



TUNGSRAM™

Innovation is our heritage
EST. 1896

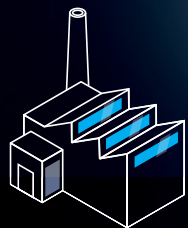
Industrial Lighting Solutions

tungsram.com



An iconic name aims to change the world and the way we perceive it.

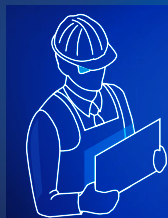
At Tungsram, we see ourselves as more than just a lighting company that offers an innovative approach to lighting. We don't segment Tungsram exclusively as a lighting company. Our ambition is to enrich our portfolio and lead the way toward the new age of technology, not simply by providing light, but smart solutions to meet future challenges. Tungsram, the iconic lighting brand seeks to serve its target markets with high-quality lighting solutions.



5 factories in Hungary



Highly skilled colleagues



more than
4000
employees

Up-to-date technology and certified quality assurance



Expertise in lighting



Tungsram Operations

The Science of Lighting

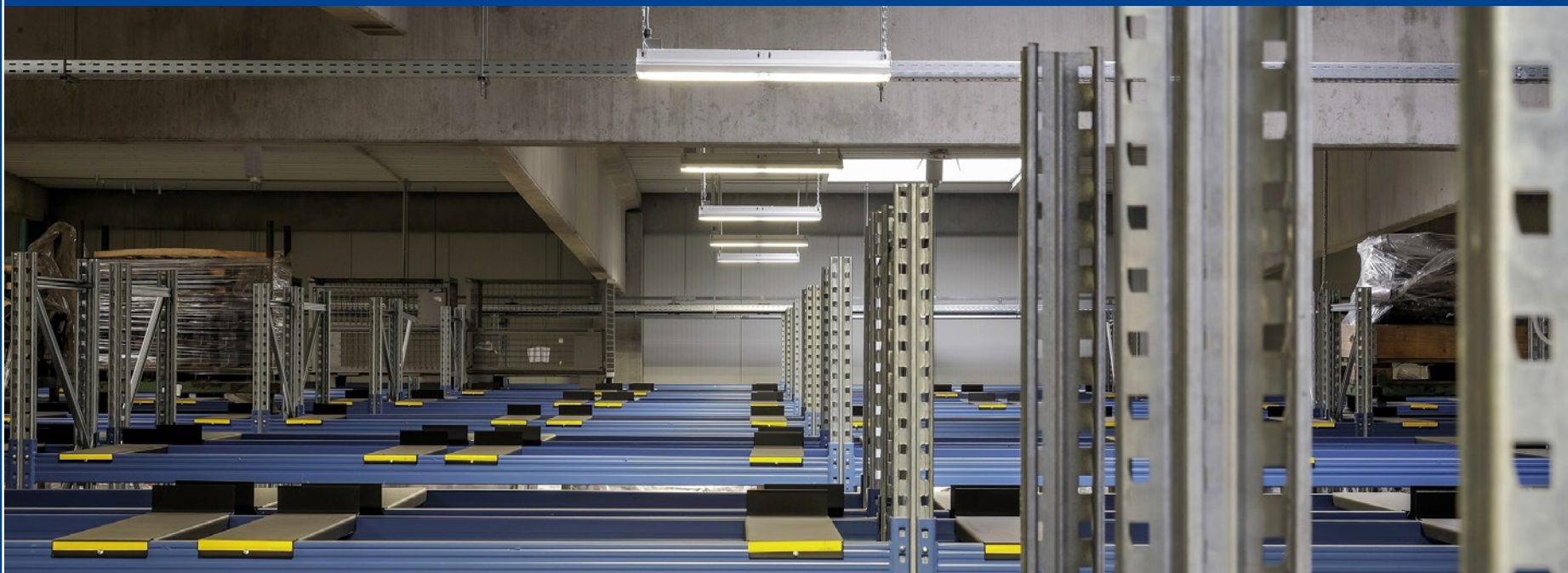
Lighting affects us all, especially in an industrial environment.

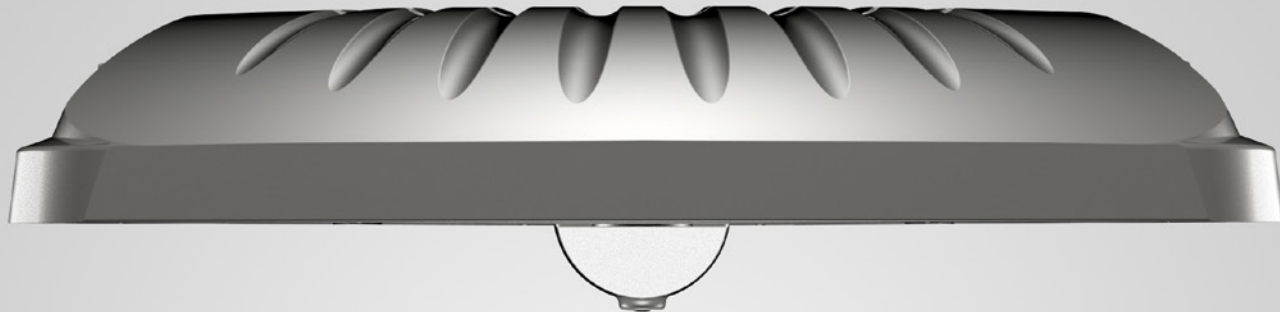
Where natural light is scarce and production is sometimes running 24 hours a day, it is essential to select the optimal light source to provide the necessary quality, while also managing operational and maintenance costs.

The advent of LED technology has opened new horizons in industrial lighting. The ability to deliver high-quality products capable of delivering variations of light that significantly lower energy consumption has made it a very attractive proposition.

At Tungsram, our engineers and designers develop optimized solutions for different industrial environments to provide energy-efficient and human-centric lighting solutions.

Let Tungsram bring you the Science of Lighting.





Optimal Lighting for Various Industries

The right lighting is basic for every work environment. We at Tungsram know how diverse needs there are in the various segments of any industry. Although the required lighting is standardized and officially controlled, there is a huge difference in the amount and quality of light necessary for actual type of work in the different factories, laboratories and warehouses.

