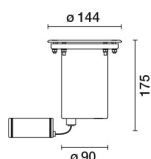


Last information update: May 2018

**Floor recessed Earth D=144mm - Warm white - Flood Optic - DALI****Product code**

BW03

Technical description

Recessed luminaire that can be installed in floors or in the ground. It is designed to use white monochrome LED lamps, for lighting, fixed optic with built-in dimming DALI electronic control gear. The D = 144 mm round frame has an AISI 304 stainless steel body and frame and an extra-clear, sodium - calcium tempered glass cover, with a thickness of 12 mm. The stainless steel body is painted black. The luminaire is fixed to the outer casing with two Torx screws that hold it in place. It includes the LED circuit, aluminium OPTI BEAM reflector and black plastic casing cover. External power supply box in black plastic material (PPS) containing the power supply group. The product's wiring system features an A2 stainless steel cable gland with a 1200mm long A075RNF type 4x1 mm² output power cable. The cable is equipped with an anti-transpiration device (IP68) that consists of a silicone-coated joint located on the power cable and positioned inside the power supply box. An outer casing is available for installation and it can be ordered separately from the plastic optic assembly. The glass unit, optic assembly, frame and outer casing together guarantee a maximum static load resistance of 5000 kg. The maximum surface temperature of the glass is less than 40°C.

Installation

The product is secured to the outer casing with two Torx screws. The luminaire can be installed recessed with outer case in the floor or without outer casing in the ground.

Dimension (mm)

Ø144x175

Colour

Steel (13)

Weight (Kg)

1.91

Mounting

Floor recessed|ground recessed

Wiring

Product includes dimming DALI control gear 220+240Vac, in a separate box from the optical assembly and outgoing cable.

Notes

IP68 degree of protection on the product and cable when using IP68 connectors * The product is not suitable for installation in swimming pools and fountains. Overvoltage protection: 4KV Common mode, 3,5KV differenzial mode

Complies with EN60598-1 and pertinent regulations



IK10



IP68

Immersione completa per periodi limitati, non idoneo in piscine e fontane.



The lighting fixtures were designed and tested to withstand a static load of up to 50000 N and to resist drive-over stress. The fixtures may not be installed in areas where snowplows are used, or where the drive-over speed exceeds 50 km/h.

Product configuration: BW03**Product characteristics**

Total lighting output [Lm]: 1134

Total power [W]: 10.5

Luminous efficacy [Lm/W]: 108

Life Time: 100,000h - L80 - B10 (Ta 25°C)

Ambient temperature range: from -20°C to +35°C. (*)

Total luminous flux at or above an angle of 90° [Lm]: 1134

Emergency luminous flux [Lm]: /

Voltage [V]: -

Life Time: 100,000h - L80 - B10 (Ta 40°C)

Number of optical assemblies: 1

* Preliminary data

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 84

Lamp code: LED

ZVEI Code: LED

Nominal power [W]: 8.3

Nominal luminous [Lm]: 1350

Lamp maximum intensity [cd]: /

Beam angle [°]: 32°

Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 2.2

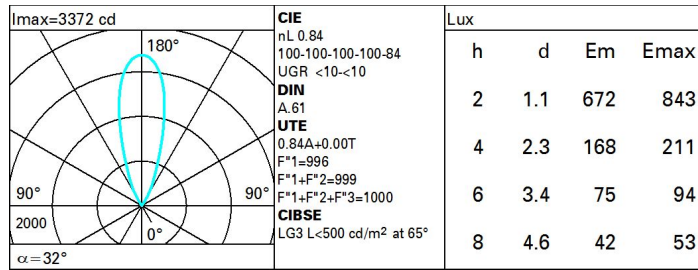
Colour temperature [K]: 3000

CRI: 80

Wavelength [Nm]: /

MacAdam Step: 2

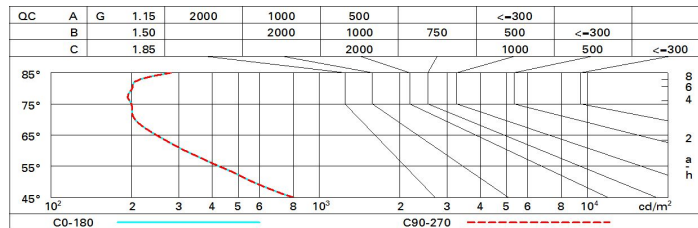
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	76	72	69	67	71	69	68	66	78
1.0	79	76	73	71	75	72	72	69	83
1.5	83	80	78	77	79	78	77	74	88
2.0	86	84	82	81	83	81	80	78	93
2.5	87	86	85	84	85	83	83	80	96
3.0	88	87	86	86	86	85	84	82	98
4.0	89	88	88	87	87	87	85	83	99
5.0	90	89	89	89	88	87	86	84	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1350 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
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	6.1	6.6	6.4	6.9	7.1	6.1	6.6	6.4	6.9	7.1
	3H	6.0	6.5	6.3	6.7	7.0	6.0	6.5	6.3	6.7	7.0
	4H	5.9	6.4	6.2	6.7	7.0	5.9	6.4	6.2	6.7	7.0
	6H	5.9	6.3	6.2	6.6	6.9	5.8	6.3	6.2	6.6	6.9
	8H	5.8	6.2	6.2	6.6	6.9	5.8	6.2	6.2	6.5	6.9
	12H	5.8	6.2	6.2	6.5	6.9	5.8	6.1	6.1	6.5	6.8
4H	2H	5.9	6.4	6.2	6.7	7.0	5.9	6.4	6.2	6.7	7.0
	3H	5.8	6.2	6.1	6.5	6.9	5.8	6.2	6.2	6.5	6.9
	4H	5.7	6.0	6.1	6.4	6.8	5.7	6.0	6.1	6.4	6.8
	6H	5.6	5.9	6.1	6.3	6.7	5.6	5.9	6.0	6.3	6.7
	8H	5.6	5.9	6.0	6.3	6.7	5.6	5.9	6.0	6.3	6.7
	12H	5.5	5.8	6.0	6.2	6.7	5.5	5.8	6.0	6.2	6.7
8H	4H	5.6	5.9	6.0	6.3	6.7	5.6	5.9	6.0	6.3	6.7
	6H	5.5	5.7	6.0	6.2	6.6	5.5	5.7	6.0	6.2	6.7
	8H	5.5	5.7	5.9	6.1	6.6	5.5	5.7	5.9	6.1	6.6
	12H	5.4	5.6	5.9	6.1	6.6	5.4	5.6	5.9	6.1	6.6
12H	4H	5.5	5.8	6.0	6.2	6.7	5.5	5.8	6.0	6.2	6.7
	6H	5.4	5.6	5.9	6.1	6.6	5.5	5.7	5.9	6.1	6.6
	8H	5.4	5.6	5.9	6.1	6.6	5.4	5.6	5.9	6.1	6.6
Variations with the observer position at spacing:											
S =	1.0H	6.8 / -10.5					6.8 / -10.5				
	1.5H	9.7 / -11.3					9.7 / -11.3				
	2.0H	11.6 / -11.8					11.6 / -11.8				