Dialight

EMEA



PRODUCT PORTFOLIO

DESIGNED FOR THE WORLD'S
MOST DEMANDING APPLICATIONS

World Leading Industrial
LED Lighting Solutions

www.dialight.com

DIALIGHT DIFFERENCE

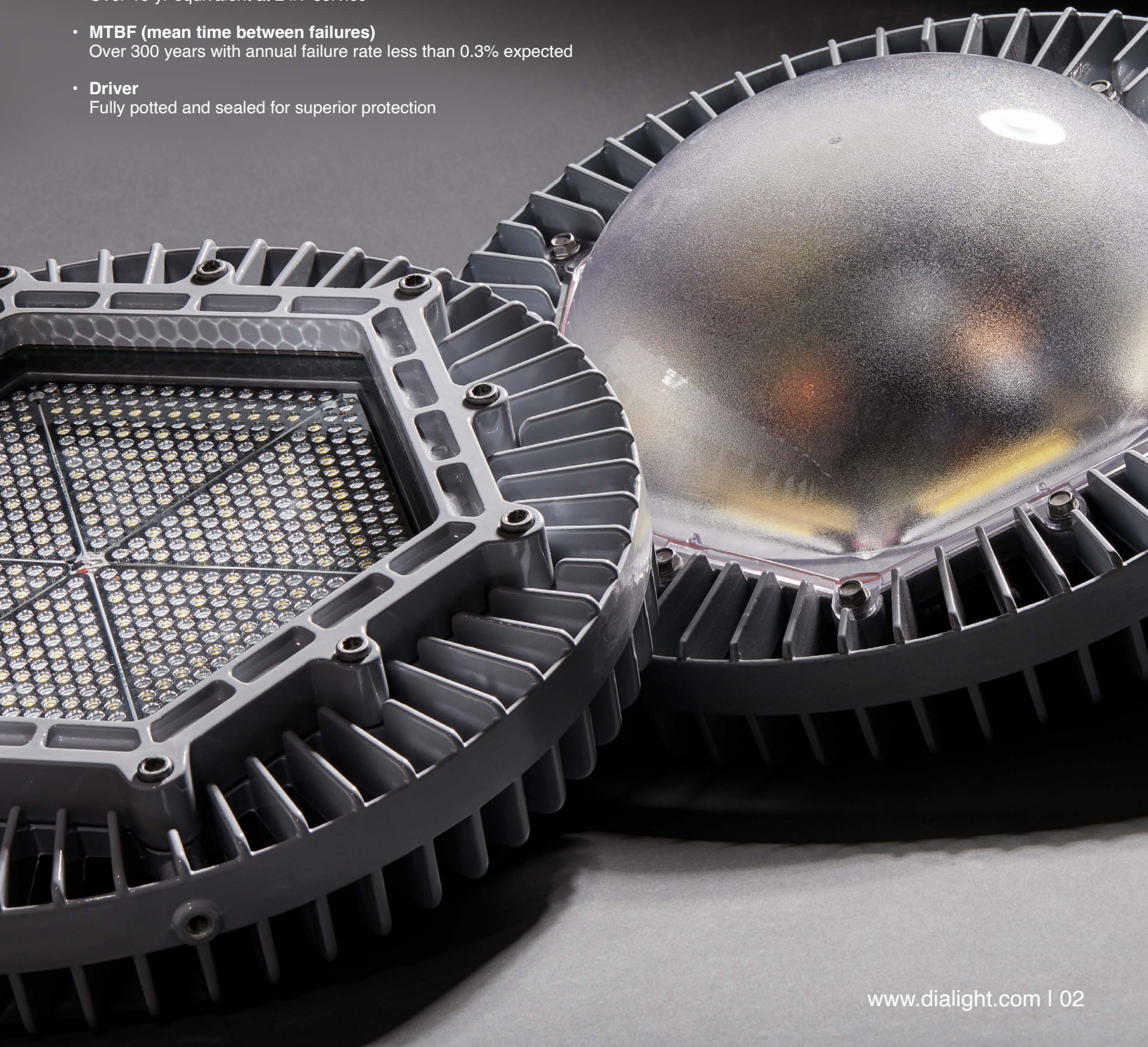
Low Maintenance Mechanical Design
Sealed and optimised to reduce or eliminate the need for maintenance over the life of the fixture. Easy to install and retrofit to existing infrastructure.