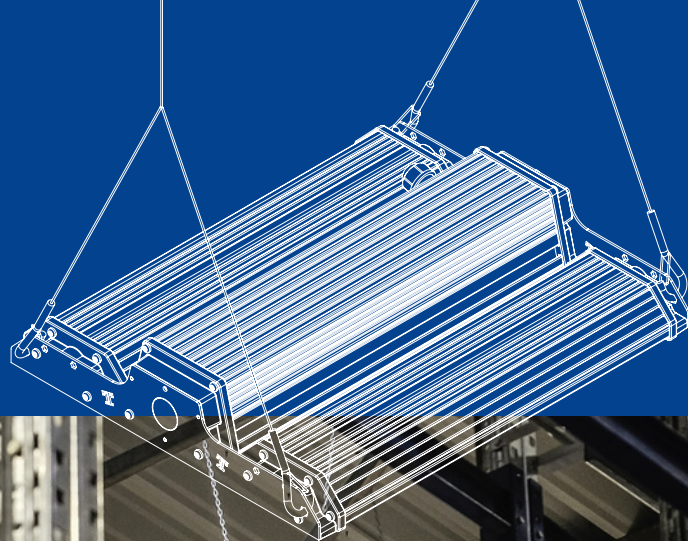
Better Light for Better Work

The right lighting is required for good vision and ensures a pleasant lighting climate. Expert planning is required to meet the diverse requirements of ergonomically and photometrically perfect lighting. Good lighting is needed to meet health and safety requirements: it should provide support for visual processes and protect employees from accidents and health hazards. But it is much more. It influences our physiological condition and has an impact on our concentration and psychological well-being, therefore greatly effects our performance.

Improve Lighting and Save Costs

Saving while improving is the challenge of the 21st century. Tungsram LED technologies offer lighting optimization with massive energy efficiency, saving up to 80% energy or more, contributing to cost saving, sustainability and smaller carbon footprint.

Modern lighting designs serve particular environmental needs by using intelligent lighting controls linked to daylight sensors and other smart control applications. More light for senior employees, or higher illuminance levels for dedicated workstations by better identifying visual requirements are among the many technologic improvements we offer.





The Value Inside Lighting Improvement

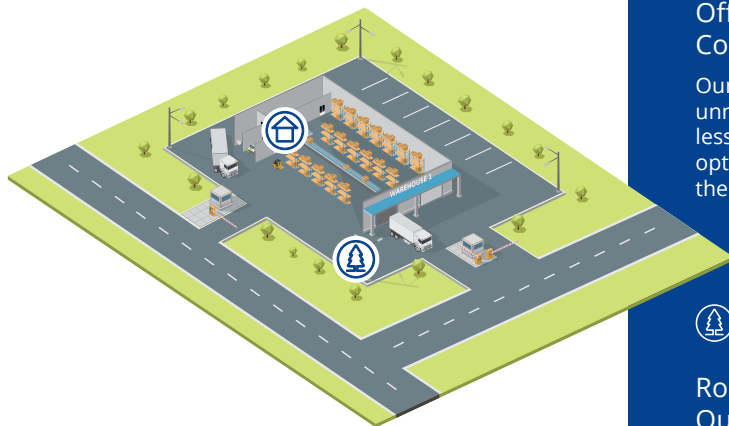
A LED based lighting system is an immensely worthwhile investment in industrial workplaces. Besides its high efficiency and up to 80 % lower energy costs, its low degradation, long service life and low heat generation results in considerable savings in the long term.

An optimized lighting solution improves visual performance, promotes concentration, prevents fatigue and stress, therefore it maintains overall health and protects against accidents at work.

A well designed Tungsram lighting system offers greater flexibility; it can be expanded without great efforts and can be adapted to new work requirements. LED lighting at Tungsram means high degree of reliability due to high-quality components and professional engineering.

Tungsum LED Lighting Solutions

- Better illuminance
- Harmonious distribution of brightness
- Good glare suppression
- Modelling (direction of light and shadows)
- Light colour and colour rendering
- Smart control with dynamics, daylight integration and individual adjustability



INDOOR

Industrial Product Overview

Our engineers help designing the optimal lighting system for your facility, and selecting the best choices of Tungsum products for the purpose.

High Bay
IP20High Bay
IP66Integrated
Mariner
PremiumHigh Bay
Round IP65
G1 and
G2 HoneyCombLinear
High BayTubular
Linear
Range

Office, Social and Commuting Areas

Our systems help eliminating unnecessary lighting and costs in less used areas, while projecting the optimal amount and quality of light to the required surfaces.



Edgelit Panel

Spotlight
G1 5W

IP54 Downlight

Slim Downlight
PremiumIntegrated
Bulkhead

OUTDOOR

Roads and Other Outside Areas

Tungsum LED Lighting Solutions assure safety and security by installing the necessary lighting outside.



SLbt

ALix Area
Lighter

Piko

AMlx

Floodlight



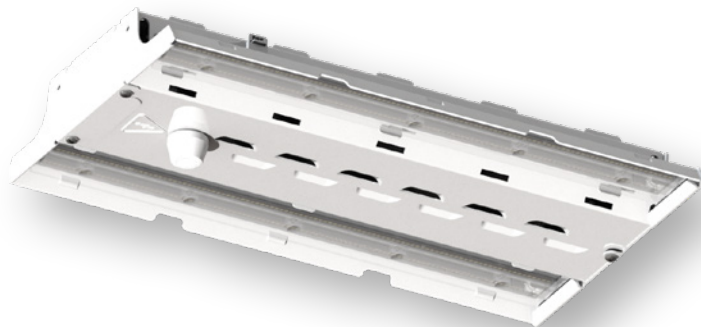
INDUSTRIAL PRODUCT
OVERVIEW

High Bay IP20

The new Tungsram High Bay LED luminaire is an exceptional mixture of value and performance. The product range has been upgraded to reach very high efficacy up to 177 lm/w and cover lumen packages between 11,000 – 30,000 lumens. The range includes DALI and various sensor versions, such as the Nedap Luxon IoT Node, to enable internet connection and wireless control of the luminaire range. With the improved efficacy, wide range of control options and higher lumen output, the HB IP20 is an ideal choice to replace high watt HID and T5/T8 LFL fixtures in high bay and low bay applications, in industrial and commercial buildings.



