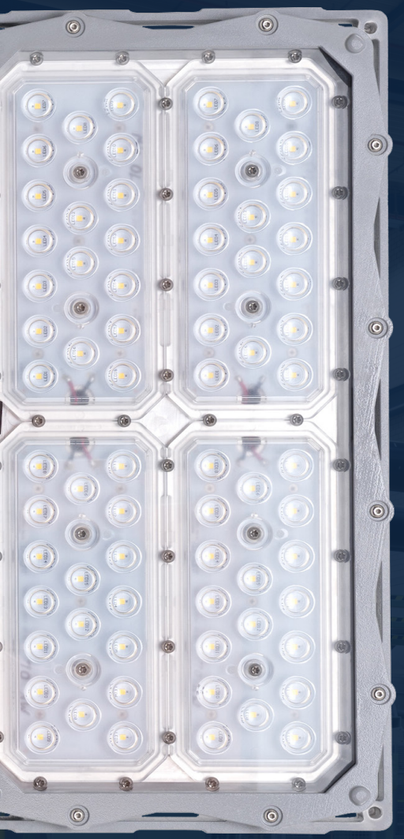
DIALIGHT INDUSTRIAL LED LIGHTING

For Wood, Pulp & Paper

AMERICAS

Dialight

WHY LIGHTING MATTERS in Wood, Pulp & Paper



Lighting is of critical importance in Pulp & Paper facilities to maximize both safety and productivity. Pulp & Paper mills are notorious for harsh environments and conditions that can contribute to premature fixture failure:

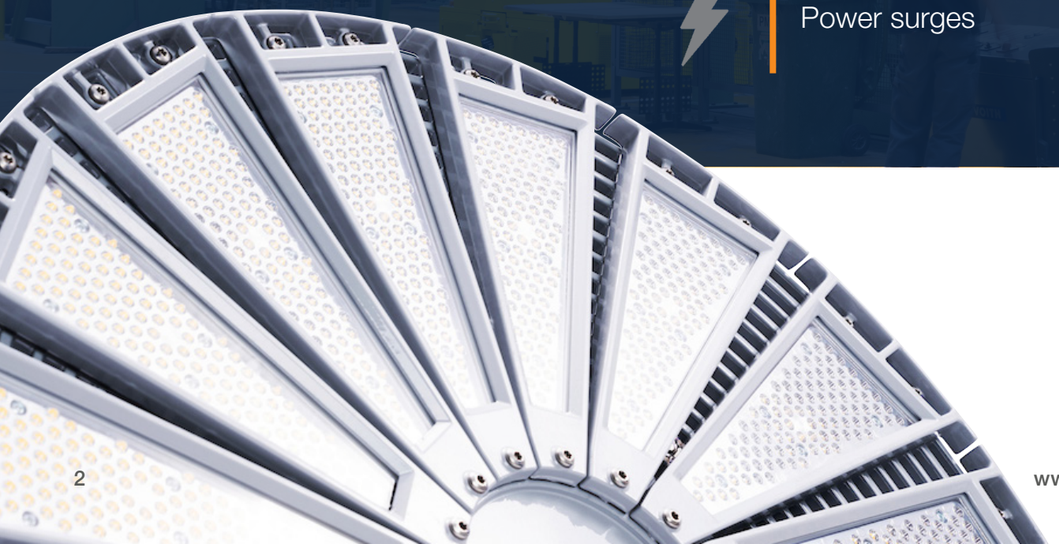
Airborne substances, including caustic chemicals and vapors, and even explosive risks such as wood dusts

High vibration, high heat and humidity

Noisy de-barkers, chippers, and sawmills that lead workers to rely on visual information

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

Power surges



Wood, Pulp & Paper
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THE COST OF POOR LIGHTING in Wood, Pulp & Paper

Poor illumination can contribute to tragic work site accidents and injuries in the Wood, Pulp & Paper sector. Between 2009 and 2018 the US Bureau of Labor statistics cited:

