

DIALIGHT INDUSTRIAL LED LIGHTING

For Oil & Gas

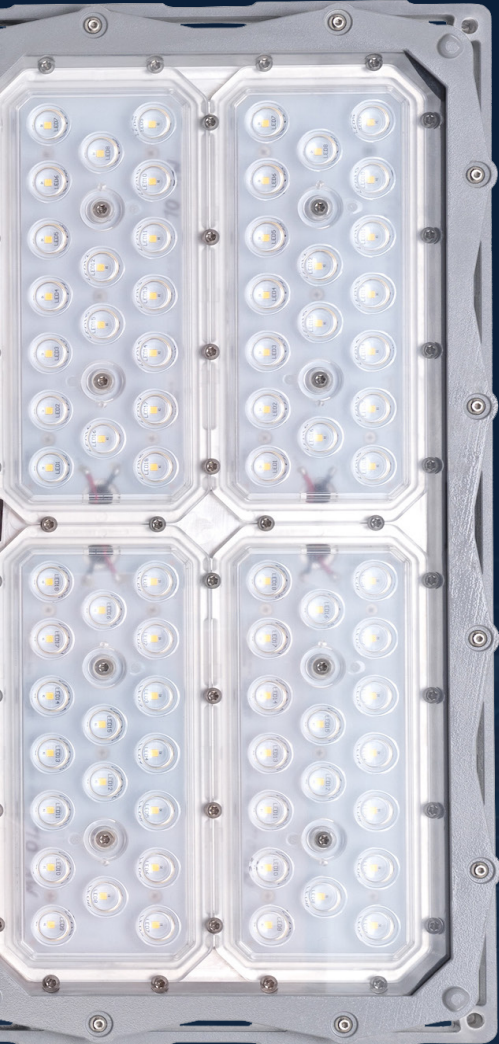


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Dialight
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WHY LIGHTING MATTERS in Oil and Gas Applications

Lighting is of critical importance in Oil and Gas 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 ignitable atmospheres and prevent explosions, while also providing clear illumination for workers to perform tasks safely.



Noisy, complex heavy machinery



High heat and high vibration



Chemical vapors, dust and debris



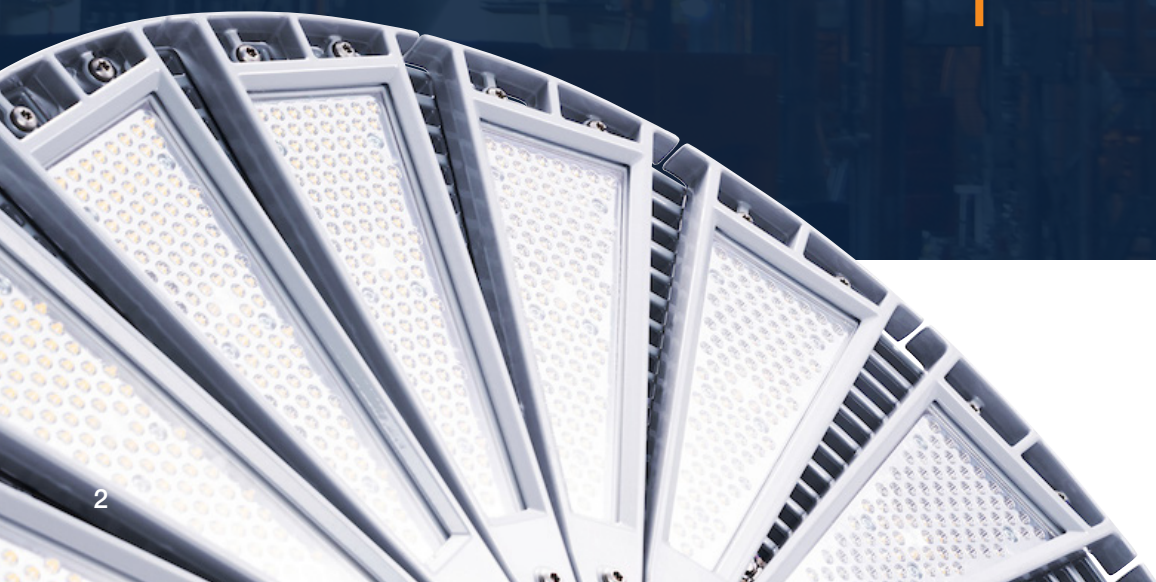
Physical hazards, such as slips, falls, and moving objects



