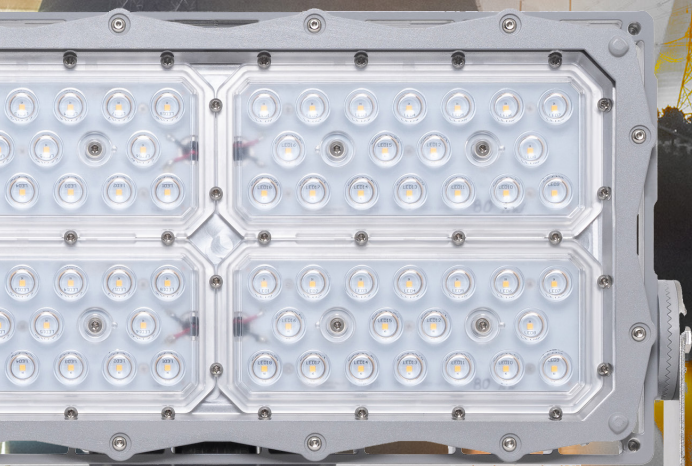
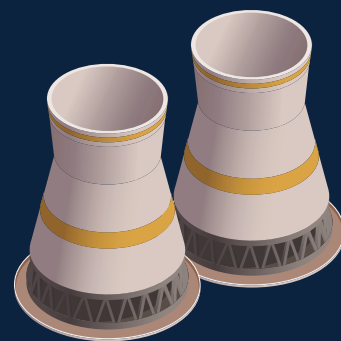


DIALIGHT INDUSTRIAL LED LIGHTING

For Power Generation Applications

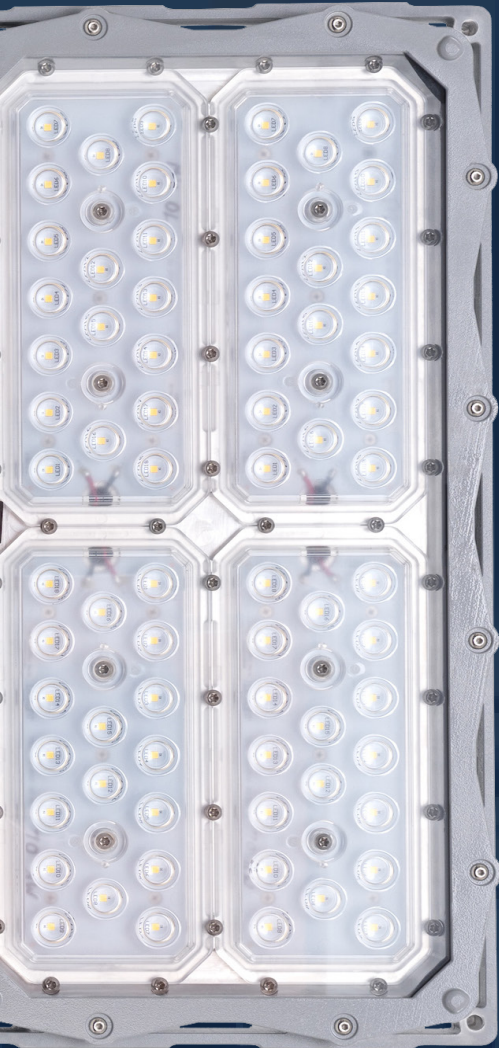


AMERICAS

Dialight

WHY LIGHTING MATTERS in Power Generation Applications

Lighting is of critical importance in Power Generation plants to maximize both safety and productivity. These sites are among the most dangerous places to work due to the presence of volatile chemicals and explosive environments. It is without question that the lighting must be able to prevent and withstand combustible and explosive atmospheres while also providing clear illumination for workers to read color coded safety labels.



