DIALIGHT INDUSTRIAL LED LIGHTING

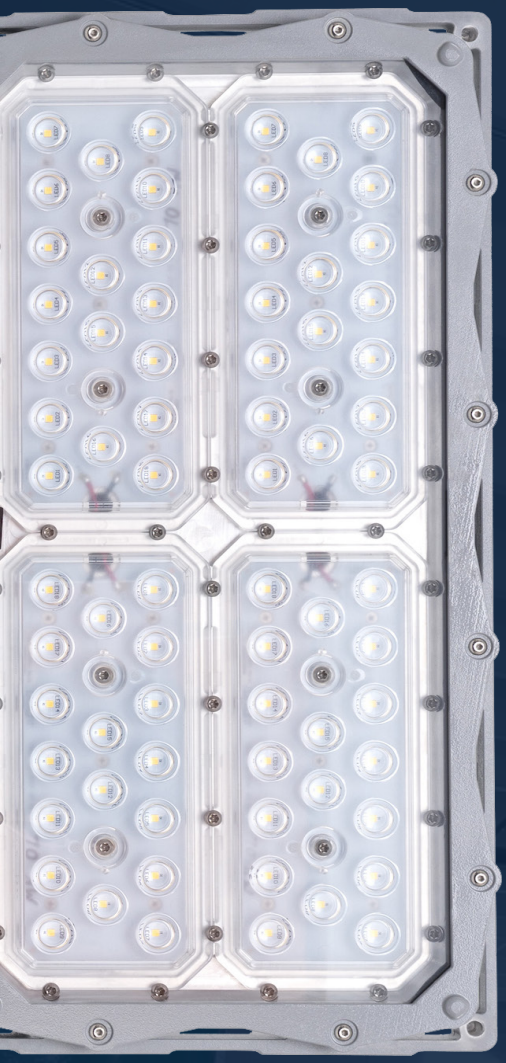
For Chemical & Petrochemical Applications



AMERICAS

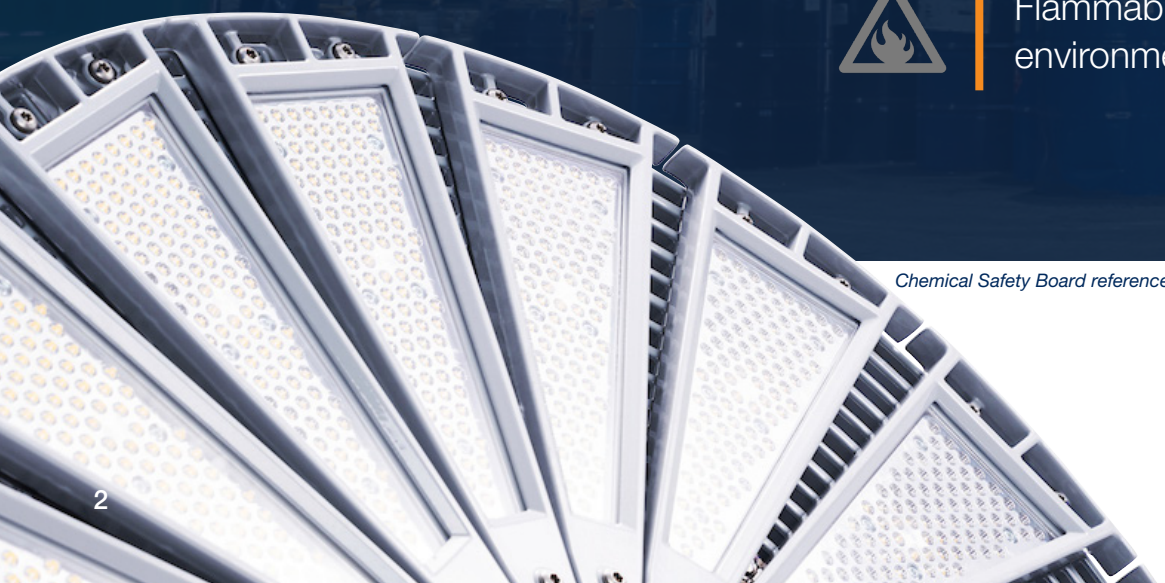
Dialight

WHY LIGHTING MATTERS in Chemical and Petrochemical Applications



Lighting is of critical importance in Chemical and Petrochemical 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. For this reason, and the fact that workers can struggle with fatigue when operating complicated, specialized equipment for long periods of time, the Chemical Safety Board recommends bright white lighting.