Arc Flash

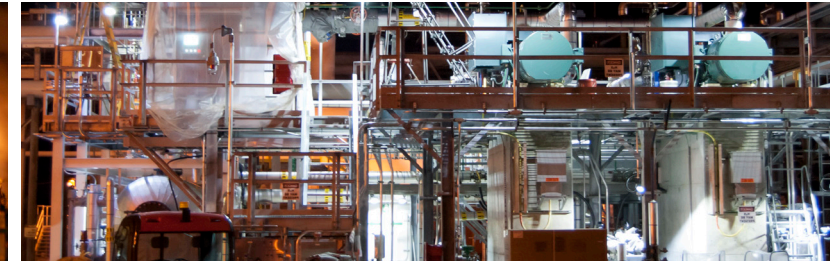


Flammable and explosive environments

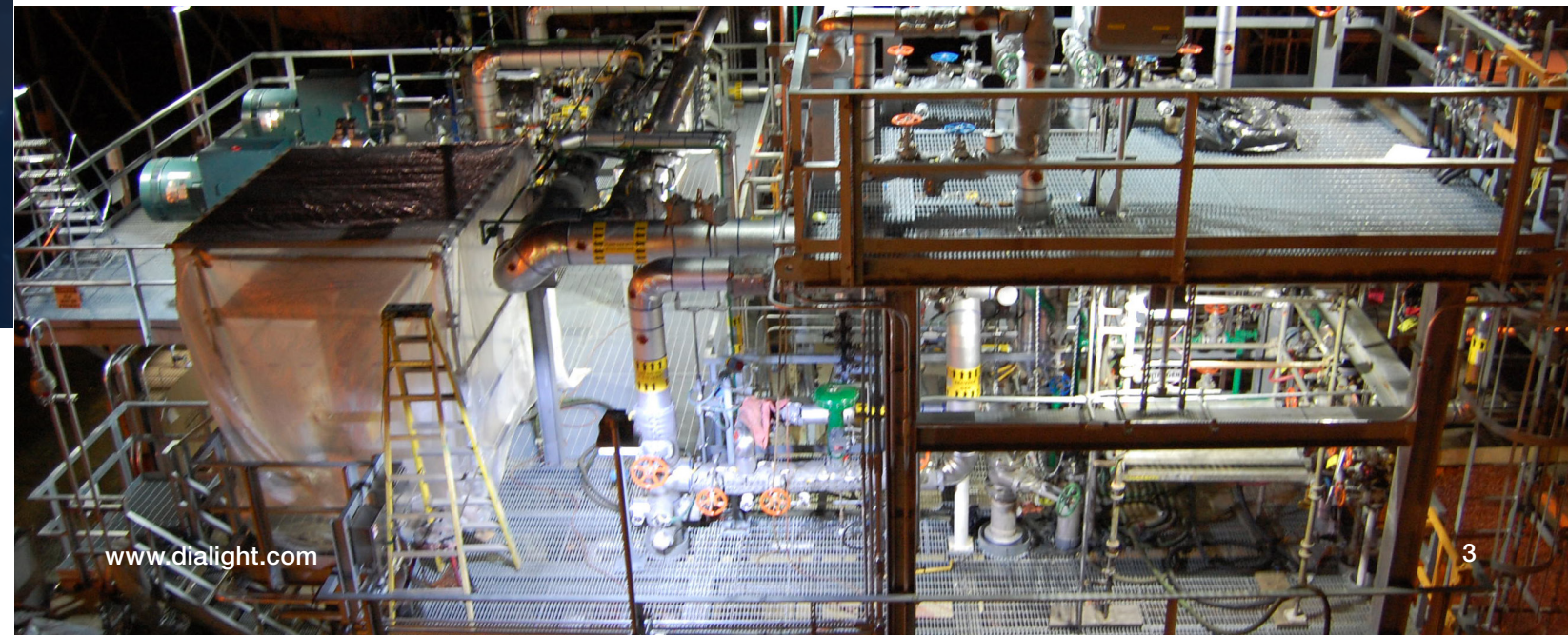


THE COST OF POOR LIGHTING in Oil and Gas Applications

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

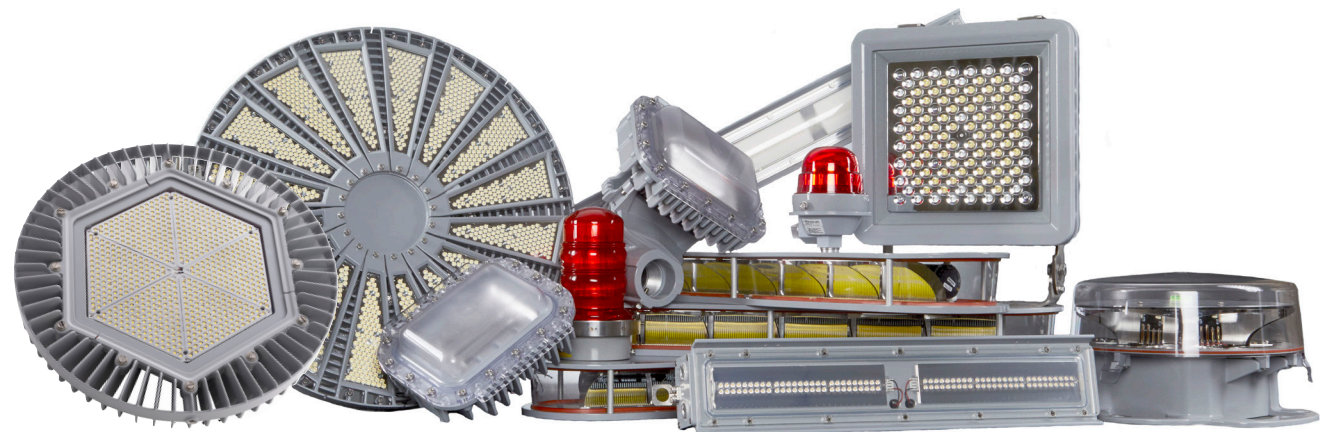


While significant strides have been made by organizations such as OSHA over the past few decades to improve safety, the Oil and Gas industries inherently involve risks and hazards that demand high quality lighting. When choosing a lighting partner for your facilities, care must be taken to ensure their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



DIALIGHT SOLUTIONS for Oil and Gas 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 and applications found within the Oil and Gas Industry.



WHERE TO USE DIALIGHT PRODUCTS in Oil and Gas Applications

UPSTREAM

- DERRICKS
- MUD TANKS
- DRILLING FLOOR
- GENERATORS, PUMPS
- CONTROL HOUSE
- OPERATOR'S HOUSE
- OPEN AREAS
- PERIMETER/SECURITY AREAS

MIDSTREAM & DOWNSTREAM

- STORAGE TANKS, STAIRS/LADDERS
- SWITCHGEAR, SWITCHRACKS
- PERIMETER, SECURITY AREAS
- LOADING RACKS, DOCKS
- PUMPS, MOTORS, MANIFOLDS, VALVES
- PLATFORMS, CATWALKS
- COOLING TOWERS
- FACILITY ROADWAYS

See product portfolio pages for more detailed product and ordering information

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 Oil and Gas 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

