

Last information update: May 2025

**Product configuration: QP81**

QP81: Fixed circular recessed luminaire - Ø 104 mm - neutral white - medium optic - UGR&lt;19

**Product code**

QP81: Fixed circular recessed luminaire - Ø 104 mm - neutral white - medium optic - UGR&lt;19

**Technical description**

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version without rim for mounting flush with ceiling. 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 neutral white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m<sup>2</sup> α>65° medium optic.

**Installation**

Installation flush with the ceiling is for false ceilings 12.5 mm thick

**Colour**

Aluminium (12)

**Weight (Kg)**

0.68

**Mounting**

ceiling recessed

**Wiring**

product complete with TRIAC components

Complies with EN60598-1 and pertinent regulations



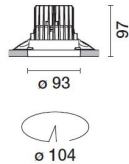
IP20

IP43

On the visible part of the product once installed



pending

**Technical data**

lm system:	1421	CRI (minimum):	80
W system:	14.5	Colour temperature [K]:	4000
lm source:	1950	MacAdam Step:	2
W source:	12	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	98	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	73	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	TRIAC

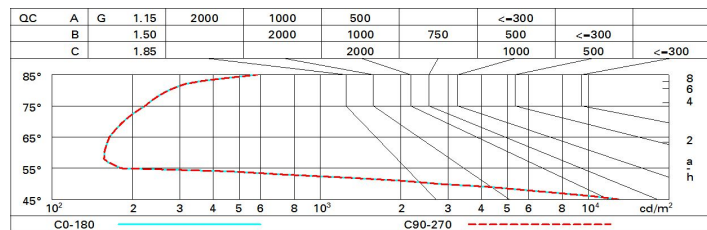
**Polar**

Imax=4420 cd		CIE		Lux			
90°		nL 0.73		h	d	Em	Emax
180°		97-100-100-100-73		2	0.9	861	1105
90°		UGR 17.1-17.1		4	1.7	215	276
0°		DIN A.61		6	2.6	96	123
α=24°		UTE 0.73A+0.00T		8	3.4	54	69
		F*1=973					
		F*1+F*2=999					
		F*1+F*2+F*3=1000					
		CIBSE LG3 L<1500 cd/m <sup>2</sup> at 65°					
		UGR<19   L<1500 cd/mq @ 65°					

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	61	59	57	61	58	58	56	77
1.0	68	65	62	61	64	62	62	59	81
1.5	72	69	67	66	68	67	66	64	88
2.0	74	72	71	70	71	70	69	67	92
2.5	75	74	73	72	73	72	71	69	95
3.0	76	75	75	74	74	73	73	71	97
4.0	77	76	76	75	75	75	74	72	99
5.0	78	77	77	76	76	76	74	73	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1950 lm bare lamp luminous flux)											
Reflect.: ceiling/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	17.9	19.6	18.3	19.9	20.2	17.9	19.6	18.3	19.9	20.2
	3H	17.8	19.1	18.2	19.4	19.7	17.8	19.1	18.2	19.4	19.7
	4H	17.7	18.9	18.1	19.2	19.5	17.7	18.9	18.1	19.2	19.5
	6H	17.6	18.8	18.0	19.1	19.5	17.6	18.8	18.0	19.1	19.5
	8H	17.6	18.7	18.0	19.1	19.4	17.6	18.7	18.0	19.1	19.4
	12H	17.5	18.6	17.9	19.0	19.4	17.5	18.6	17.9	19.0	19.4
4H	2H	17.7	18.9	18.1	19.2	19.5	17.7	18.9	18.1	19.2	19.5
	3H	17.5	18.6	17.9	19.0	19.4	17.5	18.6	17.9	19.0	19.4
	4H	17.4	18.4	17.8	18.8	19.2	17.4	18.4	17.8	18.8	19.2
	6H	17.2	18.5	17.7	18.9	19.4	17.2	18.5	17.7	18.9	19.4
	8H	17.1	18.5	17.6	18.9	19.4	17.1	18.5	17.6	18.9	19.4
	12H	16.9	18.5	17.4	19.0	19.5	16.9	18.5	17.4	19.0	19.5
8H	4H	17.1	18.5	17.6	18.9	19.4	17.1	18.5	17.6	18.9	19.4
	6H	16.9	18.4	17.4	18.9	19.4	16.9	18.4	17.4	18.9	19.4
	8H	16.9	18.2	17.4	18.7	19.2	16.9	18.2	17.4	18.7	19.2
	12H	17.0	17.9	17.5	18.4	18.9	17.0	17.9	17.5	18.4	18.9
12H	4H	16.9	18.5	17.4	19.0	19.5	16.9	18.5	17.4	19.0	19.5
	6H	16.9	18.2	17.4	18.7	19.2	16.9	18.2	17.4	18.7	19.2
	8H	17.0	17.9	17.5	18.4	18.9	17.0	17.9	17.5	18.4	18.9
Variations with the observer position at spacing:											
S =	1.0H	4.4 / -22.6					4.4 / -22.6				
	1.5H	7.2 / -22.8					7.2 / -22.8				
	2.0H	9.2 / -23.1					9.2 / -23.1				