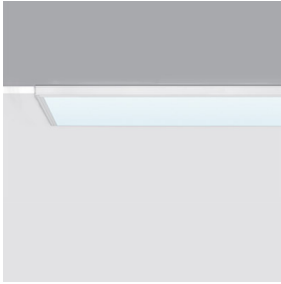


Last information update: May 2018

**1196 X 296 mm - warm white LED - electronic control gear - controlled luminance optic UGR<19****Product code**

MT23

**Technical description**

Direct emission recessed or ceiling-mounted luminaire (with accessories ordered separately) designed to use warm white 3,000K high colour rendering LEDs. The optical assembly consists of a white extruded frame, a satin methacrylate diffuser screen for controlled luminance UGR<19 emission and a sheet metal rear closing base. The LEDs are arranged inside the perimeter and the electronic driver is housed in the upper part of the product.

**Installation**

Recessed mounted in plasterboard suspended ceilings (with accessory frame), in suspended ceilings with frame; can be ceiling-mounted with a kit to be ordered separately as an accessory

**Dimension (mm)**

1196x296x14

**Colour**

White (01)

**Weight (Kg)**

5.8

**Mounting**

ceiling recessed|wall surface|ceiling surface

**Wiring**

product complete with electronic components

Complies with EN60598-1 and pertinent regulations

**Product configuration: MT23****Product characteristics**

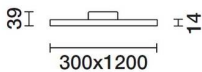
Total lighting output [Lm]: 3527.5  
 Total power [W]: 39.4  
 Luminous efficacy [Lm/W]: 89.5  
 Life Time: 50,000h - L80 - B10 (Ta 25°C)

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

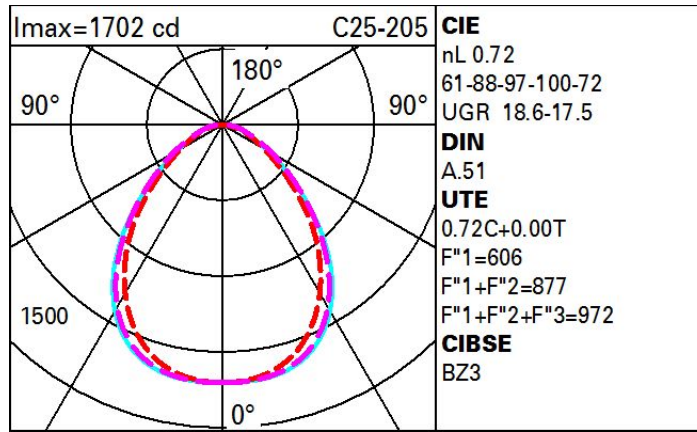
**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 72  
 Lamp code: LED  
 ZVEI Code: LED  
 Nominal power [W]: 31  
 Nominal luminous [Lm]: 4900  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: /

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 8.4  
 Colour temperature [K]: 3000  
 CRI: 80  
 Wavelength [Nm]: /  
 MacAdam Step: 3



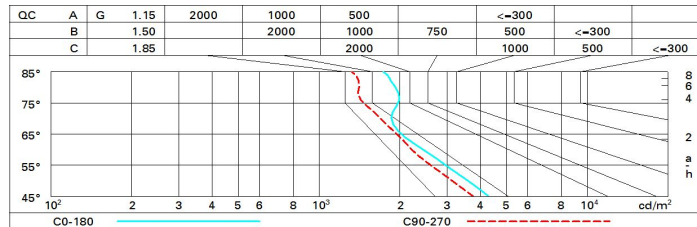
**Polar**



**Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	52	45	40	37	44	40	40	35	49
1.0	56	50	46	42	49	45	45	40	56
1.5	63	58	54	51	57	54	53	49	68
2.0	67	63	60	57	62	59	58	54	75
2.5	69	66	63	61	64	62	61	58	80
3.0	71	68	66	64	66	64	63	60	84
4.0	72	70	68	67	69	67	66	63	87
5.0	73	72	70	69	70	69	67	65	90

**Luminance curve limit**



**UGR diagram**

Corrected UGR values (at 4900 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
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 crosswise					viewed endwise				
x	y										
2H	2H	16.0	17.0	16.3	17.3	17.5	15.4	16.4	15.7	16.7	16.9
	3H	16.8	17.8	17.2	18.0	18.3	15.7	16.6	16.1	16.9	17.2
	4H	17.3	18.1	17.6	18.4	18.7	15.8	16.7	16.2	17.0	17.3
	6H	17.7	18.4	18.0	18.8	19.1	15.8	16.6	16.2	16.9	17.3
	8H	17.8	18.6	18.2	18.9	19.2	15.8	16.6	16.2	16.9	17.2
	12H	17.9	18.6	18.3	19.0	19.3	15.8	16.5	16.2	16.8	17.2
4H	2H	16.3	17.2	16.7	17.5	17.8	16.6	17.4	16.9	17.7	18.0
	3H	17.3	18.0	17.7	18.4	18.8	17.1	17.8	17.5	18.2	18.5
	4H	17.9	18.5	18.3	18.9	19.3	17.3	17.9	17.7	18.3	18.7
	6H	18.4	19.0	18.9	19.4	19.8	17.4	18.0	17.9	18.4	18.8
	8H	18.6	19.1	19.1	19.6	20.0	17.5	18.0	17.9	18.4	18.8
	12H	18.8	19.3	19.2	19.7	20.2	17.5	17.9	17.9	18.4	18.8
8H	4H	18.0	18.5	18.4	18.9	19.4	17.9	18.4	18.3	18.8	19.3
	6H	18.7	19.1	19.2	19.6	20.1	18.2	18.6	18.6	19.0	19.5
	8H	19.0	19.4	19.5	19.9	20.4	18.3	18.7	18.8	19.1	19.6
	12H	19.3	19.6	19.8	20.1	20.6	18.4	18.7	18.9	19.2	19.7
12H	4H	18.0	18.5	18.4	18.9	19.4	18.0	18.5	18.5	18.9	19.4
	6H	18.8	19.1	19.2	19.6	20.1	18.3	18.7	18.8	19.2	19.7
	8H	19.1	19.5	19.6	19.9	20.5	18.5	18.8	19.0	19.3	19.9
Variations with the observer position at spacing:											
S =	1.0H	0.2 / -0.3					0.2 / -0.3				
	1.5H	0.4 / -0.9					0.4 / -0.9				
	2.0H	1.0 / -1.2					0.9 / -1.3				