

8 Inches Halogen In-pavement Taxiway Lighting Fixtures (Type I)

Taxiway Centerline Light, In-pavement Stop Bar, Intermediate Holding Position Light and In-pavement Runway Guard Light TCLM-08, SBLM-0, TPLM-08 and IRGM-08

Operation Manual



Please read this manual carefully before construction, installation and operation of the product. Please keep this manual properly for further reference.

This manual is subject to change without prior notice.

Airsafe Airport Equipment Co., Ltd.



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1.0 Foreword

ICAO *Airport Service Manual* Part 9 "Airport Maintenance Practices" and FAA AC150/5345-26 *Maintenance of Airport Visual Aid Facilities* are the highest criterions for site installation and maintenance of such lighting fixtures. This manual was compiled with considerable reference to these two criterions.

The content stated in this manual is absolutely important, so construction personnel must read it carefully before construction. After properly understanding the entire content of this manual, construction personnel should carry out the construction in strict accordance with the methods specified herein, to ensure that the product is safely and properly installed in place.

Routine airport maintenance personnel should carry out the routine maintenance in strict accordance with the methods specified by relevant provisions, to ensure that the lighting fixtures are in the best operation condition.

Related personnel must strictly follow safety criterion. Any personnel without specialized training is strictly forbidden to touch the lighting fixtures and devices. Live line work should be avoided under any circumstances. Construction or maintenance personnel should get acquainted with first-aid knowledge, in case of any unexpected events.



1.1 Illustrations and Meanings

- Following illustrations will appear in this manual where necessary to remind or warn construction or maintenance personnel.
- Please continue reading the subsequent content of this manual after properly understanding the meanings of these illustrations.



To remind that the behavior may cause serious injury or death.
 ※ Detailed description will be given in the box.



To remind that the behavior may cause injury to people or damage to product.
 ※ Detailed description will be given in the box.



- To notify that the behavior is prohibited.
- * Detailed description will be given in the box.



1.2 Safety Rules and Notices

Using the light fixtures outside of airport is strictly prohibited. * Inadequate maintenance or casual touch will cause light faults. Using power supply other than CCR is strictly prohibited. ※ It may damage the lighting fixtures and even cause fault of the power supply. Making sure that CCR is on power-off state before the installation or maintenance of the lighting fixtures. Current surge produced during the installation of the lighting fixtures may cause damage to light source. Non-professional electricians are strictly forbidden to maintain any electrical fault of the lighting fixtures. It may damage any electrical component of the lighting fixtures or cause bigger fault. Live line maintenance of the lighting fixtures is strictly prohibited; in case of lightning and/or thunderstorm, maintenance of the lighting fixtures is prohibited. It may cause electric shock accident. Be careful when handling the lighting fixtures. Drop or collision may damage the parts or cause personal injury. Replace the lead immediately in case the jacket of second cable is damaged. It may cause short circuit, electric shock or other failure. Don't touch the damaged prism or other glass directly with hands. ※ Glass fragments may scratch hands. Touching the lighting fixtures with wet hand is strictly prohibited. ※ It may cause electric shock or other accident.



1.3 Quality Assurance and Responsibility

Any defect in design, material or workmanship, which may occur during proper and normal use over a period of one year from date of installation but less than 15 months from date of shipment, or within the warranty period of the tender, will be repaired or preplaced by manufacturer free of charge. The warranty doesn't cover the failures resulting from lamp burnt out, improper maintenance, installation or operation, or damages due to snow ploughs. Manufacturer shall not be liable to any further claims or particularly claims for damages not affecting the goods themselves.

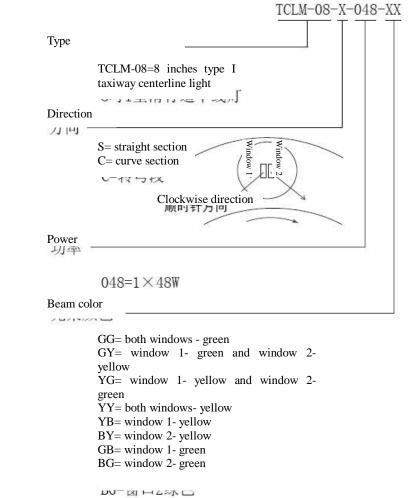


2.0 Introduction

This manual involves the following series lighting fixtures:

