GMR ENLIGHTS

WOLTRONGRANDI AREE3

FLOOD OPTICS

For product specifications, materials and colours, please refer to the details inside

Woltron 03 Grandi Aree

Technical data

GMR ENLIGHTS

rev. 2026.04

Install

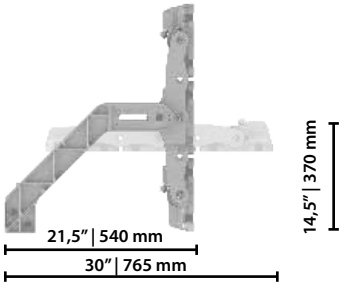
Floodlight towers for street and motorway lighting, large areas, ports and airports.

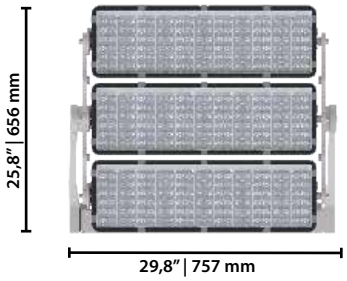
Accessibility

Openable
Openable fixture with basic tools
Replaceable internal components using basic tools.

Optical technology

Glassed
Refracting optical system consist of singlechip LED, PMMA lenses with 30 years of warranty against UV and yellowing by aging, aluminium reflector having a purity of 99,7% and extra clear tempered glass.



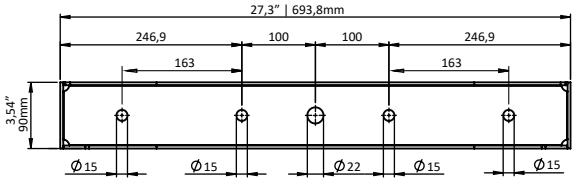


Scale: 1:15

Max. weight

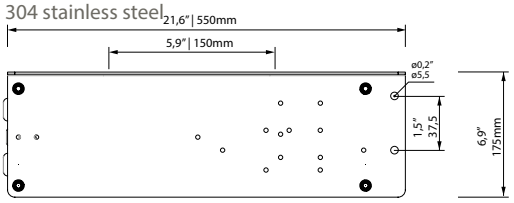
30 Kg (brachet+ floodlights)
Power supply (driver+driver plate): 7,5 Kg

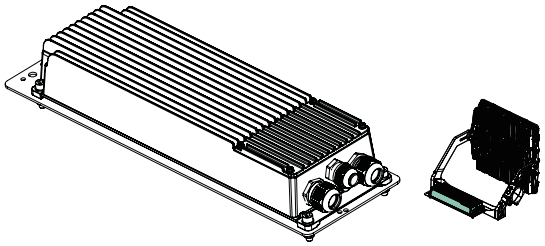
Floodlights fixing



Driver plate

AISI 304 stainless steel





Standard

EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3

Conformity | protection

Conformity

Salt spray test
ISO 9227
8000 hr

Vibration test passed
IEC 60068-2-6

Insulation classes

Protection classes
IP 66 IK 09

Photobiological safety
Classe 0 Exempt group IEC/TR62471

Plus

OPTICAL FLEXIBILITY · LOW GLARE · CAM 2017 COMPLIANT · A++ IPEA MIN

Lighting fixture features

General features

Power source:	200-400Vac | tolerance +/-10%
Current supply:	Up to 1250mA
Max power:	1489W
Power Factor | THD:	≥0.95 | <10 % (At full load)
Expected life (Ta=25°):	> 60.000 h | L90B10 | @ LED 1200mA
Operational temperature (Ta):	T_{min} = -40°C T_{max} = +50°C
Storage temperature:	-40°C/+80°C
Overcharge protection:	Main surge immunity up to 10kV
Functions:	Current fixed |Virtual midnight |CLO DALI
Standard equipment:	Dislocable driver up to 300 meters

Materials

Lighting fixture:	Die cast aluminium | EN1706
Bracket:	Made up: 2 die-cast aluminum arms 1 hot galvanized steel base
Optical system:	Optics in PMMA High Temperature
Frame:	Die cast aluminium | EN1706 | 3 adjustments
Screen:	Ultraclear tempered glass | Th. 4mm
Gaskets:	Removable silicon
Screws and bolts:	AISI 304 stainless steel
Colors:	GMR light RAL 9016

Led features

LED data 4.000k - 700mA:	357 lm/LED | 182lm/W | 25°C (Tj) | <= 3 step MacAdam
Color temperature:	2.700 K | 3.000 K | 4.000 K | CRI ≥ 70

GMR ENLIGHTS s.r.l. • Quality system certificate ISO 9001 - ISO 14001 - ISO 45001 - ISO 50001 • phone:+39 0543 462611 • fax:+39 0543 449111 • sales@gmrenlights.com • www.gmrenlights.com
Registered office: Strada Provinciale Specchia - Alessano, 68 - 73040 (LE) | Administrative and operational headquarters: Via Grande n° 226 - 47032 Bertinoro (FC)

