Pixel Pro

Design Iosa Ghini   **iGuzzini**
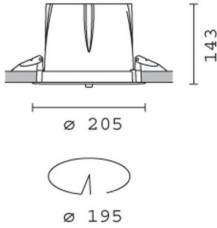
Last information update: June 2018

recessed luminaire Ø 205 - neutral white passive dissipation LED - integrated DALI control gear - flood

Product code
MP08

Technical description
recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Structure with die-cast aluminium frame and main body; shaped surface with high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Steel rotation hinge, chrome-plated aluminium body closing ring. High performance reflector made of super-pure aluminium - flood beam angle. Body adjusted using manually operated device: internal 30° - external 75° - rotation about axis 355°. Supplied with DALI dimmable control gear connected to the luminaire. Neutral white high efficiency LED.

Installation
recessed using steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 195

Dimension (mm)
Ø205x143

Colour
White/Aluminium (39) | Grey/Aluminium (78)

Weight (Kg)
2.22

Mounting
ceiling recessed

Wiring
on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

IP20

Product configuration: MP08

Product characteristics

Total lighting output [Lm]: 4096	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 34.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 119.8	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

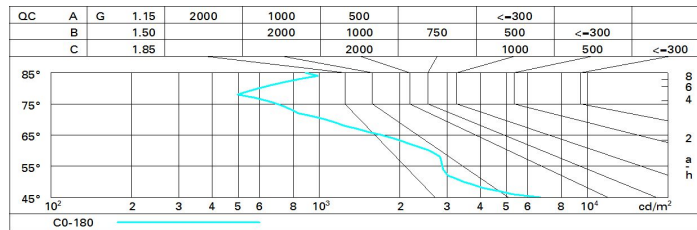|	
Light Output Ratio (L.O.R.) [%]: 82	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.2
Nominal power [W]: 31	Colour temperature [K]: 4000
Nominal luminous [Lm]: 5000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 36°	MacAdam Step: 2

Polar

Imax=9459 cd

CIE
nL 0.82
99-100-100-100-82
UGR 16.4-16.4
DIN
A.61
UTE
0.82A+0.00T
F"1=986
F"1+F"2=998
F"1+F"2+F"3=1000
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 I L<3000 cd/mq @65°

$\alpha = 36°$

Lux			
h	d	Em	Emax
2	1.3	1838	2365
4	2.6	459	591
6	3.9	204	263
8	5.2	115	148

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	67	65	69	66	66	63	77
1.0	77	73	71	69	73	70	70	67	82
1.5	81	78	76	74	77	75	75	72	88
2.0	83	81	80	79	80	79	78	76	92
2.5	85	83	82	81	82	81	80	78	95
3.0	86	85	84	83	84	83	82	80	97
4.0	87	86	86	85	85	84	83	81	99
5.0	87	87	86	86	86	85	84	82	100

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

UGR diagram

Corrected UGR values (at 5000 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	17.3	17.8	18.1	17.0	17.6	17.3	17.8	18.1
	3H	16.9	17.4	17.2	17.7	18.0	16.9	17.4	17.2	17.7	18.0
	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	17.1	17.5	17.8	16.7	17.2	17.1	17.5	17.8
	8H	16.7	17.1	17.0	17.5	17.8	16.7	17.1	17.0	17.5	17.8
	12H	16.6	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8
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	16.6	16.9	17.0	17.3	17.7	16.6	16.9	17.0	17.3	17.7
	6H	16.5	16.8	16.9	17.2	17.6	16.5	16.8	16.9	17.2	17.6
	8H	16.4	16.7	16.9	17.1	17.6	16.4	16.7	16.9	17.1	17.6
	12H	16.4	16.7	16.8	17.1	17.5	16.4	16.7	16.8	17.1	17.5
8H	4H	16.4	16.7	16.9	17.1	17.6	16.4	16.7	16.9	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	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	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	16.7	16.8	17.1	17.5	16.4	16.7	16.8	17.1	17.5
	6H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	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	5.8 / -12.5	5.8 / -12.5
	1.5H	8.6 / -13.5	8.6 / -13.5
	2.0H	10.6 / -15.2	10.6 / -15.2