TCLM-08	Taxiway Centerline Light
SBLM-08	In-pavement Stop Bar
TPLM-08	Intermediate Holding Position Light
IRGM-08	In-pavement Runway Guard Light

Type of Taxiway Centerline Light





Type of In-pavement Stop Bar (SBLM-08):

1 (,	SBLM-08-X-048-R
Туре	
SBLM-08=8 inches type I in-pavement stop bar	
Beam direction	
S= straight emission \Box	
Power	
048=1×48W	
Beam color	

R= one single window- red

Type of Intermediate Holding Position Light (TPLM-08):

Туре	20 NRDMUNUM	
	TPLM08=8 inches intermediate holding position light	
Beam	direction	
	S= straight line	
Power		3
	048=1×48W	
Beam	color	

Y= one single windowvellow



Type of In-pavement Runway Guard Light (IRGM):

	<u>IRGM-08-048-1</u>
Lighting fixture type	
IRGM-08=8 inches in-pavement runway guard light	
Power	
048=1×48W	
Beam color	;

Y= Yellow



2.1 Technical Specifications

This product conforms to the provisions of the following standards or technical specifications. For dated standards or technical specifications, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- International Electrotechnical Commission (IEC) TS 61827;
- Convention on International Civil Aviation Annex 14- Aerodromes Volume 1;
- International Civil Aviation Organization (ICAO)- Aerodrome Design Manual- Part 4: Visual Aids;
- Federal Aviation Administration (FAA) AC150/5345-46;
- GB/T 7256 General Requirements of Lighting Fixtures for Civil Airport;
- Department of Airport of Civil Aviation Administration of China: Advisory Circular, *Technical Requirements for Runway and Taxiway Aid Lighting Fixtures* (AC-137-CA-2015-03)

2.2 Application Environment

- Altitude: below 4,000m;
- Outdoor: $-55^{\circ}C \sim +55^{\circ}C$;
- Relative air humidity: not more than 95%;
- In rain, snow, ice and water;
- Expose to corrosive salt atmosphere
- Basic earthquake intensity VII.



2.3 Application Scope

Taxiway centerline light, in-pavement stop bar, intermediate holding position light and in-pavement runway guard light for Category I, II and III airports.



Using the lighting fixtures beyond the specified scope is strictly prohibited.
 ※ Application beyond the specified scope will cause damage or risk to any component.

2.4 Technical Parameters

Description	Туре	Rated Power	Power Factor
Taviway Contarline Light	TCLM-08-S-048-XX	48W	≥1,500h
Taxiway Centerline Light	TCLM-08-C-048-XX	48W	≥1,500h
In-pavement Stop Bar	SBLM-08-048-R	48W	≥1,500h
Intermediate Holding Position Light	TPLM-08-048-Y	48W	≥1,500h
In-pavement Runway Guard Light	IRGM-08-048-Y	48W	≥1,500h

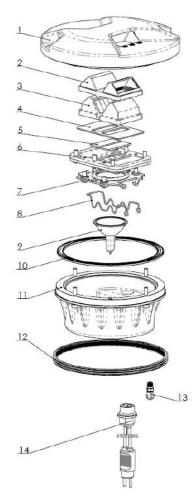


2.5 Technical Features

- Proprietary prism structure and manufacturing process, making the optical efficiency excellent;
- Optical parts have self-positioning design and recalibration is unnecessary for replacing the optical components and lamp;
- The filter employs advanced coating technology, with high light transmittance, firm coating and good thermostability;
- The luminous surface of the upper cover of the lighting fixture is flat, and thus it is difficult for ponding and the luminous efficiency is high;
- The upper cover of the lighting fixture employs the constant strength design and forging process, with good mechanical property and high bearing capacity and shock resistance capacity;
- The upper cover of the lighting fixture is smooth, without sharp corner angle to ensure that the aero tyre is not damaged;
- Main body of the lighting fixtures is made of the special high conduction aluminum alloy material and thus the lighting fixtures have good heat dissipation;
- The lamp holder has the suspension design, effectively extend the service life of the lamp;
- Main body of the lighting fixtures is made of aluminum alloy material with special anodizing surface treatment, and all fasteners are made of stainless steel, thus being applicable to all kinds of harsh environment;
- High precision components machining ensures dimensional quality and precision of the lighting fixtures.
- The overall IP rating of the lighting fixtures reaches IP68, which may bear 138KPa internal pressure or water pressure formed by impact of the aircraft on the window;
- The components are of modularized design for common use, which are applicable to various 8 inches LED in-pavement runway lights (6mm), effectively reducing the spare parts inventory.