- Airborne substances, including caustic chemicals and vapors
- High vibration and humidity
- Noisy, complex heavy machinery
- Physical hazards, such as slips, falls, and moving objects
- Power surges and electric shock
- Flammable and explosive environments



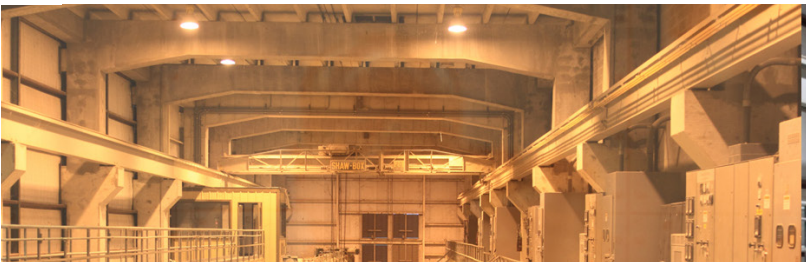
Chemical Safety Board reference: ANSI/API RP 755: Fatigue Risk Management System

THE COST OF POOR LIGHTING in Chem/Petrochem Applications

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

185,400 NON-FATAL INJURIES with **$6.5 BILLION** TOTAL COSTS

250 FATALITIES with **$257 MILLION** TOTAL COSTS





The Chemical and Petrochemical industry involves risks and hazards that demand high quality lighting. What's more, the Chemical and Petrochemical industries have been global leaders in sustainability, offering essential materials and energy, while seeking to reduce harmful emissions. Dialight industrial LED lighting is engineered to maximize safety while minimizing environmental impact. 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 Chemical and Petrochemical 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 Chemical and Petrochemical Industry.



WHERE TO USE DIALIGHT PRODUCTS in Chem/Petrochem Applications

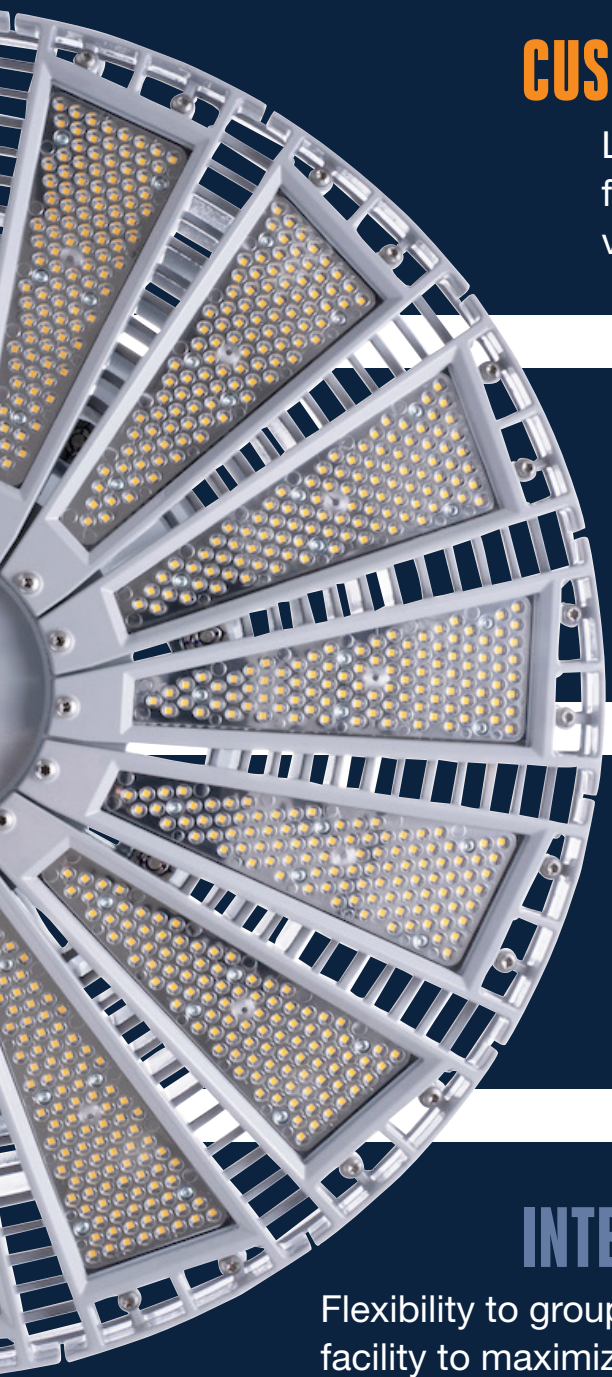
- TANK FARMS
- LABORATORIES
- MAINTENANCE SHOPS
- CHEMICAL STORAGE
- PROCESS AREAS
- COOLING TOWERS
- MCC/ELECTRICAL EQUIPMENT ROOMS
- WATER TREATMENT
- CATWALKS
- CONVEYORS (FOR STANCHION MOUNTS)
- WAREHOUSES AND GENERAL AREAS
- GENERAL FLOOD LIGHTING
- RAIL YARDS
- LOADING/UNLOADING AREAS