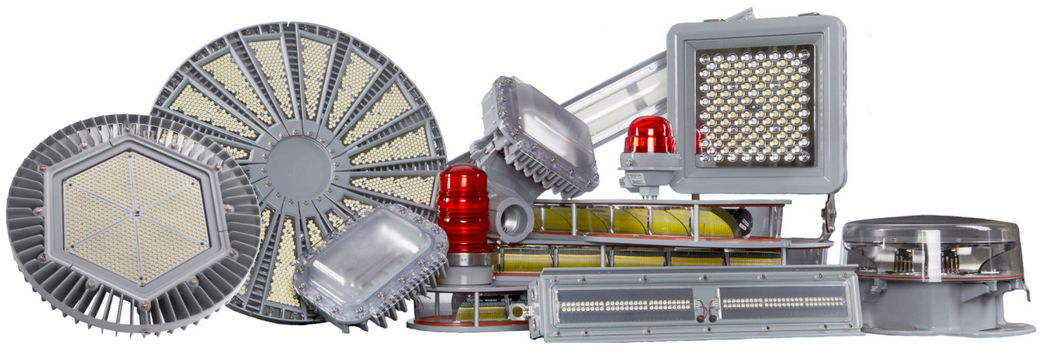
346,600 INJURIES with **$12.2 BILLION** TOTAL COSTS

401 FATALITIES with **$419 MILLION** TOTAL COSTS

The Wood, Pulp & Paper 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.

DIALIGHT SOLUTIONS for Wood, Pulp & Paper

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 the largest selection of rugged, cutting edge products ideally suited for environments found within the Pulp & Paper Industry.



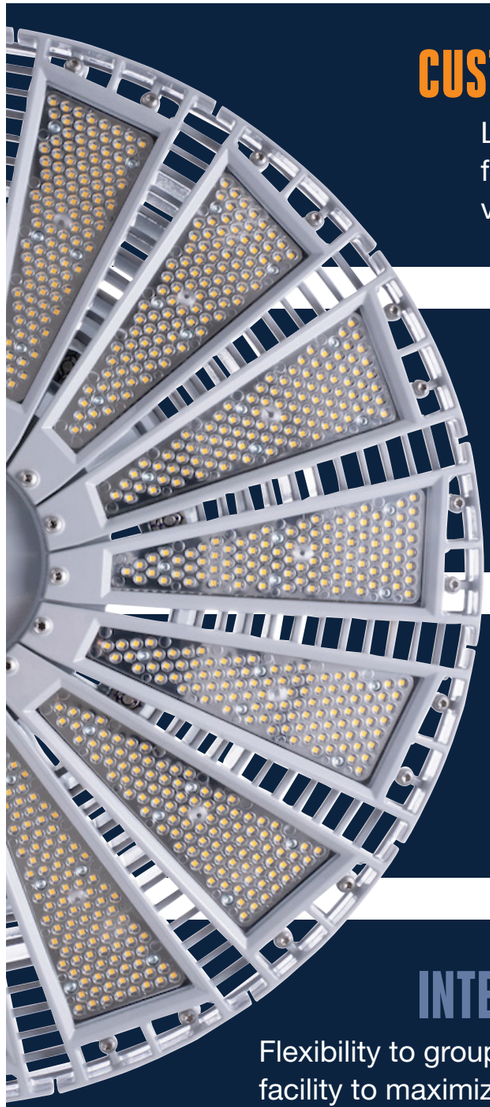
WHERE TO USE DIALIGHT PRODUCTS in Wood, Pulp & Paper

- PAPER MACHINE ROOM (HIGH CEILING)
- BASEMENTS UNDER PAPER MACHINES
- WAREHOUSE, STORE ROOMS, WOOD YARD
- GENERAL FLOOD LIGHTING
- CONVEYORS (FOR STANCHION MOUNTS)
- PROCESS AREA, TANK FARMS, ETC.
- CHEMICAL STORAGE

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 Pulp & Paper facilities, 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