2.6 Structure



- 1. Upper cover
- 2.Prism gasket sleeve
- 3. Prism
- 4. Prism gasket
- 5. Filter
- 6. Prism pressing bracket
- 7. Dead plate of lamp (assy)
- 8. Lamp jump spring
- 9. Lamp
- 10. Light body gasket
- 11. Inner cover
- 12. Lighting fixture gasket
- 13. Valve
- 14. A6 plug (including receptacle)

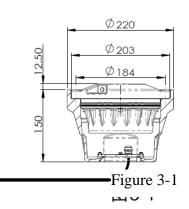


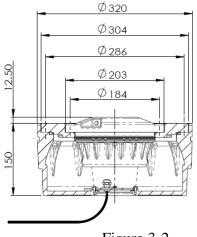
3.0 Installation

Requirements for installation should be learned thoroughly before installation including installation tools and site requirement, etc., to avoid malfunction of the light due to incorrect installation.

3.1 Installation Methods

- Directly mounted on the 8 inches shallow base (Figure 3-1).
- Mounted on the 12 inches shallow base with the 12/8 inches adapter ring (Figure 3-2).
- Mounted on the 12 inches deep base with the 12/8 inches adapter ring (Figure 3-3) and the deep base depth may be adjusted according to the customer's requirements.





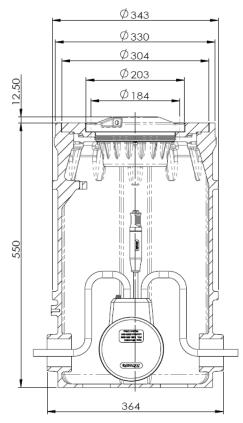


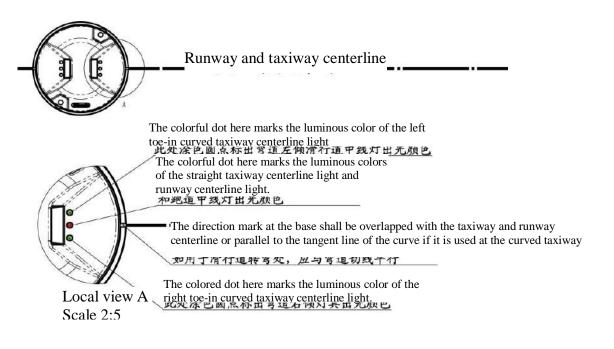
Figure 3-3

Figure 3-2



3.2 Identification of Different Types of Lighting Fixtures

- The model of each lighting fixture is attached to its bottom.
- The colorful dot identification mark is attached to the light outlet of each lighting fixture, respectively meaning the luminous color and direction of the window where the colorful dot is located.
- According to the specific provisions of FAA, ICAO and CAAC, correctly select the lighting fixtures and ensure their window directions.





Confirm window color and lighting direction before installation.
 X To avoid rework or any other problem.



3.3 Installation Tools

Choosing right tools not only can ensure the correct and reliable installation of the lighting fixtures, but also can reduce unnecessary safety accidents. *Special Tools* listed in the table may be purchased from the manufacturer or any distributor. Universal tools are available on local hardware market. Please pay attention to measurement range during procurement.





- Special tool: 8 inches lighting fixture handle: be used to dismount the lighting fixtures, which has the patented design of the manufacturer and please directly order it from the manufacturer or agent.
- Universal tool: Torque wrench: be used to tighten the screw, which may be used with various sleeve wrenches and directly purchased from various hardware stores, manufacturer or agent. Recommended range is 10-40N·m.
- Universal tool- Torque screwdriver: be used to dismount screw, equipped with PH2 cross screwdriver, and sellable in various hardware stores.

