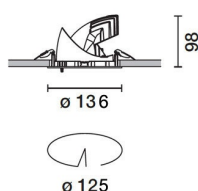# Pixel Plus

Design iGuzzini   **iGuzzini**

Last information update: May 2024

Product configuration: Q240
Q240: extractable, adjustable, recessed LED luminaire - electronic control gear included

Product code
Q240: extractable, adjustable, recessed LED luminaire - electronic control gear included **Attention! Code no longer in production**

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 - wideflood beam angle. Die-cast aluminium lamp body closure ring. Tempered transparent glass screen. Electronic 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

Colour	**Weight (Kg)**
White (01)	0.85

Mounting
ceiling recessed

Wiring
on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

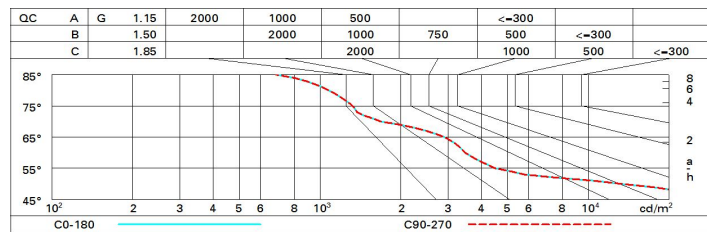IP20   IP23   On the visible part of the product once installed

Technical data

lm system:	2182	CRI:	90
W system:	28.3	Colour temperature [K]:	3000
lm source:	2800	MacAdam Step:	2
W source:	24	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	77.1	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:	1
Beam angle [°]:	54°		

Polar

Imax=2900 cd

CIE
nL 0.78
97-100-100-100-78
UGR 19.7-19.7
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<3000 cd/m² at 65°

α=54°

h	d	Em	Emax
2	2	560	722
4	4.1	140	180
6	6.1	62	80
8	8.2	35	45

ø 136
ø 125
98
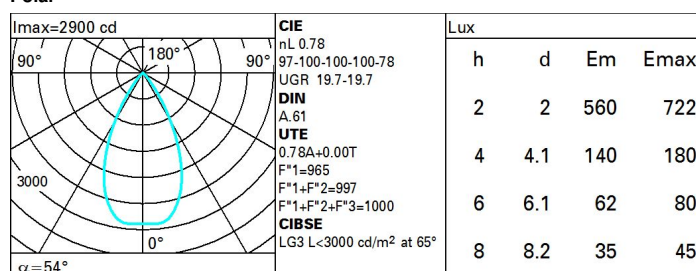
Utilisation factors

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

C0-180 ────────── C90-270 ─ ─ ─ ─ ─ ─ ─

UGR diagram

Corrected UGR values (at 2800 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	20.2	20.9	20.5	21.1	21.3	20.2	20.9	20.5	21.1	21.3
	3H	20.1	20.7	20.4	20.9	21.2	20.1	20.7	20.4	20.9	21.2
	4H	20.0	20.6	20.4	20.8	21.1	20.0	20.6	20.4	20.8	21.1
	6H	20.0	20.4	20.3	20.8	21.1	20.0	20.4	20.3	20.7	21.1
	8H	19.9	20.4	20.3	20.7	21.0	19.9	20.4	20.3	20.7	21.0
	12H	19.9	20.3	20.3	20.7	21.0	19.9	20.3	20.3	20.7	21.0
4H	2H	20.0	20.6	20.4	20.8	21.1	20.0	20.6	20.4	20.8	21.1
	3H	19.9	20.3	20.3	20.7	21.0	19.9	20.3	20.3	20.7	21.0
	4H	19.8	20.2	20.2	20.6	20.9	19.8	20.2	20.2	20.6	20.9
	6H	19.7	20.1	20.1	20.5	20.9	19.7	20.1	20.1	20.5	20.9
	8H	19.7	20.0	20.1	20.4	20.8	19.7	20.0	20.1	20.4	20.8
	12H	19.6	19.9	20.1	20.3	20.8	19.6	19.9	20.1	20.3	20.8
8H	4H	19.7	20.0	20.1	20.4	20.8	19.7	20.0	20.1	20.4	20.8
	6H	19.6	19.8	20.1	20.3	20.8	19.6	19.8	20.1	20.3	20.8
	8H	19.5	19.7	20.0	20.2	20.7	19.5	19.7	20.0	20.2	20.7
	12H	19.5	19.7	20.0	20.2	20.7	19.5	19.7	20.0	20.2	20.7
12H	4H	19.6	19.9	20.1	20.3	20.8	19.6	19.9	20.1	20.3	20.8
	6H	19.5	19.7	20.0	20.2	20.7	19.5	19.7	20.0	20.2	20.7
	8H	19.5	19.7	20.0	20.2	20.7	19.5	19.7	20.0	20.2	20.7

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