Hazardous chemicals



High heat



Confined spaces



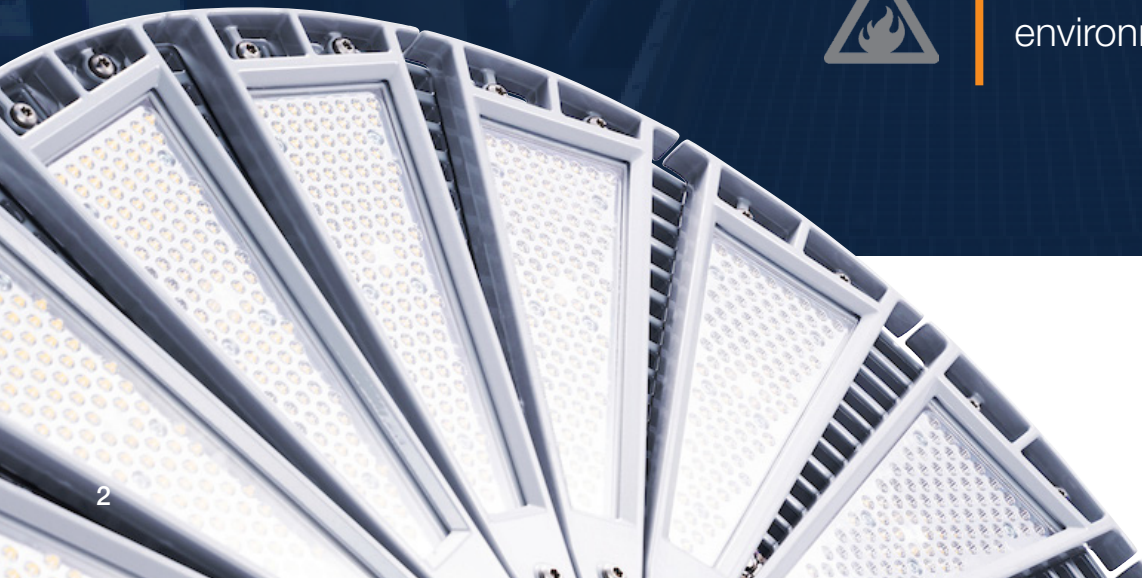
Physical hazards, such as slips, falls, and moving objects



