



MAGNUM

Illumination for Industry, Logistics & Sport

Light

_builds tomorrow

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_SPECTRA LIGHTING

SINCE THE YEAR 2000,
WE HAVE POSITIONED
OURSELVES AS A
FRONTRUNNER IN CREATING
INNOVATIVE LIGHTING
SOLUTIONS, INSPIRED BY
DESIGNERS FROM AROUND
THE WORLD.

Our vision transcends the mere illumination of spaces; we endeavor to craft experiences that enhance quality of life while safeguarding our planet for future generations.

Our solutions are straightforward yet promote ecological sustainability and energy efficiency. Each project represents a progressive step toward development.



CONTACT

+48 22 567 01 00 info@spectra-lighting.pl



We engage in collaboration with companies from:

 Saudi Arabia 	- Greece	 Lebanon 	 Switzerland
 Armenia 	 Georgia 	 Lithuania 	- Sweden
 Australia 	– Spain	 Luxembourg 	- Turkey
– Austria	 Netherlands 	– Latvia	- Taiwan
 Belgium 	– India	- North	- Ukraine
 Bosnia and 	 Ireland 	Macedonia	- USA
Herzegovina	- Israel	 Moldova 	 Hungary
– Bulgaria	– Japan	 Norway 	 United Kingdom
 Croatia 	– Jordan	Poland	- Italy
 Czech Republic 	 Kazakhstan 	 Portugal 	 United Arab
 Denmark 	- Canada	– Romania	Emirates
– Estonia	– Qatar	- Serbia	
 Finland 	– Kuwait	 Slovakia 	
- France		 Slovenia 	

About the company www.spectra-lighting.pl

At Spectra Lighting, we are progressively aligning our operations with sustainable development. Our strategy involves investing in contemporary, eco-friendly technologies and executing pro-ecological initiatives throughout every phase of production.



ECOLOGICAL INITIATIVES

We have implemented several measures to minimize our carbon footprint and safeguard natural resources:

SUSTAINABLE ENERGY

Facilities equipped with photovoltaic panels.

CLOSED HYDROLOGICAL CYCLE

Closed washing cycle in production processes, reducing water usage and contamination.

MATERIAL RECYCLING

Systematic recovery of materials such as powder coatings, aluminum, and pet plastics.



INNOVATION AND FUTURITY

We manufacture ecofriendly LED lighting, construct energy-efficient production facilities, and proactively enhance logistics to minimize CO₂ emissions.



SOCIAL AND PRACTICAL **ENGAGEMENT**

We offer a secure working environment, equitable pay, and opportunities for ongoing professional development. We support local social initiatives, including sports teams, to promote a healthy lifestyle and foster community integration.



TRANSPARENCY AND **ETHICS**

We adhere to international ethical standards as outlined in our Code of Ethics and Code of Conduct. These documents are available at: www.spectra-lighting.pl





































Company policy www.spectra-lighting.pl



As a trusted manufacturer in the professional lighting industry, we specialize in high-performance LED luminaires designed for architectural, industrial, and sports environments. Our MAGNUM series is engineered for applications that demand precision optics, durable construction, and regulatory compliance.

Fully compliant with key EU directives (EMC, LVD, RoHS, Ecodesign) and harmonized standards (PN-EN, IEC), MAGNUM is backed by complete photometric documentation and lighting simulation support.

Light that elevates efficience



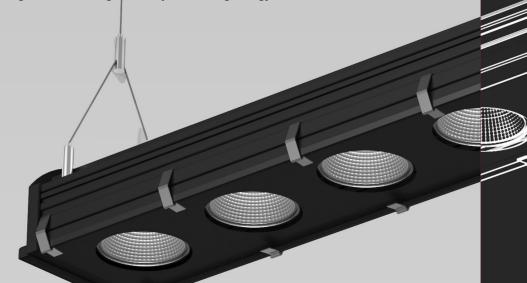
At Spectra Lighting, we understand the pace and precision of modern industry — from production halls and logistics centers to loading bays, swimming pools, sports facilities, and perimeter lighting.

