Airfield Lighting

Product Description

IDMAN

12" Unidirectional High-Intensity Inset Light (IDM 4661)

- Unidirectional Touchdown Zone
- Rapid Exit Taxiway Indicator Light (RETIL)





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1. INTRODUCTION

IDM 4661 is a 12" unidirectional high-intensity inset light.

Utilisation

- Unidirectional touchdown zone and runway centre line inset light, clear
- Unidirectional runway centre line inset light, red

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.





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3. TECHNICAL CHARACTERISTICS

Characteristic	Description
Light dimensions	Protrusion 6.3 mm Diameter 326 mm
	Depth 150 mm
Weight	6.7 kg
Ingression Protection	11.7 kg with base receptacle IP67
Materials	Top cover, inner cover and base receptacle: aluminium alloy castings Sheet metal fastening parts and fixing hardware: stainless steel Gaskets: heat resistant silicone rubber
Surface treatment	Top and inner covers anodised
Cables and connectors	Plugs: FAA L-823 Style 6 Receptacles: FAA L-823 Style 12 Secondary cable: FAA 150/5345-70
Light sources	1x105W, 6,6A, 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

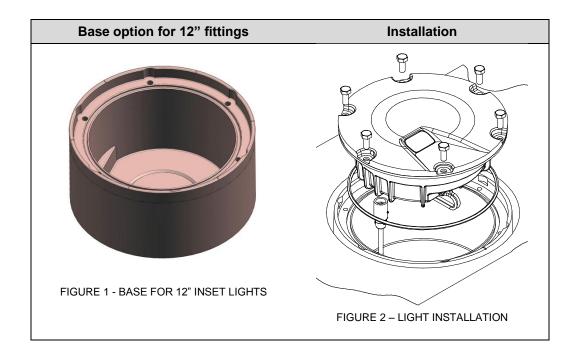
Packing Data			
Designation	Dimensions mm	Weight kg	
IDM4661	340 x 340 x 155	11.7	

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.



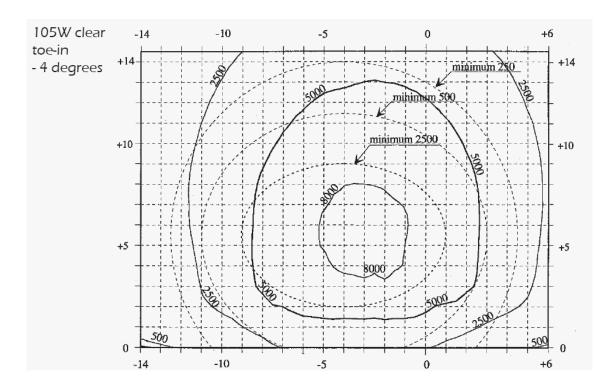




5. PHOTOMETRICS

Application	Requirements Annex 14, Appendix 2			Measured main beam intensities (kdc)			
	fig.	lmin	lave	lave	Imin	lmax	Uniformity ratio
Touchdown zone 105W, clear	2.5	2.5	5	7.4	4.4	8.7	1:2,0

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
- Inner cover equipped with rubber moulded plug KDC506 and seal integrity testing valve.



Optical construction

- Prisms specially heat resistant high quality borosilicate glass.
- Toe-in achieved by using different assembly plates, luminaire installed parallel to runway centre line.
- 48W or 105W / 6,6 A ø50mm reflector lamp.
- · 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	4661/	105W	-C	-0
4661				
105W				
C=Clear				
Y=Yellow				
0=No toe-in				
L=Toe-in left				
R=Toe-in right				

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





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8. SPECIFICATION

- Compliance with:
 - o ICAO: Annex 14 Volume I 6th edition July 2013
 - o FAA AC 150 / 5345 46D
 - Aerodrome Design Manual Part 4 Visual Aids, 4rd edition 2004
- High-intensity unidirectional inset light for:
 - o Unidirectional touchdown zone and runway centre line inset light, clear
 - o Unidirectional runway centre line inset light, red

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.

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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!



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