Arc Flash



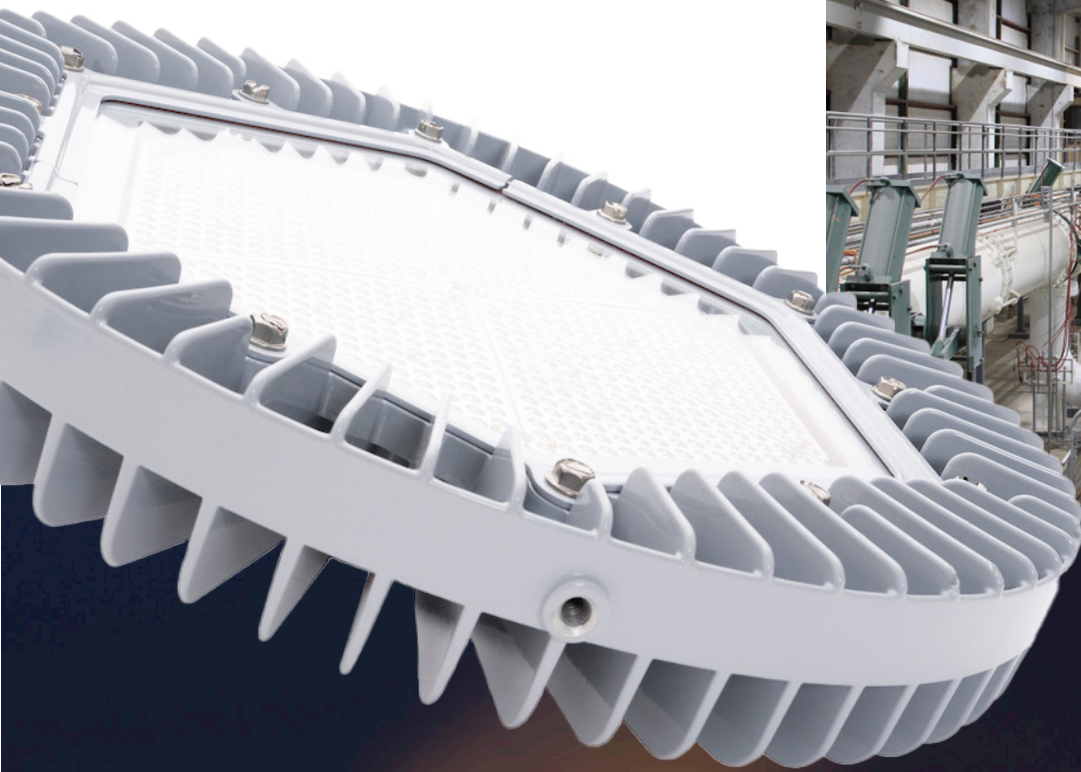
Flammable and explosive environments



THE COST OF POOR LIGHTING

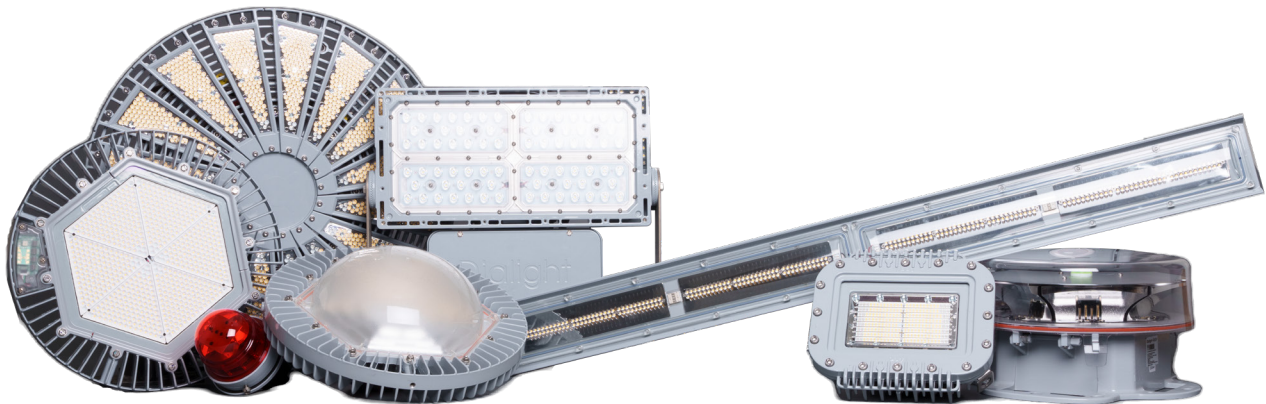
in Power Generation Applications

The Power Generation industry involves 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 Power Generation 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 Power Generation Industry.



WHERE TO USE DIALIGHT PRODUCTS in Power Generation Applications

- TANK FARMS
- TURBINE DECKS (INDOOR & OUTDOOR)
- MAINTENANCE SHOPS
- CHEMICAL STORAGE
- PROCESS AREAS
- COOLING TOWERS AND STACKS
- MCC/ELECTRICAL EQUIPMENT ROOMS
- BOILERS
- CATWALKS
- CONVEYORS (FOR STANCHION MOUNTS)
- WAREHOUSES AND GENERAL AREAS
- GENERAL FLOOD LIGHTING
- COAL HANDLING
- SWITCH YARDS
- CRANES
- MAN DOOR APPLICATIONS

See product portfolio pages for more detailed product and ordering information



DIALIGHT LED SOLUTIONS

When choosing an LED Lighting partner, consider how their products are engineered, constructed and tested prior to making your decision. Dialight is the world leader in industrial LED lighting technology with millions of fixtures installed worldwide. Most Dialight products are backed by a 10-year warranty and specifically designed for harsh environments, including Hydrogen applications.

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.

BUILT FOR DEMANDING ENVIRONMENTS

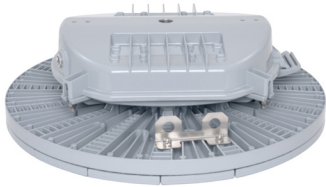
Hazardous location certified. Backed by a 10-year warranty. Designed for total confidence in tough conditions.

APPLICATION GUIDE for Power Generation Sites

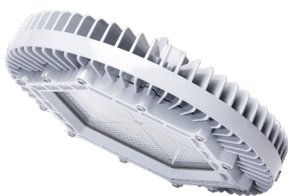
1 **SafeSite® and Vigilant® High Bay**
 For Hazardous location chemical storage and processing