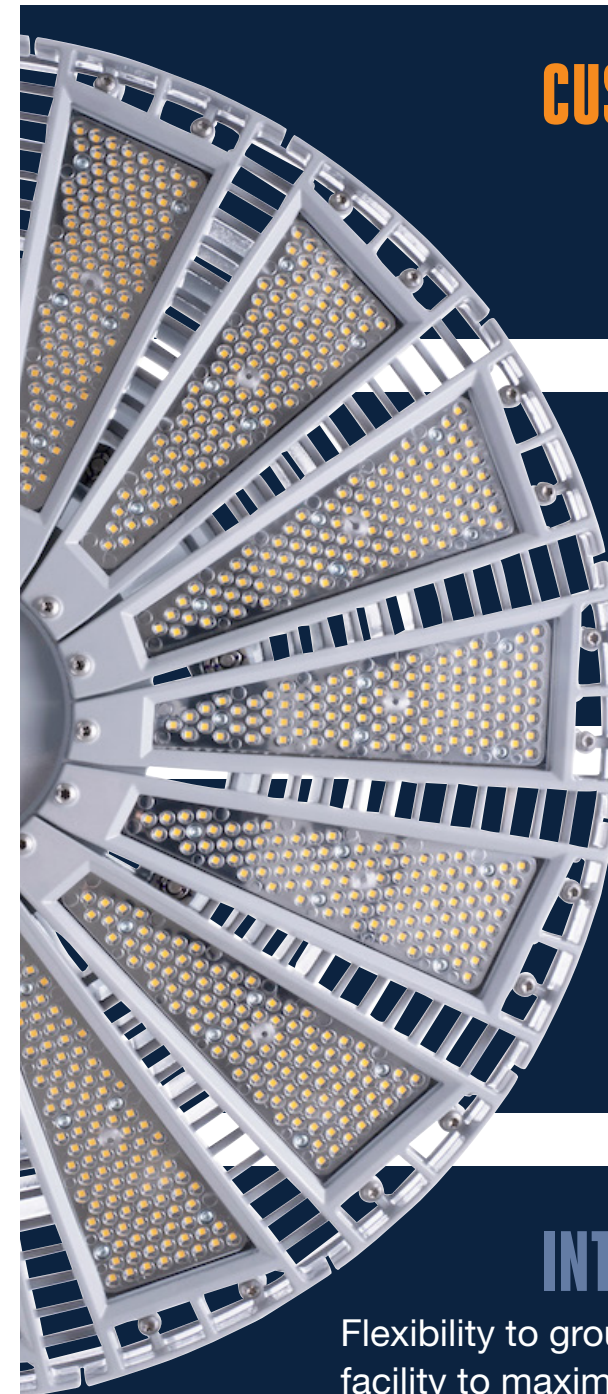
Sealed and optimized to reduce or eliminate the need for maintenance over the life of the fixture. Easy to install and retrofit to existing infrastructure.

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.



APPLICATION GUIDE for Oil and Gas Sites

Upstream



1 SafeSite® High Bay
Hazardous location oil, gas and chemical storage and processing



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



2 SafeSite® and Vigilant® Low Bays
For hazardous and non-hazardous lower ceiling indoor or outdoor applications where wider light distribution is critical



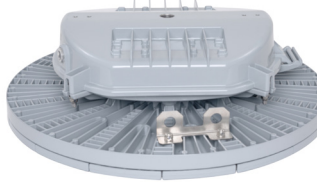
3 ProSite Floodlight F1 Model
For non-hazardous and hazardous indoor or outdoor flood lighting applications; multiple beam patterns available



4 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



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



7 ProSite Floodlight F2 Model
For non-hazardous indoor or outdoor high power flood applications (Typical 1,000 watt or better HID replacement)



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



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



Midstream



Downstream

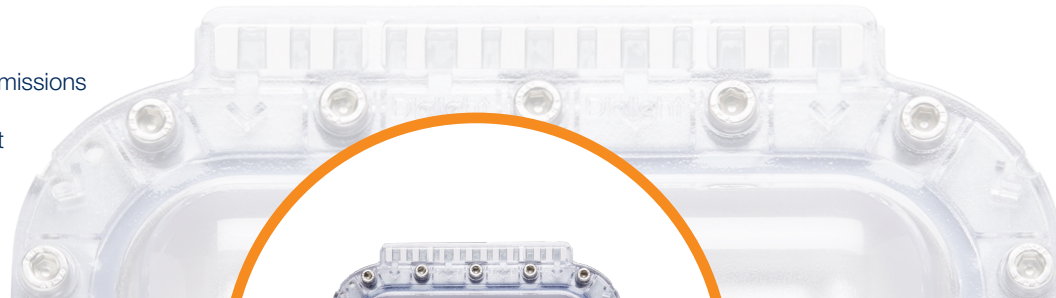


CASE STUDY Valero Refinery San Diego, California

Ever-escalating environmental standards mean that the world's most demanding industrial locations are facing a new set of requirements. Not only do they need smart new lighting ideas and innovative approaches to enhancing safety, they also need lighting that reduces CO₂ emissions, improves energy efficiency and cuts the total cost of ownership. Valero, the largest refiner in North America, partnered with Dialight to implement a new, energy efficient, safe and environmentally friendly lighting approach.