Recommended range is 1-6N.m



3.4 Screw and Torsion

The torque listed in this section is only for reference by maintenance personnel. Correct fastening force of screw can ensure normal operation of the lighting fixtures. If screw is too tight, it will easily damage the lighting fixtures; on the contrary, if screw is easy to fly out, it may cause an accident.

Serial No.	Screw Type	Tool	Torque
1	M10	Torque wrench with 17# sleeve	25 N·m
2	M5	Force measuring screwdriver with cross screwdriver (PH2) 3mm internal hexagonal wrench	3 N∙m
3	M4	Force measuring screwdriver with cross screwdriver (PH2)	1.5 N·m
4	M3	Force measuring screwdriver with cross screwdriver (PH1)	0.63N·m

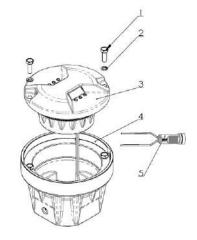


Please use torque wench or other special tool for installation.

% Informal tools may cause damage to fasteners or personal injury.

3.5 Relevant Configuration of Lighting Fixtures

- 1. M10 \times 30 screw
- 2、 Ø10 spring washer
- 3、 Lighting fixture
- 4、 Base (8 inches)
- 5、 A7 twin-core receptacle (base assy)



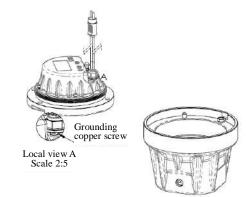


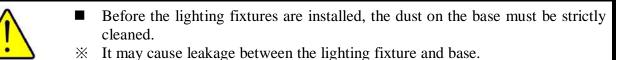
3.6 Installation

The installation process of lighting fixtures includes settings of the pavement mounting hole, wiring, base pre-burial and installation of lighting fixtures. The installation of lighting fixtures will greatly impact their use and service life. The manufacturer recommends that all installers should receive the professional training.

If ground connection is required, the ground lead shall be connected with the grounding screw on the lighting fixtures during its installation (as shown in right Figures).

In case of installation with adapter ring or deep base, assemble the adapter ring to the base first and then perform the construction according to the above-mentioned method.







The ground lead must be connected in strict accordance with the provisions.
 Muring daily maintenance, the electric shock accident may be caused.

During installation, a little of water shall be used to wet the gasket of the lighting fixtures or base seal for lubrication. Then, plug the secondary plugs to ensure good contact. It is lubricated here. It is lubricated here.

Lighting fixture

The method is the same for installation with the adapter ring or deep base.



During installation, the oily lubricating agent shall not be used to lubricate the sealing components.

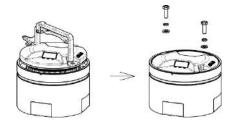
※ The oily lubricant may cause aging or fault of the sealing components.





- The weight of the isolation transformer shall not be directly applied to the lead.
 It means each la break a best size in the initial state function.
- X It may cause cable break, short circuit, drop, injury or other faults.

Clamp the lighting fixtures with the lighting fixture handle, reasonably put the secondary plug into the base to prevent the cable from squeezing during the installation, align the mounting holes of t lighting fixtures and base, vertically apply force to press the lighting fixtures into the base and tighten the screw.



The method is the same for installation with the adapter ring or deep base.



During installation, the lead shall not be damaged by the lighting fixtures.
 X It may cause electric leakage or short circuit of the lighting fixtures.



- During installation, the lighting fixture shall be pressed into the base, and not warped.
- X It may cause leakage between the lighting fixture and the base or other lighting fixture faults.



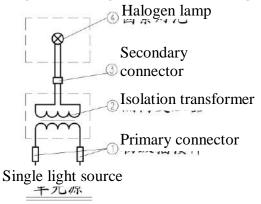
Directly pulling the lead is prohibited when the lighting fixtures are handled.
 ※ It may cause line break, short circuit, drop, injury or other faults.



4.0 Operation and Control

The lighting fixtures are applicable to CCR power supply 6.6A circuit special for airports, which forms a secondary circuit with the lighting fixtures through secondary lead of isolation transformer connected on primary circuit. Due to the use of isolation transformer, the damage of lamp of single lighting fixture will not affect whole series circuit.