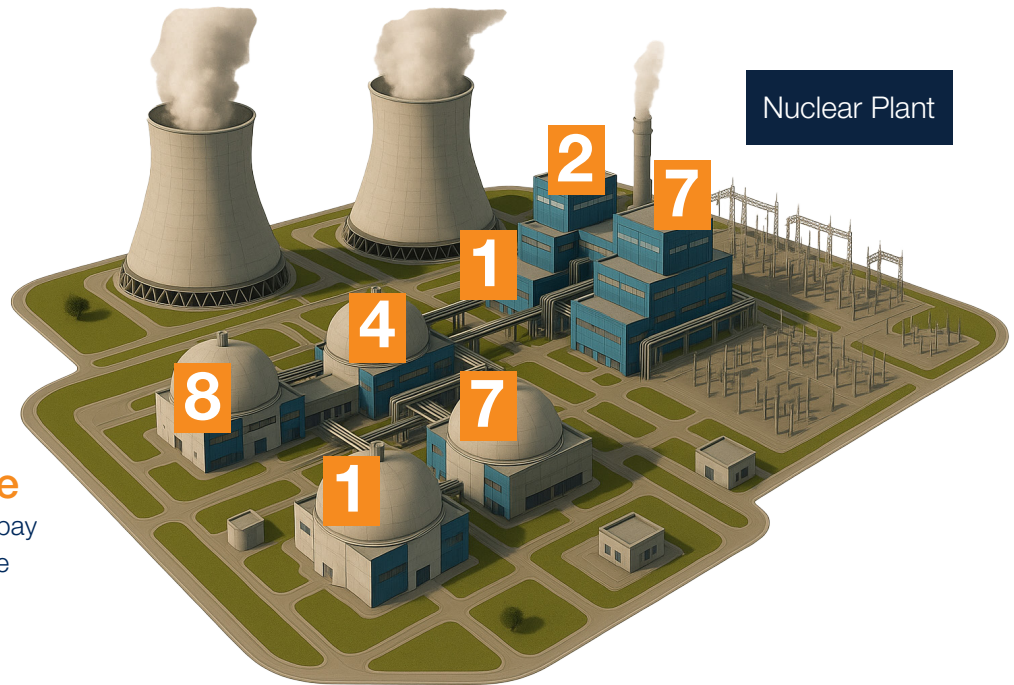
2 **Vigilant® High Output High Bay - Low Profile**
 For non-hazardous high ceiling high bay applications typically 40 feet or above



3 **Hydrogen High Bay**
 For non-hazardous indoor or outdoor high bay applications over 14 feet



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.



Hydroelectric Plant



5 ProSite Floodlight

For non-hazardous and hazardous indoor or outdoor flood lighting applications; multiple beam patterns available



6 ProSite Streetlight and High Mast

For plant maintained roadways and general outdoor illumination



Natural Gas Plant



7 SafeSite® and Vigilant® LP/TC Linear

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



8 SafeSite® and Vigilant® Area Lights

For hazardous and non-hazardous lower ceiling indoor or outdoor process and stanchion mount applications*



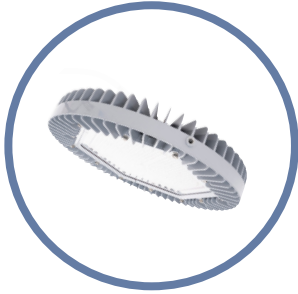
9



Dialight x Swivelpole™ Integrated Solution

Gives you ground-level access to our LED Area Light and LED Bulkhead fixtures.

PRODUCT PORTFOLIO High Bays



VIGILANT® HIGH BAY

For use in non-hazardous indoor and outdoor high bay and occasionally flood lighting applications. Replaces up to 1,000 watt traditional HID fixtures.

Ideally suited for:

STORAGE/WAREHOUSE

MAINTENANCE SHOPS

BOILER ROOM



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.

Ideally suited for:

PROCESS AREAS

CHEMICAL STORAGE

WATER TREATMENT

LOADING/UNLOADING



DUROSITE® HIGH BAY

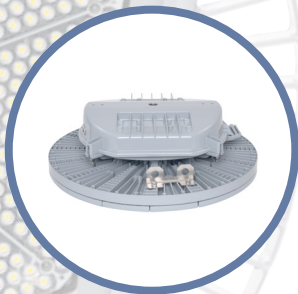
For use in indoor non-hazardous applications to replace either HID or Fluorescent fixtures up to 1,000 watts where harsh environment protection is less of a concern.

Ideally suited for:

STORAGE/WAREHOUSE

MAINTENANCE SHOPS

SHIPPING/RECEIVING



VIGILANT® HIGH OUTPUT HIGH BAY- LOW PROFILE

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'.

Ideally suited for:

STORAGE/WAREHOUSE



VIGILANT® LOW BAY

For use in indoor and outdoor lower mounting height high bay applications where wider light distribution is required. Replaces up to 250+ watt traditional HID fixtures.

Ideally suited for:

WAREHOUSES

MCC/ELECTRICAL ROOMS

MAINTENANCE SHOPS



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.