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 Chemical and Petrochemical Plants, 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 Chemical and Petrochemical Sites

1 SafeSite® High Bay

Hazardous location chemical storage and processing



2 SafeSite® and Vigilant® Area Lights

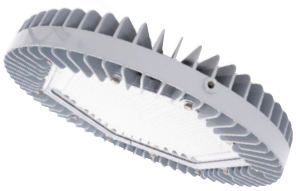
For hazardous and non-hazardous lower ceiling indoor or outdoor process and stanchion mount applications*





3 Vigilant® High Bay

For non-hazardous indoor or outdoor high bay applications over 14 feet



4 SafeSite® and Vigilant® Low Bays

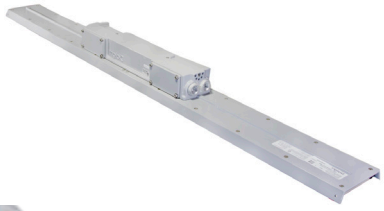
For hazardous and non-hazardous lower ceiling indoor or outdoor applications where wider light distribution is critical

*Ask about our retrofit adapters to save labor by retrofitting to existing HID infrastructure



5 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



6 ProSite Floodlight

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



CASE STUDIES Diamond Vogel *Tulsa, Oklahoma*

Because of the potential for airborne particles and fumes, the Diamond Vogel facility is a Class I Div 2 hazardous environment, which imposes strict requirements on the type of fixtures that could be used safely inside. Not only must they be hazardous certified, but heat is also a concern, as temperatures routinely reach 110° F under the scorching midwestern sun. With over fifty 11,000 lumen, six 14,000 lumen and six 26,000 lumen Class I, Div. 2 SafeSite® High Bays now in place, Production Supervisor Alton Wells says it's "like night and day" inside the facility. To add, they were able to reduce their fixture count by about 10 lights. Because several of the fixtures Diamond Vogel chose included Dialight's standard AC & DC capability, the fixtures could easily be configured into a battery backup system, this not only substantially improved egress and safety lighting, but also cut down on maintenance of the system. Now, the facility has 13 battery backup lights, all wired into a transfer switch and central DC power supply. That means multiple points of safety lighting, with just one point of maintenance.

- Installed 63 Dialight SafeSite High Bay fixtures and 6 linears
- Incandescent lighting maintenance was an ongoing chore
- Poor light quality hindered productivity and quality control
- Class I Div. 2 hazardous environment
- Reduced fixture count by 10



CASE STUDIES OXEA *Bishop, Texas*

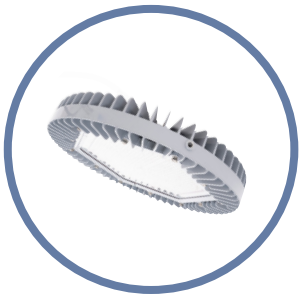
OXEA (formerly OQ Chemicals) is a global producer of oxo chemical products used in coatings, lubricants, cosmetics, and other applications. At its Bishop, Texas facility, the company sought to standardize its lighting to improve operational efficiency, reduce maintenance costs, and support sustainability initiatives. The facility previously relied on seven different types of conventional lighting, resulting in frequent relamping, extensive inventory requirements, and costly maintenance procedures. After evaluating multiple solutions, Oxea selected Dialight industrial LED fixtures for their durability, light quality, and suitability for hazardous environments. The facility standardized on Class I, Division 2 fixtures, replacing more than 300 conventional lights with Dialight products. After nearly seven years, the facility reported no Dialight fixture failures or relamping, resulting in approximately $50,000 in annual maintenance savings. The conversion also improved visibility and worker safety while reducing energy consumption and supporting sustainability goals.