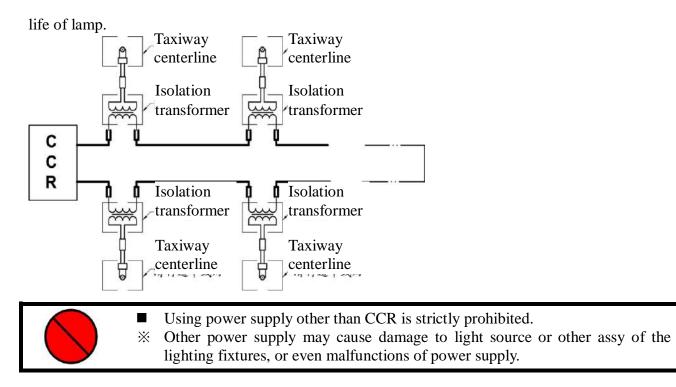
4.1 Light Wiring Schematic Diagram



4.2 Light Intensity Adjustment and Control

In actual use, according to weather visibility, light intensity of the lighting fixtures may be adjusted through different current output by CCR, and varies significantly.

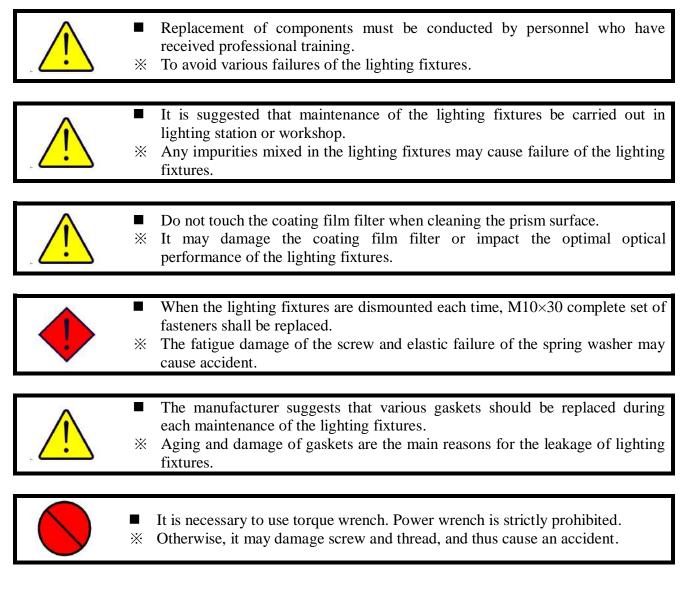
If it is used on occasion of lower than rated current (6.6A), it may greatly improve the service





5.0 Replacement of Components of Lighting Fixtures

When any damage or failure occurs to any consumable or other component of the lighting fixtures, it is required to timely dismantle the lighting fixtures for replacement of the component. Replacement of components needs to dismount the lighting fixtures, so any minor error will cause adverse consequences. The manufacturer requires users to attach importance to the following warnings. It is required to be careful during disassembly, to conduct comprehensive inspection of lighting fixtures, to replace some vulnerable parts as required, and to ensure the performance of the lighting fixtures after disassembly.





5.1 How to Dismount the Lighting Fixtures from Base

- Dismount M10 \times 30 screws, washer and spring washer (see Figure 5-1)
- Pry up the lighting fixture with the pinch bar (shown in Figure 5-2) of the 8 inches lighting fixture handle.
- After the lighting fixture and base are loosened, vertically lift the lighting fixture with the lighting fixture handle and dismount the ground lead with the cross screwdriver (see Figure



Use the special handle supplied by the manufacturer when the lighting fixture is dismounted.
 ※ Drop of lighting fixtures may cause personal injury.

5.2 How to Open Light Body

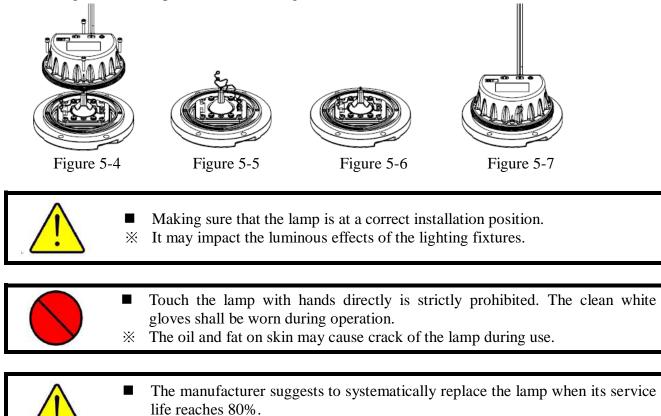
- Place the top of the lighting fixtures downwards and dismount 4 M5×25 hexagon socket cap screws and spring washer (Figure 5-4).
- Pull out the lamp plug and separate the upper cover and inner over of the lighting fixtures (Figure 5-5).