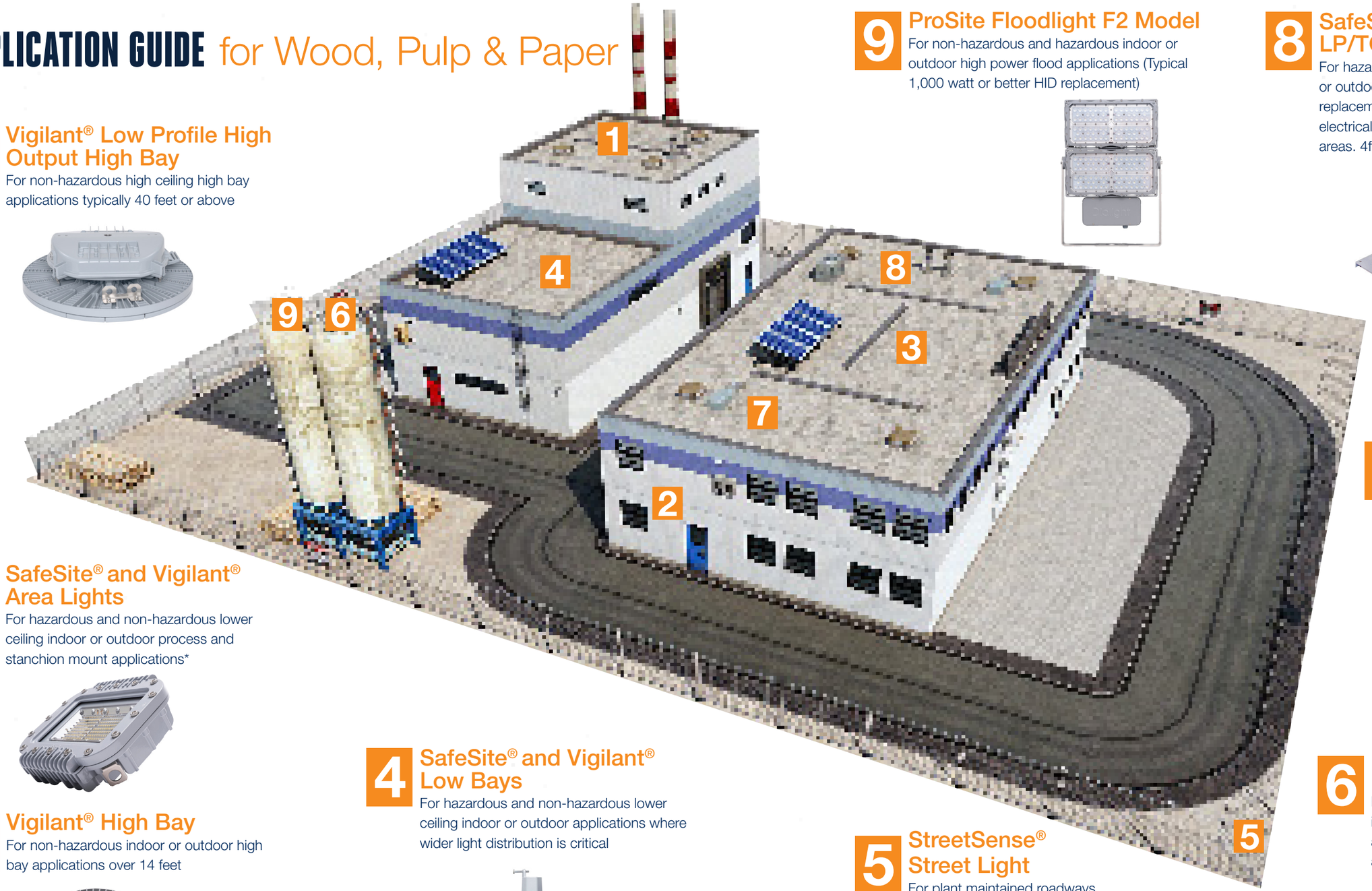
Highly efficient, crisp, low-glare illumination. Lighting where you need it, not where you don't.

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.

