FB TECHNOLOGY

World Leader in Airfield Photometry

PAC Matrix

AGL Photometric Tester

Have a project, need some advice ?
Contact our team.

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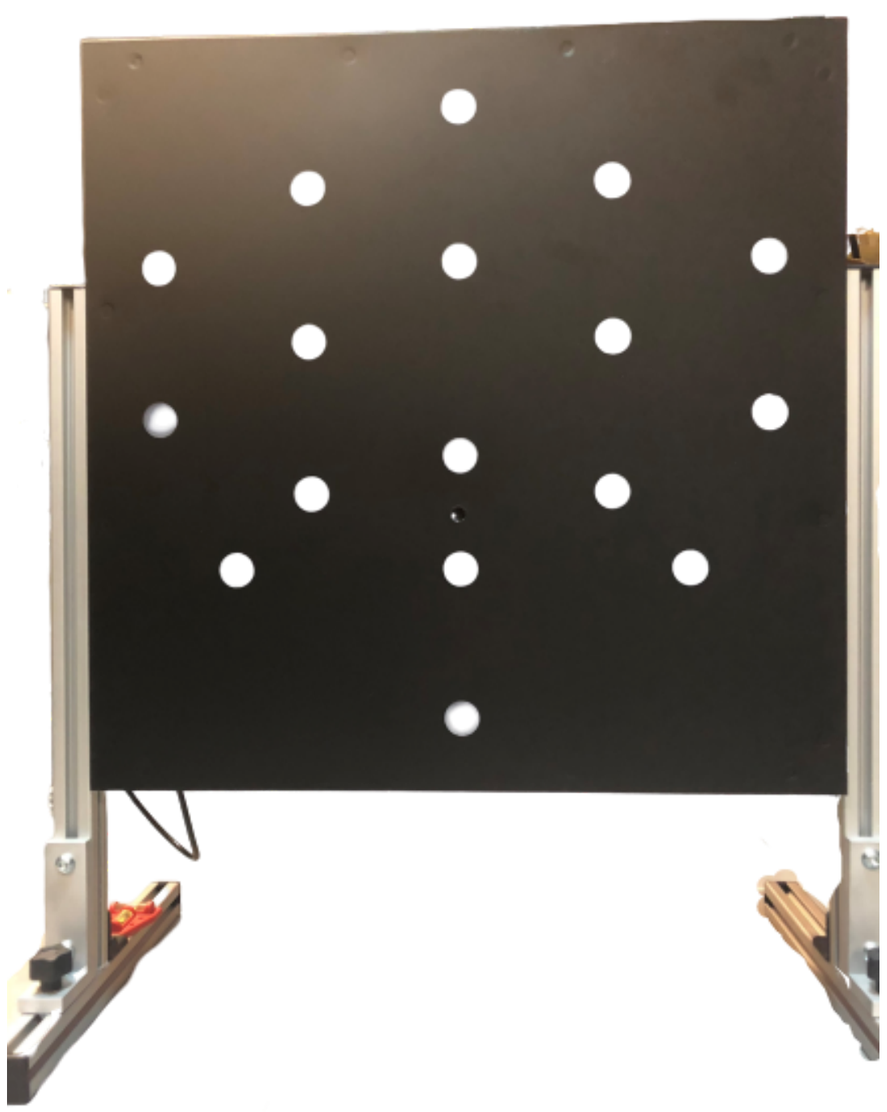
REGULATIONS TEND TO STRENGTHEN

Civil Aviation Authorities have set standards and recommended practices regarding the performance and serviceability of Aeronautical Ground Lighting. The requirements are numerous and precise, testing the photometry of the lights has become essential to ensure safety in all airports.

