



Acrostar™

The structure of Acrostar

Highly-functional and easy installation

- Easy installation, maintenance and adjustment.
- Characteristic appearance with grey metallic colour.

Internal louvre



Built-in louvre type for limiting upward luminous flux is available in the standard range.



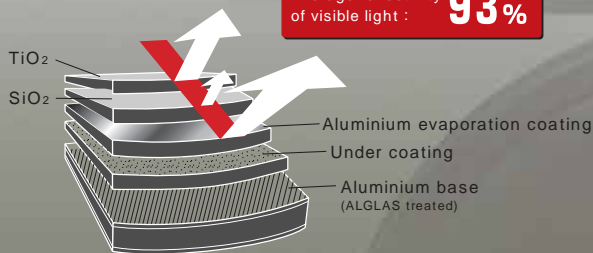
Lamp support

Inner surface of reflector

Stain-resistant ALGLAS treatment and high-reflective ALBRIAN coated types are available in the standard range.

Cross section structure of ALBRIAN™ coating

Inner surface



Average reflectivity of visible light : **93%**

Tempered clear glass

4 mm tempered glass.

FRONT

1 Lamp support (patent pending)



Maintains the best light distribution by securing accurate lamp position and improved anti-vibration characteristic*.

*Vibration level is for normal use only. It's not suitable for use on cranes etc.

2 Latch and guide for replacing lamp

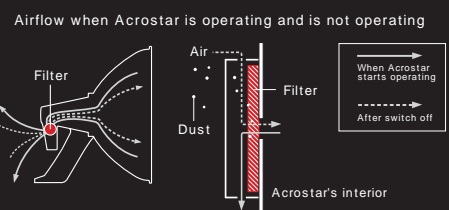


Latch (stainless steel)
Easy tool-free lamp installation and replacement.

Guide
Guide to fit reflector with fixture body, assuring water-resistance.

3 Filter

Fluorine film filter protects inside of the fixture from dust. It reduces manual cleaning maintenance cycles (Self Clean). Fixture efficiency is maintained over the year.



Outside of reflector

Durable ALGLAS coating.

Optional optical sight can be attached.

For easy aiming.

Body (aluminium die-cast)

Weather-resistant polyester resin powder coating.

Latch (stainless steel)

Filter

Wiring box (die-cast aluminium alloy)

Ground terminal

Handle (die-cast aluminium alloy)

Thick and heavy-duty handle for installation and aiming.

Traverse angle: 180°



Angle index to set aiming direction.

Arm

Steel type and stainless steel type are available.

Aiming angle index plate

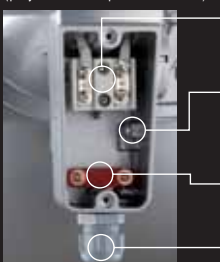
Safety wire

Prevents Acrostar body from falling off. Stainless steel.

SIDE

4 Wiring box
(polyester resin powder coated)

1.5 times larger than that of conventional EYE floodlight for easy installation and labour saving.



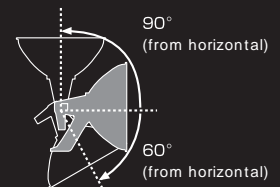
- Porcelain terminal block
Safe with high electrical isolation porcelain terminal block.
- Ground terminal
Wiring box has a ground terminal outside as well as inside in order to meet requirements in various applications.
- Cable retainer
To prevent cables from being detached.
- Water-proof cable gland

5 Aiming angle index plate

With angle memory mechanism, no aiming marking is necessary for re-aiming after lamp replacement.



- Aiming angle by 2 degrees
- Large locking screw
- Angle memory mechanism (patent pending)





Up to 50%*1 higher beam efficiency.

Because of the improved efficiency of light output, the required number of floodlights can be dramatically reduced. This not only reduces installation and energy costs, but also makes a positive contribution to the environment.

*1 ALBRIAN high reflection coating type.

High efficiency

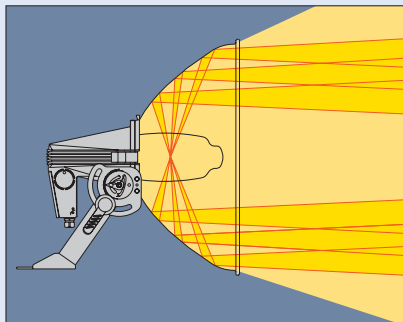
“High efficiency” floodlight means...

