

Last information update: May 2024

Product configuration: MC23

MC23: Square recessed luminaire - 226x226 mm H=103 mm - LED neutral white - DALI ballast - general light optic with controlled luminance UGR<19

**Product code**MC23: Square recessed luminaire - 226x226 mm H=103 mm - LED neutral white - DALI ballast - general light optic with controlled luminance UGR<19 **Attention! Code no longer in production****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 lm DALI LED unit in a neutral white tone 4000K and 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.

Colour

White / Aluminium (39)

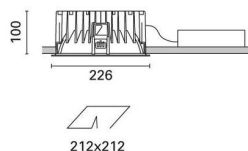
Mounting

ceiling recessed

Wiring

Product complete with DALI electronic components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1859	Colour temperature [K]:	4000
W system:	18.6	MacAdam Step:	3
lm source:	2000	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
W source:	16	Lamp code:	LED
Luminous efficiency (lm/W, real value):	100	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	93	Control:	DALI
CRI:	80		

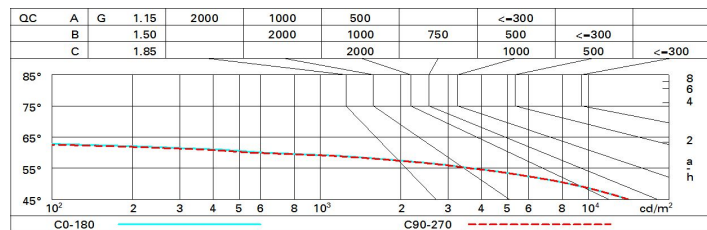
Polar

<p>Imax=1224 cd C55-235 γ=15° CIE nL 0.93 81-100-100-100-93 UGR 17.8-17.8 DIN A.61 UTE 0.93B+0.00T F*1=809 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @65°</p> <p>α = 76°</p>	Lux				
	h	d1	d2	Em	E _{max}
	1	1.6	1.6	893	1201
	2	3.1	3.1	223	300
	3	4.7	4.7	99	133
4	6.3	6.3	56	75	

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

Corrected UGR values (at 2000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	18.3	19.1	18.6	19.4	19.6	18.3	19.1	18.6	19.4	19.6
	3H	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
	8H	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
	3H	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
	6H	17.9	18.3	18.3	18.7	19.1	17.9	18.3	18.3	18.7	19.1
	8H	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
8H	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
	8H	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
	8H	17.6	17.9	18.1	18.3	18.9	17.6	17.9	18.1	18.4	18.9
Variations with the observer position at spacing:											
S =	1.0H	2.2 / -5.9					2.2 / -6.0				
	1.5H	3.5 / -25.3					3.6 / -20.5				
	2.0H	5.4 / -38.0					5.5 / -38.0				