



PHOTOBENCH

MANAGE THE PHOTOMETRIC PERFORMANCE OF LIGHT FITTINGS

THE AIRFIELD LIGHTS ARE ON BUT
ARE THEY WORKING CORRECTLY?

MALMS PHOTOBENCH

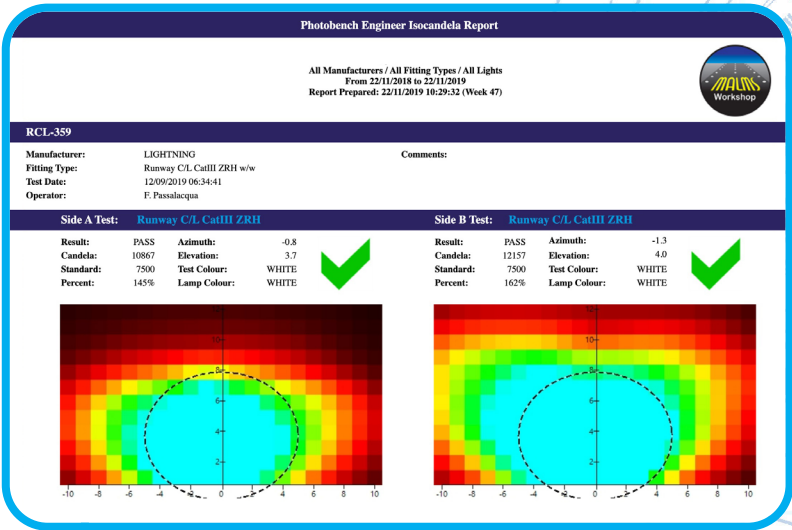
THE MALMS PHOTOBENCH IS
DESIGNED TO ENSURE ACCURACY
AND IS INDEPENDENTLY TESTED
FOR CONFORMANCE WITH THE
CRITERIA FOR BEAM INTENSITY
AND ORIENTATION DEFINED IN
ICAO ANNEX 14, EASA, FAA AC
150/5345-46E



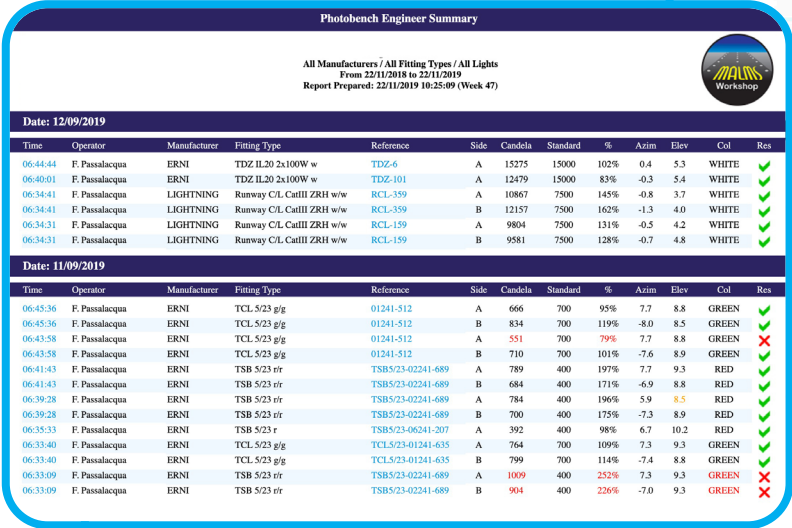
MALMS DASHBOARD PHOTOBENCH REPORTING

Demonstrating light fixtures are operating safely and in compliance with regulations