INTRODUCING TO PAC MATRIX

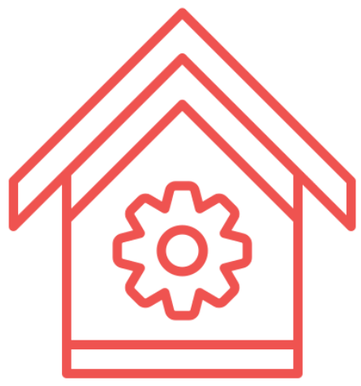


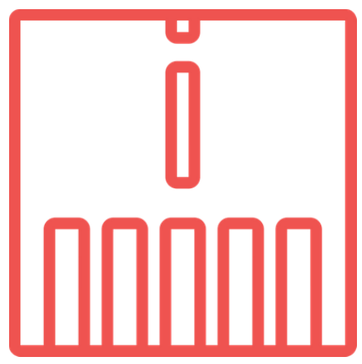
The PAC Matrix (Matrix of sensors for Photometric Airfield Calibration) is a **portable photometry measurement system that can be used both in workshop and on-site.**

ALL TYPES OF LIGHTS

Inset or elevated lights, including approach

WORKSHOP & AIRFIELD





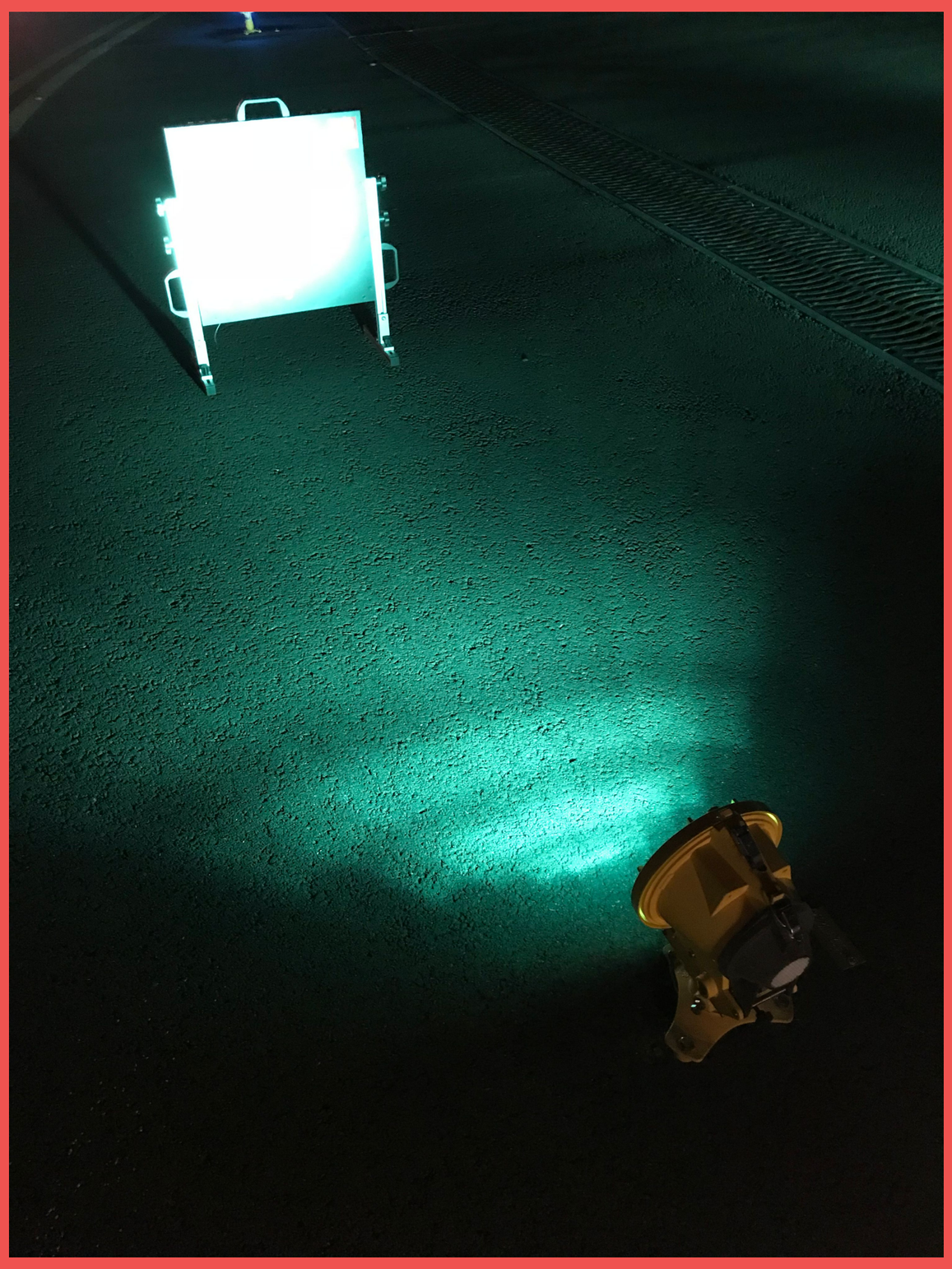
In workshop, the PAC Matrix provides quick photometry compliance to ICAO by collecting light samples from the fitting beam – up to 17 samples can be taken in the ICAO main beam in order to compute the average value of the fitting.