The MAGNUM luminaire delivers controlled, high-efficiency illumination exactly where it's needed. Available with both symmetrical and asymmetrical distributions, it supports tailored lighting designs that meet the specific needs of each site—minimizing glare, spill light, and energy waste.



Light Where It Matters Most

MAGNUM's elliptical and asymmetrical optics ensure precise lighting for aisles, docks, and work zones reducing errors, boosting efficiency, and saving energy.





Engineered for Tough Conditions

Rated IP65 and operable from -25°C to +30°C, MAGNUM resists dust, water, and temperature extremes. An optional safety grille adds protection in high-impact areas.



Certified & Project-Ready

Compliant with Ecodesign, EMC, LVD, and RoHS. Complete with photometric data and options for optics, mounting, and power for demanding environments.











PRODUCT

MAGNUM

Manufacturer: **Spectra Lighting sp. z o.o.**



DOCUMENTATION

HAZARDOUS SUBSTANCES

PN-EN IEC 63000:2019-01 Technical documentation for restricting hazardous substances

LUMINAIRES & ENCLOSURES

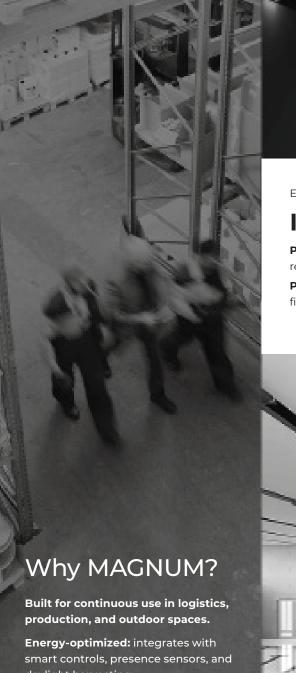
SAFETY

PN-EN 60529:2003 IP ratings

PN-EN 60598-1:2015 General

requirements & tests

PN-EN 60598-2-22:2015-01 Emergency lighting requirements



ELECTROMAGNETIC COMPATIBILITY

IMMUNITY

PN-EN 61547:2009 EMC immunity requirements

PN-EN 62493:2015-11 Exposure to EM fields

ELECTROMAGNETIC COMPATIBILITY

EMISSION

PN-EN 55015:2013 Radio interference

PN-EN 61000-3-2:2014 Harmonic currents

PN-EN 61000-3-3:2013 Flicker & voltage variations

daylight harvesting.

Fully EU-compliant (CE): meets EMC, LVD, RoHS, and Ecodesign standards.

SUMMARY

CE COMPLIANCE

2014/30/UE Electromagnetic Compatibility

2014/35/UE Low Voltage

2009/125/WE Ecodesign

2011/65/UE RoHS

Forward-thinking light for forward-moving industries

As factories, warehouses, and transport centers become more automated and data-driven, lighting must do more than just illuminate. The next generation or lighting like MAGNUM delivers safety, clarity, and performance where it matters most. It's lighting that not only meets standards but sets new ones.

_wall surface-mounted suspended

DESCRIPTION

Designed to meet the needs of modern industrial spaces - combining high energy efficiency, compliance with EU Ecodesign standards, and aesthetic functionality.

APPLICATION

warehouses, production halls, sport halls and pools

HOUSING

aluminum

POWER SUPPLY

electronic, complete with luminaire

MAGNUM

07.180....

LUMINAIRE POWER [W] 43 - 189

LUMINAIRE LUMINOUS FLUX [lm]

5200 - 24300

DISTRIBUTION ANGLE [°]

asymmetrical/ symmetrical

17, 23, 39, 59

COLOUR **TEMPERATURE** [K]

3000, 4000

LIFETIME LXX BXX

L90B10@50.000h

LENGHT L [mm]

416, 526, 636, 746, 856

THE RANGE OF

-25 ... +30

PERMISSIBLE AMBIENT **TEMPERATURES** [°C]

THE COLOUR OF THE HOUSING

RAL9005 (black)