Valero's first priority was safety and improved lighting. As a result, SafeSite provides better visual acuity, reduces eye strain and enables Valero to create an even safer work environment for employees relying heavily on visual judgment in tasks like maneuvering, reading placards or identifying color coded wiring. The new lighting eliminates any need for portable lights to get the job done safely by improving access to the Valero plant equipment as well as improving worker safety with less chance of accidental slips and trips. Light pollution is greatly reduced with SafeSite lighting fixtures which utilize the latest LED technology with proprietary optics designed to focus light directionally so that they illuminate only the required area within the Valero refinery, such as straight walkways, avoiding adjacent and upward light spill. Unlike conventional lights, LEDs achieve 100% light output from the second they are switched on and are rated down to -40°C and still provide 100% of the rated lumen output.

- Fewer lighting fixtures needed
- Shorter installation time
- Reduced energy consumption and CO₂ emissions
- Zero maintenance
- Improved safety from better quality of light
- Minimized light spill
- Cold start capable
- Instant on ability
- Lower cost of ownership



CASE STUDIES Rubis Terminal Rotterdam, The Netherlands

Rubis Group is the fifth largest independent operator in Europe of downstream petroleum and chemical facilities. With a new Rotterdam location, designers were looking for a better solution, aiming to light the new facility with the latest-generation LED fixtures to provide the most energy efficient, safe and reliable illumination. Because of its harbor location, reducing light pollution for the benefit and well-being of both humans and wildlife was also a priority, making Dark Sky-compliant lighting a must. By opting for Dialight's next-generation LED fixtures, Rubis reduced energy lighting consumption, along with the greenhouse gases produced as a result, at the new facility by 60 percent compared to conventional lighting. Based on maintenance expenditures at other similar facilities, the company also saved around 100,000 euros per year on maintenance, for lights that were guaranteed to last, multiplying the annual savings accordingly.

- Installed over 270 ATEX certified and non-certified fixtures
- Sought alternative to failure-prone fluorescent fixtures
- 100,000 euros annual maintenance savings
- Reduced energy consumption 60 percent
- Zero-emissions facility



For more case study information please visit www.dialight.com.

PRODUCT PORTFOLIO High Bays

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



SAFESITE® HIGH BAY

For use in hazardous classified high bay applications where oil, gas and chemical vapors are present. See technical spec sheet for applicable certifications.

Ideally suited for:

PROCESS AREAS

OIL AND GAS STORAGE

LOADING/UNLOADING



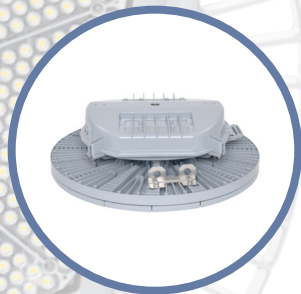
RELIANT™ HIGH BAY

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



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

VERY HIGH MOUNTING HEIGHTS



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 applications where oil, gas and chemical vapors are present. See technical spec sheet for applicable certifications.

Ideally suited for:

PROCESS AREAS

OIL AND GAS STORAGE

LOADING/UNLOADING

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
Reliant™ High Bay*							
RHU5MC2FDCNNGN	UL 1598, CSA	26,400	199	133	5000K (cool white)	Diffused Polycarbonate	Medium
RHU5MC2HDCNNGN	UL 1598, CSA	31,500	239	132	5000K (cool white)	Diffused Polycarbonate	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

*Polycarbonate lens options available. Consult product spec sheet for more information.

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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, PLATFORMS
- STORAGE AREAS, DOCKS
- LOADING/UNLOADING
- DRILLING FLOORS



SAFESITE® AREA LIGHT

For use in hazardous classified applications where oil, gas and chemical vapors 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, PLATFORMS
- COOLING TOWERS, TASK LIGHTING
- LOADING/UNLOADING
- HAZARDOUS STORAGE

