WHY LIGHTING MATTERS in Metals and Mining Applications

Lighting is of critical importance in Metals and Mining applications to maximize both safety and productivity. These sites are among the most dangerous to work due to extremely harsh conditions and explosive environments. It is without question that the lighting must be able to withstand combustible atmospheres and prevent explosions, while also providing clear illumination for workers to perform tasks safely. For this reason, and the fact that workers can struggle with fatigue when operating complicated, specialized equipment for long periods of time, United Steelworkers recommends bright white lighting.

- Noisy, complex heavy machinery
- High heat and high vibration
- Chemical vapors, dust and debris
- Physical hazards, such as slips, falls, and moving objects
- Arc Flash
- Flammable and explosive environments

THE COST OF POOR LIGHTING in Metals and Mining Applications

Poor illumination can contribute to tragic work site accidents and injuries in the Metals and Mining sector. Between 2009-2018 the US Bureau of Labor statistics cited:

- 365 FATALITIES with $373 MILLION TOTAL COSTS
- 61,700 NON-FATAL INJURIES with $2.1 BILLION TOTAL COSTS

While significant strides have been made by organizations such as the MSHA over the past few decades to improve safety, the Metals and Mining industries inherently involve risks and hazards that demand high quality lighting. When choosing a lighting partner for your facilities, care must be taken to ensure their products have proven to perform safely and reliably in your environments and offer a sustainable solution.
DIALIGHT SOLUTIONS for Metals and Mining Applications

Dialight is the world leader in industrial LED lighting technology with millions of fixtures installed worldwide. We specialize in lighting products designed for the world’s harshest industrial environments – enabling industrial customers to reduce their energy costs, maintenance costs, and carbon footprint while maximizing the safety and productivity of their employees and facility. From our signature High Bay line to our versatile Linear fixtures, Dialight offers a large selection of rugged products ideally suited for environments found within the Metals and Mining Industry.

WHERE TO USE DIALIGHT PRODUCTS in Metals and Mining Applications

METALS
- Furnaces
- Catwalks
- Cranes
- Hot Mill, Pickling, and Cold Mill Processing Areas
- Electrical Equipment Rooms
- Coil Storage and Warehouses
- General Areas
- Maintenance Shops

MINING
- Mill Process Areas
- Conveyors
- General Flood Lighting for Open Pits
- Power Stations
- Excavator Drag Lines
- Loading / Unloading Areas
- Warehouses and General Areas
- Maintenance Shops

TECHNOLOGY DIFFERENTIATION

When choosing an LED Lighting partner, consider how their products are engineered, constructed and tested prior to making your decision. Most Dialight products are engineered to a 10 year warranty and were designed with harsh environments, such as Metals and Mining applications, in mind.

CUSTOM POWER SUPPLIES
Long-life potted drivers with optimized thermal dissipation for protection against environmental contaminants and vibration related failures.

LOW MAINTENANCE MECHANICAL DESIGN
Sealed and optimized to reduce or eliminate the need for maintenance over the life of the fixture. Easy to install and retrofit to existing infrastructure.

LATEST LEDS AND ADVANCED OPTICS
Highly efficient, crisp, low-glare illumination. Lighting where you need it, not where you don’t.

INTELLIGENT CONTROLS
Flexibility to group, dim and schedule lights around the unique needs of a facility to maximize energy savings. Plus, seamless integration with existing factory automation.

See product portfolio pages for more detailed product and ordering information.
APPLICATION GUIDE for Metals and Mining Sites

1. SafeSite® High Bay
   Hazardous location chemical storage and processing

2. SafeSite® and Vigilant® Area Lights
   For hazardous and non-hazardous lower ceiling indoor or outdoor process and stanchion mount applications*

3. Vigilant® High Bay
   For non-hazardous indoor or outdoor high bay applications over 14 feet. Remote power supply option available.

4. SafeSite® and Vigilant® Low Bays
   For hazardous and non-hazardous lower ceiling indoor or outdoor applications where wider light distribution is critical, boilers and basements specifically.