WALL 07.180.2XXX.03.XXX



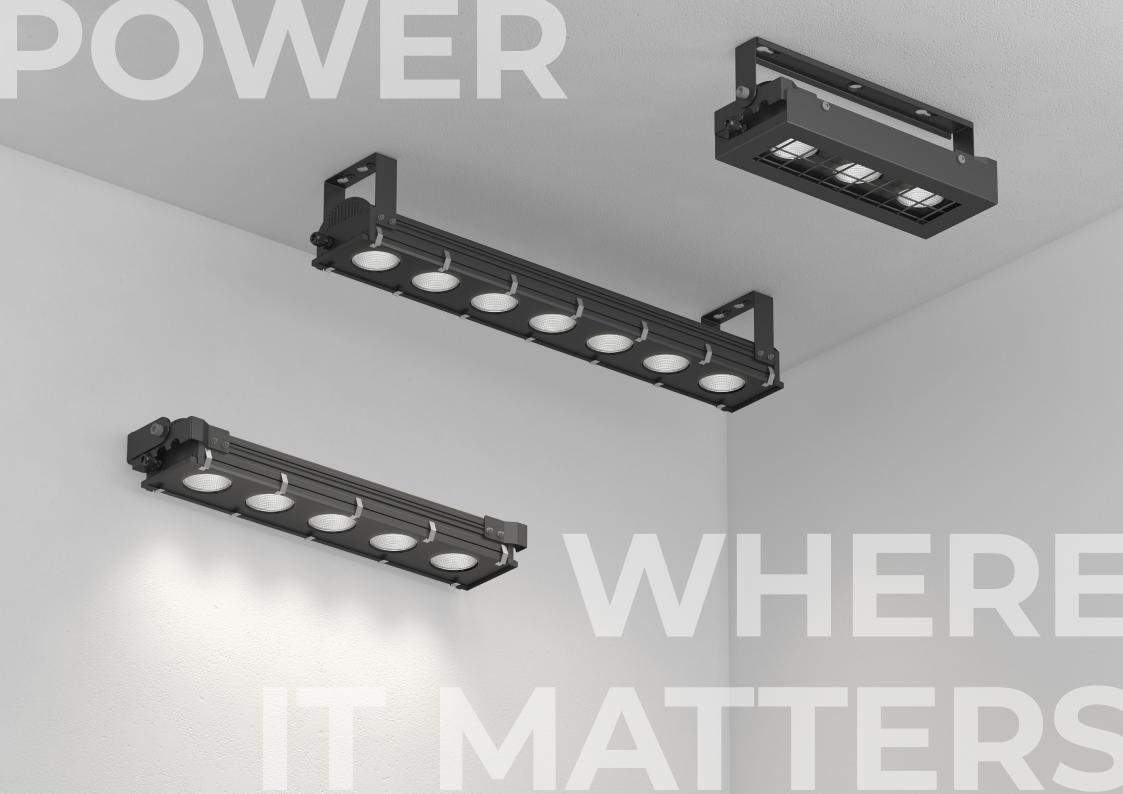
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59°









MAGNUM Safety Grille

OPTIMIZE PROTECTION WITH MAGNUM ACCESSORIES

To ensure long-term performance and durability in demanding environments, the right accessories are essential. Our robust MAGNUM Safety Grille enhances both luminaire protection and application flexibility.



Designed for demanding spaces

Ideal for sports halls, industrial environments, and highactivity zones



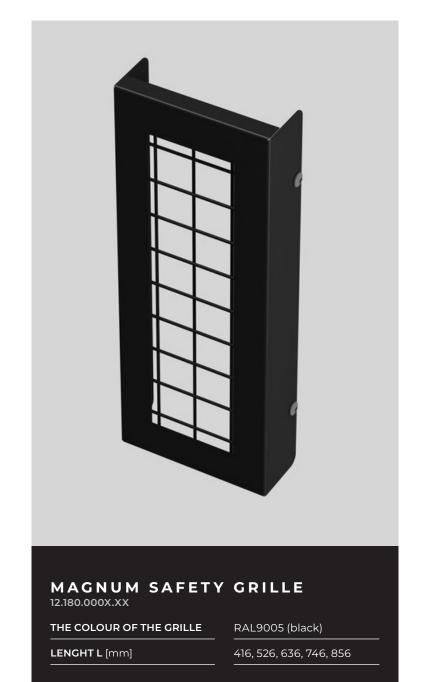
Impact-resistant protection

Powder-coated steel grille prevents damage from ball strikes and mechanical stress (IK-rated)