Ideally suited for:

PROCESS AREAS

CHEMICAL STORAGE

LABORATORIES

LOADING/UNLOADING

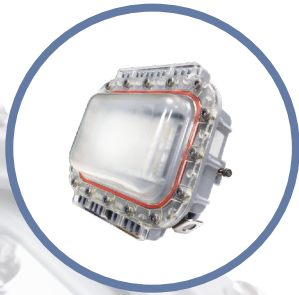
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PRODUCT PORTFOLIO High Bays

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® High Bay							
VEU7MC2ANNWNGN	UL 1598, CSA	11,000	65	169	5000K (cool white)	Glass - Clear	Medium
VEU7MC2BNNWNGN	UL 1598, CSA	13,600	80	170	5000K (cool white)	Glass - Clear	Medium
VEU7MC2CNNWNGN	UL 1598, CSA	17,400	96	181	5000K (cool white)	Glass - Clear	Medium
VEU7MC2ENNWNGN	UL 1598, CSA	23,900	140	171	5000K (cool white)	Glass - Clear	Medium
SafeSite® High Bay							
VED7MC2ANNWNGN	UL 844 (CID2)	11,000	65	169	5000K (cool white)	Glass - Clear	Medium
VED7MC2BNNWNGN	UL 844 (CID2)	13,600	80	170	5000K (cool white)	Glass - Clear	Medium
VED7MC2CNNWNGN	UL 844 (CID2)	17,400	96	181	5000K (cool white)	Glass - Clear	Medium
VED7MC2ENNWNGN	UL 844 (CID2)	23,900	140	171	5000K (cool white)	Glass - Clear	Medium
DuroSite® High Bay							
DAU5WC2EDDNGN	UL 1598, CSA	22,960	177	130	5000K (cool white)	Polycarbonate	Wide
DAU5WC2FDDNGN	UL 1598, CSA	30,330	228	133	5000K (cool white)	Polycarbonate	Wide
DAU5WC2HDDNGN	UL 1598, CSA	34,990	273	128	5000K (cool white)	Polycarbonate	Wide
Vigilant® High Output High Bay							
H7U7MC2KDNNNGN	UL 1598, CSA	46,000	300	153	5000K (cool white)	Glass - Clear	Medium
H7U7MC2NDNNNGN	UL 1598, CSA	61,200	418	146	5000K (cool white)	Glass - Clear	Medium
H7U7NC2RDNNNGN	UL 1598, CSA	70,500	485	145	5000K (cool white)	Glass - Clear	Medium
Vigilant® Low Bay							
VEULUC29NNWNGN	UL 1598, CSA	9,000	60	150	5000K (cool white)	Polycarbonate Dome - Diffused	Ultra Wide
SafeSite® Low Bay							
VEDLUC29NNWNGN	UL 844 (CID2)	9,000	60	150	5000K (cool white)	Polycarbonate Dome - Diffused	Ultra Wide
Hydrogen High Bay							
HEP7MC2ENNWNGN	UL 844 (CID1, Group B Hydrogen)	25,900	185	140	CW	Glass	Medium
HEP7MC2CNNWNGN	UL 844 (CID1, Group B Hydrogen)	28,600	130	143	CW	Glass	Medium

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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 legacy HID fixtures from GE, Crouse, Appleton, Killark and others. See technical spec sheet for more information and additional accessories.

Ideally suited for:

- CATWALKS
- COOLING TOWERS
- LOADING/UNLOADING
- CONVEYORS



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 HID fixture brands. See technical spec sheet for hazardous certifications and more information on additional accessories.

Ideally suited for:

- PROCESS AREAS
- CATWALKS
- CONVEYORS
- LOADING/UNLOADING
- CHEMICAL STORAGE

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Mounting
Vigilant® Area Light								
ALU7BC29DNWNGN	UL 1598/A, CSA, NOM	9,000	66	136	5000K (cool white)	Glass - Clear	360°	3/4" NPT
ALU5BC2ANNWNGN	UL 1598/A, CSA, NOM	10,200	73	140	5000K (cool white)	Diffused Polycarbonate	360°	3/4" NPT
ALU7NC2BNNWNGN	UL 1598/A, CSA, NOM	13,000	77	169	5000K (cool white)	Glass - Clear	Round	3/4" NPT
SafeSite® Area Light								
ALC7BC27NNWNGN	UL 844 (CID1)	7,000	40	135	5000K (cool white)	Clear Tempered Glass	360°	3/4" NPT
ALD7BC29NNWNGN	UL 844 (CID2, CII, CIII)	9,000	40	136	5000K (cool white)	Glass - Clear	360°	3/4" NPT
ALD7BC2ANNWNGN	UL 844 (CID2, CII, CIII)	11,000	52	151	5000K (cool white)	Glass - Clear	360°	3/4" NPT
ALD7NC2BNNWNGN-	UL 844 (CID2, CII, CIII)	13,000	52	169	5000K (cool white)	Glass - Clear	Round	3/4" NPT
Accessories								
HZXW3	316 stainless steel adjustable mounting bracket							

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

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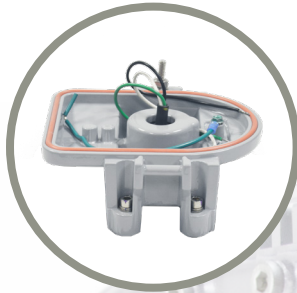
PRODUCT PORTFOLIO Area Light Accessories

With a wide variety of brackets and retrofit kits available, Dialight's versatile Area Light can easily meet the needs of virtually any industrial application, while saving time and money on installation.