[LINK TO DATASHEET](#)



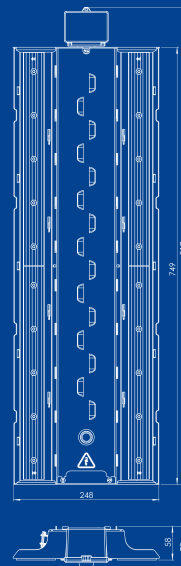
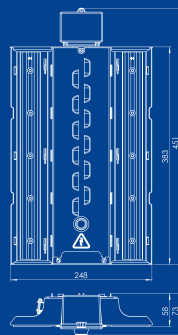


INDUSTRIAL PRODUCT
OVERVIEW

High Bay IP20



Dimensions



Applications

- Designed to meet recommended luminance and illuminance requirements for High bay and Low bay applications

Finish

- Painted white finish with standard color: RAL 9016

Housing

- Combination of steel and aluminium housing
- HB IP20 Series' design accommodates 1 or 2 modules with 2 LED units per module
- IP40 rating for the optical LED compartment, IP20 rating for the electrical part

Mounting

- Various mounting options: Cable or threaded rod kit. Mounting accessories need to be ordered separately.

Ratings

- Temperature Rated at -30°C to +60°C
- L80B50 50 000hrs - 100 000 hrs @ 50C
- L80B50 80 000hrs - 100 000 hrs @ 25C

Controls

- Fixed output for Standard (S) series only
- DALI with High (H) and with standard (S) series.
- Motion & lux sensor – enables standalone fixture control up to 12m installation height. Can be used with Standard (S) series only.
- RF wireless sensor – enables control for groups of fixtures with RF (Radio Frequency) sensor in a local lighting control system grid without additional DALI wires, up to 15m installation height. Can be used with High (H) and Standard (S) series as well.



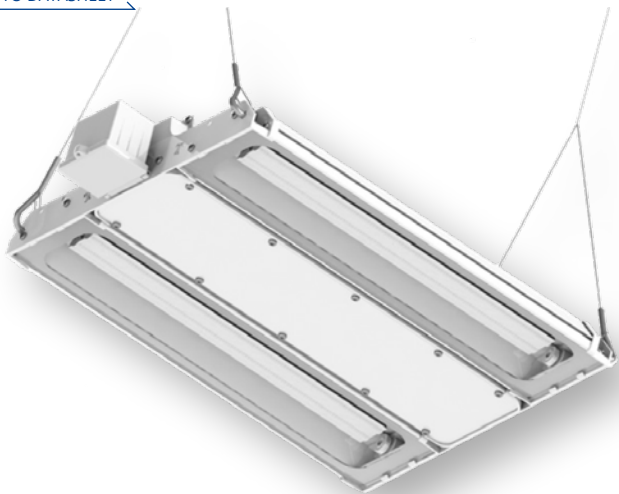
INDUSTRIAL PRODUCT
OVERVIEW

High Bay IP66

This IP66 rated LED fixture range offers exceptional mixture of value and performance for high bay applications where water and dust resistance required. This range has been upgraded to reach very high efficacy up to 182 lm/W with high lumen packages from 10,000lm to 30,000 lumens. The range includes wide variety of alternatives for color temperature, color rendering, beam angle and control systems, for to best optimized customer solutions. DALI, IoT and various sensor versions offer modern solutions for any lighting project. Designed to replace high watt HID and T5/T8 LFL light sources.



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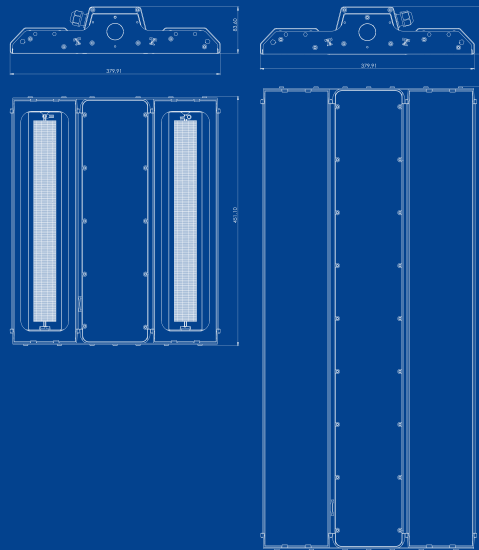


INDUSTRIAL PRODUCT
OVERVIEW

High Bay IP66



Dimensions



Applications

- Designed to meet luminance and illuminance requirements for High bay and Low bay applications where water resistance and high impact resistance is specified.

Finish

- Finished in standard white colour: RAL 9016

Housing

- Robust extruded aluminum body with integrated cooling ribs and tempered glass window
- IP66/65 and IK08 rating

Mounting

- Two mounting options: Bracket kit for ceiling and wall mounting or Suspension holder kit.

Ratings

- Temperature Rated at -30°C to +60°C
- 50 000 - 100 000 hrs @ Ta=50
- 80 000 - 100 000 hrs @ Ta=25

LED & Optical Assembly

- Utilising the high performing NEW Tungsram optics system to provide optimised illumination for open floor and racked aisles with photometric distributions of 30, 60, 90 and 120 degrees
- Lumen packages up to 30,000 lumens
- 4000K & 5000K versions
- 70 & 80 CRI options



INDUSTRIAL PRODUCT
OVERVIEW

Integrated Mariner Premium

This fixture has an attractive, neutral aesthetics that makes it suitable for applications in commercial, residential and industrial environments. It is an energy-efficient, low maintenance alternative to traditional fluorescent waterproof fixtures. The integrated mariner offers customers the best mix of value and performance. Its compact size with high lumen output makes it a perfect lighting solution for applications where high luminous intensity and resistance is required.



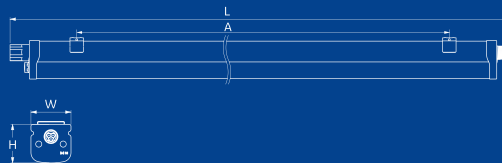
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INDUSTRIAL PRODUCT
OVERVIEW

Integrated Mariner Premium

Dimensions



Type	L (mm)	W (mm)	H (mm)
LED Mariner PR G1 TU 4' xxx	1170	66	63
LED Mariner PR G1 TU 5' xxx	1470	66	63

Benefits

- Energy savings of up to 70% (compared to luminaires that use fluorescent lamps)
- Uniform light
- Convenient , continuous connection for both sizes of 1200mm and 1500mm , simple and easy installation options
- High resistance against ambient air with humidity and high particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector design

Features

- High performance with outstanding efficiency with 5 lumen packages – up to 140 lm/W
- Wattage: 20W to 70W
- Luminous flux: 2700lm to 9600lm
- 70000 hours lifetime (L70/B50)
- 2 colour temperatures: 4000K and 6500K
- Wide beam angle of 125 degree
- Linear luminaire with high protection rating (IP65) and high impact resistance (IK08) make integrated LED mariner the idea solution in challenging ambient conditions
- Suitable for operation in ambient temperature of -20°C to +40°C for standard and -20°C to +25°C for emergency versions
- Integrated through-wiring 2x1.5mm²
- Quick connector solution on both ends of the fixture to allow single fixture or continuous fixture installations
- Static built-in driver. Dali version is optional with Tridonic driver for 3800lm and 6200lm pack in 4000K CCT
- PF >0,9
- THD < 20%
- Nominal Voltage: 220-240V
- Operating frequency: 50-60Hz
- Certificates: CE, CB, TÜV
- Insulation Class II
- Breather valve to maintain good waterproofness
- Motion sensor (MS) available for all wattages.