Light produced from the lamp is so controlled that the whole floodlight illuminates the chosen area with optimum efficiency.

Acrostar floodlight – pursuit of “high efficiency”

“What is the most efficient way for a floodlight to control light?”

To answer this question we developed “Acrostar”. We understand that a floodlight’s performance is dependent on the synergy between the control of the beam angle and the beam efficiency. With the significantly improved efficiency of these two vital elements, Acrostar delivers the lamps output more effectively than ever, with greater control of beam angle and optimisation of fittings efficiency.

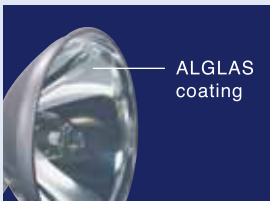


Teamwork – lamp and reflector

The Acrostar’s reflector was developed in parallel with a new lamp range in order to maximise performance of the floodlight. By ensuring a perfect combination of reflector and lamp, we have created an ultimate high efficiency floodlight.

“ALGLAS™*2 coating” – the coating that maintains reflector performance longer

ALGLAS coating – high corrosion resistance coating prevents aluminium corrosion on both sides of the reflector. Furthermore, a “self cleaning” fluorine film filter prevents dust ingress, a major cause of high maintenance, and ensures a high reflectance value for an extended period.



*2 ALGLAS™ is a trademark or registered trademark of General Electric Company, USA in the United States and other countries.



Outstanding weathering performance and stay-clean coating.

“ALGLAS” coated reflector provides an outstanding weathering performance. Aluminium die-cast housing with a high durability, environmentally-friendly powder coating.

ALGLAS™*2 treatment

Acrostar’s reflector is ALGLAS treated aluminium.

ALGLAS coating – a coating of high-purity (99.5%) glass – is an ideal treatment for outdoor lighting applications with high heat resistance and low thermal expansion rate characteristics.

ALGLAS coating extends fixture life and assures extended life for the lighting applications specifications.

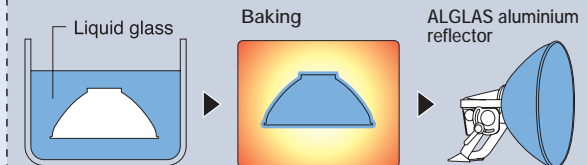
Advantages of ALGLAS coating

Glass = harmless substance

High stability

- No environmental contamination
- High resistance to salt corrosion
- High acid and alkaline resistance
- High UV resistance
- High heat resistance

ALGLAS treatment process



Light control

Dramatic reduction of "Light Spill"

Acrostar with internal louvre option almost eliminates upward "light spill" promoting a "Dark Sky" environment. External louvre option also available for additional light control to minimise light pollution.

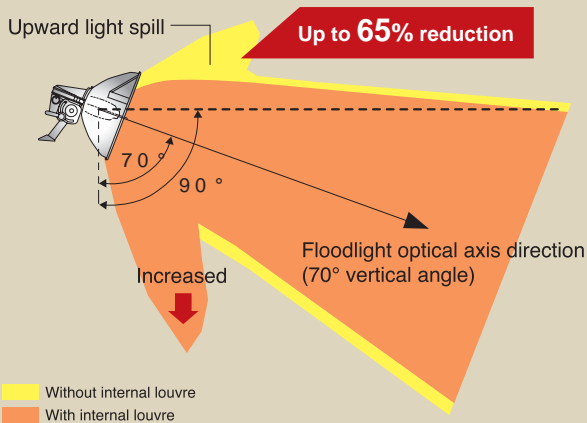
Internal louvre

One of the most important elements in floodlighting applications for sports facilities is avoiding the annoying and obtrusive "light spill" that these installations can cause. Acrostar has internal louvre variants in its standard range. The louvre fitted inside the floodlight limits the upward spill of light by **50 – 65%**, without changing the designed number of floodlights to keep the same illuminance level on the field.



