Pixel Pro

Design Iosa Ghini   **iGuzzini**

Last information update: May 2024

Product configuration: Q221
Q221: rectangular recessed luminaire with 3 optical assemblies - neutral white passive dissipation LEDs - integrated electronic control gear - wide flood

Product code
Q221: rectangular recessed luminaire with 3 optical assemblies - neutral white passive dissipation LEDs - integrated electronic control gear - wide flood **Attention! Code no longer in production**

Technical description
Multiple recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp bodies with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chrome-plated aluminium lamp body closing rings. Reflectors with high efficiency super-pure aluminium optic - wide flood beam angle. Bodies adjusted using manually operated device: internal 29° - external 75° - rotation about axis 355°. During adjustment and rotation the lamp bodies are subject to some limitations. Consult the instruction sheet. Supplied with electronic control gear units connected to the luminaire. Neutral white high efficiency LED.

Installation
recessed: preparation slot 138 x 386 mm; perimeter frame preliminary fixing on false ceiling (min. thickness 1 mm) with adjustable metal brackets; main structure inserted and mechanically locked on the frame

Colour
White / Aluminium (39) | Grey / Black / Aluminium (E1)

Mounting
ceiling recessed

Wiring
on control gear box with quick-coupling connections; each lamp body has a specific ballast, allowing separate switch ons

Notes
the configuration of the lamp bodies causes some limitations during angling and rotation; consult the instruction leaflet

Complies with EN60598-1 and pertinent regulations

IP20 CE pending

Technical data

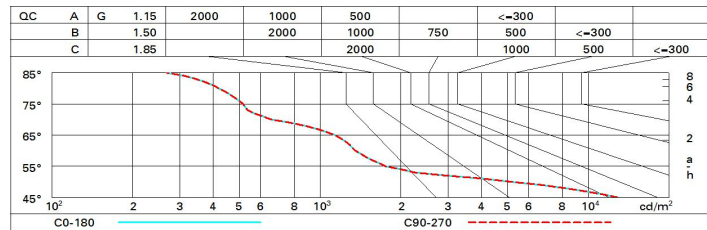|			
lm system:	7014	CRI:	80
W system:	74	Colour temperature [K]:	4000
lm source:	3000	MacAdam Step:	2
W source:	21	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	94.8	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	78	Number of optical assemblies:	3
Beam angle [°]:	54°		

Polar

Imax=3107 cd

CIE
nL 0.78
97-100-100-100-78
UGR 16.4-16.4
DIN
A.61
UTE
0.78A+0.00T
F"1=965
F"1+F"2=997
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @65°

α=54°

Lux			
h	d	Em	Emax
2	2	600	773
4	4.1	150	193
6	6.1	67	86
8	8.2	38	48

398x151
109
386x138

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	60	65	62	62	59	76
1.0	72	69	66	65	68	66	66	63	81
1.5	76	74	72	70	73	71	70	68	87
2.0	79	77	75	74	76	75	74	71	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	80	80	79	79	78	77	75	97
4.0	83	82	81	81	80	80	79	77	98
5.0	83	82	82	82	81	81	79	78	99

Luminance curve limit

QC	A	G	1.15	2000		1000		500		<=300			
	B		1.50			2000		1000		750	500	<=300	
	C		1.85					2000			1000	500	<=300

85°									8 6 4
75°									
65°									2
55°									a i h
45°	10^2	2	3	4 5 6	8 10^3		2	3	4 5 6 8 10^4 cd/m²

C0-180 ————   C90-270 - - - - - - -

UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)

Riflect.:												
ceil/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				viewed					viewed			
x	y			crosswise					endwise			
2H	2H	17.0	17.6	17.2	17.8	18.1	17.0	17.6	17.2	17.8	18.1	
	3H	16.8	17.4	17.1	17.7	17.9	16.8	17.4	17.1	17.7	17.9	
	4H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9	
	6H	16.7	17.2	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.8	
	8H	16.7	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8	
	12H	16.6	17.1	17.0	17.4	17.7	16.6	17.1	17.0	17.4	17.7	
4H	2H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9	
	3H	16.6	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8	
	4H	16.5	16.9	16.9	17.3	17.7	16.5	16.9	16.9	17.3	17.7	
	6H	16.4	16.8	16.9	17.2	17.6	16.4	16.8	16.9	17.2	17.6	
	8H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6	
	12H	16.4	16.6	16.8	17.1	17.5	16.4	16.6	16.8	17.1	17.5	
8H	4H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6	
	6H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5	
	8H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4	
	12H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4	
12H	4H	16.4	16.6	16.8	17.1	17.5	16.4	16.6	16.8	17.1	17.5	
	6H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4	
	8H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4	

Variations with the observer position at spacing:

S =	1.0H	5.1 / -13.5	5.1 / -13.5
	1.5H	7.9 / -14.7	7.9 / -14.7
	2.0H	9.9 / -15.9	9.9 / -15.9