

Last information update: April 2018



Round recessed luminaire - D=226 mm H=103 mm - neutral white - electronic ballast, general light optic

**Product code**  
MB54

**Technical description**

Recessed fixed round luminaire designed to use a LED lamp. Version with rim for surface-mounting. Multi-faceted reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with 3000 lm LED unit in a neutral white tone 4000K and electronic driver separate from the luminaire. General light distribution.

**Installation**

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

**Dimension (mm)**

Ø226x100

**Colour**

White/Aluminium (39)

**Weight (Kg)**

1.88

**Mounting**

ceiling recessed

**Wiring**

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations



**Product configuration: MB54**

**Product characteristics**

Total lighting output [Lm]: 2879  
Total power [W]: 26.5  
Luminous efficacy [Lm/W]: 108.7  
Life Time: 50,000h - L80 - B10 (Ta 25°C)

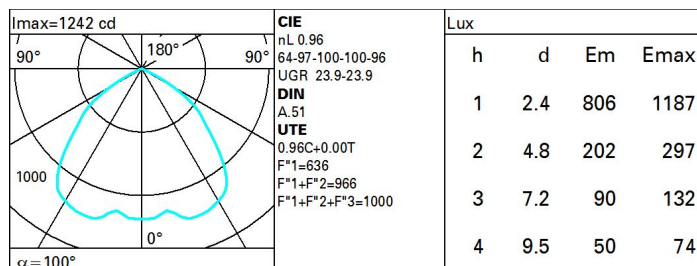
Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 96  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 23  
Nominal luminous [Lm]: 3000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: /

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 3.5  
Colour temperature [K]: 4000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 3

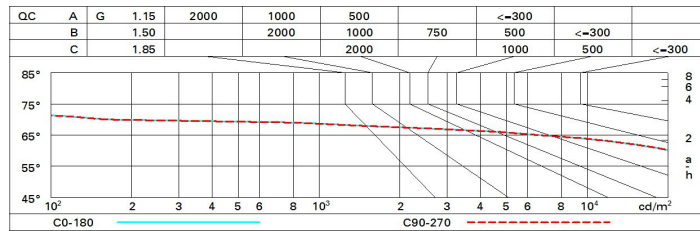
**Polar**



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	62	56	51	61	55	55	49	51
1.0	77	69	64	60	68	63	62	57	59
1.5	86	80	76	72	79	75	74	69	72
2.0	91	87	83	80	85	82	81	77	80
2.5	94	90	87	85	89	86	85	81	84
3.0	96	93	90	88	91	89	87	84	87
4.0	98	95	93	91	93	92	90	86	90
5.0	99	97	95	93	95	93	92	88	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 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	24.1	25.1	24.4	25.3	25.6	24.1	25.1	24.4	25.3	25.6
	3H	24.0	24.9	24.4	25.2	25.4	24.3	25.1	24.6	25.4	25.7
	4H	24.0	24.7	24.3	25.0	25.3	24.2	25.0	24.5	25.3	25.6
	6H	23.9	24.6	24.2	24.9	25.2	24.1	24.8	24.5	25.2	25.5
	8H	23.8	24.5	24.2	24.9	25.2	24.1	24.8	24.5	25.1	25.4
	12H	23.8	24.4	24.2	24.8	25.2	24.0	24.7	24.4	25.0	25.4
4H	2H	24.2	25.0	24.5	25.3	25.6	24.0	24.7	24.3	25.0	25.3
	3H	24.1	24.7	24.5	25.1	25.4	24.1	24.7	24.4	25.0	25.4
	4H	24.0	24.6	24.4	24.9	25.3	24.0	24.6	24.4	24.9	25.3
	6H	23.9	24.4	24.3	24.8	25.2	23.9	24.4	24.3	24.8	25.2
	8H	23.9	24.3	24.3	24.7	25.2	23.9	24.3	24.3	24.7	25.2
	12H	23.8	24.2	24.3	24.7	25.1	23.8	24.2	24.3	24.7	25.1
8H	4H	23.9	24.3	24.3	24.7	25.2	23.9	24.3	24.3	24.7	25.2
	6H	23.8	24.1	24.3	24.6	25.1	23.8	24.1	24.3	24.6	25.1
	8H	23.7	24.0	24.2	24.5	25.0	23.7	24.0	24.2	24.5	25.0
	12H	23.7	24.0	24.2	24.4	25.0	23.7	24.0	24.2	24.4	25.0
12H	4H	23.8	24.2	24.3	24.7	25.1	23.8	24.2	24.3	24.7	25.1
	6H	23.7	24.0	24.2	24.5	25.0	23.7	24.0	24.2	24.5	25.0
	8H	23.7	24.0	24.2	24.4	25.0	23.7	24.0	24.2	24.4	25.0
Variations with the observer position at spacing:											
S =	1.0H	0.5 / -0.7					0.5 / -0.7				
	1.5H	1.5 / -5.0					1.5 / -5.0				
	2.0H	3.0 / -19.7					3.0 / -19.7				