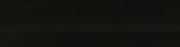
Airfield Lighting

Product Description

IDMAN

Bidirectional High-Intensity Elevated Light (IDM 5848)

• Runway Edge -





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1. INTRODUCTION

IDM 5848 is a high-intensity bidirectional elevated light.

Utilisation

- Runway Edge
- Threshold and end light (non-precision approach runways)

Compliance

- ICAO: Annex 14 Volume I 6th edition July 2013
- Aerodrome Design Manual Part 4 Visual Aids, 4rd edition
- FAA AC 150/5345-46D L-862

2. MAIN ADVANTAGES

- Fulfils ICAO and FAA standards in categories I, II and III
- Effective and accurate light distribution
- Corrosion resistant materials
- Light weight
- Modularity reduces spare parts stocking needs and costs
- Simple construction, reliable and easy to maintain



3. **TECHNICAL CHARACTERISTICS**

Characteristic	Description				
Light dimensions	SOC B2"				
Weight	2.1 kg				
Materials	Body corrosion resistant aluminium alloy. Silicone rubber gaskets. Anti-acid steel hardware. Bowl fastening ring UV resistant fibreglass-reinforced plastic.				
Surface treatment	Chromatized undercoat. Aviation yellow powder painting.				
Cables and	Plugs: FAA L-823 Style 5				
connectors	Receptacles: FAA L-823 Style 12				
	Secondary cable: FAA 150/5345-70				
Light sources	Pre-focused 6,6A constant current halogen lamp, Pk30D base. Power rating 150W or 200W. Average lifetime 1500 hours at rated current.				
Packing	Dimensions: 340x150x150 mm				
Accessories	Base plate IDM 5838 Curve tube IDM 5839 Transformer case IDM 5448/350				
	Extension tube				

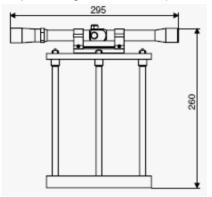
Packing Data			
Designation	Dimensions mm	Weight kg	
IDM5848	340 x 150 x 150	2.1	

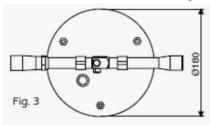
INSTALLATION OPTIONS

The fittings can be installed in two different ways:

Description	Image examples
(a) With a frangible coupling IDM 5840 on a base plate which is mounted on a transformer case IDM 5448.	FIGURE 1 – INSTALLATION ON A TRANSFORMER CASE
 (b) With a frangible coupling IDM 5840 on a curve tube IDM 5839. Note: Separated transformers case IDM 5848 with case plate IDM 5841 is needed. 	
	FIGURE 2 – INSTALLATION ON A CURVE TUBE

A special alignment device (IDM 5847) is used for horizontal and vertical alignment.





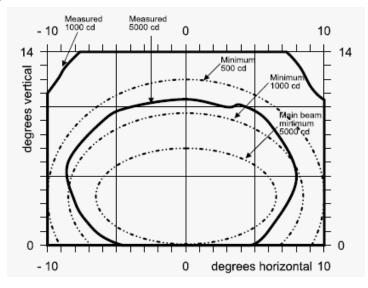


5. PHOTOMETRICS

Application	Requirements Annex 14, Appendix 2			Measured main beam intensities (kdc)			
	fig.	Imin	lave	lave	Imin	Imax	Uniformity ratio
Runway edge 150W, clear	2.11	5	10	12,1	7,2	15,9	1:2,2
Runway edge 200W, clear	2.10	5	10	12,5	7	17,4	1:2,5

Intensity Distribution

150W, clear



DESIGN

Mechanical construction

- Body special corrosion resistant aluminium alloy
- Aviation yellow powder painting
- Stainless steel hardware
- Silicone rubber gaskets
- Bowl fastening ring UV resistant fibreglass-reinforced plastic

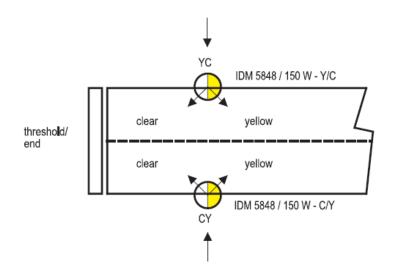
Optical construction

- Clear outer refractor bowl heat resistant pressed glass
- Inner refractor bowl(s) heat resistant pressed glass
- Coloured inner bowls available
- 150 W / 6,6 A or 200 W / 6,6 A pre-focused halogen lamp, Pkx30d or Pk30d base
- Average lifetime 1500 hours at rated current

Accessories

- Base plate IDM 5838
- Curve tube IDM 5839
- Transformer case IDM 5448/ 350
- Extension tube

Colour Code Specification







ORDER CODES

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

IDM	5848/	150W	-CY
5848			
150W			
200W			
C=Clear			
G=Green			
R=Red			
Y=Yellow			

Note: Mechanically breakable coupling and FAA-type secondary plug included.

Note: On request equipped with longer secondary cables c/w plugs. Length must be specified when ordering.

For more information, contact Safegate Group or see <u>www.safegate.com</u>.

SPECIFICATION

- Compliance with ICAO: Annex 14 Volume I 6th edition July 2013
- Aerodrome Design Manual Part 4 Visual Aids, 4rd edition 2004
- FAA AC 150/5345-46D L-862
- High intensity bidirectional elevated light for:
 - o Runway Edge
 - Threshold and end light (non-precision approach runways)

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.



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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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.

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