

Airfield Lighting

Product Description

12" Bidirectional High-Intensity Inset Light
(IDM 5672)

- Bidirectional Taxiway Centre Line



Note: *This page is blank for convenient double-sided printing.*

1. INTRODUCTION

IDM 5672 is a 12" bidirectional high-intensity inset light.

Utilisation

- Bidirectional taxiway centre line inset light for straight (N) or curved (C) sections and before and after curves (W) in Cat I, II and III operations.

Compliance

- ICAO: Annex 14 Volume I 6th edition July 2013
- FAA AC 150 / 5345 - 46D
- Aerodrome Design Manual Part 4 Visual Aids, 4th edition 2004

2. MAIN ADVANTAGES

- Low protrusion construction only half of the allowed height.
- Ease of installation and maintenance brought even further with optional tools.
- Independent control of directions in 2 cord set versions.
- Also unidirectional models available.

3. TECHNICAL CHARACTERISTICS

Characteristic	Description
Light dimensions	Protrusion 6.3 mm Diameter 326 mm Depth 150 mm
Weight	6.7 kg 11.7 kg with base receptacle
Ingression Protection	IP67
Materials	Top cover, inner cover and base receptacle: aluminium alloy castings Sheet metal parts and fixing hardware: stainless steel Gaskets: heat resistant silicone rubber
Surface treatment	Anodising on aluminium alloy parts
Cables and connectors	Plugs: FAA L-823 Style 6 Receptacles: FAA L-823 Style 12 Secondary cable: FAA 150/5345-70
Light sources	2x40W or 2x48W, 6,6A, ø35 or ø50 mm reflector lamp, 130 mm wires and Ø4 mm round female connectors. Average lifetime at rated current 1500 hours.
Packing	Dimensions: 340x340x155 mm Weight: 11.7 kg
Accessories	Alignment device IDM 4306 Lifting hooks Maintenance tool set

Packing Data		
Designation	Dimensions mm	Weight kg
IDM5672	340 x 340 x 155	11.7

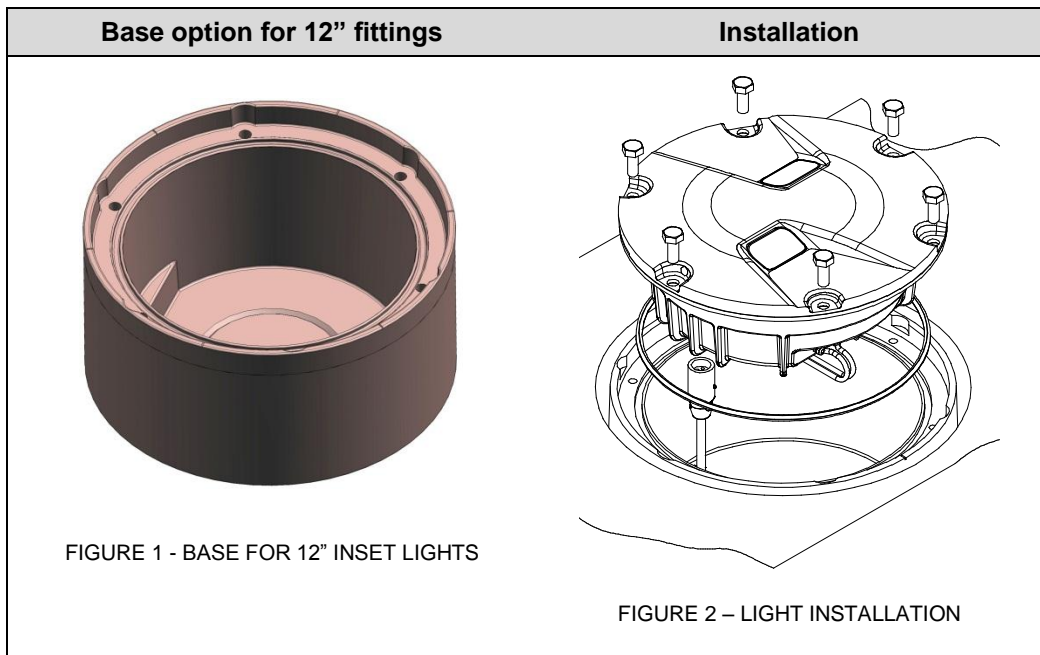
4. INSTALLATION OPTIONS

Inset lights are installed in base receptacles that are stationary installed on the field. The base dimensions are: outer diameter is 345 mm and height is 160 mm.

