamp code:	LED
lm source:	3200	Number of lamps for optical assembly:	1
W source:	28	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	89	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:	18 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	87	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Beam angle [°]:	24°	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	2700	Dimming mode:	CCR
MacAdam Step:	2	Control:	DALI

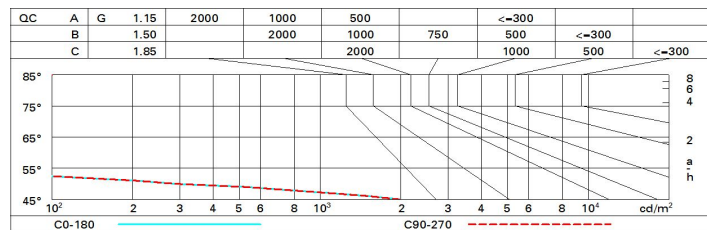
Polar

	CIE nL 0.87 99-100-100-100-87 UGR 15.7-15.7 DIN A.61 UTE 0.87A+0.00T F*1=993 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m ² at 65° UGR<16 L<1500 cd/mq @65°			
	h	d	Em	Emax
	2	0.9	2056	2698
	4	1.7	514	675
	6	2.6	228	300
	8	3.4	128	169

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	78	74	71	69	73	71	70	68	78
1.0	82	78	75	73	77	75	74	72	83
1.5	86	83	81	79	82	80	79	77	88
2.0	88	86	85	83	85	84	83	80	93
2.5	90	89	87	86	87	86	85	83	96
3.0	91	90	89	88	89	88	87	85	98
4.0	92	91	91	90	90	89	88	86	99
5.0	93	92	92	91	91	90	89	87	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3200 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		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
		viewed crosswise					viewed endwise				
2H	2H	16.6	18.3	16.9	18.6	18.9	16.6	18.3	16.9	18.6	18.9
	3H	16.4	17.7	16.8	18.0	18.3	16.4	17.7	16.8	18.0	18.3
	4H	16.3	17.5	16.7	17.8	18.1	16.3	17.5	16.7	17.8	18.1
	6H	16.2	17.3	16.6	17.7	18.0	16.2	17.3	16.6	17.7	18.0
	8H	16.2	17.3	16.6	17.6	18.0	16.2	17.3	16.6	17.6	18.0
	12H	16.2	17.2	16.6	17.6	17.9	16.2	17.2	16.6	17.6	17.9
4H	2H	16.3	17.5	16.7	17.8	18.1	16.3	17.5	16.7	17.8	18.1
	3H	16.2	17.2	16.6	17.6	17.9	16.2	17.2	16.6	17.6	17.9
	4H	16.0	17.0	16.5	17.4	17.8	16.0	17.0	16.5	17.4	17.8
	6H	15.8	17.1	16.3	17.5	18.0	15.8	17.1	16.3	17.5	18.0
	8H	15.7	17.2	16.2	17.6	18.1	15.7	17.2	16.2	17.6	18.1
	12H	15.5	17.2	16.0	17.7	18.2	15.5	17.2	16.0	17.7	18.2
8H	4H	15.7	17.2	16.2	17.6	18.1	15.7	17.2	16.2	17.6	18.1
	6H	15.5	17.0	16.0	17.5	18.0	15.5	17.0	16.0	17.5	18.0
	8H	15.5	16.8	16.0	17.3	17.8	15.5	16.8	16.0	17.3	17.8
	12H	15.6	16.5	16.1	17.0	17.6	15.6	16.5	16.1	17.0	17.6
12H	4H	15.5	17.2	16.0	17.7	18.2	15.5	17.2	16.0	17.7	18.2
	6H	15.5	16.8	16.0	17.3	17.8	15.5	16.8	16.0	17.3	17.8
	8H	15.6	16.5	16.1	17.0	17.6	15.6	16.5	16.1	17.0	17.6
Variations with the observer position at spacing:											
S =	1.0H	5.1 / -31.3					5.1 / -31.3				
	1.5H	7.9 / -31.6					7.9 / -31.6				
	2.0H	9.9 / -31.8					9.9 / -31.8				