

**GALILEO 2**

**MAIN CHARACTERISTICS**

<b>Applications</b>	Flood lighting, large areas and street lighting.
<b>Optic</b>	ASP / ASC: Multi-focal asymmetric optic with adjustable emission. STE: Asymmetrical optic for street lighting (suburban). STW: Asymmetrical optic for wide roads and wet asphalts lighting. Colour temperature: 4000K (3000K, 5700K optional), CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 138 lm/W @ 700mA, T <sub>j</sub> =85°C, 4000K
<b>Insulation class</b>	I
<b>Protection degree</b>	IP66   IK08
<b>LED Modules</b>	Removable / Replaceable optical unit
<b>Tilt Angle</b>	See dimensional drawings section
<b>Dimensions</b>	
<b>Weight</b>	18 kg without fixing flanges
<b>Exposed surface</b>	Side: 0.1m <sup>2</sup> - Top: 0.20m <sup>2</sup>
<b>Mounting</b>	Mounting with adjustable integrated flange (See available flanges section)
<b>Gear tray</b>	Integrated. Removable
<b>Operating temp.</b>	-40°C / +50°C (525mA)   -40°C / +35°C (700mA)
<b>Storage temp.</b>	-40°C / +80°C
<b>Main reference standards</b>	EN 60598-1, EN 60598-2-3, EN 60598-2-5, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3



**ELECTRICAL CHARACTERISTICS**

<b>Rated voltage</b>	220-240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)	
<b>LED current</b>	525mA   700mA	
<b>Power factor</b>	>0,9 (at full load)	
<b>Mains connection</b>	Cable H07RN-F 450/750V with quick release connector M/F IP66/68 for cables 3 x 2.5mm <sup>2</sup> , D <sub>max</sub> =12mm Optional: Cable FG7-OR 0.6/1kV	
<b>Control system</b>	F: Fixed power (base version) DA: Automatic dimming (virtual midnight) with default profile. DB: Dual power with control wire. DALI: Digital interface. PLM: Single point communication module. WL: Wireless single point communication module.	
<b>Surge protection</b>	Integrated SPD, 10kV-10kA. Pulse withstand ≥8kV CM/DM	
<b>Optical unit lifetime (Ta=25°C)</b>	<b>525mA</b>	<b>700mA</b>
	>70.000hr L80B10 (including critical fail.) >100.000hr L80, TM-21	>55.000hr L80B10 (including critical fail.) >100.000hr L80, TM-21

**MATERIALS**

<b>Fixing</b>	Galvanized and painted steel
<b>Heat-sink</b>	Die-cast aluminium UNI EN1706 with low copper content. Powder painted.
<b>Body</b>	
<b>Gear tray body</b>	
<b>Optic</b>	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 4mm thickness.
<b>Cable gland</b>	Metallic, M20x1,5 – IP68
<b>Gasket</b>	Polyurethane

**ASYMMETRICAL OPTIC**

LUMINAIRE FLUX <sup>1</sup> (Ta=25°C, 4000K, lm)		
LED MODULES	525mA	700mA
ASP-7W   ASP-7N   ASC-7W Optic		
4	17510	21560
5	21260	26110
6	25520	31340
ASP-6W   ASP-6N   ASC-6W Optic		
4	17710	21800
5	21500	26410
6	25810	31700
ASP-5W   ASP-5N   ASC-5W Optic		
4	17910	22040
5	21740	26710
6	26100	32060
ASP-4W   ASP-4N   ASC-4W Optic		
4	18010	22160
5	21860	26860
6	26240	32240

RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	
525mA	700mA
ASP   ASC Optics	
20448	25872
25560	32340
30672	38808

Multiplier to obtain the **luminous flux** as a function of Ta and Tk.

Ta(°C)	Multiplier
50	0,94
40	0,96
25	1,00
15	1,02
5	1,04
0	1,05
Tk(K)	Multiplier
3000	0.92
4000	1.00
5700	1.03

Multiplier to obtain the **power** as a function of Ta.

Ta (°C)	Multiplier
50	0,99
25	1,00
0	1,01

RATED LUMINAIRE POWER <sup>1</sup> (Ta=25°C, Vin=230Vac, W) F and DA at full load		
LED MODULES	525mA	700mA
ASP   ASC Optics		
4	155	200
5	192	255
6	230	306

RATED LED POWER <sup>2</sup> (Tj=85°C, W)	
525mA	700mA
ASP   ASC Optics	
139	188
174	235
209	282

**Legend:**

Ta = Ambient temperature.  
Tk = Colour temperature.

LUMINAIRE EFFICIENCY (Ta=25°C, lm/W)		
LED MODULES	525mA	700mA
ASP-7W   ASP-7N   ASC-7W Optic		
4	113	108
5	111	102
6	111	102
ASP-6W   ASP-6N   ASC-6W Optic		
4	114	109
5	112	104
6	112	104
ASP-5W   ASP-5N   ASC-5W Optic		
4	116	110
5	113	105
6	113	105
ASP-4W   ASP-4N   ASC-4W Optic		
4	116	111
5	114	105
6	114	105

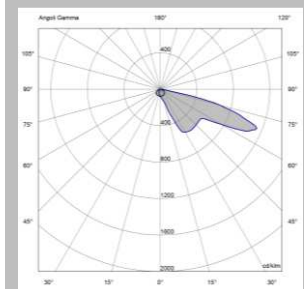
The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance.

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.