Light performance preserved

Optimized design ensures consistent light output



MAGNUM's Safety Grille
www.spectra-lighting.pl





PROJECT

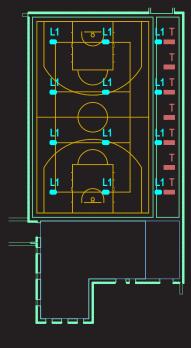
School Gymnasium Lighting

L1 - MAGNUM

Surface Transparent HO/840, 39d., L=416mm, IP65, RAL9005

T - Tajfun

Surface PLX ST/840, L=1200mm, IP65, white/alu



MAGNUM LUMINAIRES WERE SPECIFIED WITH THE FOLLOWING CONFIGURATION:

OPTIC TYPE	39° medium symmetric beam	39°
LED	3 light sources per luminaire	000
MOUNTING HEIGHT	7.8 m	
MECHANICAL STRENGTH	High – tested and rated IK10 according to EN 62262	→) <u>↑</u>

This setup delivered the target illuminance and uniformity across the entire playing surface without over lighting, shadow zones, or excessive energy use.

The MAGNUM Safety Grille ensures reliable protection of the luminaire without compromising its photometric performance—supporting safe, standard-compliant lighting in impact-prone zones.



Optical Precision for

Industrial Applications

MANUFACTURING

SYMMETRICAL OPTICS

- bright, balanced light for assembly and production lines
- boosts accuracy, reduces visual fatigue during detailed tasks

INDUSTRIAL HALLS & WAREHOUSES

SYMMETRICAL OPTICS

- even light for manufacturing and storage
- improves clarity and efficiency





LOGISTICS FACILITIES & LOADING ZONES

ASYMMETRICAL OPTICS

- targeted lighting for loading bays and delivery points
- improves visibility, enhances safety and workflow efficiency



SYMMETRICAL OPTICS

- uniform light for detail tasks and servicing
- prevents shadows around equipment

