Pixel Plus

Design iGuzzini **iGuzzini**

Last information update: December 2024

Product configuration: N390
N390: extractable, adjustable, recessed LED luminaire - DALI control gear included

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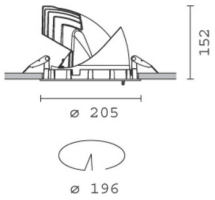
Technical description
Extractable, adjustable, recessed luminaire for neutral white LED lamp. Passive heat dispersion system. Die-cast aluminium main body and frame; stainless steel rotation hinge. Rotation ring with safety cover in a high resistance thermoplastic material. Body adjusted with a manual 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 195 mm



Colour
White (01)

Weight (Kg)
1.7

Mounting
ceiling recessed

Wiring
on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

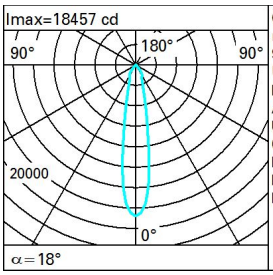
IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	4196
W system:	34.7
lm source:	5190
W source:	31
Luminous efficiency (lm/W, real value):	120.9
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	81
Beam angle [°]:	18°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	30 A / 200 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 2kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.81
97-99-100-100-81
UGR 18.5-18.5
DIN
A.61
UTE
0.81A+0.00T
F"1=965
F"1+F"2=995
F"1+F"2+F"3=999

Lux

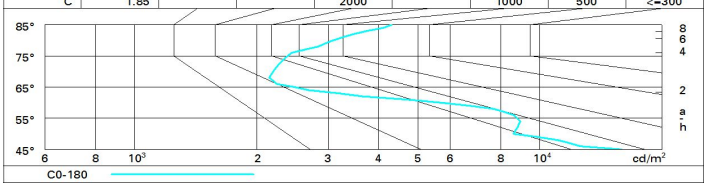
h	d	Em	Emax
2	0.6	3791	4614
4	1.3	948	1154
6	1.9	421	513
8	2.5	237	288

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	65	63	67	64	64	61	76
1.0	75	72	69	67	71	68	68	65	81
1.5	79	77	74	73	76	74	73	70	87
2.0	82	80	78	77	79	77	76	74	92
2.5	83	82	81	80	81	80	79	76	95
3.0	84	83	82	82	82	81	80	78	97
4.0	86	85	84	83	83	83	82	80	98
5.0	86	86	85	85	84	84	82	80	99

Luminance curve limit

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



C0-180

UGR diagram

Corrected UGR values (at 5190 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 crosswise					viewed endwise		
x	y										
2H	2H	19.3	21.0	19.6	21.3	21.6	19.3	21.0	19.6	21.3	21.6
	3H	19.2	20.4	19.5	20.7	21.0	19.2	20.4	19.6	20.7	21.0
	4H	19.1	20.2	19.5	20.5	20.8	19.1	20.2	19.5	20.5	20.8
	6H	19.0	20.1	19.4	20.4	20.8	19.0	20.1	19.4	20.4	20.8
	8H	19.0	20.0	19.4	20.4	20.8	19.0	20.0	19.4	20.4	20.7
	12H	19.0	20.0	19.4	20.4	20.7	18.9	20.0	19.3	20.3	20.7
4H	2H	19.1	20.2	19.5	20.5	20.8	19.1	20.2	19.5	20.5	20.8
	3H	18.9	20.0	19.3	20.3	20.7	18.9	20.0	19.3	20.4	20.7
	4H	18.8	19.9	19.2	20.3	20.7	18.8	19.9	19.2	20.3	20.7
	6H	18.6	19.9	19.1	20.4	20.8	18.6	19.9	19.1	20.4	20.8
	8H	18.5	20.0	19.0	20.4	20.9	18.5	19.9	19.0	20.4	20.9
	12H	18.4	20.0	18.9	20.5	21.0	18.4	20.0	18.9	20.4	20.9
8H	4H	18.5	19.9	19.0	20.4	20.9	18.5	20.0	19.0	20.4	20.9
	6H	18.4	19.8	18.9	20.3	20.8	18.4	19.9	18.9	20.3	20.8
	8H	18.4	19.7	18.9	20.1	20.7	18.4	19.7	18.9	20.1	20.7
	12H	18.5	19.4	19.1	19.9	20.5	18.5	19.4	19.0	19.9	20.4
12H	4H	18.4	20.0	18.9	20.4	20.9	18.4	20.0	18.9	20.5	21.0
	6H	18.4	19.6	18.9	20.1	20.6	18.4	19.7	19.0	20.2	20.7
	8H	18.5	19.4	19.0	19.9	20.4	18.5	19.4	19.1	19.9	20.5

Variations with the observer position at spacing:

S =			
	1.0H	4.5 / -7.5	4.5 / -7.5
	1.5H	7.3 / -9.4	7.3 / -9.4
	2.0H	9.3 / -10.0	9.3 / -10.0