Custom Power Supplies
Long-life potted drivers with optimised thermal dissipation for protection against environmental contaminants and vibration-related failures.

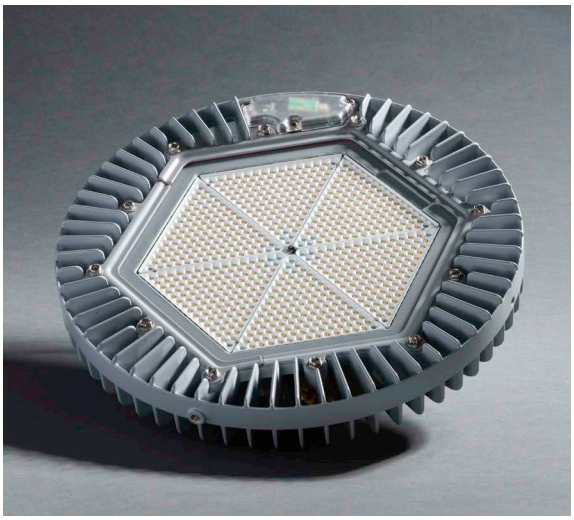
- **ALT (accelerated life testing)**
  Over 15 yr equivalent at 24/7 service
- **MTBF (mean time between failures)**
  Over 300 years with annual failure rate less than 0.3% expected
- **Driver**
  Fully potted and sealed for superior protection

Latest LEDs and Advanced Optics
Highly efficient, crisp, low-glare illumination. Lighting where you need it, not where you don't.

Built for Demanding Environments
Hazardous location certified. Backed by a 10-year warranty. Designed for total confidence in tough conditions.



HAZARDOUS & NON-HAZARDOUS



LED HIGH BAYS

Durable, energy-efficient lighting built for mounting at high ceilings in industrial facilities.

Models: High Bay, Low Bay, High Output High Bay, Battery Backup
Technology: Vigilant®, SafeSite®
Warranty: 10-Year
Lumens: 6,000-70,500
Efficacy: Up to 200 lm/W
Ratings: IP66/67, IK08/IK10
Certifications: CE, ENEC, DNV, ATEX/IECEx Zone 1, 2, 21 & 22
Operating Temp: -40°C - +65°C (Emergency -20°C - +55°C)
Voltage: 120-277VAC, 120-250VDC, 277-480VAC, Emergency 230-240VAC
Driver: DALI Compatible
CRI: 70 or 80
Rated Life: L70 >150,000 Hours
Lens: Glass, Polycarbonate, Acrylic
Beam Distribution: Medium, Wide, Narrow, Oval
Mounting Options: Hook, Pendant, Bracket



LED BULKHEADS

Industrial and hazardous light for walkways, stairwells, platforms, subways and evacuation routes.

Models: Bulkhead, Battery Backup
Technology: Vigilant®, SafeSite®
Warranty: 10-Year
Lumens: 3,100 - 6,700
Efficacy: Up to 153 lm/W
Ratings: IP66/67, IK10
Certifications: CE, ENEC, DNV, ATEX/IECEx Zone 1, 2, 21 & 22
Operating Temp: -40°C - +65°C (Emergency -20°C to +55°C)
Voltage: 120-277VAC, 120-250VDC, Emergency 230-240VAC
Driver: DALI Compatible
CRI: 80, Green LEDs for Safety Shower
Rated Life: L70 >150,000 Hours
Lens: Polycarbonate
Beam Distribution: Medium, Ultra-Wide
Mounting Options: Ceiling and Wall Mount, Adjustable, Pole Mount



LED GRP LINEARS

Robust linear fittings for low-clearance areas.