AREA LIGHT RETROFIT KITS

Dialight's Area Light series is available with quick install retrofit kits to the following products: Eaton's Crouse-Hinds – Champ®, GE Lighting Solutions – Filtr-Gard™, Holophane Petrolux® II, III, Thomas & Betts Hazlux®, Appleton® Mercmaster III, Appleton® Mercmaster II, and Killark® Certilite® & Certilite® V



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.



DIALIGHT x SWIVELPOLE™ INTEGRATED SOLUTION

Gives you ground-level access to our LED Area Light and LED Bulkhead fixtures.

Area Lights with Retro-fit Adapters



- Eaton's Crouse-Hinds – Champ®
- GE Lighting Solutions – Filtr-Gard™ & Mini-Gard™
- Holophane Petrolux® II, III
- Thomas & Betts Hazlux®
- Appleton® Mercmaster III
- Appleton® Mercmaster II
- Killark® Certilite® & Certilite® V

*Available as factory installed integrated units or as separate parts for on-site customization. Please refer to product specification sheet for ordering information.



UMA Area Light
ALX-xxxx-xxUx-xxN



Stanchion 45°
HZXS45



Wall 45°
HZXW45



Wall 0°
HZXW01



Ceiling
HZXFM



Stanchion 90°
HZXS90 / HZXT90

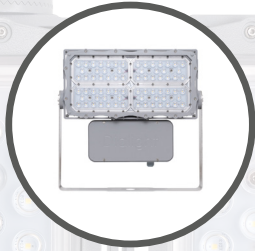


Stanchion 25°
HZXS25

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

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PRODUCT PORTFOLIO Floodlights/Streetlights



**PROSITE FLOODLIGHT
F1 MODEL**

Flood light family designed to replace 250 – 1000W HID units in industrial and hazardous certified areas where chemical vapors or explosive dusts are present. See technical spec sheet for certification information and further details on lumen output options, accessories and optical patterns.

Ideally suited for:

GENERAL FLOOD LIGHTING

RAIL YARDS

PARKING AREAS



**PROSITE FLOODLIGHT
F2 MODEL**

Flood light family designed to replace 250 – 1000W HID units in industrial and hazardous certified areas where chemical vapors or explosive dusts are present. See technical spec sheet for certification information and further details on lumen output options, accessories and optical patterns.

Ideally suited for:

TANK FARMS

WATER TREATMENT

LOADING/UNLOADING

CHEMICAL STORAGE



**PROSITE
HIGH MAST**

Flood light family designed to replace 250 – 1000W HID units in industrial and hazardous certified areas where chemical vapors or explosive dusts are present. See technical spec sheet for certification information and further details on lumen output options, accessories and optical patterns.

Ideally suited for:

TANK FARMS

WATER TREATMENT

LOADING/UNLOADING

CHEMICAL STORAGE



**PROSITE
STREETLIGHT**

For use in plant maintained roadways, parking areas and general outdoor illumination.

Ideally suited for:

ROADWAYS/PARKING AREAS

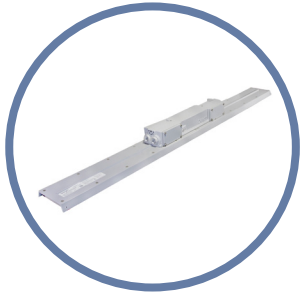
Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
F1 ProSite Floodlight							
F1UN6B2BDENVGN	UL1598/A / CSA	13,200	81	163	5000k (cool white)	Integrated PC	NEMA 6
F1UN6B2CDENVGN	UL1598/A / CSA	19,100	124	154	5000k (cool white)	Integrated PC	NEMA 6
F1UN6B2EDENVGN	UL1598/A / CSA	25,000	175	143	5000k (cool white)	Integrated PC	NEMA 6
F2 ProSite Floodlight							
F2UN6B8LDENVGN	UL1598/A / CSA	51,000	346	147	5000k (cool white)	Integrated PC	NEMA 6
F2UN6B8NDENVGN	UL1598/A / CSA	65,000	484	134	5000k (cool white)	Integrated PC	NEMA 6
ProSite High Mast							
F2UN6B2NDTENVGN	UL1598/A / CSA	65,000	484	134	5000k (cool white)	Integrated PC	NEMA 6
ProSite Streetlight							
S1UNQB2ESTENVGN	UL 1598, CSA	20,250	252	80	5000K (cool white)	Tempered Glass	Type III

Battery Backup and Hazardous Location part numbers available.