5. StreetSense® Street Light
   For plant maintained roadways and general outdoor illumination

6. SafeSite® and DuroSite® Flood Lights
   For hazardous and non-hazardous indoor or outdoor flood lighting applications; multiple beam patterns available

7. Reliant™ High Bay
   For indoor, light industrial applications and lighter-duty areas of heavy industrial facilities, such as warehouses

8. Vigilant® High Output High Bay
   For high ceiling high bay applications typically 40 feet or above

9. SafeSite® and Vigilant® LP/TC Linears
   For hazardous and non-hazardous indoor or outdoor fluorescent strip/vaportite replacements, task or inspection lighting, electrical rooms, shops, and process areas. 4ft and 2ft versions available

10. Vigilant® Dual Floodlight
    For indoor or outdoor high power flood applications (typical 1,000 watt or better HID replacement)

*Ask about our retrofit adapters to save labor by retrofitting to existing HID infrastructure
CASE STUDY  
NLMK Pennsylvania  
Sharon, Pennsylvania

To keep the operation well-illuminated 24/7, the facility runs more than 10,000 lights throughout production, warehouse and inspection areas, in roadways, waterways and perimeter security lighting. Just 6 years ago, the entire facility relied on a mix of conventional HID lights, including high pressure sodium and mercury vapor, with a few fluorescents in key areas. Because of the heavy industrial environment and the failure-prone nature of the HID bulbs and fixtures, electrical crews were continuously bogged down with lighting maintenance. “If we got two years out of the lights, we were happy, but they were very dim,” said Jeff Stidham, NLMK facilities maintenance manager at the site. “Changing the bulbs was extremely difficult and required that we take production equipment and cranes offline, which cut severely into plant operations.”

Determined to find a better solution to reduce both the cost and the headache, Stidham began investigating LED lighting as an alternative to the conventional HIDs. He invited several companies to come in and run a 6-8 month trial with test fixtures throughout the plant. “Dialight was hands-down our top pick,” Stidham said. “We especially liked the heavy duty aspect of the fixtures, because we needed something that could hold up to the steel mill environment. This is where Dialight blew everyone out of the water.” NLMK placed an initial order of 800 Dialight LED High Bays for its hot mill area, thus kicking off a full plant-wide conversion that’s now in its 6th year. Stidham estimates the facility is roughly 40% converted to Dialight LED, with a total fixture count nearing approximately 5,000 Dialight LEDs in place. So far, the plant has already saved at least $50,000 annually on maintenance, and Stidham says it could be perhaps as much as $100,000. In addition to the mass quantity of High Bays in the rolling and other production areas, Stidham says their other “favorite” fixture and most popular are the 70W Area Lights, which was one of the first test products installed at the facility. After just 4 months in place, the Area Lights were enough to prompt the 2nd largest retrofit project in the plant – a street lighting upgrade using nearly 400 Dialight StreetSense fixtures.

- Upgraded from over 10,000 HID lights including mercury vapor, HPS, fluorescent & incandescent
- Upgraded to a variety of Dialight LED High Bays, Area Lights, Linears, StreetSense street lights & RTO fixtures
- At least $100,000 annual maintenance & energy savings so far

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CASE STUDY  
Mining operator  
Western Australia

Located in a remote part of Western Australia where weather conditions are hot and dusty, a new iron ore mine has just been commissioned producing high quality ore that is shipped to steel makers around the world. As with any mine, appropriate lighting is a key component to safe operations, for both processing and non-processing infrastructure. Initially, the electrical engineering company tasked with electrical design and product selection opted to run with traditional HID light fittings as part of the Lighting solution. The tender was then released and won by Crushing Services International (“CSI”), based on cheaper, less efficient traditional HID luminaires. The challenge for Dialight was to provide a more efficient solution whilst keeping within the budget constraints.

Swayed by the Dialight advantage, CSI chose our DuroSite products for their durability, energy efficiency, five-year full-performance warranty, long-term reduction in operational and maintenance cost, and proven performance in rugged conditions. For example, the advanced optics and light efficacy of the DuroSite Conveyor Lights offered increased spacing between luminaires on conveyors, resulting in fewer fixtures being used overall, further reducing energy and maintenance related costs. In addition, Dialight’s DuroSite Emergency Shower Safe Luminaire and DuroSite Bulkhead Emergency Lighting closed the loop on their fully integrated emergency lighting system. With over 1,500 DuroSite units installed to outfit the entire site with Dialight luminaires, the company saw a 50% reduction in energy consumption compared to the HID lighting they initially planned to install.

