

GALILEO 1 IN	
MAIN CHARACTERISTICS	
Applications	Indoor lighting
Optic	HB-M: Symmetric optic for indoor lightning, mid emission. HB-W: Symmetric optic for indoor lightning, large emission. HB-E: Symmetric optic for indoor lightning, elliptic emission. Colour temperature: 4000K, CRI > 80 Photobiological safety class: EXEMPT GROUP Photometrical classification CIE: Cut-off. (HB-W / M) Photometrical classification IES: Full cut-off. (HB-M) Photometrical classification IES: Cut-off. (HB-W) LED source efficiency: 130 lm/W @ 525mA, Tj=85°C, 4000K
Insulation class	I
Protection degree	IP66 IK08
LED Modules	Removable optical unit
Tilt Angle	Adjustable
Dimensions	See the drawing
Weight	5.5 kg (1/2 LED modules) 8 kg (3 LED modules)
Mounting	Ceiling fixing. Wall fixing accessory. Suspended on cable. Suspended with chain. Enclosed duct fixing.
Gear tray	Removable plate / gear tray compartment
Main reference standards	EN 60598-1, EN 60598-2-1, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493
ELECTRICAL CHARACTERISTICS	
Rated voltage	220-240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)
LED current	525mA
Power factor	>0,9 (at full load)
Mains connection	Cable H07RN-F 450/750V with quick release connector M/F IP66/68 for cables 3 x 2.5mm ² , Dmax=12mm
Control system (optional)	F: Fixed power (base version) DALI: Regulation with DALI digital interface. WL: Wireless single point communication module. PR: Presence sensor.
Optical unit lifetime (Ta=25°C)	>50.000hr B50L80 (including critical failures)
MATERIALS	
Fixing	Galvanized steel. Powder painted.
Heat-sink	Die-cast aluminium UNI EN1706 with low copper content. Powder painted.
Body	
Gear tray body	
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness.
Cable gland	Metallic M20x1.5 - IP68
Gasket	Polyurethane

LUMINAIRE FLUX ¹ (Ta=25°C, 4000K, lm)		
UNITS	LED MODULES	525mA HB-W Optic
1	1	4350
	2	8710
	3	12930
UNITS	LED MODULES	HB-M Optic
1	1	4300
	2	8610
		12790
UNITS	LED MODULES	HB-E Optic
1	1	4060
	2	8130
	3	12080

RATED LED FLUX ² (Tj=85°C, 4000K, lm)	
	525mA
	HB-W / HB-M / HB-E
	4920
	9840
	14760

RATED LUMINAIRE POWER ¹ (Ta=25°C, Vin=230Vac, W) F and DA version at full load		
UNITS	LED MODULES	525mA
1	1	43,5
	2	85,5
	3	121,5

RATED LED POWER ² (Tj=85°C, W)	
	525mA
	38
	76
	113

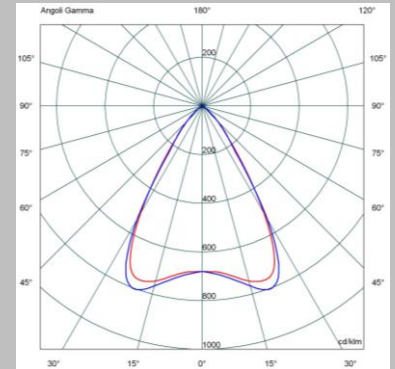
LUMINAIRE EFFICIENCY (Ta=25°C, lm/W)		
UNITS	LED MODULES	525mA HB-W Optic
1	1	100
	2	102
	3	106
UNITS	LED MODULES	HB-M Optic
1	1	99
	2	101
	3	105
UNITS	LED MODULES	HB-E Optic
1	1	93
	2	95
	3	99

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance. In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit. For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

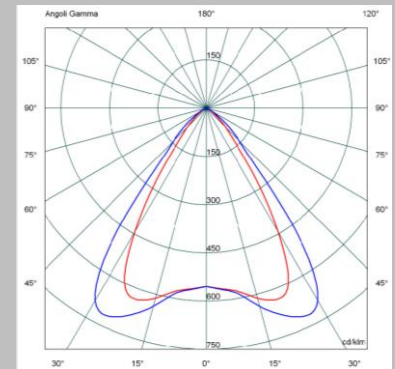
Note:

1:Rated data obtained in laboratory

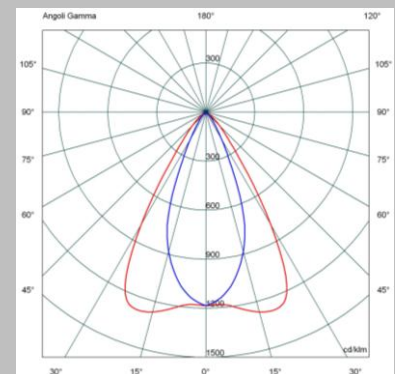
2:Rated data extrapolated from LED manufacturer datasheet.



HB-M Optics



HB-W Optics

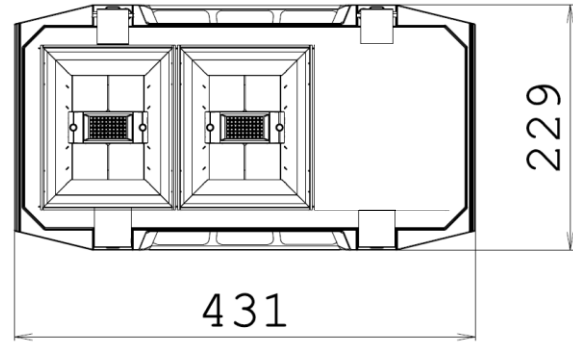
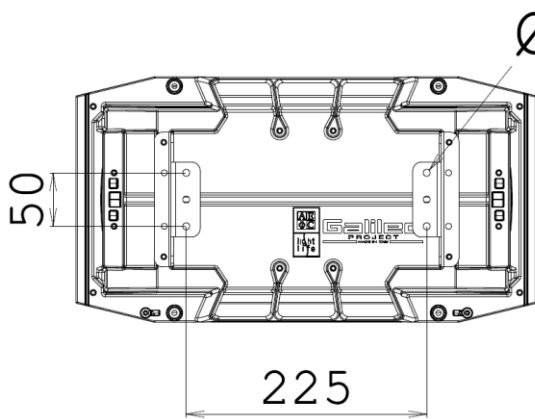
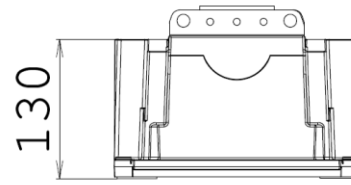
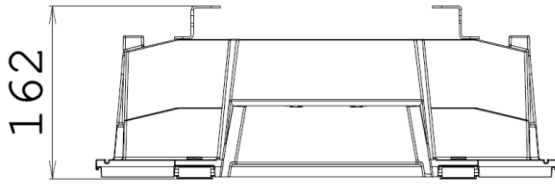