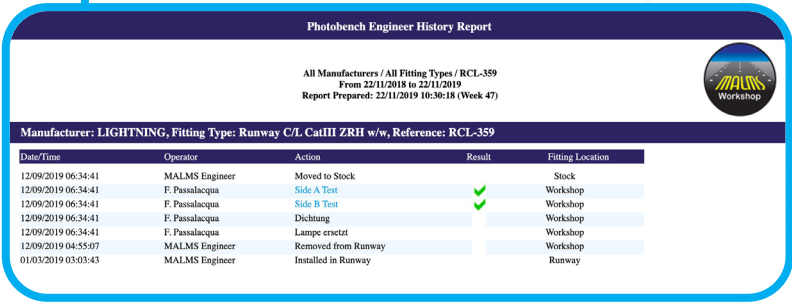
PHOTOBENCH LIGHT FIXTURE STATUS
Drill down to the current location of individual fixtures



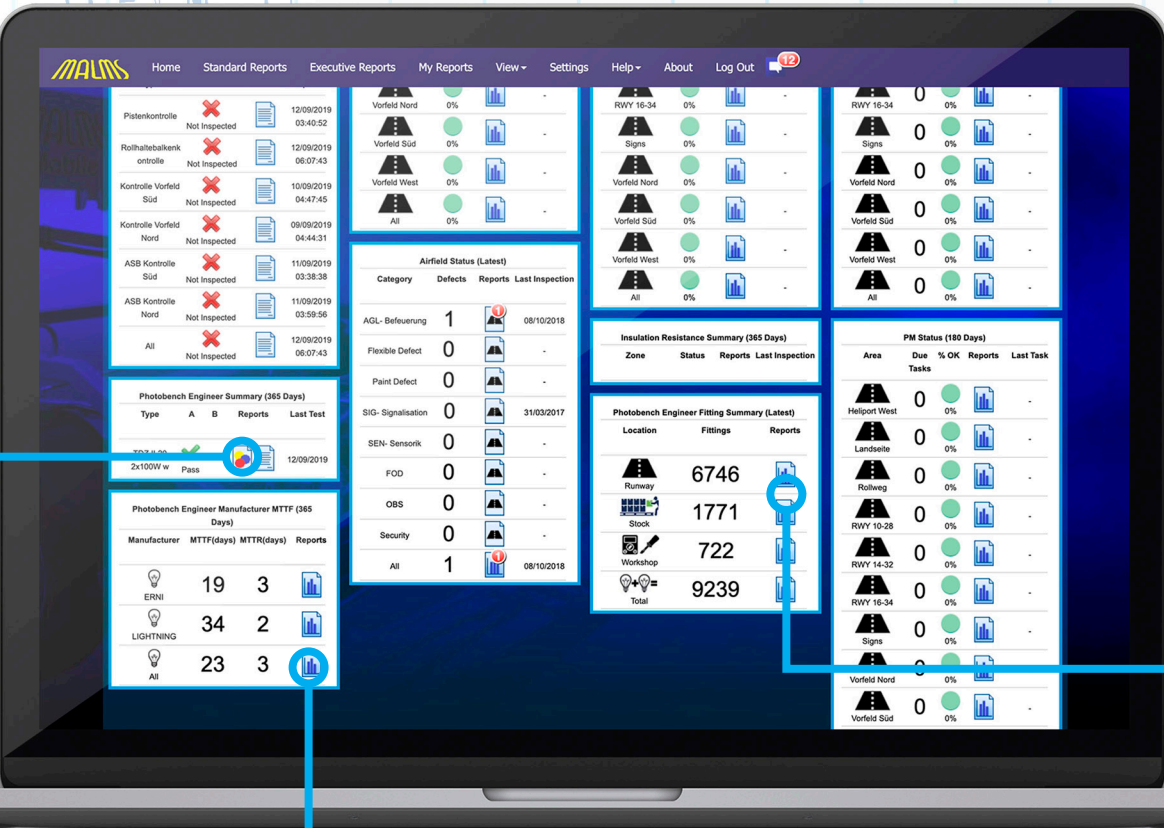
PHOTOBENCH ISOCANDELA REPORT
Isocandela diagrams and results for both sides of a light fixture from an individual test.



PHOTOBENCH SUMMARY
Summary of all light fixture tests and results.



