# Reflex

Design iGuzzini

Last information update: April 2018

iGuzzini



41 212x212 Square recessed luminaire - 226x226 mm H=103 mm - LED warm white - electronic ballast - general light optic with controlled luminance UGR<19

#### Product code

MC20

### **Technical description**

Recessed fixed square luminaire designed to use a LED lamp. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with 2000 Im LED unit in a warm white tone 3000K and electronic driver separate from the luminaire. Light distribution UGR<19 with controlled luminance.

#### Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

#### Dimension (mm)

226x226x100

### Colour

White/Aluminium (39)

# Weight (Kg)

1.98

### Mounting

ceiling recessed

# Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations



























# Product configuration: MC20

### Product characteristics

Total lighting output [Lm]: 1859.4

Total power [W]: 21

Luminous efficacy [Lm/W]: 88.5 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.) [%]: 93

Lamp code: LED ZVEI Code: LED Nominal power [W]: 18 Nominal luminous [Lm]: 2000

Lamp maximum intensity [cd]: /

Beam angle [°]: /

Number of lamps for optical assembly: 1

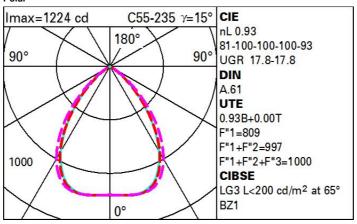
Socket:

Ballast losses [W]: 3 Colour temperature [K]: 3000

CRI: 80

Wavelength [Nm]: / MacAdam Step: 3

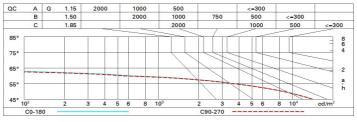
# Polar



# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	76	69	65	61	68	64	64	60	64
1.0	81	75	71	68	74	70	70	66	71
1.5	88	83	80	77	82	79	78	75	80
2.0	92	88	86	84	87	85	84	80	86
2.5	94	91	89	87	90	88	87	84	90
3.0	95	93	91	90	92	90	89	86	92
4.0	97	95	94	92	93	92	91	88	95
5.0	97	96	95	94	94	93	92	89	96

# Luminance curve limit



# UGR diagram

Rifled	ct.:											
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50 0.20	0.30	0.50 0.20	0.30	0.30 0.20	0.50 0.20	0.30 0.20	0.50	0.30	0.30	
												viewed
		X	У	crosswise					endwise			
2H	2H	18.3	19.1	18.6	19.4	19.6	18.3	19.1	18.6	19.4	19.6	
	ЗН	18.2	18.9	18.5	19.2	19.4	18.3	19.0	18.6	19.3	19.5	
	4H	18.1	18.8	18.4	19.1	19.4	18.2	18.9	18.5	19.1	19.5	
	6H	18.0	18.6	18.4	18.9	19.3	18.1	18.7	18.5	19.0	19.4	
	HS	18.0	18.6	18.4	18.9	19.2	18.1	18.7	18.5	19.0	19.3	
	12H	18.0	18.5	18.3	18.8	19.2	18.0	18.6	18.4	18.9	19.3	
4H	2H	18.2	18.8	18.5	19.1	19.4	18.1	18.8	18.5	19.1	19.4	
	ЗН	18.0	18.6	18.4	18.9	19.3	18.0	18.6	18.4	18.9	19.3	
	4H	17.9	18.4	18.3	18.8	19.2	18.0	18.4	18.4	18.8	19.2	
	бН	17.9	18.3	18.3	18.7	19.1	17.9	18.3	18.3	18.7	19.1	
	HS	17.8	18.2	18.3	18.6	19.0	17.8	18.2	18.3	18.6	19.1	
	12H	17.8	18.1	18.2	18.5	19.0	17.8	18.1	18.2	18.6	19.0	
вн	4H	17.8	18.2	18.3	18.6	19.0	17.8	18.2	18.3	18.6	19.1	
	6H	17.7	18.0	18.2	18.5	19.0	17.7	18.1	18.2	18.5	19.0	
	HS	17.7	17.9	18.2	18.4	18.9	17.7	18.0	18.2	18.4	18.9	
	12H	17.6	17.9	18.1	18.3	18.9	17.6	17.9	18.1	18.4	18.9	
12H	4H	17.8	18.1	18.2	18.5	19.0	17.8	18.1	18.2	18.6	19.0	
	6H	17.7	17.9	18.2	18.4	18.9	17.7	18.0	18.2	18.4	18.9	
	H8	17.6	17.9	18.1	18.3	18.9	17.6	17.9	18.1	18.4	18.9	
Varia	tions wi	th the ob	serverp	osition	at spacin	g:						
S =	1.0H	2.2 / -5.9					2.2 / -6.0					
	1.5H 2.0H	3.5 / -25.3					3.6 / -26.5					