INDUSTRIAL PRODUCT
OVERVIEW

Tubular Linear

The high performance IP67/ IP69K waterproof Tubular luminaire range has many advantages. Matching design and performance this product offers an outstanding efficacy up to 150 lm/W. Thanks to high protection to external aggression (IK10) and against dust and water (IP65/IP67) the Tungsram LED Tubular is an effective solution for the lighting in many environments (such as parking lots, railway and airport station, warehouses etc.) and also promotes easy architectural integration due to its thin tubular shape. Not only efficient and good looking, this product ensures a sustainable investment due to low energy consumption and reduced maintenance costs.





INDUSTRIAL PRODUCT
OVERVIEW

Tubular Linear

Dimensions



Description	A (mm)	B (mm)	C (mm)
LED Tubular TU-x-LS36-xxx	1200	70	70
LED Tubular TU-x-LS48-xxx	1500	70	70

Finish

- Frosted / Clear diffuser with stainless steel end caps

Applications

- Designed for replacement of conventional linear fixtures with LFL tubes up to 2x58/70W
- Depends on cover the product is ideal for industrial and storage facilities, warehouses, workshops, assembly lines, food industry (HACCP certified), animal farms and car washes (DLG certified)

Features

- Wattage: 36W to 48W
- Luminous flux: 4680lm to 7200lm

Cover

- Impact-resistant (IK07/IK10) tempered glass, PMMA or PC cover depends on application area.

Mounting

- Different mounting options: stainless steel bracket for surface mounting as default, suspension kit and anti theft clip optional
- Installation height is up to 8m

Ratings

- IP67/69K rated
- Ambient temperature -20°C to +40°C
- Lifespan 100 000hrs L70B50 at 25°C

Controls

- Static control as default
- Static and DALI control, Motion sensor optional



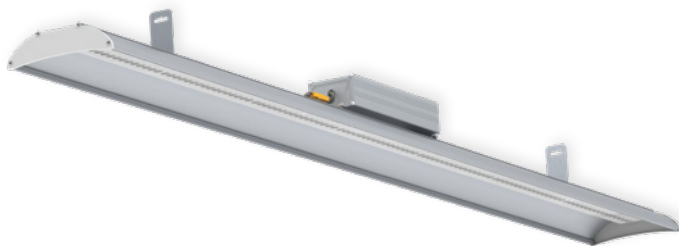
INDUSTRIAL PRODUCT
OVERVIEW

Linear High bay

The Tungsram Linear High bay is a simple LED solution which efficiently illuminates work areas, creating a brighter and better warehouse, retail or manufacture environment. With its two optical design and energy efficiency, this easy-to-install and low-maintenance lighting solution is suitable for a variety of applications.



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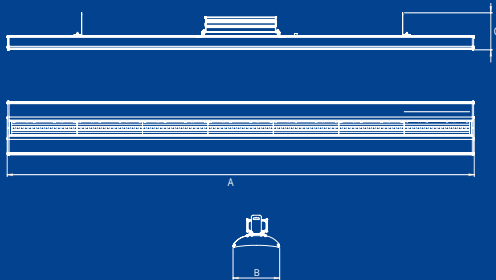




INDUSTRIAL PRODUCT
OVERVIEW

Linear High bay

Dimensions



Model	A (mm)	B (mm)	C (mm)
LED Linear Highbay G1 TU 4ft xxx	1008	138	98
LED Linear Highbay G1 TU 5ft xxx	1408	138	98

Model	Driver (mm)	Weight incl driver (kg)
LED Linear Highbay G1 TU 4ft xxx	210x65x40	2.0
LED Linear Highbay G1 TU 5ft xxx	210x65x40	2.2

Benefits

- High energy savings up to 50% comparing to TL-5 Highbay
- Direct replacement of T5 Highbay
- Functional, linear design with flexible installation
- Affordable solution for retrofit or new installations
- Reduced replacement and maintenance costs

Features

- Efficiency up to 110 lm/w
- 50 000 hours lifetime (L70)
- Nominal Voltage: 220-240V
- Operating frequency: 50/60Hz
- Available in two lumen output versions up to 12000lm (with duplicator kit up to 24000lm)
- CCT 4000K
- Color rendering index: CRI 80+
- Beam angle: 100° as default, easily replaceable 50° plastic optic optional - can be ordered as accessory
- Duplicator kit mounting two fixtures to each other for higher lumen output is optional - can be ordered as accessory
- Operation temperature: -20°C to +45°C
- IP40 protection for optical part / IP20 for driver
- IEC protection Class I

Fixture structure

- Grey color extruded aluminium housing for good heat dissipation and acrylate lenses
- Tested for glow wire at 650°C
- Suspension kit included in package
- Duplicator kit for higher lumen package

Application

Warehouse, Distribution center, Factory Sporthall, other high ceiling indoor applications



INDUSTRIAL PRODUCT
OVERVIEW

Round High Bay IP65 G1

The TUNGSRAM Round High Bay G1 range has a massive industrial aesthetic that makes it suitable for applications in facility that has high ceilings and requires illumination of 6 meter or more. Designed as a simple point-to-point replacement for conventional high-bay luminaires with 250 and 400 W mercury vapor or metal halide lamps. The 4-5x longer lifetime vs HID lamps provides significant reduction in maintenance costs without usage of mercury and other hazardous materials.

Featuring highly efficient Samsung LEDs and a Moso driver, that along with the rest of the high quality items provide a 135lm/W efficiency. Its light flow can be dimmed from 0-10V or DALI, allowing us to adjust the brightness of the light emitted, in function with the needs of each moment.

The Round High Bay G1 range offers all the benefits of LED lighting to the customers – fresh light quality, longer service lifetime, reduced energy consumption and less maintenance.