Models: Linear, Battery Backup
Technology: Vigilant®, SafeSite®
Warranty: 10-Year
Lumens: 2,785-5,750
Efficacy: Up to 123 lm/W
Ratings: IP66/67
Certifications: CE, ENEC, DNV, ATEX/IECEx Zone 1, 2, 21 & 22
Operating Temp: -40°C - +65°C (Emergency -20°C - +50°C)
Voltage: 120-277VAC, 120-250VDC, Emergency 230-240VAC
Driver: DALI Compatible
CRI: 80, Green LEDs for Safety Shower
Rated Life: L70 >150,000 Hours
Lens: Polycarbonate
Beam Distribution: Medium
Mounting Options: Ceiling and Wall Mount, Pole Clamp

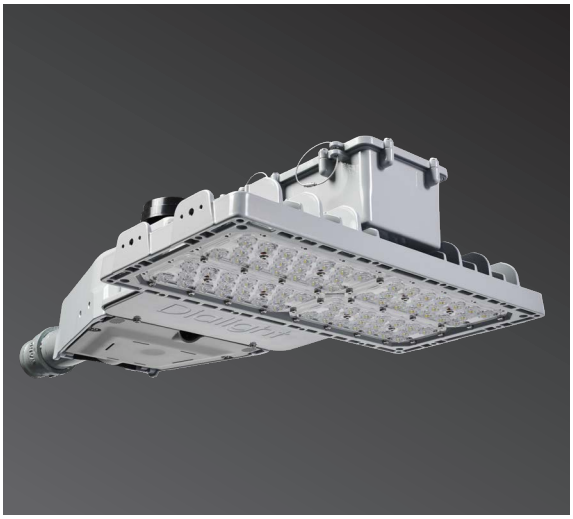
HAZARDOUS & NON-HAZARDOUS



LED FLOODLIGHTS

Powerful flood lighting for illuminating large areas, perimeters, and outdoor work zones.

Models: Floodlight, Heavy-Duty, Battery Backup
Technology: ProSite
Warranty: 10-Year
Lumens: 12,000 - 65,000
Efficacy: Up to 165 lm/W
Ratings: IP66/67, IK08-10
Certifications: CE, ENEC, DNV, RCM, ATEX/IECEx Zone 2, 21, 22
Operating Temp: -40°C - +65°C (Emergency -20°C to +55°C)
Voltage: 120-277VAC / 120-250VDC, 277-480VAC, Emergency 230/240VAC
Driver: DALI Compatible
CRI: 70
Rated Life: L70 >150,000 Hours
Lens: Integrated PC, Glass, Polycarbonate
Beam Distribution: Medium, Wide, Very Wide, Asymmetric
Mounting Options: Angled Bracket, Slip Fitter, Heavy-Duty



LED STREETLIGHTS

Rugged, reliable lighting engineered for roadways, perimeter security, and facility exteriors.

Models: Streetlight, Battery Backup
Technology: ProSite
Warranty: 10-Year
Lumens: 12,000 - 30,000
Efficacy: Up to 152 lm/W
Ratings: IP66/67, IK08-10
Certifications: CE, ENEC, DNV, RCM, ATEX/IECEx Zone 2, 21, 22
Operating Temp: -40°C - +65°C (Emergency -20°C to +55°C)
Voltage: 120-277VAC / 120-250VDC, 277-480VAC, Emergency 230-240VAC
Driver: DALI Compatible
CRI: 70 and 80
Rated Life: L70 >150,000 Hours
Lens: Glass, Polycarbonate
Beam Distribution: Type III, Type V
Mounting Options: Mast-Arm, Slip Fitter



LED EMERGENCY/EXIT LIGHTS

Essential safety lighting that provides visibility and guidance during power loss or evacuation.