Effect of internal louvre

1. Reduces 50 – 65% of upwards-light spill.
2. Optimises beam efficiency by re-focusing light back onto the field.



The reduction rate of upward lumen ratio by internal louvre

(Lamp: MT1500B, MT1000B)

	without internal louvre		with internal louvre	
	Model number	Model number	Model number	Upward lumen ratio (vs. no internal louvre)
Medium wide beam (D) type	H5322D	H5322DL	50-58% reduction	
	H5322DZ	H5322DZL		
	H5321DZ	H5321DZL		
Narrow beam (S) type	H5322S	H5322SL	52-65% reduction	
	H5322SZ	H5322SZL		
	H5321SZ	H5321SZL		

Note:
• Calculated conditions: Floodlight is aimed at 70° from vertical.

Optional external louvre

20° cut-off louvre

SR5320



30° cut-off louvre

SR5330

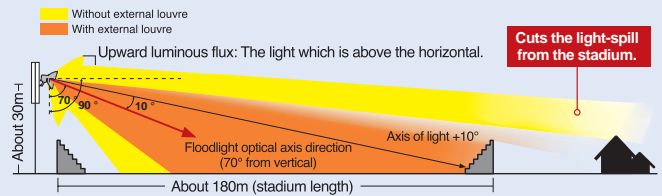


Concept

1. Effective in controlling forward and lateral light direction, while conventional louvres are not necessarily good at controlling lateral light spill.
2. If the stadium size (length) is about 180m, light at higher than +10° of the optical axis is considered as useless light which over-spills from the stadium. Therefore cut off angle for the louvre is designed at 20° or 30° more than the optical axis.

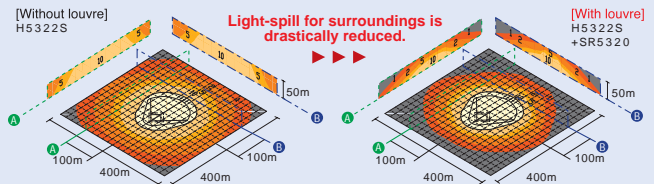
External louvres light cut-off effect

Drastically limits over-spill light and controls "light pollution" for local neighbourhood environment.



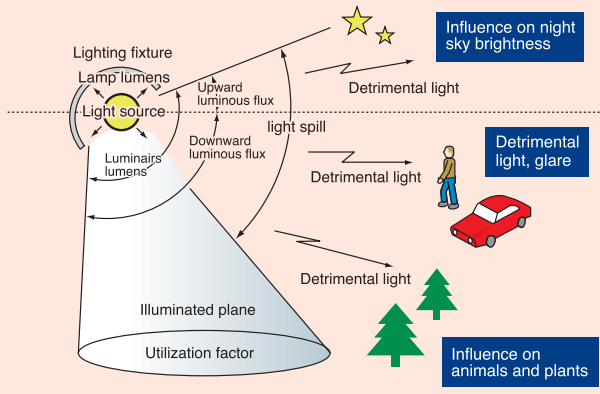
Comparison of illuminance distribution

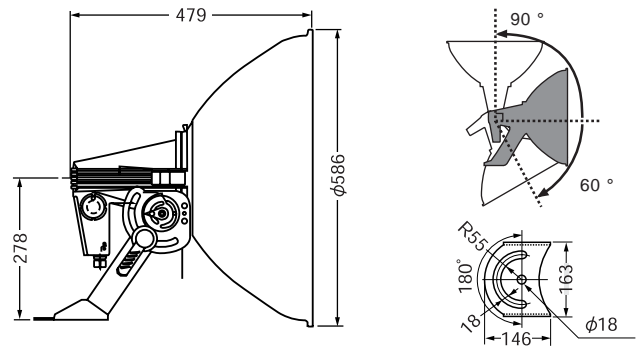
(Lamp: EYE Multi Metal lamp, MT1500B/BH-M)



Effect on the environment

Light pollution is excess or obtrusive artificial light. Among other effects, it causes adverse health effects, obscures stars to city dwellers, interferes with astronomical observatories, wastes energy and disrupts ecosystems.