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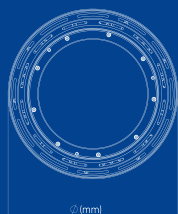




INDUSTRIAL PRODUCT
OVERVIEW

Round High Bay IP65 Gen1

Dimensions



Product	Wattage	Ø (mm)	A (mm)	B (mm)
High Bay TU Gen1 75W	75w	300	142	213
High Bay TU Gen1 110W	110w	300	142	213
High Bay TU Gen1 150W	150w	300	131	202
High Bay TU Gen1 200W	200w	360	131	202

Features

- Luminous efficacy: up to 135 lm/W
- Lifespan 50000hrs L70B50 at 25°C
- 2 color temperatures: 4000 and 6500K with SDCM <6
- Wide beam angle of 110 degree
- Type of protection: IP65
- Type of resistance: IK08
- Suitable for operation in ambient temperature of -20°C to +50°C for standard
- Nominal Voltage: 220-240V
- Operating frequency: 50/60Hz
- Moso MTP driver for static and dimming with 2-in-1 dimming mode: 0-10V, PWM dimming; Dim-to-off
- Other driver is the LTP series for DALI control

- Surge protection: 4KV line-line, 6KV line-earth
- Multiple protection: SCP, OVP, OTP
- IP68 quick connector for input
- PF >0,9
- Available with beam angle: 110° with fixture as a standard 70°/ 90° with aluminium reflectors
- Certificates: CE, CB

Benefits

- High luminous efficacy
- The luminaire can be installed on the existing grid
- Electrical connection is straightforward: there is no need to open the luminaire for installation or servicing
- Optimized weight and size due to compact design
- Energy saving is up to 70 % compared to conventional high bay luminaires
- Uniform light
- Excellent performance and light quality
 - Consistent color rendering (CRI = 80) in compliance with EN-12464-1
- High resistance against ambient air with humidity and high particle loads
- Simple refurbishment solution thanks to use of existing installation points with freely positionable mounting clips
- Fast and simple installation due to quick connector design
- Samsung LED chip
- Aluminium body for optimize heat performance
- Easy mounting for suspension and surface/ sealing



INDUSTRIAL PRODUCT
OVERVIEW

Round High Bay IP65 G2 with Honey Comb

The IP65 Round High Bay with Honey Comb optic is designed to replace traditional high ceiling applications. The Honey Comb structure together with the special designed housing frame can provide excellent optic design, dual anti-glare and more comfortable UGR level in all industrial areas (<UGR22, RG0). The less glare means more safety when operation while the efficacy is above 140lm/W which provides additional saving for the user. The robust design results long lifetime in all applications.

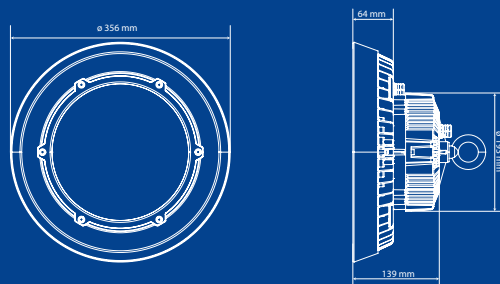




INDUSTRIAL PRODUCT
OVERVIEW

Round High Bay IP65 Gen2 with Honey Comb

Dimensions



Product	Wattage	Ø (mm)	Height (mm)
High Bay TU Gen2 100W xxx	100w	280	190
High Bay TU Gen2 150W xxx	150w	360	210
High Bay TU Gen2 200W xxx	200w	360	210

Applications

- Designed for replacement of conventional round shape high bays with HID lamps up to 400W

Housing

- Die-cast aluminium housing with tempered glass diffuser and 60/70/80° honeycomb structured aluminium reflectors

Mounting

- Different accessories for different easy installation: suspension chain or metal bracket
- Installation height is 3-20m

Ratings

- IP65 rated
- Ambient temperature -20°C to +50°C
- L70B50 80 000hrs @ 25°C

Controls

- Static, 0-10V and DALI control
- Motion sensor is optional

Finish

- Painted black housing





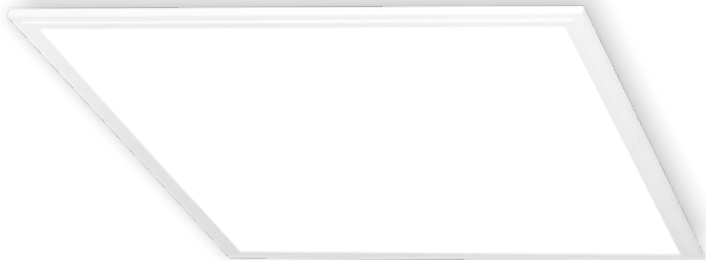
OFFICE, SOCIAL AND
COMMUTING AREAS

Edgelit Panel

The Tungsram Edgelit Panel luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off, they appear completely free of a visible light source. Designed to replace fluorescent fixtures in suspended T grid ceilings.



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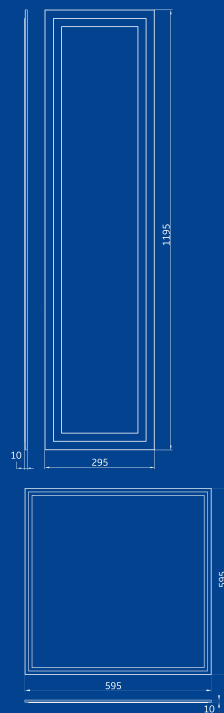


INDUSTRIAL PRODUCT
OVERVIEW

Edgelit Panel



Dimensions



Uniform illuminated surface

- No visible diodes or glare
- Superior performance
- Broad uniform light distribution, reducing the number of luminaires needed to light a space

LED technology

- Lifespan 50000 hrs L70B50 at 25°C
- Energy efficient up to 120 lm/W
- No pollution for the environment
- RoHS compliant
- Mercury free, no IR or UV radiation
- Two types of Unified Glare Rating (UGR) as per different applications' requirements UGR <19 & UGR 21

Slim profile

- Can be used in ceilings with limited space

Control

- Available with static or Dali driver

Mounting

- Recessed as default, suspended and surface mounted with accessories

Durable

- Resistant to vibration and impact

No IR or UV radiation

- Suitable for lighting fragile objects in shops, museums or on display



OFFICE, SOCIAL AND
COMMUTING AREAS

Spotlight G1 5W

The Spotlight G1 5W range has functional and minimalistic design with fix and adjustable versions. These LED Spotlights are ideal for small areas to make your ceilings seem higher, or when you are looking for directional lighting. Never was the installations easier and quicker with these products. The Spotlight G1 5W range offers all the benefits of LED lighting to our customers – fresh light quality, reduced energy consumption and less maintenance.