Woltron 03 Grandi Aree

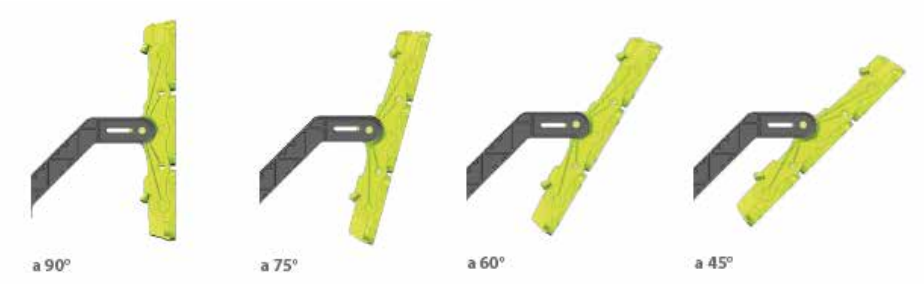
GMR ENLIGHTS

rev. 2026.04

Tilt-based exposure

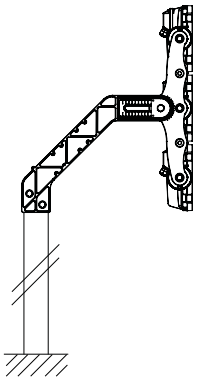
CX

Gradi	m^2
90°	0,47
75°	0,47
60°	0,39
45°	0,30

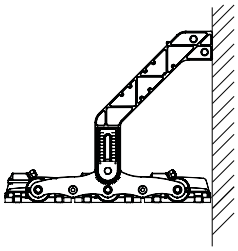


Fastening systems

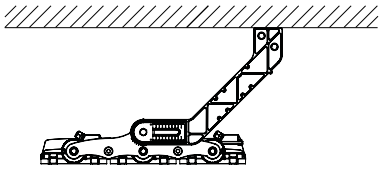
Pole top installation



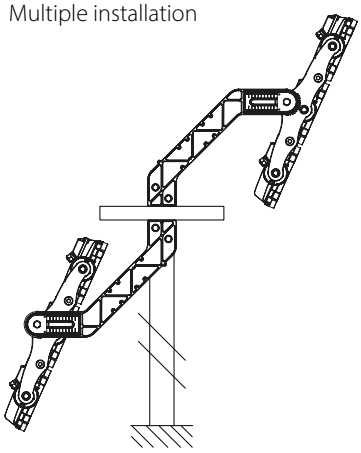
Wall installation



Surface installation

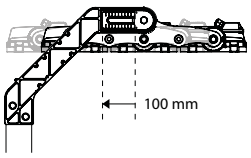


Multiple installation

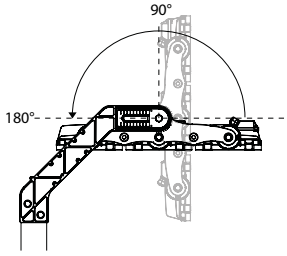


Adjustment diagrams

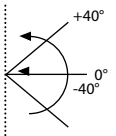
Longitudinal adjustment

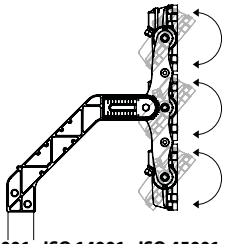


Full projector rotation



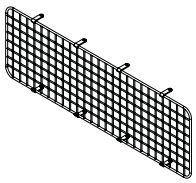
Module rotation





Mechanical equipment:

- Protection grille



GMR ENLIGHTS s.r.l. • Quality system certificate ISO 9001 - ISO 14001 - ISO 45001 - ISO 50001 • phone:+39 0543 462611 • fax:+39 0543 449111 • sales@gmrenlights.com • www.gmrenlights.com

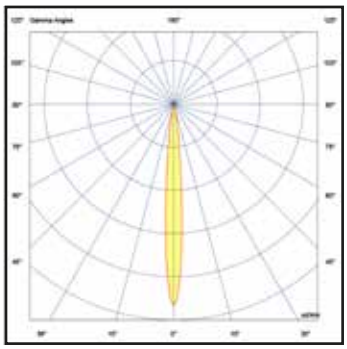
Registered office: Strada Provinciale Specchia - Alessano, 68 - 73040 (LE) | Administrative and operational headquarters: Via Grande n° 226 - 47032 Bertinoro (FC)