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Mounting
Vigilant® Area Light								
ALU5AC26NSNNGN	UL 1598/A, CSA, NOM	5,100	40	128	5000K (cool white)	Diffused Polycarbonate	180°	45° Stanchion
ALU5AC27NWNNGN	UL 1598/A, CSA, NOM	6,600	52	127	5000K (cool white)	Diffused Polycarbonate	180°	45° Wall
ALU7BC29NNWNGN	UL 1598/A, CSA, NOM	9,000	66	136	5000K (cool white)	Clear Tempered Glass	360°	3/4" NPT
SafeSite® Area Light								
ALD5AC26NSNNGN	UL 844 (CID2, CII, CIII)	5,300	40	133	5000K (cool white)	Diffused Polycarbonate	180°	45° Stanchion
ALC7BC26NNWNGN	UL 844 (CID1)	5,400	40	135	5000K (cool white)	Clear Tempered Glass	360°	3/4" NPT
ALD7BC27NVNNGN	UL 844 (CID2, CIII)	7,300	52	140	5000K (cool white)	Clear Tempered Glass	360°	0° Wall
ALD7AC27NSNNGN	UL 844 (CID2, CIII)	7,300	52	140	5000K (cool white)	Clear Tempered Glass	180°	45° Stanchion
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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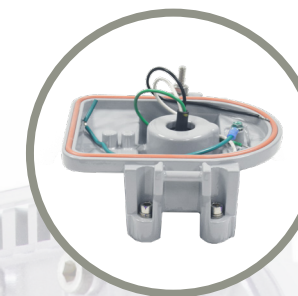
PRODUCT PORTFOLIO Area Light Accessories

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

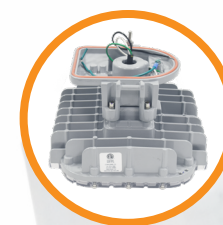
Dialight's Area Light series is available with quick install retrofit kits to the following products: Eaton's Crouse-Hinds – Champ®, GE Lighting Solutions – Filtr-Gard™, Holophane Petrolux® II, III, Thomas & Betts Hazlux®, Appleton® Mercmaster III, Appleton® Mercmaster II, and Killark® Certilite® & Certilite®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

Eaton's Crouse-Hinds – Champ® Retrofit Kit - HZXTHCH					Killark® Certilite® & Certilite® V Retrofit Kit - HZXTHKL				Thomas & Betts Hazlux® Retrofit Kit - HZXHTTB					
Pendant	Ceiling	Wall	Stanchion	Quad Mount	Pendant	Ceiling	Wall	Stanchion	Pendant	Pendant Cone	Flexible Pendant	Ceiling	Wall	
APM2	CM2	TWM2	JM5	QM25	VMA2B & VMA-2	VMX2B & VMX-2	VMB2B & VMB-2	VMD4B	3P	3F	3C	3W	5S	
APM3	CM3	TWM3	PM5		VMA3B & VMA-3	VMX3B & VMX-3	VMB3B & VMB-3	VMD5B	4P	4F		4W	6S	
HPM2					VMC2B & VMC-2	VMX6B, 7B, 8B, 9B		VMS5B					5J, 6J	
Holophane® Petrolux II, III Retrofit Kit - HZXTHP3					Appleton® Mercmaster III Retrofit Kit - HZXTHAP					GE Lighting Solutions – Filtr-Gard™ Retrofit Kit - HZXTHGE				
Pendant	Universal	Stanchion	Ceiling	Wall	Pendant	Ceiling	Wall	Stanchion	Wall	25° Angle Stanchion	25° Angle Stanchion	Straight Stanchion	Straight Stanchion	
PD	UN	SA	CD	WL	KPA- 75, 100	KPC-75	KPWB-75	KPS-125	VB2-VIB	VS4	VS4-VIB	VL4	VL4-VIB	
GH		ST	CE	W	KPAF-75, 100	KPC-100	KPWB-100	KPS-150	VB3-VIB	VS5	VS5-VIB	VL5	VL5-VIB	
P		A	B, C, D		KPCH-75, 100			KPST-125	GE Lighting Solutions – Filtr-Gard™ Retrofit Kit - HZXTHGE					
Appleton® Mercmaster II Retrofit Kit - HZXTHM2					GE Lighting Solutions – Filtr-Gard™ Retrofit Kit - HZXTHGE					GE Lighting Solutions – Filtr-Gard™ Retrofit Kit - HZXTHGE				
Pendant	Ceiling	Wall	Stanchion		Pendant	Ceiling	Wall	Stanchion	Quad Mount					
LPA-75	LPC-75	LPWB-75	LPS-125		3P	3F	3C	3W	5S					
LPA-100	LPC-100	LPWB-100	LPS-150		4P	4F		4W	6S					
													5J, 6J	