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

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PRODUCT PORTFOLIO Linear Lights

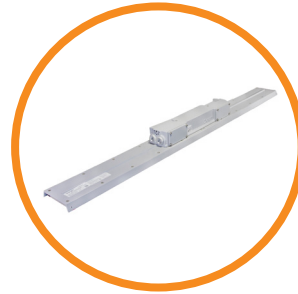


VIGILANT® LP/TC LINEAR

Now featuring Dialight's exclusive 10 year warranty. Available in 2ft and 4ft varieties. For use in indoor and outdoor non-hazardous linear and occasionally flood lighting applications.

Ideally suited for:

- MCC/ELECTRICAL ROOMS
- WALKWAYS
- SHOP AREAS



SAFESITE® LP/TC LINEAR

Now featuring Dialight's exclusive 10 year warranty. Available in 2ft and 4ft varieties. 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.

Ideally suited for:

- LABORATORIES
- PROCESS AREAS

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Low Profile Linear							
LKU4MC27DNNGN	UL 1598/A	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJU4MC25DNNGN	UL 1598/A	4,750	37	128	5000K (cool white)	Clear Polycarbonate	Medium
SafeSite® Low Profile Linear							
LKD4MC27DNNGN	UL 844 (CID2, CIID2, CIII)	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJD4MC25DNNGN	UL 844 (CID2, CIID2, CIII)	4,750	37	128	5000K (cool white)	Clear Polycarbonate	Medium
LSC3C4M3GEX	UL 844 (CID1)	7,250	78	93	5000K (cool white)	Clear Tempered Glass	Medium
LSD3C4MEP*	UL 844 (CID2)	7,000	85	82	5000K (cool white)	Clear Polycarbonate	Medium

*Battery backup unit

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

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CASE STUDY **Midwest Power Plant** Cincinnati, Ohio

The Challenge

Aiming to upgrade its facility-wide lighting to more modern, high-efficiency LED technology, the Power Generation facility in Ohio began comparing options. After all, every watt not consumed on-site represents a revenue-growth opportunity.

Meanwhile, maintenance on the existing HID fixtures had become overwhelming in terms of expense and the time involved. Simply changing a light bulb required two contractors at over \$100 per hour each, along with the use of scaffolding or man lifts that had to be placed into position by a crane. Maintenance workers struggled with limited mobility due to obstructions on the turbine deck, and the entire process was a complex, equipment-heavy and timeconsuming job—just to change a light bulb.