- Replaced seven types of conventional lighting
- Installed more than 300 Dialight LED fixtures
- $50,000 in annual maintenance savings
- Zero Dialight fixture failures in nearly seven years
- Improved visibility, sustainability, and worker safety



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

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

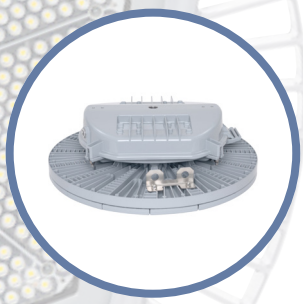


SAFESITE® HIGH BAY

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



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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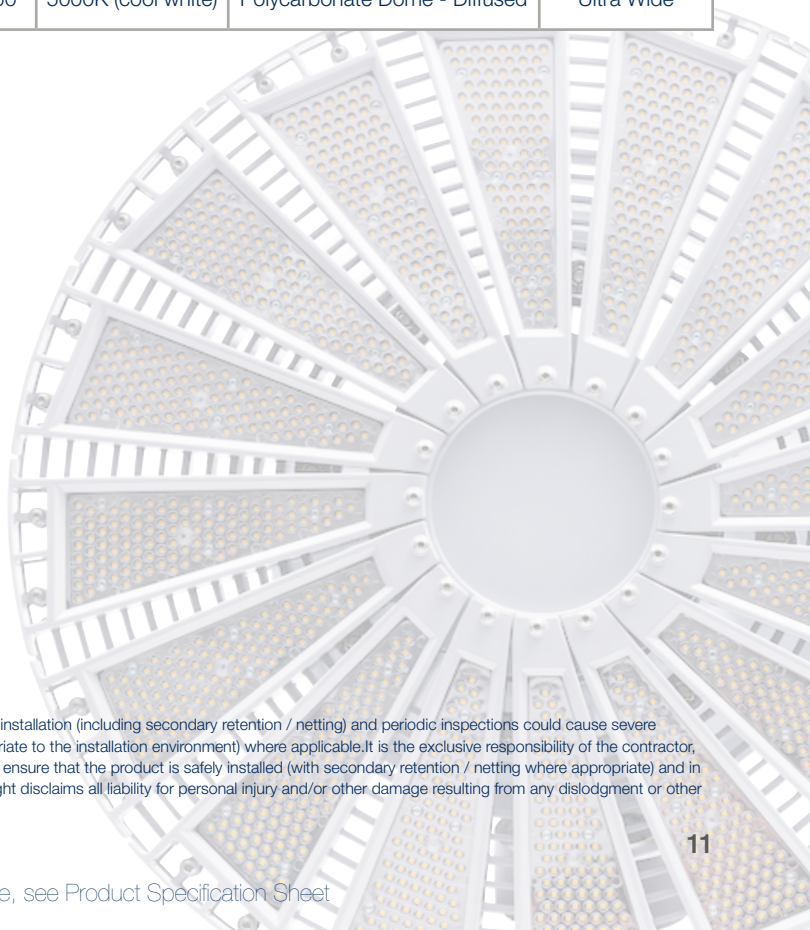
PRODUCT PORTFOLIO High Bays

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
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





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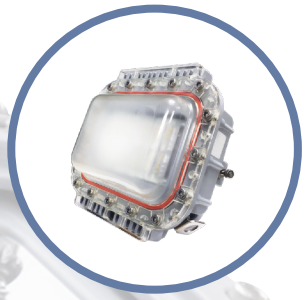
*Occupancy Sensor models available, see Product Specification Sheet

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								
ALU5BC23DSNNGN	UL 1598/A, CSA, NOM	2,800	24	117	5000K (cool white)	Diffused Polycarbonate	360°	45° Stanchion
ALU5BC27DWNNGN	UL 1598/A, CSA, NOM	6,700	52	129	5000K (cool white)	Diffused Polycarbonate	360°	45° Wall
ALU7BC29DNWNGN	UL 1598/A, CSA, NOM	9,000	66	136	5000K (cool white)	Glass - Clear	360°	3/4" NPT
SafeSite® Area Light								
ALD5BC26NSNNGN	UL 844 (CID2, CII, CIII)	5,300	40	133	5000K (cool white)	Diffused Polycarbonate	360°	45° Stanchion
ALC7BC26DNWNGN	UL 844 (CID1)	5,400	40	135	5000K (cool white)	Clear Tempered Glass	360°	3/4" NPT
ALD7BC27DVNNGN	UL 844 (CID2, CIII)	7,300	52	140	5000K (cool white)	Glass - Clear	360°	0° Stanchion
ALD7BC27DSNNGN	UL 844 (CID2, CIII)	7,300	52	140	5000K (cool white)	Glass - Clear	360°	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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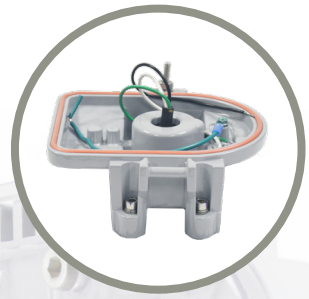
PRODUCT PORTFOLIO Area Light Accessories

