Deep Laser

Last information update: May 2018

small body, Frame installation LED cool white INVERTER

Product code
M938

Technical description
Fixed round recessed luminaire designed to use a 1X3W LED lamp incool white, model with INVERTER with flood optic. Recessed item with rim consisting of a single die-cast aluminium body. The upper part is a heat sink which helps to carry away the heat given off by the lamp. LED optics with a single lens made of thermoplastic material.

Installation
Recessed using springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

Dimension (mm)
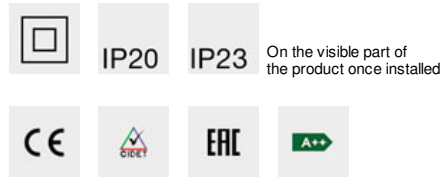Ø45x32

Colour
White (01)

Weight (Kg)
0.4

Mounting
ceiling recessed

Wiring
Product complete with electronic components and batteries

Complies with EN60598-1 and pertinent regulations

IP20   IP23   On the visible part of the product once installed

CE   CIDET   EAC   A++

Product configuration: M938

Product characteristics

Total lighting output [Lm]: 90	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 3	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 30	Voltage [V]: -
Life Time: 50,000h - L80 - B20 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 100	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 3	Colour temperature [K]: 6000
Nominal luminous [Lm]: 90	CRI: /
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: /

Polar

Imax=24 cd

α=140°

Lux			
h	d	Em	Emax
1	5.5	12	24
2	11	3	6
3	16.5	1	3
4	22	0.7	1

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	61	49	41	35	48	40	40	32	32
1.0	68	57	48	42	55	47	47	39	39
1.5	78	69	62	56	67	60	59	52	52
2.0	85	77	71	65	75	69	68	61	61
2.5	89	82	77	72	80	75	74	67	67
3.0	92	86	81	77	84	79	78	72	72
4.0	96	91	87	83	88	85	83	78	78
5.0	98	94	90	87	92	88	87	81	81