5.3 How to Replace Lamp

≫

- Loosen the lamp foot jump spring from the hook (see Figure 5-5).
- Replace the new lamp and fasten the lamp jump spring again (see Figure 5-6).
- Insert the lamp foot into A6 insertion piece and close the inner cover of the upper cover after it is aligned with the pin direction (see Figure 5-7).

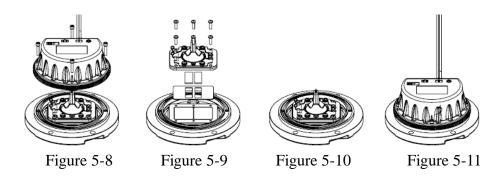


To ensure the consistency of light intensity of whole circuit.



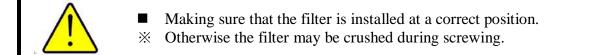
5.4 How to Replace Filter

- Place the top of the lighting fixtures downwards and unscrew the screws with 4mm socket head wrench to separate the upper cover and inner cover of the lighting fixtures (see Figure 5-8).
- Dismount the M5×16 screws on the upper cover, prism pressing bracket and dead plate of the lamp (see Figure 5-9).
- Take out the filter from the prism washer and place the new filter to the working position.
- Install the prism pressing bracket and screw the screws (see Figure 5-10).
- Close the inner cover and screw the screws (see Figure 5-11).





Making sure that the filter coating film is backed to the lamp.% It may extend the service life of the filter.



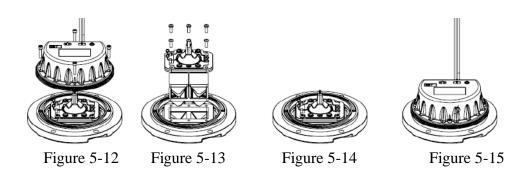


- Touching the filter with hands directly is strictly prohibited. During operation, the gloves must be worn.
- % The oil and fat on skin may cause crack of the lamp during use.

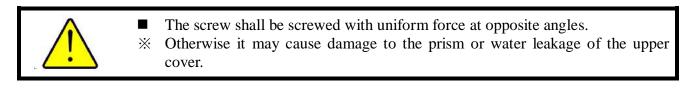


5.5 How to Replace Prism and its Gasket Sleeve

- Place the top of the lighting fixtures downwards and unscrew the screws with 4mm socket head wrench to separate the upper cover and inner cover of the lighting fixtures (see Figure 5-12).
- Dismount the M5×16 screws on the upper cover and remove the dead plate of the lamp, lamp,
 filter and prism washer fixed with the prism pressing bracket (see Figure 5-13).
- Take out the prism and its gasket sleeve from the upper cover and load the new prism gasket sleeve and prism into the upper cover in succession (see Figures 5-14)
- Install the prism pressing bracket and screw it with the M5 \times 16 screws (see Figure 5-14).
- Install the inner cover to a correct position on the upper cover and screw the screws (see Figure 5-15).



The old rubber gasket sleeve shall not be used repeatedly.
 ※ Aging and damage of the rubber gasket sleeve may cause water seepage and leakage of the lighting fixtures.





- After the internal fittings of the lighting fixture are replaced each time, check the airtightness of the lighting fixtures.
- * Poor assembly may cause leakage of the lighting fixtures.