Reflector: Aluminium ALGLAS finished
 Housing: Aluminium die-cast, powder coated
 Front glass: Tempered glass
 Easy lamp replacement
 Handle: Aluminium die-cast, powder coated

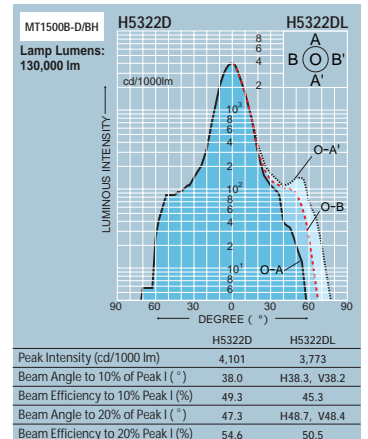
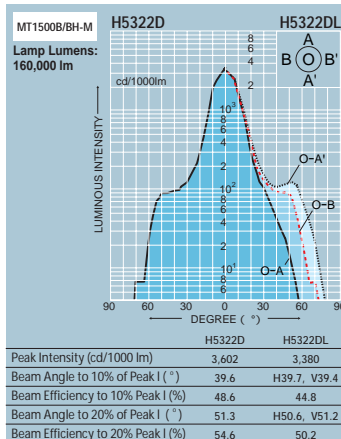
Windage: 0.27m²
 Stainless steel arm with anti-corrosion painting on outside of reflector models are available upon request.

Medium Wide & Medium Beam



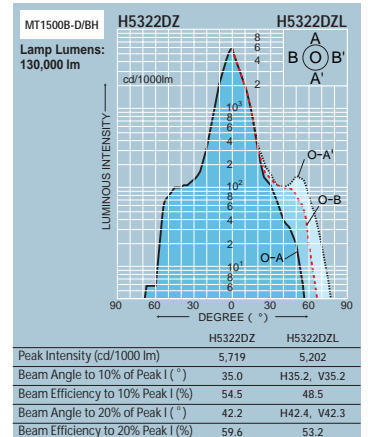
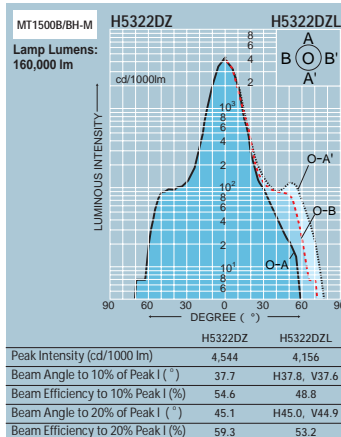
ALGLAS coated medium wide beam

Model	Type	Weight (kg)	Lamp
H5322D	Standard	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5322DL	Standard, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH



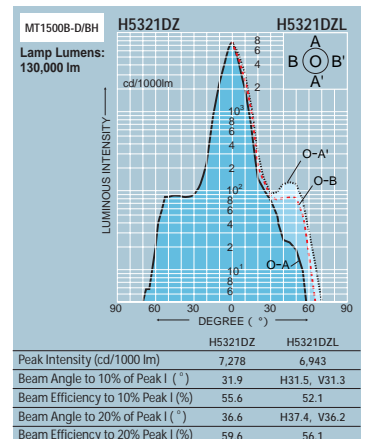
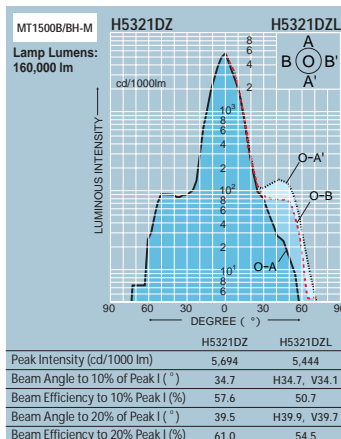
ALGLAS and ALBRIAN coated medium wide beam

Model	Type	Weight (kg)	Lamp
H5322DZ	ALBRIAN	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5322DZL	ALBRIAN, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH



ALGLAS and ALBRIAN coated medium beam

Model	Type	Weight (kg)	Lamp
H5321DZ	ALBRIAN	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5321DZL	ALBRIAN, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH



Accessories



SR5320



SR5330



GH6002

Accessories for Acrostar

Model	Colour	Description
SR5320	Black	20° cut-off louvre : stainless steel, supplied with safety wire Weight:4.2kg
SR5330	Black	30° cut-off louvre : stainless steel, supplied with safety wire Weight:2.7kg
GH6002	White	Protection grill : stainless steel Weight:1.7kg



Narrow & Super Narrow Beam



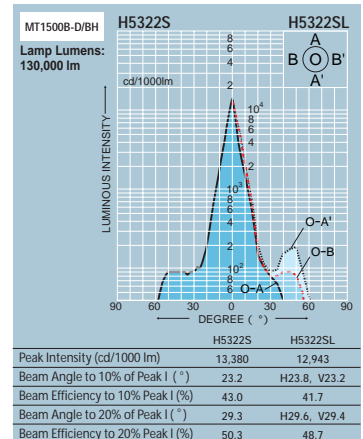
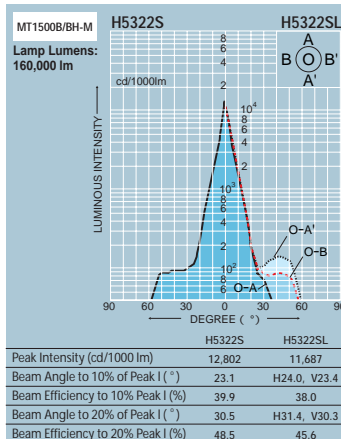
H5322S



H5322SL

ALGLAS coated narrow beam

Model	Type	Weight (kg)	Lamp
H5322S	Standard	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5322SL	Standard, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH



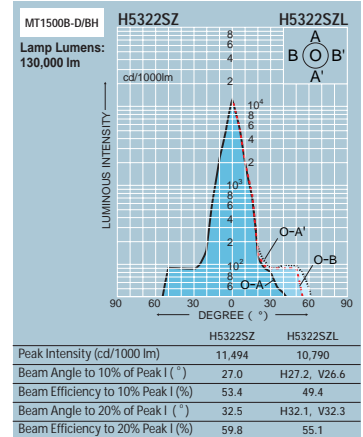
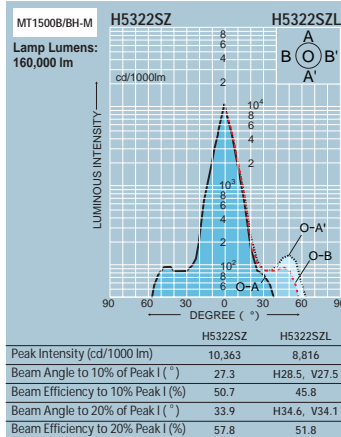
H5322SZ



H5322SZL

ALGLAS and ALBRIAN coated narrow beam

Model	Type	Weight (kg)	Lamp
H5322SZ	ALBRIAN	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5322SZL	ALBRIAN, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH



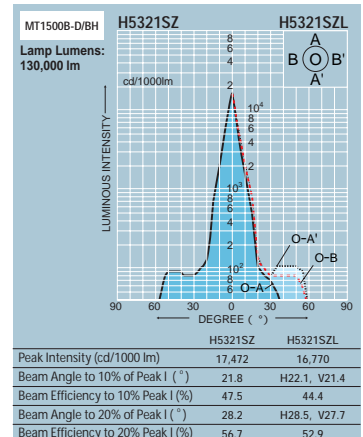
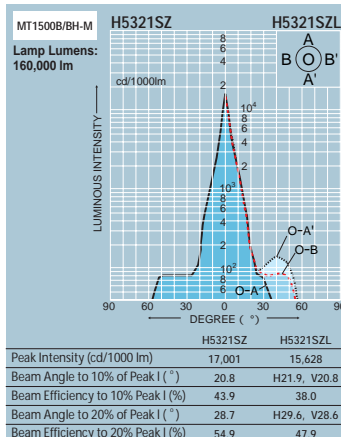
H5321SZ



H5321SZL

ALGLAS and ALBRIAN coated super narrow beam

Model	Type	Weight (kg)	Lamp
H5321SZ	ALBRIAN	8.8	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH
H5321SZL	ALBRIAN, internal louvre	9.0	MT1500B/BH-M MT1500B-D/BH, MT1000B-D/BH





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