Model: IECEx/ATEX Exit Signs
Warranty: 5-Year Limited Warranty (2-Years on Battery)
Power: 10W
Ratings: IP66, IK10
Certifications: CE, ATEX/IECEx Zone 1
Operating Temp: -20°C to +45°C
Voltage: 100-277VAC, 12-36VDC, 50/60Hz
Rated Life: 50,000 Hours
Signage: Various exit sign labels for choice, and the lables can be customised.



INDUSTRY LEADING 10 YEAR WARRANTY

10-Point Formula

1 **Component Selection**
Component ratings checked via stress analysis at the design phase. Use of long-life electrolytic capacitors.

2 **Topology Selection**
Use of efficient, soft-switching resonant topologies. 90-94% efficiency.

3 **Reliability Predictions**
MTBF and survival probability calculations consistent with 10-year warranty.

4 **Accelerated Life Tests (ALT)**
Practical MTBF assessment using temperature cycling and failure rate calculations. Repeated for any major change. Scheduled HALT on production samples (Quality Audit).

5 **Stress Analysis**
Every component checked by calculation and/or measurement. Multiple temperature studies.

6 **DFM and Supply Chain Analysis**
Design for Manufacturing. All PCB design specifications (spacings, hole sizes, etc.) are carefully reviewed to ease manufacturing and reduce handling and rework. Multiple component alternatives are specified and tested to prevent production stoppages.

7 **Quality Controls**
Telecom Practice Policy: 100% testing of THD, PF, and input power. Subassemblies are tested before being assembled to the final product.

8 **Weak Signal Management (WSM) Data Analysis**
Weak manufacturing failure analysis. Burn-in data analysis. Comprehensive PHM tools used to detect high failure. Periodic historical data check to ensure failure rates remain in alignment with 10-year life expectation.

9 **Burn-in**
This can include power cycling, over-voltage stressing, and thermal stressing of the final product.

10 **PHM**
Prognostic & Health Management. Gen 4 power supplies.



FIXTURE TESTING

And Corrosion Protection

Dialight is the world leader in industrial LED lighting with millions of fixtures installed worldwide in some of the most unforgiving environments on the planet. Our fixtures undergo extensive and rigorous testing that far exceeds the industry standard, including:

- Optical testing through our NVLAP certified in-house optics lab featuring the latest cutting edge equipment
- In-house Salt spray testing at 10X the industry standard
- Shock and vibration testing to Lloyd's standard or IEC 60068
- Accelerated life testing that simulates lifetime exposure to excessive heat and fluctuating power conditions in environmental chambers located in our facilities
- In-house expertise on hazardous-location certifications covering every class, division and zone in the industry

To further ensure long-term reliability, all fixtures undergo 100% burn-in testing at factory settings, either in dynamic mode or using Highly Accelerated Stress Screening (HASS).

Dialight products utilize a 6-stage pretreatment dual coat solution employing an epoxy hybrid basecoat with a TGIC polyester topcoat that achieves a scribe rating of 9 and blister rating of 10 after 2,500+ hours of salt spray testing per ASTM B117.

Dual coat solution provides superior protection. Epoxy basecoat improves edge coverage and enhances chemical corrosion resistance. TGIC polyester topcoat provides enhanced weatherability and saltwater corrosion resistance. The 6-stage pretreatment process ensures superior surface preparation and superior coating adhesion. To ensure consistency and quality, Dialight performs a daily inspection for the following: Crosshatch Adhesion Test, Methyl Ethyl Ketone Resistance Test, Boiling Water Test, Surface Finish Test, Film Thickness Test, Colour Test, and Gloss Test.



EMEA
60 Petty France
London, SW1H 9EU
+44 (0) 203 058 3540
sales-emea@dialight.com