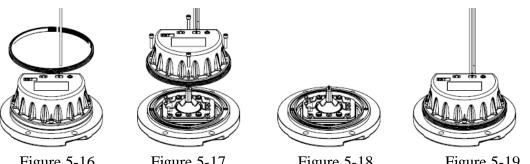


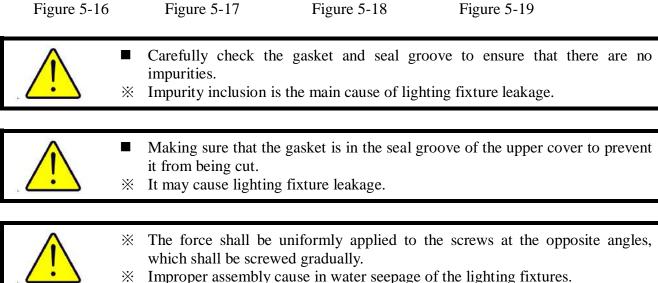
5.6 How to Replace Gasket

- Replace the lighting fixture gasket outside the inner cover: Take down the lighting fixture gasket outside the inner cover and carefully clean the seal groove. Load the new gasket to the correct working position on the inner cover. Please note that the gasket shall not be bent (Figure 5-16).
- Replace the body gasket: Separate the inner cover and upper cover (Figure 5-17) and carefully clean the seal groove. Place the new gasket into the seal groove of the upper cover (pin positioning) in place (Figure 5-18).
- Align the pin hole of the inner cover with the pin of the upper cover and connect it with M5×25 hexagon socket cap screws (Figures 5-22 and 5-19).



Sealing gaskets should not be taken out from bag before assembly.
 ※ If sealing gaskets is stained with any impurities, it may cause water gaskets of the lighting fixtures.







5.7 Airtight Test of Lighting Fixtures

- Unscrew the valve cap at the lighting fixture bottom (see Figure 5-20). 0
- Prepare 138Kpa air source (the air pressure shall not be greater than 150Kpa) and applicable air 0 gun (air tube), inflate the air by aiming at the valve until the air pressure in the lighting fixture meets the requirements (Figure 5-21). Put this lighting fixture into the water with the depth of 76mm for at least 1min and check whether there are bubbles under the state of static water surface. If not, it means that the sealing property of the lighting fixture is good, otherwise it shall be deemed that the lighting fixture has leakage.
- After detection, release the air pressure in the lighting fixture with the air valve of the valve 0 core, re-screw the valve cap and put it into use (Figure 5-22). In case of leakage, check the causes according to the previous prompts and repeat the whole lighting fixture disassembly and assembly process or return it to the factory for maintenance.

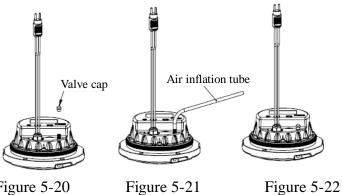


Figure 5-20



- After installation, the leakage test must be performed according to the requirements.
- Improper assembly may cause leakage of the lighting fixtures. ※



Unscrewing the valve is prohibited, when the valve cap is unscrewed. ※ Otherwise it may cause leakage of the lighting fixtures.



6.0 Maintenance of Lighting Fixtures

Suggestions for daily maintenance provided in this section are only for reference. Airports may formulate their own daily maintenance guidelines with reference to other provisions or maintenance experience of airport staff; the manufacturer does not provide any hard-and-fast rules. Maintenance of the lighting fixtures for airports shall be conducted by professionals as stated in 1.0 Foreword.

Interval	Check	Activity
	No light output or flashing	Replace the lamp
		1. Clean the prism surface if it is dirty.
Every day	Light output is lower	2. Check deviation or moisture of the lighting
	Light output is lower	fixtures.
		3. Check aging or displacement of LED.
Every week	Obstacles to light output channel	Clean the path and prism surface.
Every month	Existence of moisture and water (Visual check of internal surface of prism)	 Open the body. Clean, dry and check. Replace the gasket of the light body and other parts damaged.
		Check whether screw for tightening light body is
Every two	Tighten the screws	locked.
months		Use the tools such as wrench and sealant by
		referring to the Table in Section 3.4.
Every half a year	Water in the base	 Pump out the water in the base. Move and dismantle it and observe the damage to the lighting fixtures by water. Dispose of the water inlet.
After snow	Demons to l'altéra Contanta	1 Deplete environmente de manered lie hé
removal	Damage to lighting fixtures	1. Replace seriously damaged light.
		1. Sweep the snow on the window with a
		powerful sweeper.
After snow	Light output is lower	2. Clean the prism surface if it is dirty.
removal	Light output is lower	3. Check deviation or moisture of the lighting
		fixtures.
		4. Check the lamp aging or displacement.