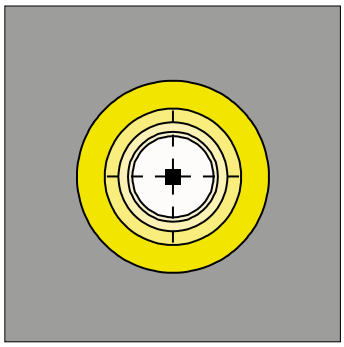
Woltron 03 Grandi Aree

Available optical system

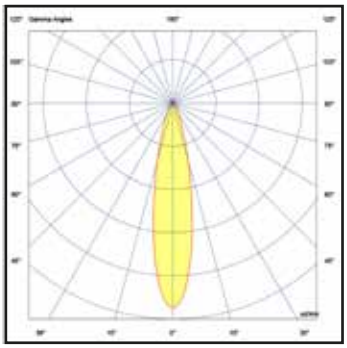
2026.04

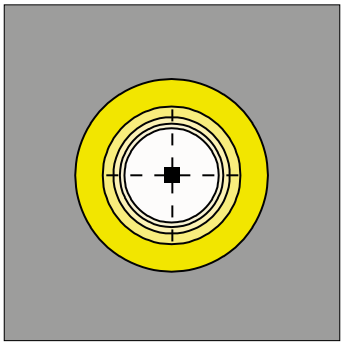
12A



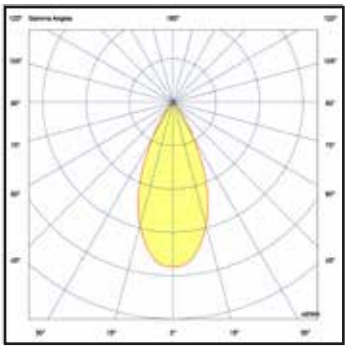


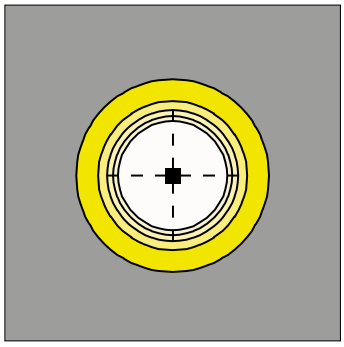
12B





12C





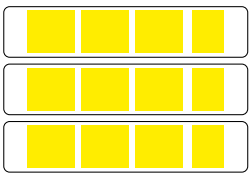
Woltron 03 Grandi Aree

Lighting fixture measured data

2026.04

The lighting fixture measured data refers to GMR ENLIGHTS products in a standard version, with 4000 K color temperature, tilt 0°, and an ambient temperature ta of 25 °C.

Feature availability is subject to configurations. To obtain luminous fluxes and efficiencies of the lighting fixture in case of optic type and/or color temperature and/or color rendering index different from the standard use the conversion factors shown in the tables.

W03_GLxx		(•) I [mA]	Flusso luminoso [lm]	Potenza [W]	Efficienza [lm/W]
GLXX		1250	216411	1488,8	172

Woltron 03 Grandi Aree

Restriction

GMR ENLIGHTS

2026.04

Below are the limitations based on the ambient temperatures for correct and safe use of the Woltron projector divided by geographical area. Please always refer to the table and discuss with the reference sales office when ordering.

AVERAGE TA IN THE HOTTEST MONTH (°C)

America	ToP	Asia/Oceania	ToP	Middle East/Africa	ToP	Europe	ToP
Argentina	30	Australia	30	Saudi Arabia	45	Albania	30
Brazil	30	South Korea	30	Bahrain	40	Austria	25
Canada	25	Philippines	35	Egypt	35	Belgium	25
Chile	30	Hong Kong	35	Jordan	35	Bosnia Herzegovina	35
Colombia	20	India	35	Israel	30	Bulgaria	30
Ecuador	30	Iran	35	Kuwait	50	Cyprus	35
Mexico	30	Malaysia	35	Libanon	30	Croatia	30
Perù	30	New Zealand	25	Morocco	30	Denmark	20
Uruguay	35	Pakistan	35	Oman	40	Estonia	20
USA (Arizona)	40	Russia	25	Qatar	45	Finland	20
USA (New York)	30	Singapore	35	UAE (Abu Dhabi)	40	France (Lyon)	30
		Taiwan	35			France (Marseille)	30
		Vietnam	35			France (Parigi)	25
						Germany	25
						Greece	35
						Ireland	20
						Iceland	15
						Canary Islands	30
						Italy	30
						Lettonia	20
						Liechtenstein	25
						Lithuania	25
						Luxembourg	25
						Malta	35
						Moldavia	30
						North Macedonia	30
						Norway	20
						Netherlands	20
						Poland	25
						Portugal	30
						Czech Republic	25
						Romania	30
						Scotland	20
						Serbia	30
						Slovenia	30
						Spain (Madrid)	35
						Spain (Malaga)	30
						Spain (Barcelona)	35
						Sweden (Goteborg)	20
						Sweden (Borlänge)	25
						Switzerland	25
						Turkey (Ankara)	30
						Ukraine (Kiev)	25
						UK	20