Measurement is carried out in one second per fitting.

On site, the operator carries this **light-weight device** and places it in front of the light beam to be measured: either by positioning it on the ground, and sliding up to the required height or for higher fittings – such as approach lights and high wing-bar lights, by simply carrying the PAC Matrix in front of the beam.

Measurement Process

- Position the PAC Matrix in front of the light beam.
- Select the type of fitting to be measured on the 10.1″ tablet (touchscreen)
- Make sure it is horizontal (check bubble levels) & at the adequate distance (see tablet information)
- When ready, press on “Start acquisition” and click on the push-button
- Result is provided instantly with the average value in candela and the status Pass/ Fail.
- If required, the pdf report of the fitting measurement can be displayed immediately.



Measurement Example

Description of the supply

The system PAC Matrix of FB Technology is supplied as follows:

Supplied in a carrying case:

- The frame of seventeen lux sensors
    - A chromatometer with necessary data acquisition, positioning
- A communication equipment
- An integrated rechargeable battery pack (LiPo - autonomy 8 hours)

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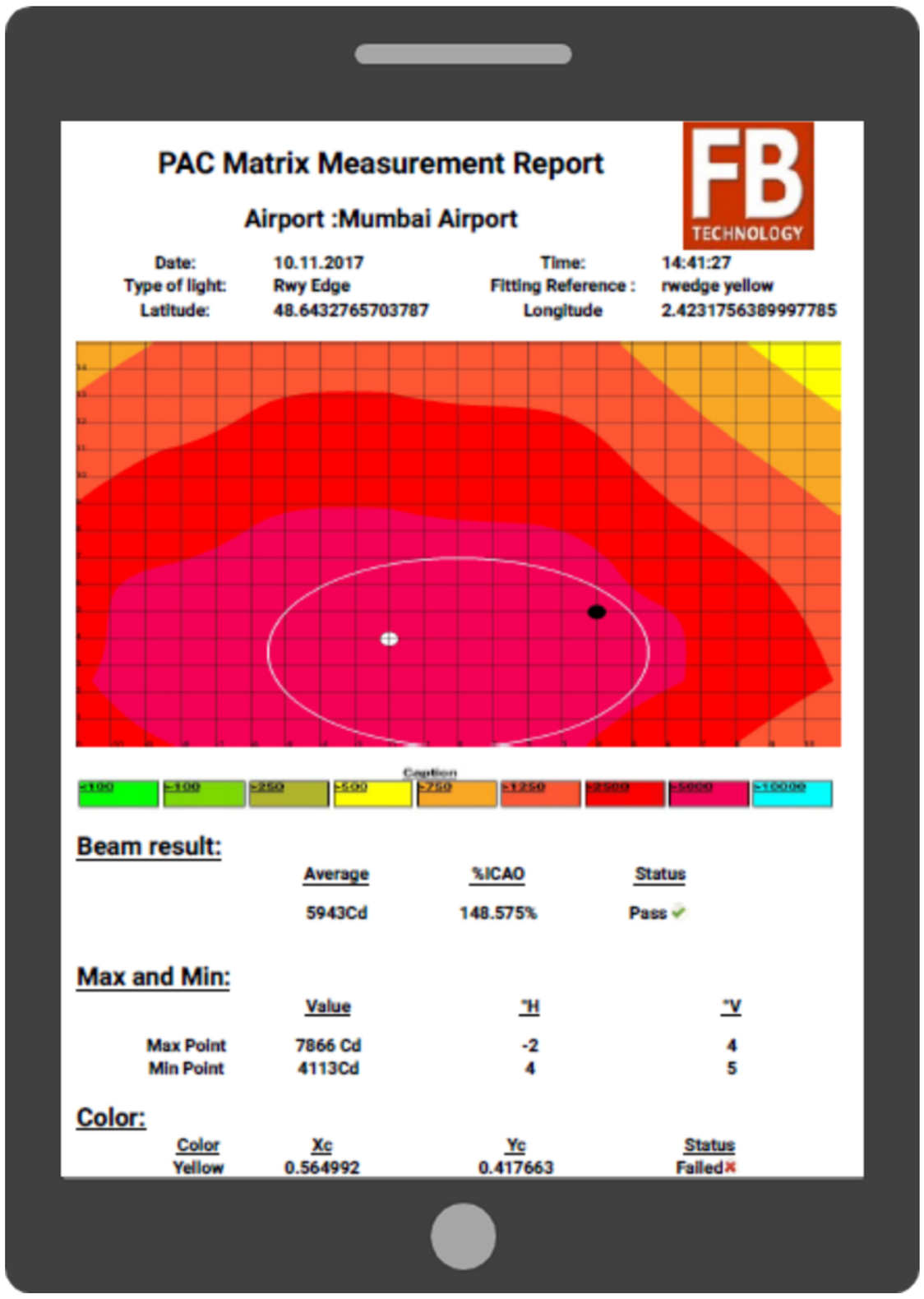
Individual Light Report

The PAC Matrix reports provides the following :

- Name of the airport
- Date and time of measurement
- Type of facility and fitting identification number (if available)
- The GPS co-ordinates as provided by the 10.1'' tablet
- The ICAO Average value in candela, the ICAO standard percentage of compliancy and the status Pass/ Fail.
- The chromaticity co-ordinates of the measured beam as per ICAO standard.
- The display of all measured values on the Matrix schematic and in a summary chart.



PAC Matrix Measurement Report

Airport :Mumbai Airport

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Date:	10.11.2017	Time:	14:41:27
Type of light:	Rwy Edge	Fitting Reference :	rwedge yellow
Latitude:	48.6432765703787	Longitude	2.4231756389997785

Caption

<100 | >100 | >250 | >500 | >750 | >1250 | >2500 | >5000 | >10000

Beam result:

Average	%ICAO	Status
5943Cd	148.575%	Pass

Max and Min:

	Value	°H	°V
Max Point	7866 Cd	-2	4
Min Point	4113Cd	4	5

Color:

Color	Xc	Yc	Status
Yellow	0.564992	0.417663	Failed

THE ADVANTAGES

Portable light-weight system

Easy to use & to manipulate

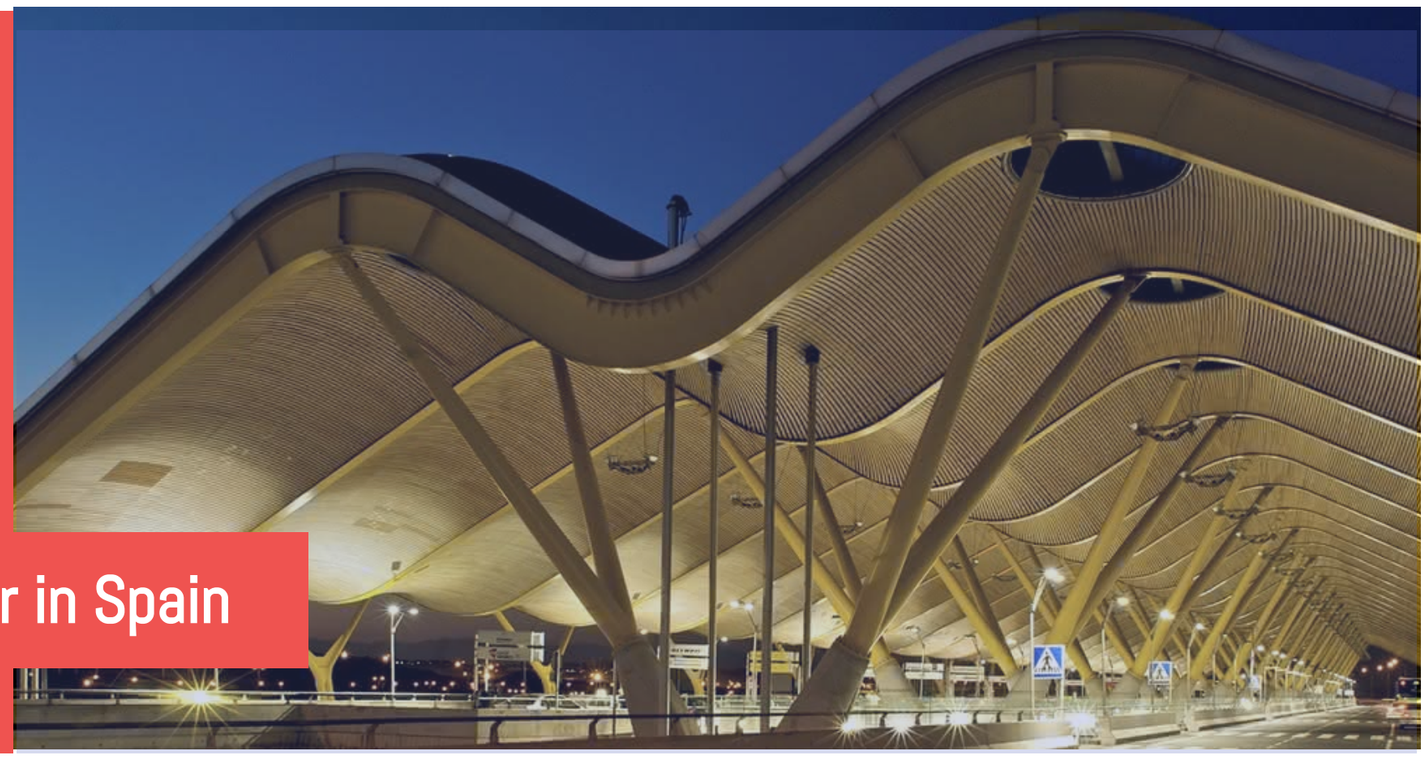
Immediate display of results & reports

Results include GPS co-ordinates of the fitting measured on site

Database system to manage & record data used & collected

Data acquisition of values in less than 1 second

THEY USE OUR PAC MATRIX