There are many different installation practices which can be adopted for bases and detailed instructions how to carry out the installation can be found on base manuals.

For correct light location, it is recommended to read and comply with the following:

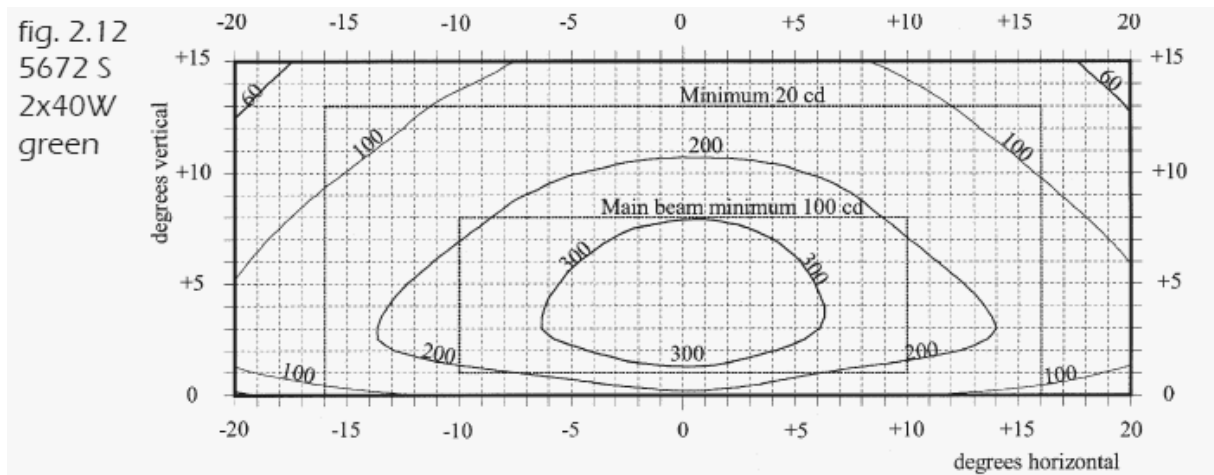
- ICAO: Annex 14 Volume I 5th edition 2009
- All drawings and design plans, for the particular project, to guarantee correct location for each fixture.



5. PHOTOMETRICS

Application	Requirements Annex 14, Appendix 2			Measured main beam intensities (kdc)			
	fig.	Imin	Iave	Iave	Imin	Imax	Uniformity ratio
Taxiway centre line 2x48W, green, before and after curves	2.12	100	200	559	310	802	1:2,6
Taxiway centre line straight sections 2x48W, green	2.13	100	200	1086	638	1454	1:2,3
Taxiway centre line 2x40W, green, before and after curves	2.12	100	200	283	167	386	1:2,3

Intensity Distribution



6.

DESIGN

Mechanical construction

- Top cover, inner cover and base receptacle special corrosion resistant anodized aluminium alloy castings.
- Prisms sealed with gasket.
- Water tightness ensured by heat resistant silicone rubber gaskets.
- Stainless steel hardware.
- Improved vibration insulation for longer lamp lifetime.
- Non-axial top cover for curved section luminaire (C).
- Inner cover equipped with rubber moulded plug KDC506 (optionally available with 2 cord sets) and seal integrity testing valve.