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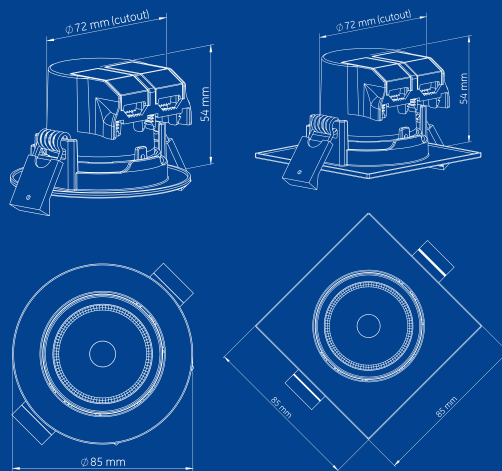




OFFICE, SOCIAL AND
COMMUTING AREAS

Spotlight G1 5W

Dimensions



Applications

- Ideal replacement for MR16 Halogens up to 50W
- Designed for general lighting applications in offices, shops, also recommended for public areas, such as stairway, lobby, reception, corridors, etc.

Housing

- Die-cast aluminium housing with integrated polycarbonate lens to exhibit desired lighting effect with high efficacy.

Mounting

- Recessed

Ratings

- IP65 rated fix and IP20 rotatable versions available
- Ambient temperature -10°C to +40°C
- Lifespan 20 000hrs L70B50 at 25°C

Controls

- Static and Triac control available

Finish

- Resistant to vibration and impact



OFFICE, SOCIAL AND
COMMUTING AREAS

IP54 Downlight

The new Tungsram IP54 Downlight range with traditional deep reflector (UGR<19) provides perfect combination of high efficient comfortable lighting and professional design without compromising on light performance (color rendering and color uniformity). Due to the interchangeable optics (24°, 36°, 55° beam angle) it offers a wide choice of options for creating the desired ambience.

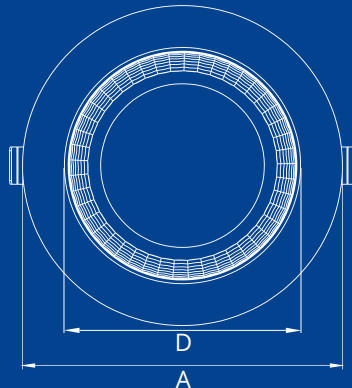
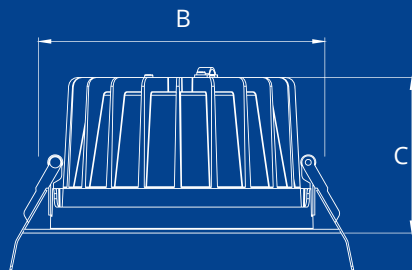




OFFICE, SOCIAL AND
COMMUTING AREAS

IP54 Downlight

Dimensions



Description	A	B	C	D	Size (mm)	Weight (kg)
LED DLR G1 18Wxxx	172	145	90	127	Ø172x90	0.840
LED DLR G1 23Wxxx	228	195	99	176	Ø228x99	1.305
LED DLR G1 33Wxxx	228	195	99	176	Ø228x99	1.305

Applications

- Ideal replacement for conventional CFL fixtures
- Designed for general lighting applications in offices, shops, also recommended for public areas, such as stairway, lobby, reception, corridors, etc.
- Glare index UGR<19

Housing

- Die-cast aluminium housing with metal reflector and replaceable PC optic

Mounting

- Recessed

Ratings

- IP54 rating for optical, IP20 for the electrical part
- IK06
- Ambient temperature -20°C to +45°C
- Lifespan is +50000hrs L70B50 at 25°C

Controls

- Static control
- Compatible with EM converter kit

Finish

- White aluminium bezel



OFFICE, SOCIAL AND
COMMUTING AREAS

Slim Downlight Premium

Tungsram Slim Downlight Premium range is an ultra-thin recessed luminaires designed to replace downlight luminaires based on CFL lamp technology. There are a selection of sizes and colour temperature options to meet customer requirements. With this new extra slim range lighting can be upgraded in key segments such as office, commercial buildings, retail backoffice, hospitality. Easy choice to make switch to LED and benefit from energy saving and long life time.



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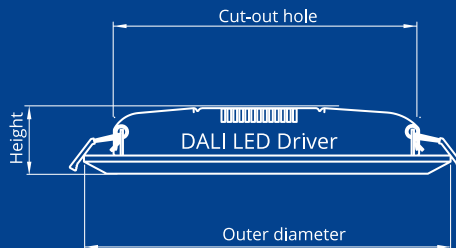
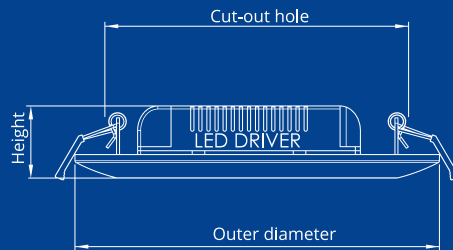




OFFICE, SOCIAL AND
COMMUTING AREAS

Slim Downlight Premium

Dimensions



Type	Size (mm)	Outer diameter (mm)	Height (mm)	Cut out hole (mm)	Weight (g) (With/without driver)
Static	148	180±2	36	150±2	310/240
Static	200	240±2	36	200±2	520/430
DALI	148	180±2	43	150±2	440/240
DALI	200	240±2	43	200±2	630/430

Applications

- Designed for replacement of conventional
- CFL fixtures up to 2x26W as a general lighting applications in offices, shops. It is also recommended for public areas, such as stairway, lobby, reception, corridors, etc.

Housing

- Integrated polystyrene and polymethyl methacrylate front material and white aluminum housing for good heat dissipation

Mounting

- Recessed

Ratings

- IP40 rating for optical, IP20 for the electrical part
- Ambient temperature -20°C to +40°C
- Lifespan 45 000hrs L70B50 at 25°C

Controls

- Static and DALI control available
- Compatible with EM converter kit

Finish

- White painted housing



OFFICE, SOCIAL AND
COMMUTING AREAS

Integrated Bulkhead

A simple and elegant light fitting, designed with Integrated LED light module and dedicated optic, both for interior and exterior applications. The Integrated Bulkhead range offers a comprehensive choice of versions including two sizes, opal diffuser and optional sensor function. It is a wall and ceiling LED luminaire that can be utilised in versatile application ranges including damp environments, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and outside walls of buildings.