Contractor in Spain

Contractor in Morocco

Jaipur Int'l Airport

Delhi Int'l Airport

Other Products

MARC ONE

Autonomous robot for photometry & maintenance

—

PAC π

PAPI lights measurement system

—

PAXIGN

Chromatic & luminance signs measurement

—

SoDICE

Cleaning light equipment

—

PAC APRON

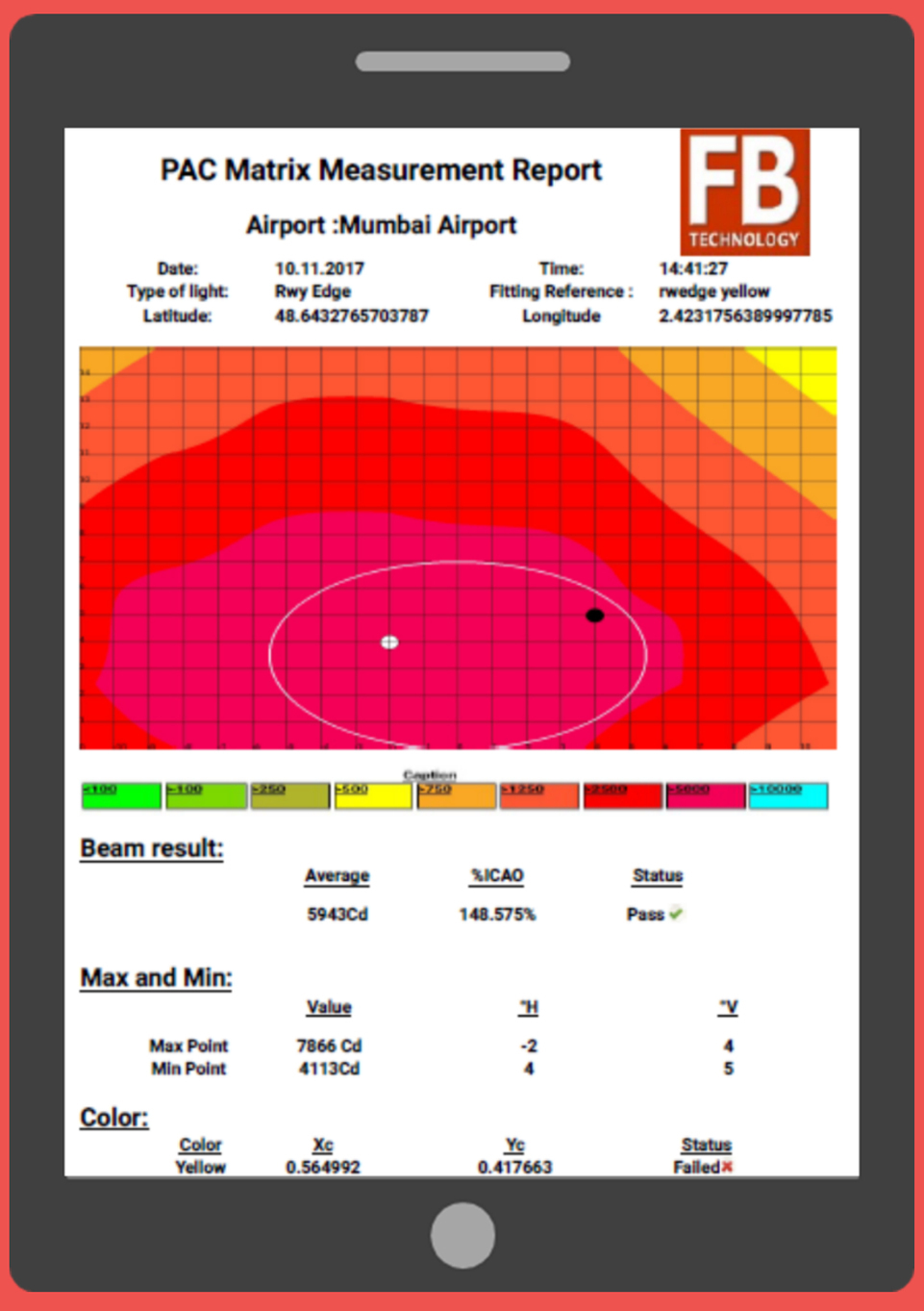
Measure the lux values of the apron floodlighting

