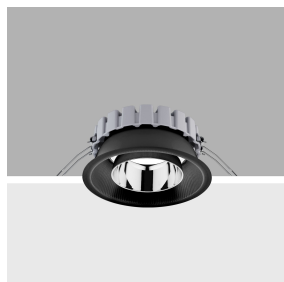


Last information update: February 2025

**Product configuration: QW21.F8**

QW21.F8: Ø 163 mm - warm white - INVERTER - UGR&lt;19 - Black / transparent / chrome

**Product code**

QW21.F8: Ø 163 mm - warm white - INVERTER - UGR&lt;19 - Black / transparent / chrome

**Technical description**

Round fixed luminaire designed to use LED lamps with C.o.B. technology. Version with rim for surface-mounting. Prismatic thermoplastic reflector complete with flux enhancer and anti-glare screen located at the centre of the optic. The anti-glare screen is made of thermoplastic vacuum-metallised with aluminium vapours finished with a protective anti-scratch layer. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in warm white colour tone (3000K). Light emission UGR<19 L<3000 cd/m<sup>2</sup> ideal for environments with video terminals. Luminaire complete with inverter for safety light.

**Installation**

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

**Colour**

Black/transparent/chrome (F8)

**Weight (Kg)**

1.31

**Mounting**

ceiling surface

**Wiring**

product complete with INVERTER

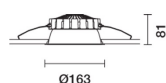
Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed

**Technical data**

lm system:	2686	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	28.7	Lamp code:	LED
lm source:	3400	Number of lamps for optical assembly:	1
W source:	21	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	93.6	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:	19.4 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	79	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 13 luminaires B16A: 21 luminaires C10A: 21 luminaires C16A: 35 luminaires
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3000	Control:	On/off
MacAdam Step:	2		

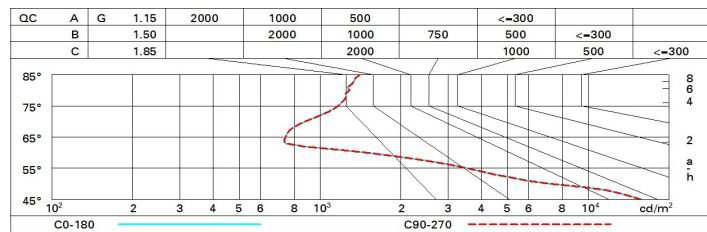
**Polar**

	Lux			
	h	d	Em	Emax
	2	2.1	604	786
	4	4.3	151	196
	6	6.4	67	87
	8	8.5	38	49

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	64	61	59	64	61	60	58	73
1.0	72	68	66	63	68	65	65	62	78
1.5	77	74	71	70	73	71	70	67	85
2.0	79	77	76	74	76	75	74	71	90
2.5	81	79	78	77	78	77	76	74	93
3.0	82	81	80	79	80	79	78	75	96
4.0	83	82	82	81	81	80	79	77	97
5.0	84	83	82	82	82	81	80	78	98

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3400 lm bare lamp luminous flux)											
Reflect.: ceil/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	16.7	17.4	17.0	17.6	17.9	16.7	17.4	17.0	17.6	17.9
	3H	16.6	17.2	16.9	17.5	17.7	16.6	17.2	16.9	17.5	17.7
	4H	16.5	17.1	16.9	17.4	17.7	16.5	17.1	16.8	17.4	17.7
	6H	16.5	17.0	16.8	17.3	17.6	16.4	16.9	16.8	17.3	17.6
	8H	16.4	16.9	16.8	17.3	17.6	16.4	16.9	16.8	17.2	17.6
	12H	16.4	16.9	16.8	17.2	17.6	16.4	16.8	16.7	17.2	17.5
4H	2H	16.5	17.1	16.8	17.4	17.7	16.5	17.1	16.9	17.4	17.7
	3H	16.4	16.9	16.8	17.2	17.5	16.4	16.9	16.8	17.2	17.6
	4H	16.3	16.7	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
	6H	16.3	16.6	16.7	17.0	17.5	16.2	16.6	16.7	17.0	17.4
	8H	16.3	16.6	16.7	17.0	17.4	16.2	16.5	16.6	17.0	17.4
	12H	16.2	16.5	16.7	17.0	17.4	16.2	16.5	16.6	16.9	17.4
8H	4H	16.2	16.5	16.6	17.0	17.4	16.3	16.6	16.7	17.0	17.4
	6H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.7	16.9	17.4
	8H	16.2	16.4	16.6	16.9	17.4	16.2	16.4	16.6	16.9	17.4
	12H	16.1	16.3	16.6	16.8	17.4	16.1	16.3	16.6	16.8	17.3
12H	4H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.7	17.0	17.4
	6H	16.1	16.4	16.6	16.8	17.3	16.2	16.4	16.7	16.9	17.4
	8H	16.1	16.3	16.6	16.8	17.3	16.1	16.3	16.6	16.8	17.4
Variations with the observer position at spacing:											
S =	1.0H	3.9 / -7.0					3.9 / -7.0				
	1.5H	6.5 / -9.3					6.5 / -9.3				
	2.0H	8.5 / -9.5					8.5 / -9.5				