ASYMMETRICAL OPTICS- increases driver and pe

- increases driver and pedestrian safety, reduces light pollution

BUILIDING SURROUNDINGS

- improves safety and limits trespass

Industrial applications

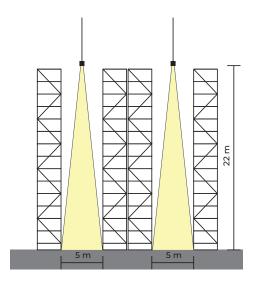
& PATHWAYS

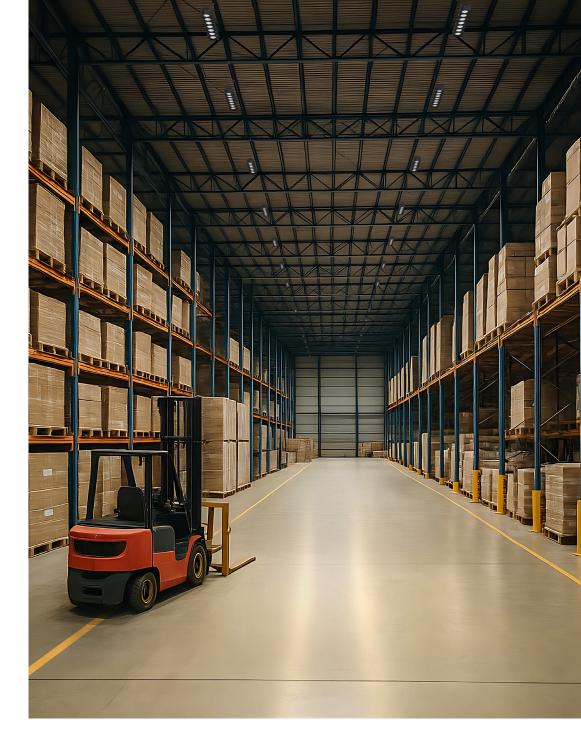
www.spectra-lighting.pl

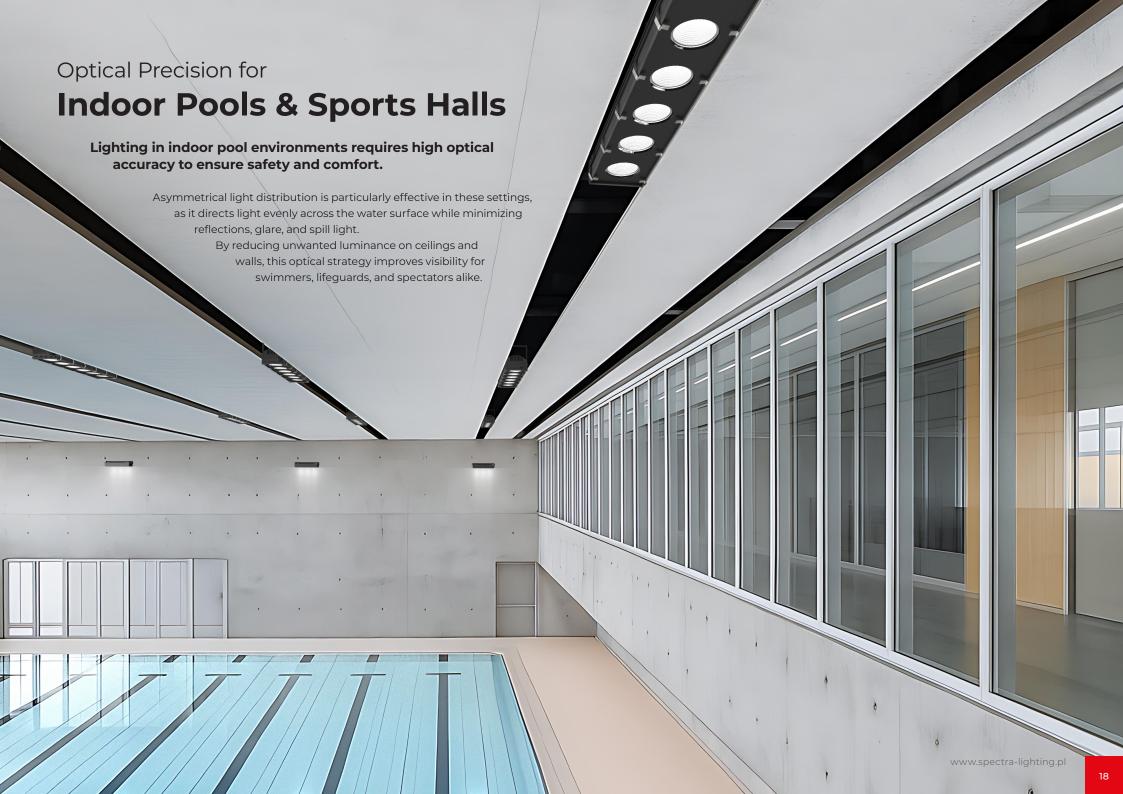
Industrial Halls & Warehouses

In large-scale production and storage environments, symmetrical light distribution is ideal for delivering uniform horizontal illumination. It ensures consistent lighting across wide areas, reduces shadows, and supports safe, efficient workflows—especially in high-ceiling or open-plan zones.

For more targeted applications like racked aisles or linear workstations, elliptical light distribution offers precise beam control. Its oval-shaped spread focuses light along narrow paths, minimizing glare and light waste while improving visual comfort and energy efficiency.