—


JA865J
unicef
BOEING 787
JAL
JAL CARGO

FB Technology

PAC Matrix - Brochure



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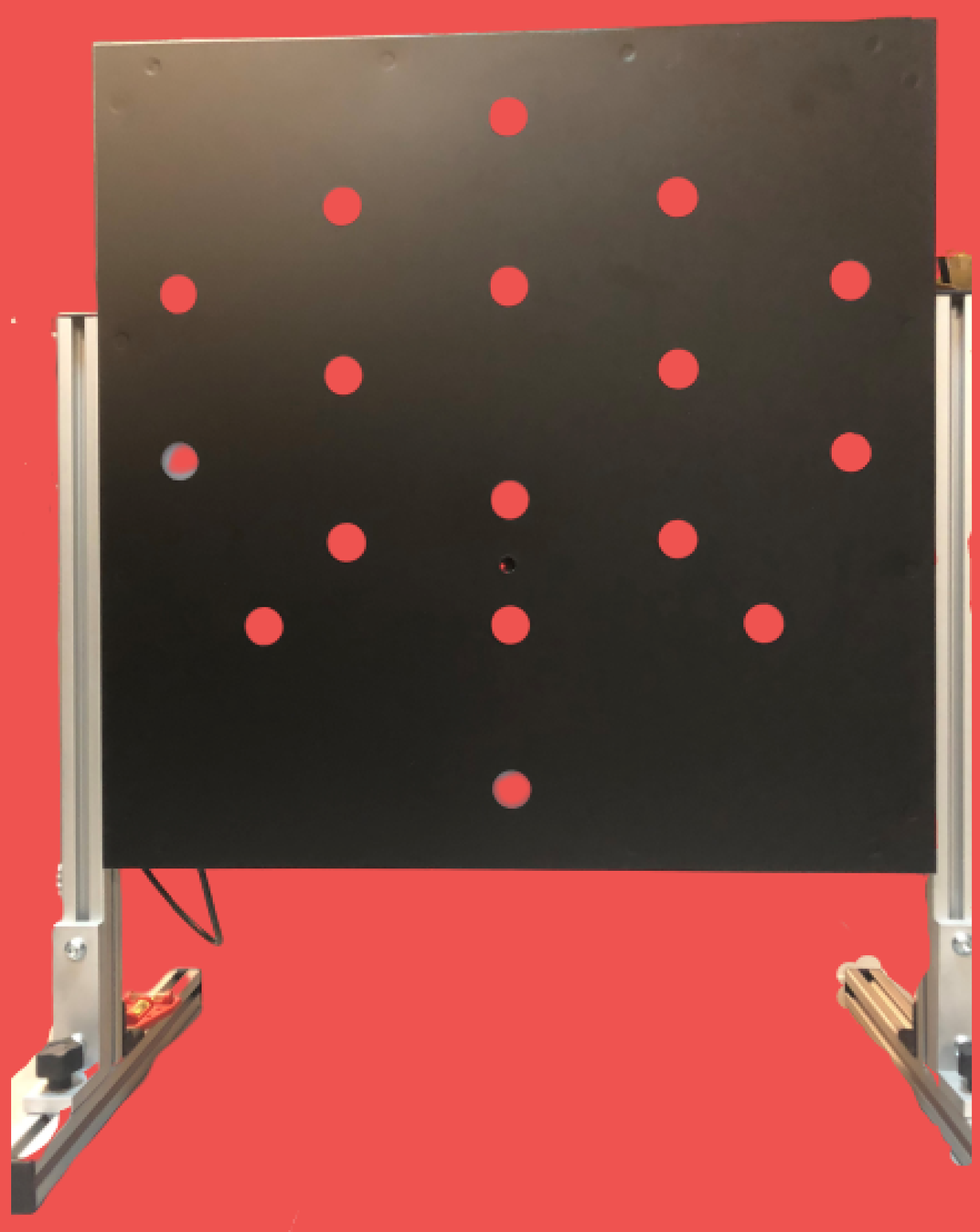

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