PHOTOBENCH HISTORY REPORT
Log of tests carried out and remedial actions taken for a light fixture.

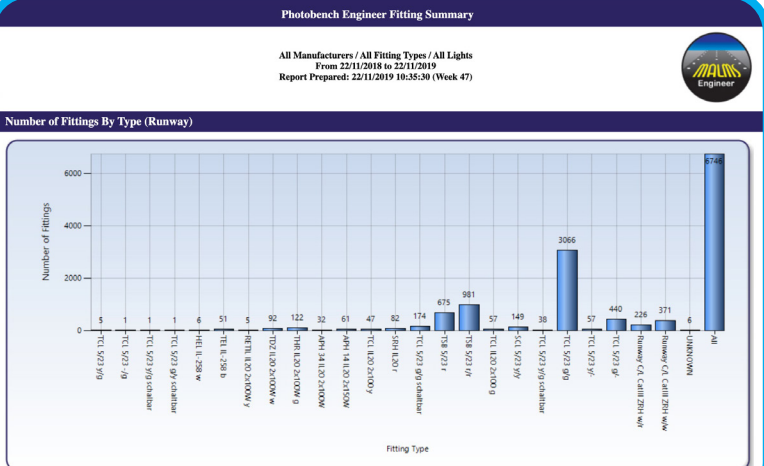


LIGHT FIXTURE TYPE MEAN TIME TO FAILURE
Mean time to failure and repair figures by manufacturer and fixture type.

Photobench Engineer Fitting Status

All Manufacturers / TCL 5/23 g/g / All Lights
From 22/11/2018 to 22/11/2019
Report Prepared: 22/11/2019 10:35:37 (Week 47)

Manufacturer	Fitting Type	TCL 5/23 g/g
24125.16.0382	Installed	Rollweg Centerline / TCL 181-01 - 04
24125.16.0359	Installed	Rollweg Centerline / TCL 181-07 - 10
24125.16.0386	Installed	Rollweg Centerline / TCL 181-07 - 11
24125.16.0372	Installed	Rollweg Centerline / TCL 184-17 - 01
24125.16.0386	Installed	Rollweg Centerline / TCL 284-10 - 04
24125.16.0358	Installed	Centerline VFN / ACL 410-6 - 01
24125.16.0401	Installed	Centerline VFN / ACL 403-8 - 13
24125.16.0373	Installed	Rollweg Centerline / TCL 172-01 - 03
24125.16.0360	Installed	Centerline VFN / ACL 403-2 - 01
24125.16.0364	Installed	Rollweg Centerline / TCL 174-16 - 06
24125.16.0494	Installed	Centerline VFN / ACL 406-09 - 03
24125.16.0435	Installed	Unknown
24125.16.0387	Installed	Centerline VFN / ACL 405-01 - 05
24125.16.0389	Installed	Unknown
24125.16.0375	Installed	Centerline VFN / ACL 332-1 - 02
24125.16.0368	Installed	Rollweg Centerline / TCL 181-06-04
24125.16.0356	Installed	Rollweg Centerline / TCL 182-04 - 10
24125.16.0493	Installed	Rollweg Centerline / TCL 181-01 - 05
24125.16.0379	Installed	Centerline VFN / ACL 401-3 - 06
24125.16.0363	Installed	Centerline VFN / ACL 410-5 - 06
24125.16.0379	Installed	Centerline VFN / ACL 410-4 - 03
24125.16.0441	Installed	Rollweg Centerline / TCL 181-05 - 08
24125.16.0376	Installed	Centerline VFN / ACL 224-04 - 01
24125.16.0378	Installed	



PHOTOBENCH LIGHT FIXTURE SUMMARY
Track the number of light fixtures on the runway, in stock and in the workshop by manufacturer and type

MEAN TIME TO FAILURE
Drill down to MTF and MTTR figures for individual light fixtures based on the time they spend in the ground and in the workshop