UMA Area Light
ALx-xxxx-xxUx-xxN



Stanchion 45°
HZXS45



Wall 45°
HZXW45



Wall 0°
HZXW01



Conveyor
HZXCV34



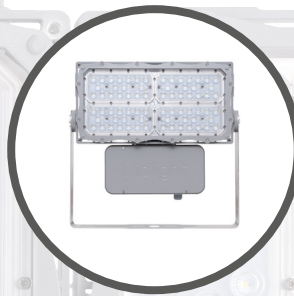
Ceiling
HZXFM

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

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PRODUCT PORTFOLIO Floodlights

PRODUCT PORTFOLIO Linear Lights



PROSITE FLOODLIGHT F1 MODEL



PROSITE FLOODLIGHT F2 MODEL



STREETSENSE® STREET LIGHT

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:

LOADING/UNLOADING

OIL AND GAS STORAGE

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

LOADING/UNLOADING AREAS

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

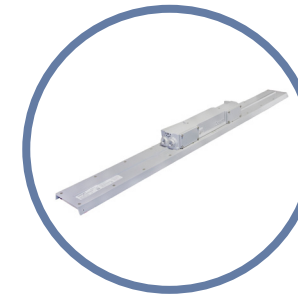
Ideally suited for:

ROADWAYS/PARKING AREAS

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
F1 ProSite Floodlight							
F1D76B2BDENVGN	UL 844 CID2	12,500	81	154	5000k (cool white)	Glass	NEMA 6
F1D76B2CDENVGN	UL 844 CID2	18,000	124	145	5000k (cool white)	Glass	NEMA 6
F1D74B2EDENVGN	UL 844 CID2	23,600	175	135	5000k (cool white)	Glass	NEMA 6
F1D76B2FDENVGN	UL 844 CID2	29,900	234	128	5000k (cool white)	Glass	NEMA 6
F2 ProSite Floodlight							
F2D76B8LDENVGN	UL 844 CID2	48,200	346	139	5000k (cool white)	Glass	NEMA 6
F2D76B8NDENVGN	UL 844 CID2	61,400	484	127	5000k (cool white)	Glass	NEMA 6
StreetSense® Street Light							
SL3C5CLGG	UL 1598, CSA	6,400	62	103	5000K (cool white)	Clear Tempered Glass	Type III
SL3C7ILGG	UL 1598, CSA	15,700	154	102	5000K (cool white)	Clear Tempered Glass	Type III

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VIGILANT® LP/TC LINEAR

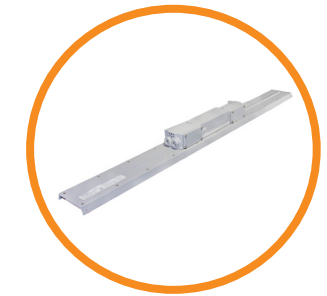
Now featuring Dialight's exclusive 10 year warranty. Available in 2ft and 4ft varieties. For use in indoor and outdoor non-hazardous linear and low mounting height applications.

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 low mounting height applications where explosive gases may be present. CID1 linear available in a different series. Refer to Dialight website for more information.

Ideally suited for:

PIPE RACKS

PROCESS AREAS

DRILLING FLOOR

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Low Profile Linear							
LKU4MC27DNNNGN	UL 1598/A	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJU4MC25DNNNGN	UL 1598/A	4,750	37	128	5000K (cool white)	Clear Polycarbonate	Medium
LKU4MC29DNNNGN	UL 1598/A	9,600	70	137	5000K (cool white)	Clear Polycarbonate	Medium
SafeSite® Low Profile Linear							
LKD4MC29DNNNGN	UL 844 (CID2, CID2, CIII)	9,600	70	137	5000K (cool white)	Clear Polycarbonate	Medium
LKD4MC27DNNNGN	UL 844 (CID2, CID2, CIII)	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJD4MC25DNNNGN	UL 844 (CID2, CID2, 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

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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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