The Dialight Solution

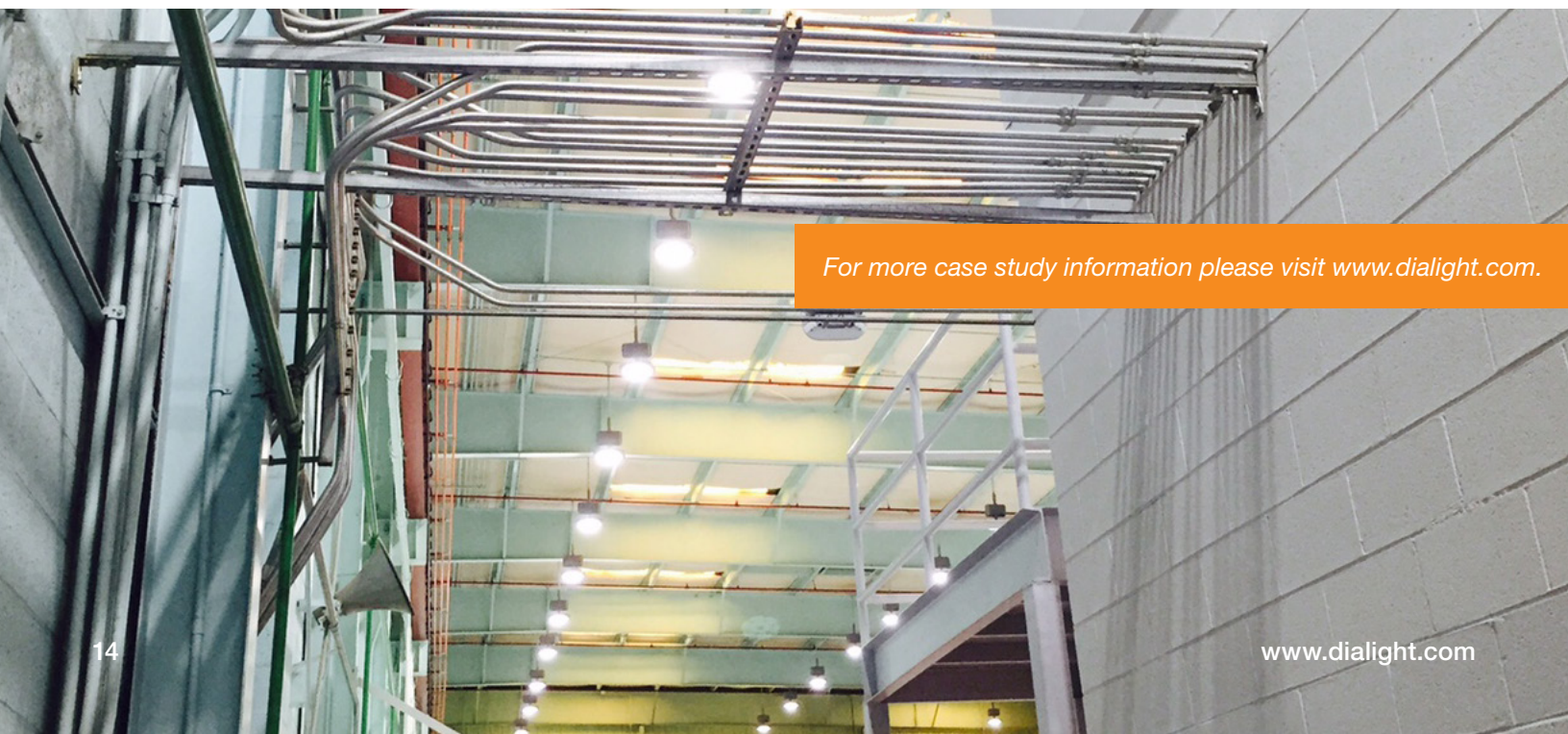
Fed up with the never-ending maintenance routine, the Plant Engineer compared numerous options for the LED upgrade. While competitors clamored to reduce their fixture prices by 6-8 percent, Dialight offered the best temperature tolerance, better optical performance, and zero-maintenance drivers, making it by far the clear best choice. The competitors even offered a “special” warranty, increasing coverage from 5 to 10 years in an attempt to match Dialight’s full-performance 10-year warranty, but it excluded equipment and labor charges in the event of a driver failure, still leaving with a maintenance burden.

“They would give me parts and pieces, but I would have to do the labor,” the Plant Engineer said. “Some areas I would need to build scaffolding or bring in a man lift. I wanted something I’m not going to have to touch. With Dialight, I have a 10-year warranty and I’m probably going to get 10-12 years.”

The Dialight Results

As the total lighting upgrade progresses throughout the plant, energy consumption in the stock room alone has already been slashed by more than 40 percent thanks to the Dialight LEDs, and even without accounting for the use of occupancy sensors that further reduce usage by eliminating the need to keep the lights burning when not needed. Meanwhile, the LED retrofit in the turbine room has reduced energy use by over 6,000kWh.

In addition to maintenance and energy savings, visibility has also improved dramatically throughout the areas where upgrades are complete. “Everyone in the plant says how the new Dialight fixtures are like night and day compared to the previous lights, in terms of light quality and performance,” the Plant Engineer said. “We’re very pleased so far, and are confident in both the product and Dialight’s commitment to ensuring our satisfaction over many years to come.”



For more case study information 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.

Class	Hazardous Material in Surrounding Atmosphere
Class I	Hazardous due to the presence of flammable gases or vapors in the air in quantities to produce explosive or ignitable mixtures
Class II	Hazardous due to the presence of combustible and/or conductive dusts
Class III	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

Divisions

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

Division	Presence of Hazardous Material
Division 1	The hazard exists during normal operating conditions
Division 2	The hazard is present only due to accidental system breakdowns or abnormal operations

Groups

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

Group	Hazardous Material in Surrounding Atmosphere
Class I Groups	
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene oxide, propylene oxide and acrolein
Group C	Carbon monoxide, methyl ether, hydrogen sulfide, methylacetylene, cyclopropane, ethyl and ethylene or gases of equivalent hazard
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard
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

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