WOLTRON

Max Current for optical configuration	ToP20	ToP25	ToP30	ToP35	ToP40	ToP45	ToP50
GL99	1250	1250	1200	1100	1000	950	900

Woltron 03 Grandi Aree

Functions

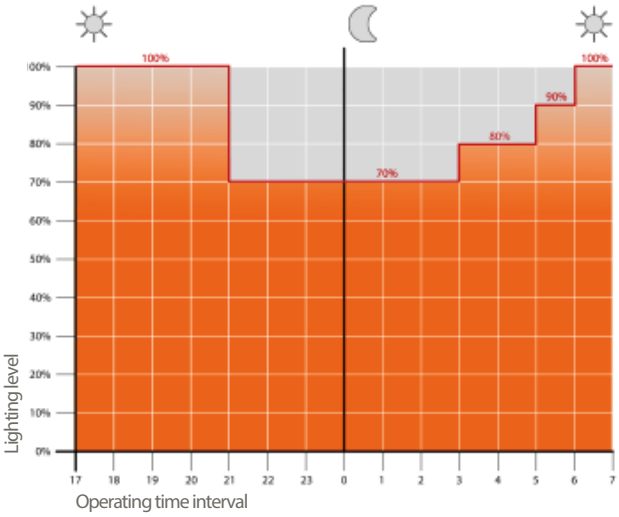
2026.04

Fixed current
The luminaire is preset at the factory with a fixed drive current from among the standard currents shown in the tables on page 3. Other currents can be set at the customer's request (custom).

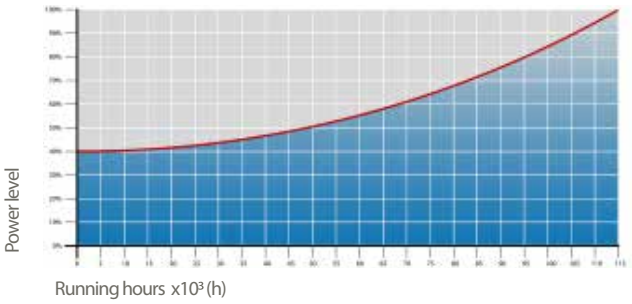
Virtual midnight | Automatic dimming of luminous flux
The driver is programmed to automatically dim the light output according to the time of day. As required by standards, the maximum output is concentrated in the first and last hours of the luminaire's ignition, which are statistically the busiest, and then decreases in the middle hours of the ignition period. The control takes place through a self-learning process of the luminaire, which determines the midpoint between the instant of switching on and the instant of switching off. This moment, called 'virtual midnight', is the reference point for applying the dimming according to the desired profile. Up to 5 dimming steps can be managed. The dimming then updates automatically, adapting to the length of the night throughout the year and always taking the preset parameters for the midpoint between switch-on and switch-off as a reference.

CLO | Luminous flux compensation
LEDs are subject to a performance decay process due to usage. Decay in performance can be compensated for by a gradual increase in drive current over the set lifetime, resulting in a gradual increase in luminous flux output that proportionally compensates for the naturally decayed luminous flux.

DALI2 | Control and monitoring system
Upon request, the luminaire can be equipped with a DALI2 communication interface. This protocol provides the possibility of controlling and monitoring the luminaire via the DALI control bus.



Example of 4-step adjustment with virtual midnight



CLO Light Flow Compensation

Protection cycles

2026.04

GMR ENLIGHTS works with cast iron, steel and aluminum. The materials are selected and processed to maximize performance and quality.

DIE-CAST ALUMINIUM

Protection of die-cast aluminium surfaces for lighting fixtures, tops, collars, brackets and pastorals

Lighting fixtures, brackets, pastoral, and die-cast accessories undergo a cycle of powder painting which creates a barrier against the corrosion of metal parts. Moreover this barrier makes the finished product comply with design specifications in terms of surface roughness, color and reflectance.
The cycle consists of the following steps:

- Micro sandblasting;
- Specific process for the preparation of surfaces before painting;
- Washing with water;
- Rinsing with demineralised water and subsequent drying;
- Final powder layer application using a High Durability product and final kiln roasting at 180°C (356°F).

Salt spray test

The top quality of such treatments is confirmed by salt spray tests performed in accordance with standard ISO 9227:2017 Neutral Salt Spray test (NSS).
The test was carried out for 8.000 hours at 35°C (95°F) and demostrated through the report test released.

GMR ENLIGHTS s.r.l

Legal headquarters:
Strada Provinciale Specchia - Alessano, 68 • 73040 (LE)

Administrative and operational headquarters:
Via Grande n°226 • 47032 Bertinoro (FC)

T +39 0543 462611
F +39 0543 449111

sales@gmrenlights.com
www.gmrenlights.com