HB-E Optics

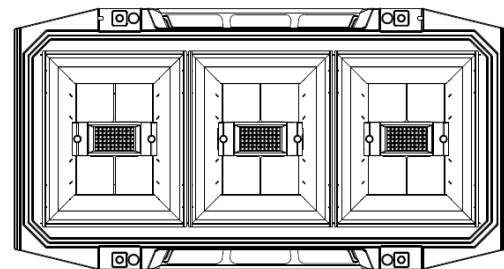
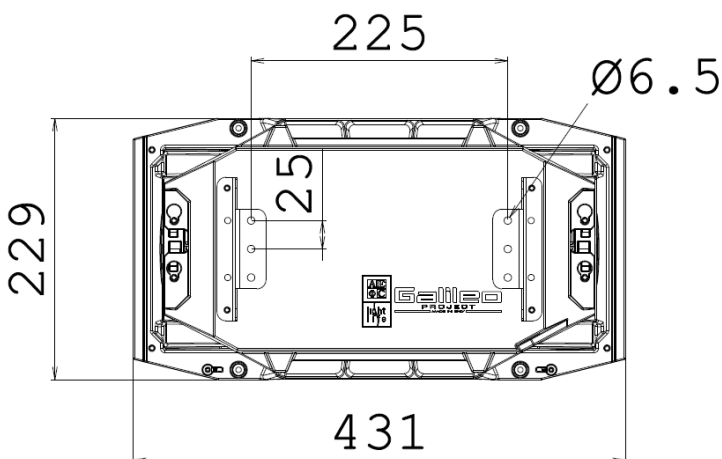
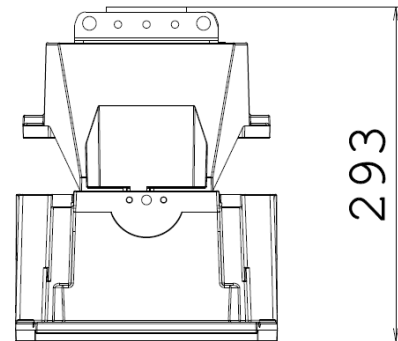
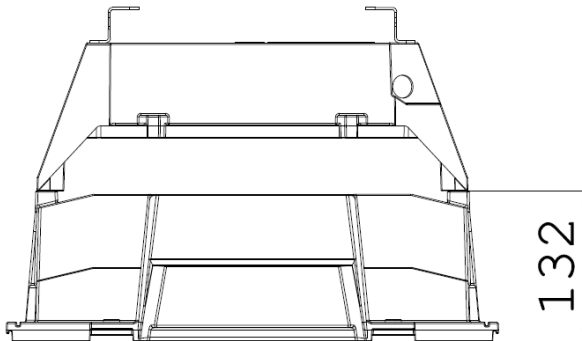
All the published photometrical data has been obtained according to EN 13032-1



GALILEO 1 IN (1/2 LED MODULES)



GALILEO 1 IN (3 LED MODULES)





DALI CONTROL SYSTEM

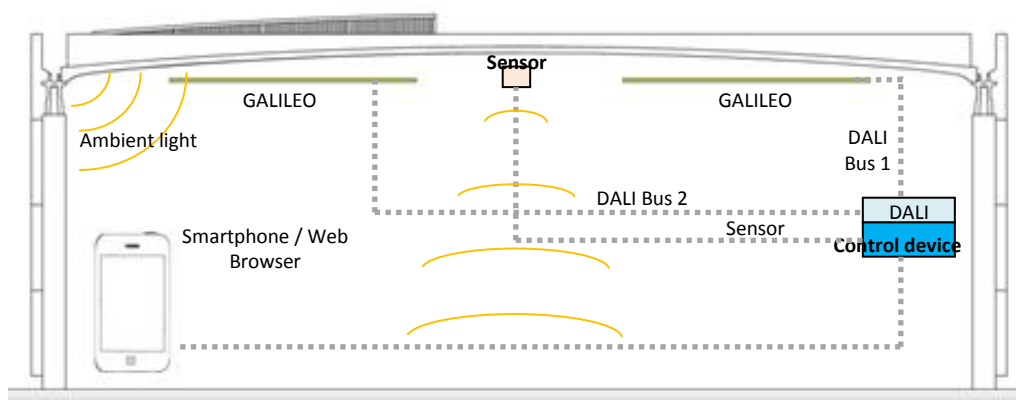
GALILEO INDOOR can be dimmed with a control system that allows to adjust the emitted light level. The control system allows to monitor the operation of each lighting device using DALI interface and manage the entire system in a centralized way, either manually through buttons or automatically as follows:

SETTING TIME

The system consists of a control unit with DALI interface connected to the installed luminaires. Through this type of adjustment is possible to set the time and the percentage of dimming according to a programmed profile which is repeated daily.

NATURAL LIGHT MIX

The system consists of a control unit with DALI interface connected to the installed luminaires and some illuminance sensors positioned above the areas to be illuminated. It adjusts in an automatic way the luminous flux emitted by the individual lighting luminaires according to the contribution of natural light detected by the sensors to maintain a constant amount of ambient light selected.