- Upgraded to DuroSite High Bays, Bulkhead Emergency Lighting, Bulkhead Luminare, Emergency Shower Safe Luminaire, Conveyor Lights, and Area Light Gen II
- >50% increase in efficiency
- Increased safety
- Emergency lighting integration
- Five-year warranty
- Minimal maintenance
PRODUCT PORTFOLIO

High Bays

**VIGILANT® HIGH BAY**
For use in hazardous classified high bay applications where chemical vapors or explosive dusts are present. See technical spec sheet for applicable certifications.

**SAFESITE® HIGH BAY**
For use in hazardous classified high bay applications where chemical vapors or explosive dusts are present. See technical spec sheet for applicable certifications.

**RELIANT™ HIGH BAY**
For use in indoor non-hazardous applications to replace either HID or Fluorescent fixtures. Replaces up to 1,000 watts with harsh environment protection. No loss of a concern.

**VIGILANT® HIGH OUTPUT HIGH BAY**
For use in high output or high ceiling non-hazardous indoor and outdoor high bay applications. Replaces up to 1,500 watt traditional HID fixtures with mounting heights up to 100’.

**VIGILANT® LOW BAY**
For use in outdoor lower mounting height high bay applications where wider light distribution is required. Replaces up to 250+ watt traditional HID fixtures.

**SAFESITE® LOW BAY**
For use in lower mounting height hazardous high bay applications where chemical vapors or explosive dusts are present. See technical spec sheet for applicable certifications.

**WARNING - INSTALLATION & SECONDARY RETENTION.** Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting appropriate to the installation environment when applicable in the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Certification</th>
<th>Fixture Lumens</th>
<th>Wattage</th>
<th>In/W</th>
<th>CCT</th>
<th>Lens</th>
<th>Beam Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEUTMC2ANWNNWN</td>
<td>UL 1598A, CSA</td>
<td>11,250</td>
<td>80</td>
<td>141</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HEUTMC2BNWNNWN</td>
<td>UL 1598A, CSA</td>
<td>14,250</td>
<td>102</td>
<td>140</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HEUTMC2NNWNNWN</td>
<td>UL 1598A, CSA</td>
<td>19,500</td>
<td>129</td>
<td>151</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HEUTMC2ENNWNWN</td>
<td>UL 1598A, CSA</td>
<td>26,250</td>
<td>186</td>
<td>141</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HED7MC2ANWNNWN</td>
<td>UL 844 (CD2)</td>
<td>11,250</td>
<td>80</td>
<td>141</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HED7MC2BNWNNWN</td>
<td>UL 844 (CD2)</td>
<td>14,250</td>
<td>102</td>
<td>140</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HED7MC2NNWNNWN</td>
<td>UL 844 (CD2)</td>
<td>19,500</td>
<td>129</td>
<td>151</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HED7MC2ENNWNWN</td>
<td>UL 844 (CD2)</td>
<td>26,250</td>
<td>186</td>
<td>141</td>
<td>5000K (cool white)</td>
<td>Glass - Clear</td>
<td>Medium</td>
</tr>
<tr>
<td>HEUC7MC2NHNWNWN</td>
<td>UL 844 (CD1)</td>
<td>23,500</td>
<td>186</td>
<td>126</td>
<td>5000K (cool white)</td>
<td>Clear Tempered Glass</td>
<td>Circular</td>
</tr>
<tr>
<td>RHU5MC2FDCNNWN</td>
<td>UL 1596A, CSA</td>
<td>26,400</td>
<td>190</td>
<td>133</td>
<td>5000K (cool white)</td>
<td>Diffused Polycarbonate</td>
<td>Medium</td>
</tr>
<tr>
<td>RHU5MC2HDCNNWN</td>
<td>UL 1596A, CSA</td>
<td>31,500</td>
<td>239</td>
<td>132</td>
<td>5000K (cool white)</td>
<td>Diffused Polycarbonate</td>
<td>Medium</td>
</tr>
<tr>
<td>LEEULUC2NBNNWN</td>
<td>UL 1598A, CSA</td>
<td>9,000</td>
<td>80</td>
<td>113</td>
<td>5000K (cool white)</td>
<td>Polycarbonate Dome - Diffused</td>
<td>Ultra Wide</td>
</tr>
<tr>
<td>LEDULUC2NBNNWN</td>
<td>UL 844 (CD2)</td>
<td>9,000</td>
<td>80</td>
<td>113</td>
<td>5000K (cool white)</td>
<td>Polycarbonate Dome - Diffused</td>
<td>Ultra Wide</td>
</tr>
</tbody>
</table>