Wood, Pulp & Paper
Dialight

APPLICATION GUIDE for Wood, Pulp & Paper



1 Vigilant® Low Profile High Output High Bay

For non-hazardous high ceiling high bay applications typically 40 feet or above

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

5 StreetSense® Street Light

For plant maintained roadways and general outdoor illumination

6 ProSite Floodlight F1 Model

For For non-hazardous and 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 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

9 ProSite Floodlight F2 Model

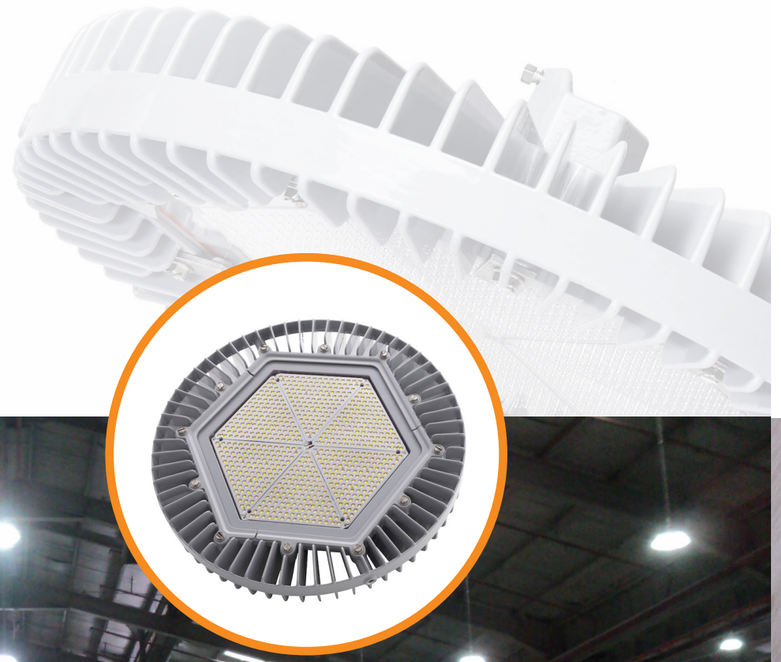
For non-hazardous and hazardous indoor or outdoor high power flood applications (Typical 1,000 watt or better HID replacement)

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

CASE STUDIES Kimberly-Clark *Johor, Malaysia*

Aiming to reduce energy consumption and improve visibility within the plant, the company replaced 114 of its 400W metal halide lighting fixtures with Dialight's DuroSite® LED High Bays. Consuming just 123W, the Dialight High Bays have enabled the company to slash energy consumption and dramatically improve visibility, all while making the work environment more comfortable and safer for employees. The company has been so impressed with the results, it's now considering an upgrade to Dialight fixtures at other areas within the mill premises.

- Two production floors
- Replaced 400W metal halide with 123W Dialight LED High Bays
- 60% energy savings
- Average W/m^2 reduced from 12.49 to 4



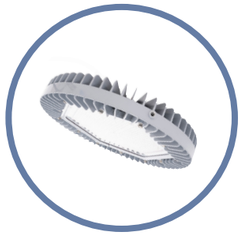
CASE STUDIES Koehler Paper Group *Kehl, Germany*

The 164 metal halide lamps were replaced one-for-one with Dialight's DuroSite® Series LED High Bays each drawing only 171W to deliver an immediate cut in energy use and CO_2 emissions of 64%. The LED High Bays carry a five-year continuous performance warranty and are L70 rated for 100,000 hours, so maintenance is eliminated. Additionally the LEDs' low operating temperature avoids the problem of dust accumulation on the lens and consequent variation in color. As sealed fixtures with no end-of-life failures, there is no risk that parts can fall into the production line to contaminate product or cause a fire hazard and with no UV output they will not cause discoloration of product.

- One-for-one replacement of (164) 440W Metal Halide as standard lights with (164) 171W Dialight LED High Bays
- Energy use down by 64% = 436,740kWh annually (17,500 lumen models only)
- CO_2 emissions down by 308 tons annually
- W/m^2 down from 8.66 to 3.12

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 400 watt traditional HID fixtures.

