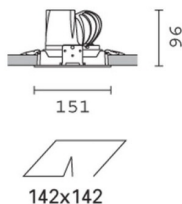
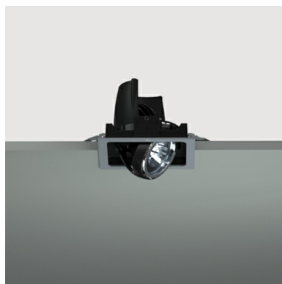


Last information update: June 2018



square recessed luminaire - warm white passive dissipation LED - integrated DALI control gear - medium

Product code
MP20**Technical description**

Recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Square sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp body 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 ring. Riflettore con ottica ad alta efficienza in alluminio superpuro - apertura medium. Orientamento del corpo con dispositivo di manovra manuale: interno 29° - esterno 75° - rotazione sull'asse 355°. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high colour rendering LEDs CRI (Ra) > 90.

Installation

recessed using steel springs for false ceilings with thicknesses starting at 1 mm; preparation slot 142 x 142 mm

Dimension (mm)

151x151x96

Colour

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

Weight (Kg)

0.93

Mounting

ceiling recessed

Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Product configuration: MP20****Product characteristics**

Total lighting output [Lm]: 1580
Total power [W]: 18.3
Luminous efficacy [Lm/W]: 86.3
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

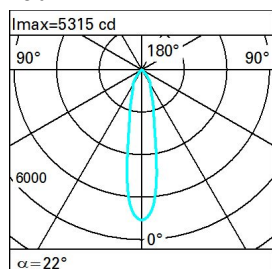
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 79
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 16
Nominal luminous [Lm]: 2000
Lamp maximum intensity [cd]: /
Beam angle [°]: 22°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.3
Colour temperature [K]: 3000
CRI: 90
Wavelength [nm]: /
MacAdam Step: 2

Polar

	Lux			
	h	d	Em	Emax
	2	0.8	1050	1329
	4	1.6	262	332
	6	2.3	117	148
$\alpha = 22^\circ$	8	3.1	66	83

CIE
nL 0.79
95-100-100-100-79
UGR 15.4-15.4

DIN
A.61

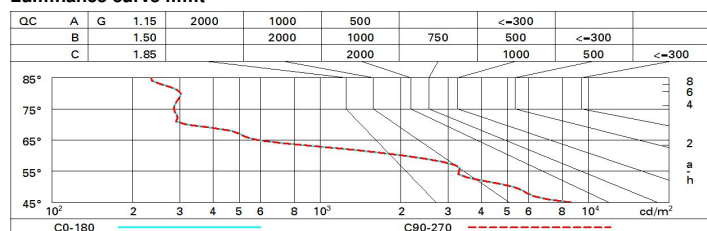
UTE
0.79A+0.00T
F*1=954
F*1+F*2=997
F*1+F*2+F*3=1000

CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 | L<1500 cd/mq @65°

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	63	61	65	62	62	59	75
1.0	73	70	67	65	69	66	66	63	80
1.5	77	75	72	71	74	72	71	68	87
2.0	80	78	76	75	77	75	74	72	91
2.5	81	80	79	78	79	78	77	75	94
3.0	82	81	80	80	80	79	78	76	96
4.0	84	83	82	81	81	81	80	78	98
5.0	84	83	83	83	82	82	80	78	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 2000 lm bare lamp luminous flux)											
Reflect.:											
ceiling/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	10.3	17.9	10.6	10.2	10.5	10.3	17.9	10.6	10.2	10.5
	3H	10.2	17.4	10.5	17.7	10.0	10.2	17.4	10.5	17.7	10.0
	4H	10.1	17.2	10.4	17.5	17.8	10.1	17.2	10.5	17.5	17.8
	6H	10.0	17.1	10.4	17.4	17.8	10.0	17.1	10.4	17.4	17.8
	8H	15.9	17.0	10.3	17.4	17.7	15.9	17.0	10.3	17.4	17.8
	12H	15.9	17.0	10.3	17.3	17.7	15.9	17.0	10.3	17.3	17.7
4H	2H	10.1	17.2	10.5	17.5	17.8	10.1	17.2	10.4	17.5	17.8
	3H	15.9	17.0	10.3	17.3	17.7	15.9	17.0	10.3	17.3	17.7
	4H	15.8	10.8	10.2	17.2	17.6	15.8	10.8	10.2	17.2	17.6
	6H	15.6	10.8	10.0	17.3	17.7	15.6	10.8	10.0	17.3	17.7
	8H	15.4	10.9	15.9	17.3	17.8	15.4	10.9	15.9	17.3	17.8
	12H	15.3	10.9	15.8	17.3	17.8	15.3	10.9	15.8	17.3	17.8
8H	4H	15.4	10.9	15.9	17.3	17.8	15.4	10.9	15.9	17.3	17.8
	6H	15.3	10.7	15.8	17.2	17.7	15.3	10.7	15.8	17.2	17.7
	8H	15.3	10.5	15.8	17.0	17.5	15.3	10.5	15.8	17.0	17.5
	12H	15.4	10.3	15.9	10.7	17.3	15.4	10.3	15.9	10.7	17.3
12H	4H	15.3	10.9	15.8	17.3	17.8	15.3	10.9	15.8	17.3	17.8
	6H	15.3	10.5	15.8	17.0	17.5	15.3	10.5	15.8	17.0	17.5
	8H	15.4	10.3	15.9	10.7	17.3	15.4	10.3	15.9	10.7	17.3
Variations with the observer position at spacing:											
S =	1.0H	4.3 / -9.6					4.3 / -9.6				
	1.5H	7.1 / -15.0					7.1 / -15.0				
	2.0H	9.1 / -18.0					9.1 / -18.0				