6.1 Daily Maintenance



Serial No.	Failure Phenomenon	Possible Reasons	Countermeasures
1	No light output	The lamp is damaged.	Replace the lamp.
2	The lighting fixtures is darker	The prism surface is dirty.	Clean the prism surface.
3	Existence of moisture and water	Damage to the prism or gasket	Replace the prism or gasket.

6.2 Regular Spot Check and Troubleshooting



- The manufacturer suggests that times of daily maintenance should be increased in rainy season.
- % To ensure normal operation of lighting fixtures.



It is necessary to use torque wrench. Power wrench is strictly prohibited.
 ※ Otherwise, it may damage screw and thread, and thus cause an accident.



7.0 List of Components and Ordering of Spare Parts and Accessories

The list of parts of this product and relevant ordering information of the spare parts and accessories are shown in the Table of this Chapter. The manufacturer accepts to order in a manner of component or separate ordering of the parts. When ordering, please contact the manufacturer or deal according to the ordering No. listed in the Table. The manufacturer recommends purchasing some key parts from the original manufacturer to ensure all indexes of the lighting fixtures.

Structure No.	Component Name	Order No.	Description
1	Upper cover	922113/ 922123	Upper cover (ridge) A (bi-directional)/ upper cover (ridge) uni-directional
2	Prism gasket sleeve	43109/ 43106	Ridge prism gasket sleeve B (uni-directional)/ ridge prism gasket sleeve B (bi-directional)
3	Prism	31135/ 31136/ 31137	Ridge prism H29 (back gear)-straight line/ ridge prism H29 (back gear left tilted)- left rotation/ ridge prism H29 (back gear right tilted)-right rotation
4	Prism gasket	43312	Prism gasket (88×56)
5	Filter	31324-Y/ 31324-G/ 31324-R	Filter (coating film) 46×17-yellow/filter (coating film) 46×17-green/ filter (coating film) 46×17- red
6	Prism pressing bracket	43215	Prism pressing bracket (LED 106×84)
7	Dead plate of lamp	942134	Dead plate assy of lamp
8	Compressed spring of lamp	44209	Lamp jump spring (37)
9	Lamp	L64337	Reflection cup lamp 48W 6.6A
10	Light body gasket	41141	Gasket 137×2
11	Inner cover	21251	Inner cover (H59-F-1P)
12	Lighting fixture gasket	41107	Sealing gasket (standard)
13	Valve	941801	Valve assy
14	Plug	70620	A6 twin-core plug cord (including wire base)

List of components and spare articles:



Serial No.	Order No.	Description
1	827131	8 inches shallow base assy (side entry)
2	827132	8 inches shallow base assy (bottom entry)
3	70703	Secondary receptacle A7
4	951101	8 inches lighting fixture handle
5	827511	12-8 adapter ring assy
6	82732X	12 inches deep base (H550) assy
7	927151	12 inches shallow base assy (bottom entry)
8	927156	12 inches shallow base assy (side entry)
9	ITF-065-066	Isolation transformer 65W

List of supporting accessories of this product is as follows (needing additional order):



When the filter cannot meet the requirements, please order it from our company.

* The filter of other brand may cause light color deviation of the lighting fixtures.



When the prism cannot work properly, please order it from our company.
 % The prism of other brands may impact the luminous angle and light intensity of the lighting fixtures.



• If secondary plug is damaged, please order it from our company.

% $\,$ Other brand plug may cause light leakage and other failures.



8.0 Packaging, Transportation and Storage

8.1 Packaging and Weight

Packaging: 2 pc / box

Gross weight: 2.97 KG / box

Volume: 220*220*230

Packaging: 1 pc / box (including 8 inches shallow base)

Gross weight: 5.32 KG / box

Volume: 250*250*185

8.2 Transportation Mode

Well packed products may be transported in three modes- railway, highway and air according to factors such as transportation distance, quantity of lights and delivery cycle.

8.3 Storage

This product shall be stored in a place which is dry, well ventilated and far away from heat source and has no caustic gas. Custody should be checked on a regular basis.



The final right to interpret this manual is reserved by Airsafe Airport Equipment Co., Ltd.

Thanks for your purchasing and using AIRSAFE product!

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