[LINK TO DATASHEET](#)



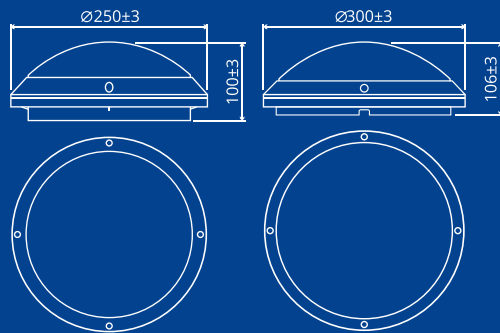


OFFICE, SOCIAL AND
COMMUTING AREAS

Integrated Bulkhead



Dimensions



Benefits

- Energy savings of up to 60% (compared to luminaires that use 2D fluorescent lamps)
- Integrated light module with optic
- Uniform light
- Fast, simple and easy installation options
- Lasts ~4x longer than typical CFL bulkhead fixture

Optical and LED specification

- L70B50 45,000 hours
- Min 80 CRI
- No-flickering integrated driver
- Opal diffuser options

Features

- High protection rating (IP65) and high impact resistance (IK10) make integrated LED bulkhead the ideal solution in challenging ambient conditions
- 3 colour temperatures: 3000, 4000 and 6500K • Wide beam angle of 125 degree
- Lifespan 45 000hrs L70B50 at 25°C
- Available in 3 sizes: 250, 300 and 330mm
- Suitable for operation in ambient temperature of -30°C to +40°C, for Integrated EM versions -30°C to +25°C
- Static built-in driver
- High efficiency up to 106 lm/W
- PF >0,9
- THD < 30%
- Operating frequency: 50-60Hz
- Nominal Voltage: 220-240V
- Insulation Class II
- Available with integrated motion and daylight sensor, sensor is adjustable for hold time (5s – 15mins), detection area (10 - 100%) and daylight sensing (disable – 50lux)– see details on adjustment option in the install guide
- Option to group fixtures for on/off control – see details in the install guide

Structures and materials

- Body / Diffuser / Bezel: impact resistant, self-extinguishing, UV stabilized polycarbonate
- Body color: white



ROADS AND OTHER
OUTSIDE AREAS

SLBt

SLBt is an ideal solution for parking lots, private roads and other open areas. With SLBt you can enjoy all the advantages of LED technology: extremely long lifetime, reduced energy consumption, improved visibility.



[LINK TO DATASHEET](#)



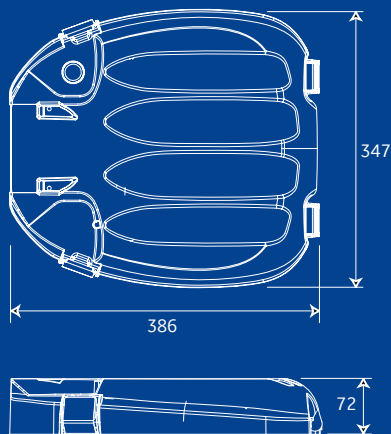


ROADS AND OTHER
OUTSIDE AREAS

SLBt



Dimensions



Optics

Asymmetric – short



Driver feature

- Electronic, dimmable DALI driver with autonomous dimming: 15-72W.
- Constant Light Output (optional)

Structures and materials

- Housing material: die-cast aluminium body, corrosion resistant screws and brackets
- Optic material: coated polycarbonate or aluminium
- Colour: RAL7035
- Optical cover: UV stabilized polycarbonate
- All materials used in this product are WEEE and ROHS compatible.

Performance

- Rated luminous flux range: from 1 480 to 8 360 lm at 4000K
- Rated luminaire efficacy: up to 122 lm/W at 4000K.
- Photometric code: 727/559 , 730/559, 740/559
- Rated median useful life and the associated rated LM factor L80B50: > 195.000 hours
- Rated abrupt failure value: 11.5 %
- Lumen maintenance code: 9
- Rated ambient temperature (tq) related to Performance for a luminaire: 25°C

* Definitions and tolerances according to IEC 62722-2-1.

**Rated abrupt failure value depends on the configuration type.



ROADS AND OTHER
OUTSIDE AREAS

Piko

Introducing Tungsram's latest LED road and street fixture, the PIKO, which makes the advantages of outdoor LED lighting available for everyone, even those on tight budgets. Designed to replace 11-36 W CFL and 35-70 W HID fixtures, the PIKO is a great LED solution for minor roads, residential streets and other public spaces where modest levels of illumination are required.



[LINK TO DATASHEET](#)



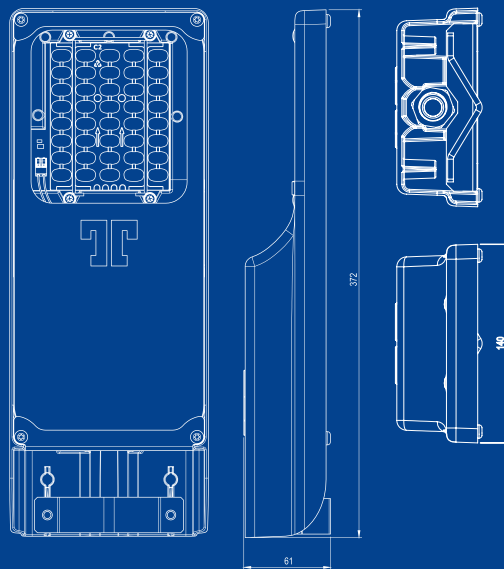


ROADS AND OTHER
OUTSIDE AREAS

PIKO



Dimensions



Driver features

- Electronic, non-dimmable driver

Structures and materials

- Housing material: die-cast aluminium body, corrosion resistant screws
- Color: RAL7035
- Optical cover: tempered glass

Performance

- Rated luminous flux range: from 1.500 to 3.600 lm
- Rated luminaire efficacy: Up to 140 lm/W
- Photometric code: 730/559, 740/559, 750/559
- Rated median useful life and the associated rated LM factor: L80B50 > 110.000 hours
- Rated median useful life and the associated rated LM factor: L80B10 > 105.000 hours
- Rated median useful life and the associated rated LM factor: L90B50 > 54.000 hours
- Rated abrupt failure value: 10% at 50.000 hours
- Lumen maintenance code: 9
- Rated ambient temperature (tq) related to performance for a luminaire: 25°C