Mean Time to Failure/Repair for Manufacturer: Fitting Type: THR IL20 2x100W g

Fitting Reference	1	2	0	0
THR-16	1	2	0	0
THR-56	1	2	0	0
THR-131	1	2	74	35
THR-105	1	2	74	34
THR-99	1	2	102	0
THR-35	1	2	0	0
THR-106	1	1	72	0
THR-141	0	1	0	0
THR-24	0	1	0	0
THR-65	0	1	0	0
THR-138	0	4	0	0
THR-55	0	3	0	0
THR-89	0	2	0	0
THR-50	0	1	0	0
THR-115	0	2	0	0
THR-32	0	5	0	0
THR-143	0	2	0	0
THR-132	0	1	0	0
THR-137	0	1	0	0
THR-3	0	1	0	0
THR-53	0	7	0	0
THR-75	0	1	0	0
THR-108	0	2	0	0
THR-97	0	1	0	0

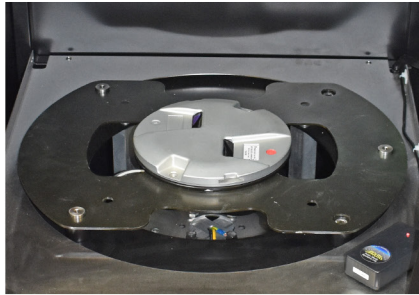
Studies have shown that without photometric testing as part of an airports quality assurance procedures, many new and refurbished lights fail to achieve the serviceability requirements specified in national and international standards for beam intensity and orientation before they are installed, meaning airports are replacing a defective light with another potentially defective light.

MALMS PHOTOBENCH

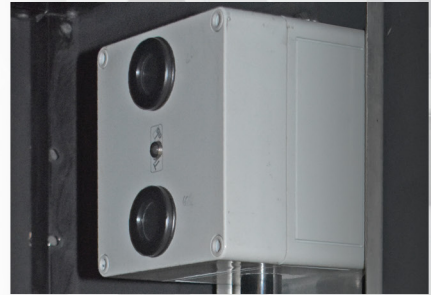
MEASURING THE PERFORMANCE OF LIGHT FIXTURES



RFID tag reader



Interchangeable size plates



Light Sensor Arrays

The MALMS PhotoBench is specifically designed to quickly and accurately measure the photometric performance of light fixtures. The MALMS PhotoBench will enable every light fixture to be tested before it is installed on the airfield. This will ensure compliance with maintenance and serviceability levels specified in national and international regulations before they are installed on the runway or taxiway.

MALMS PhotoBench is a self-contained system that can measure both LED and Tungsten Halogen fixtures with near-laboratory measurement accuracy yet requires only a small floor area and no special dark room. MALMS PhotoBench incorporates a 4.5 metre test tunnel that can be installed in the AGL maintenance workshop.

MALMS PHOTOBENCH FEATURES

- Designed to ensure accuracy and is independently tested for conformance with the criteria for beam intensity and orientation defined in ICAO Annex 14, EASA, FAA AC 150/5345-46E.
- Easy to use: Connect the fixture, close the tester door and a pass or fail result is indicated in approximately 30 seconds per light.
- Requires only a small floor area and no special dark room.
- Rugged scientific measurement equipment designed and built for airfield maintenance workshop environments.
- MALMS systems deliver class leading reliability which is why so many systems are in use around the world.
- Data integrity is ensured through automatic monitoring, quality checks and innovative design aimed at preventing operator errors.
- Provides a comprehensive, traceable audit and history trail for airfield lighting and maintenance processes.
- All information is captured and recorded electronically (no manual input).
- Asset tracking and RSS (Rapid Serviceability) options with RFID tagging
- Demonstrates that an airport is operating safely and in compliance with regulations.
- Significant, verifiable cost savings provide a rapid return on investment.
- It is the only AGL workshop photometric test equipment trusted by airfield lighting manufacturers to test ALL their new lights prior to sale.



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YOU CAN'T MANAGE WHAT YOU DON'T MEASURE