Pixel Plus

Design iGuzzini   **iGuzzini**

Last information update: May 2024

Product configuration: Q247
Q247: extractable, adjustable, recessed LED luminaire - DALI control gear included

Product code
Q247: extractable, adjustable, recessed LED luminaire - DALI control gear included

Technical description
Extractable, adjustable, recessed luminaire for warm white LED lamp with high color rendering index. Passive heat dispersion system. Die-cast aluminium main body and frame; stainless steel rotation hinge. Rotation ring with safety cover in a high resistance thermoplastic material. Body adjusted with a manual manoeuvre device: internal 40° - external 65° - rotation on 355° axis. Reflector with high efficiency super-pure aluminium optic - spot beam angle. Die-cast aluminium lamp body closure ring. Tempered transparent glass screen. Dimmerable DALI control gear supplied and connected to the luminaire.

Installation
recessed using steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 125 mm

Weight (Kg)
0.85

Mounting
ceiling recessed

Wiring
on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

IP20   IP23   On the visible part of the product once installed   CE   UKCA   EAC   NOM

Technical data

lm system:	2356	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	27.4	Lamp code:	LED
lm source:	3060	Number of lamps for optical assembly:	1
W source:	24		
Luminous efficiency (lm/W, real value):	86	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
		Inrush current:	18 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	77	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires
Beam angle [°]:	18°		B16A: 34 luminaires
CRI (minimum):	90		C10A: 35 luminaires
Colour temperature [K]:	3000		C16A: 57 luminaires
MacAdam Step:	2	Minimum dimming %:	1
		Overvoltage protection:	2kV Common mode & 1kV Differential mode
		Dimming mode:	CCR
		Control:	DALI

Polar

Imax=7548 cd

CIE
nL 0.77
94-100-100-100-77
UGR 21.8-21.8
DIN
A.61
UTE
0.77A+0.00T
F"1=941
F"1+F"2=995
F"1+F"2+F"3=999

α = 18°

Lux			
h	d	Em	Emax
2	0.6	1504	1887
4	1.3	376	472
6	1.9	167	210
8	2.5	94	118

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	63	61	58	63	60	60	57	74
1.0	71	67	65	63	66	64	64	61	79
1.5	75	72	70	68	71	69	69	66	86
2.0	78	76	74	73	75	73	72	70	91
2.5	79	78	76	75	77	75	75	72	94
3.0	80	79	78	77	78	77	76	74	96
4.0	81	80	80	79	79	79	77	75	98
5.0	82	81	81	80	80	79	78	76	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

| C0-180 | C90-270 |
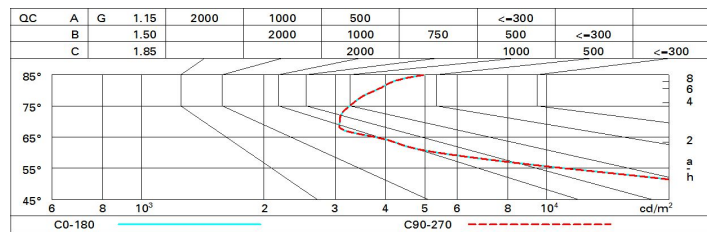
UGR diagram

Corrected UGR values (at 3060 lm bare lamp luminous flux)

Riflect.: ceil/cav	walls	work pl.										
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 x	y	viewed crosswise					viewed endwise				
2H	2H	22.6	24.1	22.9	24.4	24.7	22.6	24.1	22.9	24.4	24.7
	3H	22.5	23.6	22.8	23.9	24.2	22.5	23.6	22.8	23.9	24.2
	4H	22.4	23.4	22.7	23.7	24.1	22.4	23.4	22.7	23.7	24.1
	6H	22.2	23.4	22.6	23.7	24.1	22.2	23.4	22.6	23.7	24.1
	8H	22.2	23.3	22.6	23.7	24.1	22.2	23.3	22.6	23.7	24.0
	12H	22.2	23.3	22.6	23.6	24.0	22.1	23.3	22.5	23.6	24.0
4H	2H	22.4	23.4	22.7	23.7	24.1	22.4	23.4	22.7	23.7	24.1
	3H	22.2	23.3	22.6	23.6	24.0	22.2	23.3	22.6	23.6	24.0
	4H	22.0	23.1	22.5	23.5	23.9	22.0	23.1	22.5	23.5	23.9
	6H	21.9	23.1	22.3	23.5	24.0	21.9	23.1	22.3	23.5	23.9
	8H	21.8	23.1	22.3	23.5	24.0	21.8	23.1	22.2	23.5	24.0
	12H	21.7	23.1	22.2	23.6	24.1	21.6	23.1	22.1	23.5	24.0
8H	4H	21.8	23.1	22.2	23.5	24.0	21.8	23.1	22.3	23.5	24.0
	6H	21.6	23.0	22.1	23.4	23.9	21.7	23.0	22.2	23.4	23.9
	8H	21.6	22.8	22.1	23.3	23.8	21.6	22.8	22.1	23.3	23.8
	12H	21.7	22.6	22.2	23.1	23.6	21.7	22.6	22.2	23.0	23.6
12H	4H	21.6	23.1	22.1	23.5	24.0	21.7	23.1	22.2	23.6	24.1
	6H	21.6	22.8	22.1	23.3	23.8	21.6	22.8	22.2	23.3	23.8
	8H	21.7	22.6	22.2	23.0	23.6	21.7	22.6	22.2	23.1	23.6

Variations with the observer position at spacing:

S =	1.0H	3.8 / -10.2	3.8 / -10.2
	1.5H	6.5 / -12.2	6.5 / -12.2
	2.0H	8.5 / -12.7	8.5 / -12.7