Definitions and tolerances according to IEC62722-2-1:2014

Installation and maintenance

Mounting options:

- Side mount ø35mm-60mm
- Recommended mounting height: 4-8m
- Weight: 2 kg
- Only two hand-tools required for installing the fixture
- Storage temperature up to 85°C.
- Ambient temperature from -40°C to +35°C

Electrical

- Input voltage and frequency: 220-240V, 50Hz
- IEC Safety Classification: Class I
- Driver surge immunity: 6kV
- Rated input power: 12W to 28W



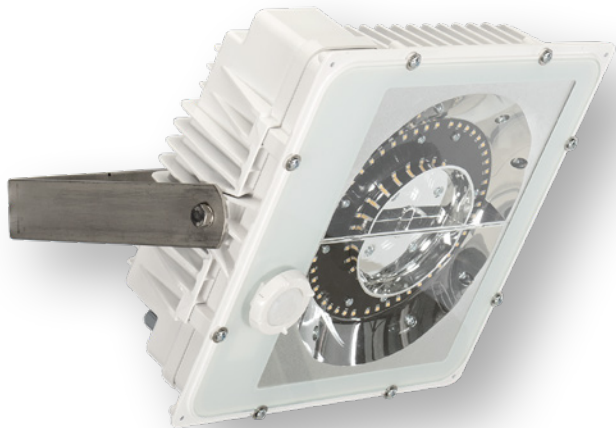
ROADS AND OTHER
OUTSIDE AREAS

AMix

AMix is our latest LED canopy fixture, provides a flexible and rapid installation solution for petrol stations, high bays, parking garages, industrial and other lighting application areas. AMix is ideally suited both for replacing traditional fixtures such as HID luminaires and for new installations.



[LINK TO DATASHEET](#)



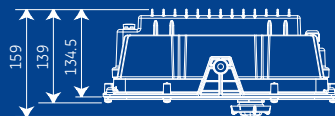
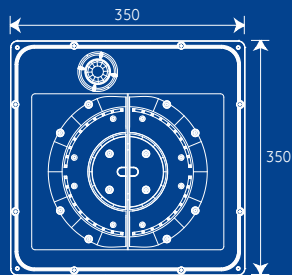


ROADS AND OTHER
OUTSIDE AREAS

AMix



Dimensions



Optics

Asymmetric – narrow



Driver feature

- Electronic, dimmable driver
- 100W&150W with 0-10V or DALI control.

Structures and materials

- Housing material: die-cast and sheet metal aluminium body, stainless steel screws and brackets
- Surface finish: polyester powder coat
- Colour: RAL9003
- Optical cover: tempered low-iron glass
- All materials used in this product are WEEE and ROHS compatible.

Performance*

- Rated luminous flux range: 4 670 to 18 830 lm
- Rated luminaire efficacy: Up to 134lm/W
- Rated median useful life and the associated rated LM factor L80B50: > 189.000 hours
- Rated abrupt failure value: 12.8 %**
- Photometric code: 740/559, 750/559
- Lumen maintenance code: 9
- Rated ambient temperature (tq) related to performance for a luminaire: 25°C

* Definitions and tolerances according to IEC 62722-2-1.

** Rated abrupt failure value depends on the configuration type.



ROADS AND OTHER
OUTSIDE AREAS

Floodlight

LED Floodlight is a universal, compact range of floodlights with six lumen output levels from 2.000 to 20.000lm and up to 130 LPW efficiency. The range is suitable for various applications wall mounted around building facades, ideal for the classic floodlighting of buildings as well as lighting gardens, paths near to buildings, garages, entrance ways and drives. Compared to traditional floodlights Tungsram LED Floodlight supplies immediate light without start-up or cooling down times. Thanks to a robust aluminium housing with safety glass cover, the floodlights are ideal for outdoor use.



[LINK TO DATASHEET](#)



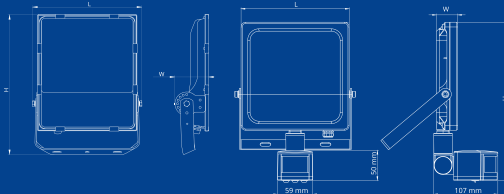


ROADS AND OTHER
OUTSIDE AREAS

Floodlight



Dimensions



Standard version

Motions sensor version

Standard version	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BN	163±1	35	163±1
LED Flood G1 TU S 30W...BN	203±1	35	202±1
LED Flood G1 TU S 50W...BN	223±1	35	216±1
LED Flood G1 TU S 75W...BN	286±1	91	368±1
LED Flood G1 TU S 115W...BN	337±1	91	419±1
LED Flood G1 TU S 150W...BN	373±1	91	450±1

Motions sensor version	L (mm)	W (mm)	H (mm)
LED Flood G1 TU S 20W...BM	224±1	35	163±1
LED Flood G1 TU S 30W...BM	264±1	35	202±1
LED Flood G1 TU S 50W...BM	284±1	35	216±1

Benefits

- Replacement for floodlight luminaires with halogen lamps (up to 1500W)
- Energy savings up to 90% (compared to luminaires that use halogen)
- Homogenous light
- High resistance against ambient air with humidity and high particle loads

Features

- High performance with outstanding efficiency with 6 lumen packages – up to 130 lm/W
- Lifespan 30000hrs (up to 50W) and 50000hrs (75-150W) L70B50 at 25°C
- 2 colour temperatures: 4000 and 6500K with SDCM≤6
- Wide beam angle: 100° (20-50W) or 120° (75-150W)
- Robust aluminium die-cast luminaire with high protection rating IP65 (20-50W) or IP66 (75-150W) and high impact resistance of IK07 (20-50W) or IK08 (75-150W)
- Suitable for operation in ambient temperature of -20°C to +40°C (20-50W) or -30°C to +50°C (75-150W)
- Static built-in driver
- PF >0,9
- THD < 20%
- Nominal Voltage: 220-240V
- Operating frequency: 50-60Hz
- Insulation Class I
- Breather valve to maintain good ingress protection in case of over pressurization for 75-150W products
- IP65 infrared motion & daylight sensor optional for up to 50W products. Detection range of motion sensor (3M/180° or 12M/110°), detection range of daylight sensor (0-1000lux) and switching time can be modified.

TUNGSRAM™