SIZE

Model	Num. Bus DALI	Max. Num. Of DALI Nodes	Num. of Sensors
DALI-2	2	2x64 = 128	1
DALI-4	4	4x64 = 256	2
DALI-6	6	6x64 = 384	3

NUMBER OF NODES PER LUMINAIRE

N. of Units	N. of LED modules	Num. DALI Nodes (525mA)
1	3	1
2	4	1
2	5	2
2	6	2

GENERAL CHARACTERISTICS

- Max single DALI bus length: 300m (distance of the control device from the last bus).
- Built-in astronomical clock.
- Interfaces: 2x Ethernet with built-in switch.
- Possibility to connect up to 16 buttons (not provided) to the control unit.
- Possibility to connect up to 4 lighting sensors.
- Sensors lighting with fixing brackets (12Vdc): not provided

NOT INCLUDED ADDITIONAL FEATURES

- Cable DALI: not provided (Recommended 2x1, 5mm²).
- Signal cable analog sensors: not provided (Recommended 3x1, 5mm²: 12V DC SIGNAL-GND)
- Power supply sensors not provided (Recommended 12VDC-2A).
- Power supply unit: not provided (Recommended 24V-5A).



WIRELESS DALI CONTROL SYSTEM

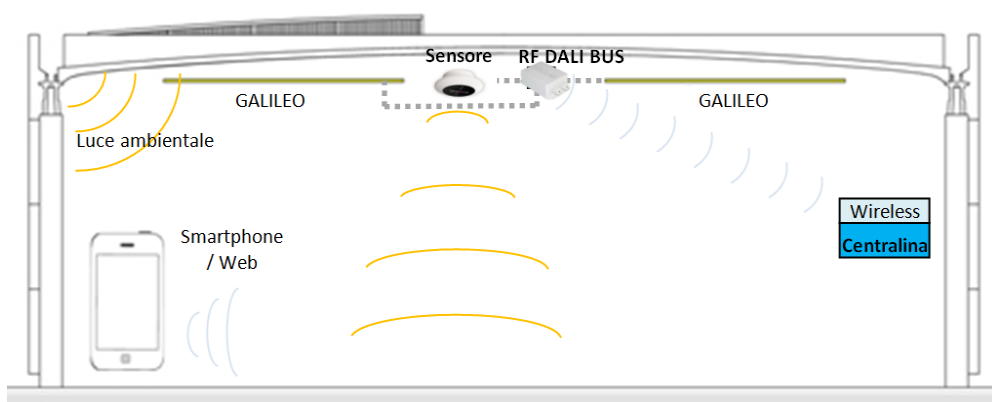
GALILEO INDOOR can be dimmed with a control system that allows to adjust the emitted light level. The control system allows to monitor the operation of each lighting device using DALI / WIRELESS interface and manage the entire system in a centralized way, either manually through buttons or automatically as follows:

SETTING TIME

The system consists of a control unit with DALI / WIRELESS interface connected to the installed luminaires. Through this type of adjustment is possible to set the time and the percentage of dimming according to a programmed profile which is repeated daily.

NATURAL LIGHT MIX

The system consists of a wireless control unit connected to the installed luminaires and some illuminance sensors positioned above the areas to be illuminated. It adjusts in an automatic way the luminous flux emitted by the individual lighting luminaires according to the contribution of natural light detected by the sensors to maintain a constant amount of ambient light selected.



SIZE

Model	Num. Bus DALI	Max. Num. Of DALI Nodes	Num. of Sensors
DALI BUS	1	2x64 = 64	1
	2	2x64 = 128	2
	3	3x64 = 256	3

NUMBER OF NODES PER LUMINAIRE

N. of Units	N. of LED modules	Num. DALI Nodes (525mA)
1	3	1
2	4	1
2	5	2
2	6	2

GENERAL CHARACTERISTICS

- Max single DALI bus length: 300m (distance of the control device from the last bus).
- Built-in astronomical clock.
- Interfaces: 1x Ethernet with built-in switch.
- Possibility to connect up to 8 buttons (not provided) to the control unit.
- Possibility to connect up to 2 lighting sensors.

NOT INCLUDED ADDITIONAL FEATURES

- Cable DALI: not provided (Recommended 2x1, 5mm²).
- Signal cable analog sensors (Recommended 3x1, 5mm²: 12V DC SIGNAL-GND)
- Power supply unit (Recommended 30Vdc -5A).

The characteristics of the product listed above are subjected to change. They will have to be confirmed in case of order. Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%. Data listed above are subject to change without notice.