*Occupancy Sensor models available. Consult product spec sheet for more information.*

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www.dialight.com

*Image 36x701 to 114x781*

11
### PRODUCT PORTFOLIO Area Lights

**VIGILANT® AREA LIGHT**

This extremely versatile fixture series can be used in non-hazardous indoor and outdoor applications. Designed for ease of installation, this product line features quick install retrofit kits that support many legacy HD fixtures. See technical spec sheet for more information and additional accessories.

<table>
<thead>
<tr>
<th>Component</th>
<th>Wattage</th>
<th>CCT</th>
<th>Beam Distribution</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL5-VIB</td>
<td>52</td>
<td>5000K (cool white)</td>
<td>360°</td>
<td>Wall, Ceiling</td>
</tr>
<tr>
<td>UL 844</td>
<td>40</td>
<td>5000K (cool white)</td>
<td>3/4° NPT</td>
<td>Wall, Ceiling</td>
</tr>
<tr>
<td>KPC-100</td>
<td>50</td>
<td>5000K (cool white)</td>
<td>360°</td>
<td>Wall, Ceiling</td>
</tr>
</tbody>
</table>

**SAFESITE® AREA LIGHT**

For use in hazardous classified applications where chemical vapors or explosive dusts are present. Designed for ease of installation, this product line features quick install retrofit kits that support many legacy HD fixtures. See technical spec sheet for hazardous certifications and more information on additional accessories.

<table>
<thead>
<tr>
<th>Component</th>
<th>Wattage</th>
<th>CCT</th>
<th>Beam Distribution</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS4-VIB</td>
<td>45</td>
<td>5000K (cool white)</td>
<td>360°</td>
<td>Wall, Ceiling</td>
</tr>
<tr>
<td>LPWB-100</td>
<td>100</td>
<td>5000K (cool white)</td>
<td>360°</td>
<td>Wall, Ceiling</td>
</tr>
<tr>
<td>3W</td>
<td>3W</td>
<td>5000K (cool white)</td>
<td>360°</td>
<td>Wall, Ceiling</td>
</tr>
</tbody>
</table>

### PRODUCT PORTFOLIO Area Light Accessories

**AREA LIGHT RETROFIT KITS**


**AREA LIGHT MOUNTING ACCESSORIES**

The Area Light has always been extremely versatile and now with our new Universal Mounting Adapter (HZXUMA), it provides even greater flexibility by allowing you to modify stock you have on-hand to configure based on your needs. All available in Class I, Div. 2, Class II, and Class III certified options.

### Technical Specifications

**For more details on product specifications including mounting information, please visit www.dialight.com.**

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PRODUCT PORTFOLIO

Floodlights

**VIGILANT® DUAL FLOODLIGHT**
Round high lumen dual floodlight to replace up to 1500 watt HID units in non-hazardous areas. See technical spec sheet for more information on additional accessories, optical patterns, and hazardous certified options.

| Ideal for: | GENERAL FLOOD LIGHTING | RAIL YARDS |

**SAFESITE® 10/15K FLOODLIGHT**
Traditional square flood light designed to replace 250 watt and 400 watt HID units in hazardous areas. See technical spec sheet for information on additional accessories and optical patterns.

**STREETSENSE® STREET LIGHT**
For use in plant maintained roadways, parking areas and general outdoor illumination.

| Ideal for: | ROADWAYS/PARKING AREAS | CHEMICAL STORAGE |

**PROCESS AREAS**

- **LABORATORIES**
- **WALKWAYS**
- **SHOP AREAS**

Product Specifications:
- Part Number: FDU76C2M5DNNNGN
- Certification: UL 1598 / A
- Fixture Lumens: 5000K (cool white)
- Wattage: 5000K (cool white)
- 15,000 lumens
- 11,250 lumens
- 9,600 lumens
- 7,250 lumens
- 5,000 lumens
- 3,750 lumens

For more details on product specifications, please visit www.dialight.com.