Optical construction

- Prisms specially heat resistant high quality borosilicate glass.
- Dichroic colour prisms, no separate filters.
- 2x40W ø 35mm or 2x48W ø 50mm 6,6 A reflector lamps.
- Average lifetime 1500 hours at rated current.

Accessories

- Alignment device IDM 4306
- Lifting hooks
- Set of maintenance tools

7.

ORDER CODES

The table below is a guide to order codes for a fitting with available component parts.

IDM	5672W/	2x48W	-G/G
5672			
N = Straight			
W = Before and after curves			
C = Curved			
40W			
48W			
G=Green			
Y=Yellow			

For more information, contact Safegate Group or see www.safegate.com.

8. SPECIFICATION

- Compliance with:
 - ICAO: Annex 14 Volume I 6th edition July 2013
 - FAA AC 150 / 5345 - 46D
 - Aerodrome Design Manual Part 4 Visual Aids, 4rd edition 2004
- High-intensity bidirectional inset light for:
 - Bidirectional taxiway centre line inset light for straight (N) or curved (C) sections and before and after curves (W) in Cat I, II and III operations.

Note: *All descriptions and photometric characteristics in this publication present only general particulars and shall not form part of any contract. The right is reserved to change them without prior notification.*

Note: *This page is blank for convenient double-sided printing.*

Check in to the future

How many aircraft can your airport handle today? Can this number be increased without adverse effects on the airport's safety level? It is a known fact that traffic volume will rise in the foreseeable future. More movements will demand monitoring of the entire airport. Requirements will be sharpened and the development of an integrated system

controlling not only ground movements but also air traffic close to the airport is of the highest interest. The International Civil Aviation Organization (ICAO) already describes A-SMGCS, Advanced Surface Movement Guidance and Control System, as the answer to the future modern airport need to control the entire airport space in one superior system.

To a larger extent than today's systems, A-SMGCS will rely on automated processes to give both pilots and traffic controllers exact information about positions and directions. Safegate Group delivers complete A-SMGCS solutions already, as well as all vital parts relating to it. Safegate Group can check your airport into the future – today!



Safegate Group HQ

Djurhagegatan 19
SE-213 76 Malmö, Sweden
Phone: +46 (0)40 699 17 00
Fax: +46 (0)40 699 17 30
E-mail: market@safegate.com

Australia

australia@safegate.com
+61 (0)3 9720-3233

Austria

office@avibit.com
+43 316 429961

Brazil

brazil@safegate.com
+55 11 2137 4405

China

china@safegate.com
+8610-85275297

Dubai

dubai@safegate.com
+971 4 452 75 75

Finland

finland@safegate.com
+358 (0)20754 7700

France

france@safegate.com
+33 (0)1 42 99 60 40

Germany

germany@safegate.com
+49 (0)4121 464 303

India

india@safegate.com
+91 11 4106 1545

Malaysia

malaysia@safegate.com
+60 32 011 3522

Qatar

qatar@safegate.com
+974 436 9628

Russia

russia@safegate.com
+7 495 917 4614

Singapore

singapore@safegate.com
+65 6289 6893

Spain

spain@safegate.com
+34 917 157 598

UK

uk@safegate.com
+44 (0)208 573 0384

USA

usa@safegate.com
+1 763 535 92 99

THORN
Airfield Lighting

IDMAN

avibit
AIR TRAFFIC SOLUTIONS

SAFEGATE
GROUP 

Safegate Group offers solutions for increased safety, efficiency and environmental benefits to airports worldwide. The company was founded in 1973 and has its headquarters in Malmö, Sweden. Safegate Group has more than 70 partners around the globe in order to be close to its customers. Earlier members of Safegate Group include Thorn AFL and Idman, who both have over 40 years of experience in airfield lighting solutions for airports and heliports. The latest member of Safegate Group is Avibit, a leading provider of next generation software applications and integration of efficient air traffic control systems. Safegate Group's complete range of products and services, a "one-stop shop", provides solutions to customers and airborne travellers around the globe.

www.safegate.com