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

Pendant	Ceiling	Wall	Stanchion	Quad Mount
APM2	CM2	TWM2	JM5	QM25
APM3	CM3	TWM3	PM5	
HPM2				

Holophane® Petrolux II, III Retrofit Kit - HZXTHP3

Pendant	Universal	Stanchion	Ceiling	Wall
PD	UN	SA	CD	WL
GH		ST	CE	W
P		A	B, C, D	

Appleton® Mercmaster II Retrofit Kit - HZXTHM2

Pendant	Ceiling	Wall	Stanchion
LPA-75	LPC-75	LPWB-75	LPS-125
LPA-100	LPC-100	LPWB-100	LPS-150

Killark® Certilite® & Certilite® V Retrofit Kit - HZXTHKL

Pendant	Ceiling	Wall	Stanchion
VMA2B & VMA-2	VMX2B & VMX-2	VMB2B & VMB-2	VMD4B
VMA3B & VMA-3	VMX3B & VMX-3	VMB3B & VMB-3	VMD5B
VMC2B & VMC-2	VMX6B, 7B, 8B, 9B		VMS5B
VMC3B & VMC-3			
VMF2B, 3B			

Appleton® Mercmaster III Retrofit Kit - HZXTHAP

Pendant	Ceiling	Wall	Stanchion
KPA- 75, 100	KPC-75	KPWB-75	KPS-125
KPAF-75, 100	KPC-100	KPWB-100	KPS-150
KPCH-75, 100			KPST-125
			KPST-150

Thomas & Betts Hazlux® Retrofit Kit - HZXTHTB

Pendant	Pendant Cone	Flexible Pendant	Ceiling	Wall
3P	3F	3C	3W	5S
4P	4F		4W	6S
				5J, 6J

Wall	25° Angle Stanchion	25° Angle Stanchion	Straight Stanchion	Straight Stanchion
VB2-VIB	VS4	VS4-VIB	VL4	VL4-VIB
VB3-VIB	VS5	VS5-VIB	VL5	VL5-VIB

GE Lighting Solutions – Filtr-Gard™ Retrofit Kit - HZXTHGE

Pendant	Ceiling	Wall	Stanchion	Quad Mount
3P	3F	3C	3W	5S
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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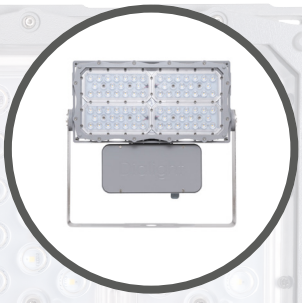
PRODUCT PORTFOLIO Floodlights



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

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

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

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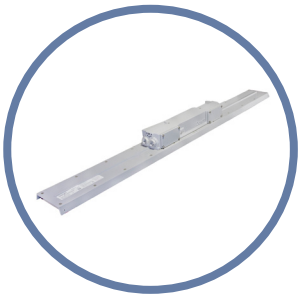
PRODUCT PORTFOLIO Linear Lights

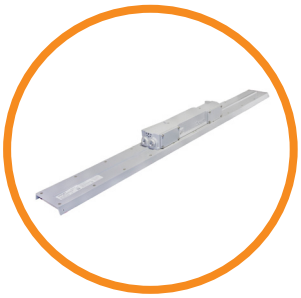


VIGILANT® LP/TC LINEAR

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							
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
SafeSite® Low Profile Linear							
LKD4MC27DNNNGN	UL 844 (CID2, CIID2, CIII)	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJD4MC25DNNNGN	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
Accessories							
LPXW4LP	Low profile mounting bracket, can be angled at 0 and 15 degrees						

*Battery backup unit

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

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 dislocation of its products.

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 ignitible mixtures
Class II	Hazardous due to the presence of combustible and/or conductive dusts
Class III	Hazardous due to the presence of easily ignitible 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 ignitible 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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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 assessing the suitability of Dialight products for any given installation requirement. 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 as appropriate) and in compliance with all applicable laws and regulations.
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