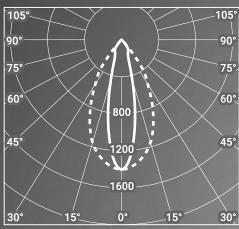
ELLIPTICAL BEAM OPTICS

The elliptical optic in the MAGNUM luminaire offers a specialized light distribution designed to support precise, efficient lighting in industrial and architectural environments.



Elliptical beam control for efficient task lighting.

This is the best solution if you need to achieve a certain expected light intensity on the floor level in corridorshaped areas.



cd/klm —C0 - C180 --- C90 - C270



Key Features& Application Benefits

Unlike symmetrical or asymmetrical options, the elliptical distribution emits a flattened oval beam — providing long, narrow coverage that is ideal for illuminating linear spaces with minimal spill.

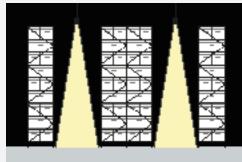
DIRECTIONAL EFFICIENCY

The elliptical optic is engineered to project light in a horizontal or vertical ellipse, significantly reducing unwanted side light and improving luminous efficacy where space dimensions require elongated light footprints.



Perfect for rack aisles, machine perimeters, walkways, or long wall zones in production or logistics environments—where controlled, directed lighting enhances both safety and usability.



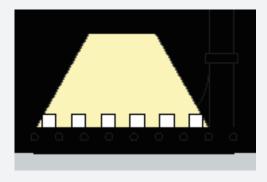


VISUAL UNIFORMITY

Ideal for areas where uniform coverage along corridors, production lines, or equipment zones is critical. It minimizes shadowing and glare, enhancing task visibility and operator comfort.

MOUNTING FLEXIBILITY

Designed for versatility, the elliptical beam works effectively whether the luminaire is mounted directly to ceilings, suspended, or wall-mounted at an angle. Beam direction can be tailored based on the desired axis of distribution.

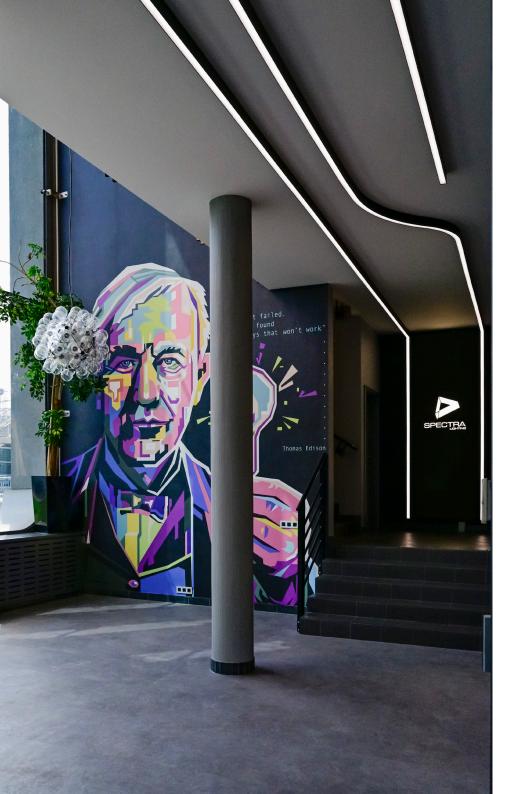




Perimeter or equipment zone illumination in industrial halls Aisle lighting in logistics centers and warehouses FE **Sports facilities** 14 13 Wall-washing or façade accentuation in architectural interiors

Recommended Applications

This optic fills a critical niche in professional lighting design—offering a smart solution for energy-conscious, task-specific lighting where space geometry demands tighter control. When paired with DALI or ON/OFF control systems, it supports full integration into modern Industry 4.0-compliant environments.



Spectra Lighting provides customized, standards-compliant lighting solutions that balance functionality, aesthetics, and interior requirements.

If you have any inquiries or would like to schedule a personalized consultation for your project, please do not hesitate to contact us via phone or email:

+48 22 567 01 00 info@spectra-lighting.pl



Scan the code to explore the range of luminaires available on the website