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PRODUCT PORTFOLIO

Linear Lights

**VIGILANT® LP/TC LINEAR**
Now featuring Dialight’s exclusive 10 year warranty. Available in 2ft and 4ft vessels. For use in outdoor hazardous linear and occasionally flood lighting applications.

**SAFESITE® LP/TC LINEAR**
Now featuring Dialight’s exclusive 10 year warranty. Available in 2ft and 4ft vessels. For use in indoor and outdoor hazardous certified linear and occasionally flood lighting applications where chemical vapors or explosive dusts are present. CID1 linear available in a different series. Refer to Dialight website for more information.

WARNING – INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting appropriate to the installation environment where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dereliction of its products.

For more details on product specifications, please visit www.dialight.com.

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Battery backup unit

For more details on product specifications, please visit www.dialight.com.
**HAZARDOUS LOCATIONS RATINGS**

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70.

**Classes**

The classes define the general nature of hazardous material in the surrounding atmosphere.

<table>
<thead>
<tr>
<th>Class</th>
<th>Hazardous Material in Surrounding Atmosphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I</td>
<td>Hazardous due to the presence of flammable gases or vapors in the air in quantities to produce explosive or ignitable mixtures</td>
</tr>
<tr>
<td>Class II</td>
<td>Hazardous due to the presence of combustible and/or conductive dusts</td>
</tr>
<tr>
<td>Class III</td>
<td>Hazardous due to the presence of easily ignitable fibers and flyings, such as wood chips, cotton, flax and nylon. Group classifications are not applied to this class</td>
</tr>
</tbody>
</table>

**Divisions**

The division defines the likelihood of hazardous substances being present in ignitable concentrations in the surrounding atmosphere.

<table>
<thead>
<tr>
<th>Division</th>
<th>Presence of Hazardous Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 1</td>
<td>The hazard exists during normal operating conditions</td>
</tr>
<tr>
<td>Division 2</td>
<td>The hazard is present only due to accidental system breakdowns or abnormal operations</td>
</tr>
</tbody>
</table>

**Groups**

The group(s) are determined by the specific hazardous materials which may be present.

<table>
<thead>
<tr>
<th>Group</th>
<th>Hazardous Material in Surrounding Atmosphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td>Acetylene</td>
</tr>
<tr>
<td>Group B</td>
<td>Hydrogen, fuel and combustible process gases containing more than 50% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene oxide, propylene oxide and acrolein</td>
</tr>
<tr>
<td>Group C</td>
<td>Carbon monoxide, methyl ether, hydrogen sulfide, methyl acetylene, cyclopropane, ethyl and ethylene or gases of equivalent hazard</td>
</tr>
<tr>
<td>Group D</td>
<td>Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard</td>
</tr>
</tbody>
</table>

Class II Groups

| Group E | Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment |
| Group F | Carbonaceous dusts that have more than 8 percent total entrapped volatiles or that have been sensitized by other materials so that they present an explosion hazard. Coal, carbon black, charcoal, and coke dusts are examples of carbonaceous dusts |
| Group G | Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals |

Reference: 2020 NEC Code

**WARNING / DISCLAIMERS:**

Installation & secondary retention. The use of this product without proper installation (including secondary retention / netting) and periodic inspections, could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) as applicable. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for ensuring the suitability of Dialight products for any given installation requirement. It is the exclusive responsibility of the installer, contractor and/or end-user to: (a) ensure that the product is safely installed (with secondary retention / netting as appropriate) and in compliance with all applicable laws and regulations. Product specifications & warranties. All product information provided is, to the best of Dialight’s knowledge, accurate as of the date of publication. All values and performance data herein are design or typical values when measured under laboratory conditions. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and terms and conditions of use/purchase. Unless agreed otherwise in writing by an authorized representative of Dialight, Dialight does not represent that its products are fit for any particular purpose and accepts no liability for the installation and/or unauthorised use of its products. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranties. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at www.dialight.com as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document and information provided at www.dialight.com, the latter shall prevail.

Exclusion of liability. To the extent permissible under the relevant law, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products. Whilst Dialight has used its reasonable endeavours to ensure the completeness and accuracy of information herein, Dialight does not assume any liability for damages resulting from use of this information or for any third-party representations made in relation to Dialight products.