ASP-7W Optic

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



**STREET OPTIC**

LUMINAIRE FLUX <sup>1</sup> (Ta=25°C, 4000K, lm)		
LED MODULES	525mA	700mA
STE-S / STE-M / STW Optic		
8	17500	21110
10	21220	26210
12	25440	31220

RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	
525mA	700mA
STE-S / STE-M / STW Optic	
20448	25872
25560	32340
30672	38808

RATED LUMINAIRE POWER <sup>1</sup> (Ta=25°C, Vin=230Vac, W) F and DA at full load		
LED MODULES	525mA	700mA
STE-S / STE-M / STW Optic		
8	152	210
10	193	256
12	230	306

RATED LED POWER <sup>2</sup> (Tj=85°C, W)	
525mA	700mA
STE-S / STE-M / STW Optic	
139	188
174	235
209	282

LUMINAIRE EFFICIENCY (Ta=25°C, lm/W)		
LED MODULES	525mA	700mA
Optica STE-S / STE-M / STW		
8	115	101
10	110	102
12	111	102

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.

Multiplier to obtain the **luminous flux** as a function of Ta and Tk.

Ta(°C)	Multiplier
50	0,94
40	0,96
25	1,00
15	1,02
5	1,04
0	1,05

Tk(K)	Multiplier
3000	0.92
4000	1.00
5700	1.03

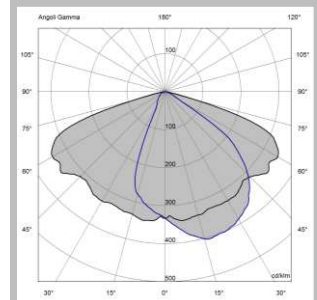
Multiplier to obtain the **power** as a function of Ta.

Ta (°C)	Multiplier
50	0,99
25	1,00
0	1,01

Legend:

Ta = Ambient temperature.

Tk = Colour temperature.



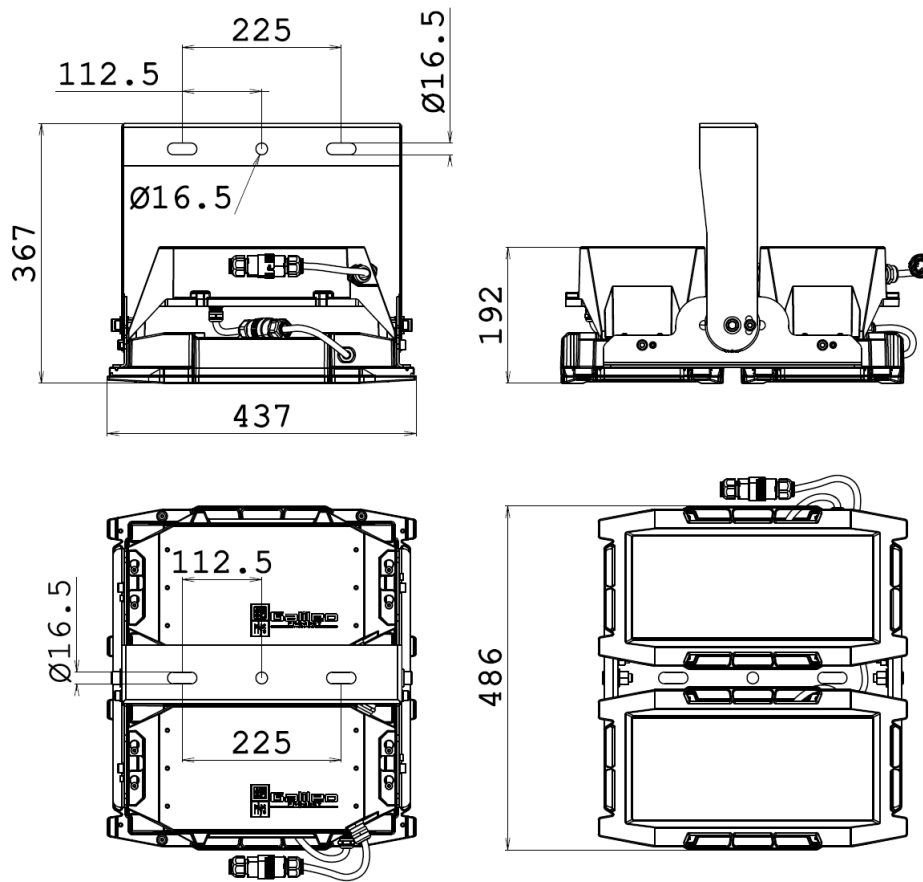
STE-M Optic

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



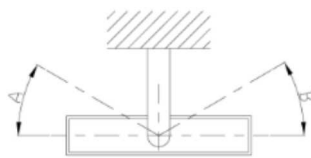
**GALILEO 2**

**DIMENSIONAL DRAWINGS**



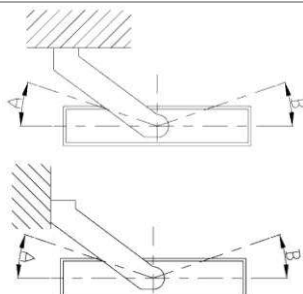
**AVAILABLE FIXING FLANGES**

**BRACKET C – STANDARD**



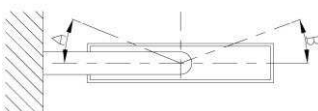
A = 15°  
B = 15°      2.3 kg

**BRACKET D – OPTIONAL**



A = 25°  
B = 25°      5.3 kg

**BRACKET E – OPTIONAL**



A = 5°  
B = 15°      3.3 kg

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.