Ideally suited for:

- PAPER MACHINE ROOMS
- PULP MILLS
- TURBINE DECKS
- STORAGE & GENERAL AREAS

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:

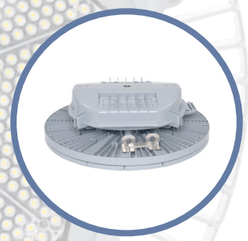
- PROCESS AREAS
- TANK FARMS
- CHEMICAL STORAGE

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:

- GENERAL STORAGE & WAREHOUSING
- MACHINE/MAINTENANCE SHOPS



VIGILANT® LOW PROFILE 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'.

Ideally suited for:

- PAPER MACHINE ROOMS
- PULP MILLS
- TURBINE DECKS
- STORAGE & GENERAL AREAS

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:

- UTILITIES/BOILER AREAS
- BASEMENTS
- PROCESS AREAS

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

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Wood, Pulp & Paper Dialight

PRODUCT PORTFOLIO High Bays

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® High Bay							
VEU7MC2ENNWNGN	UL 1598, CSA	23,900	140	171	5000K (cool white)	Glass - Clear	Medium
VEULMC2ENNWNGN	UL 1598, CSA	23,500	140	168	5000K (cool white)	Polycarbonate Dome - Diffused	Medium
VEU7MC2CNNWNGN	UL 1598, CSA	17,400	96	181	5000K (cool white)	Glass - Clear	Medium
VEULMC2CNNWNGN	UL 1598, CSA	17,000	96	177	5000K (cool white)	Polycarbonate Dome - Diffused	Medium
VEU7MC2BNNWNGN	UL 1598, CSA	13,600	80	170	5000K (cool white)	Glass - Clear	Medium
Reliant™ High Bay*							
RHU7MC2CDCNNGN	UL 1598, CSA	18,000	123	146	5000K (cool white)	Tempered Glass	Medium
RHU7MC2EDCNNGN	UL 1598, CSA	23,520	163	144	5000K (cool white)	Tempered Glass	Medium
RHU7MC2FDCNNGN	UL 1598, CSA	29,400	199	148	5000K (cool white)	Tempered Glass	Medium
Vigilant® Low Bay							
VEULUC29NNWNGN	UL 1598, CSA	9000	60	150	5000K (cool white)	Polycarbonate Dome - Diffused	Ultra Wide
VEULUC26NNWNGN	UL 1598, CSA	6100	43	142	5000K (cool white)	Polycarbonate Dome - Diffused	Ultra Wide
Vigilant® Low Profile High Output High Bay							
H7U7MC2NDNNNGN	UL 1598, CSA	61,200	418	146	5000K (cool white)	Glass	Medium
H7U4MC2NDNNNGN	UL 1598, CSA	57,100	418	137	5000K (cool white)	Polycarbonate	Medium
H7U7MC2KDNNNGN	UL 1598, CSA	46,000	300	153	5000K (cool white)	Glass	Medium
H7U4MC2KDNNNGN	UL 1598, CSA	42,900	300	143	5000K (cool white)	Polycarbonate	Medium

For Hazardous Location part numbers please refer to Product Specification Sheet.

*Occupancy Sensor models available, see Product Specification Sheet

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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:

- CONVEYORS
- PROCESS AREAS
- GENERAL AREAS
- BASEMENTS
- TUNNELS & NARROW SPACES

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
- TANK FARMS

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
Vigilant® Area Light							
ALU7BC27DNWNGN	UL 1598, CSA	7,300	52	140	5000K (cool white)	Glass	360°
ALU5BC27DNWNGN	UL 1598, CSA	6,700	52	129	5000K (cool white)	Polycarbonate Diffused	360°
ALU7BC26DNWNGN	UL 1598, CSA	5,700	40	143	5000K (cool white)	Glass	360°
ALU5BC26DNWNGN	UL 1598, CSA	5,300	40	133	5000K (cool white)	Polycarbonate Diffused	360°

For Hazardous Location part numbers please refer to Product Specification Sheet.

For more details on product specifications, and our full suite of retrofit adapters, please visit www.dialight.com.

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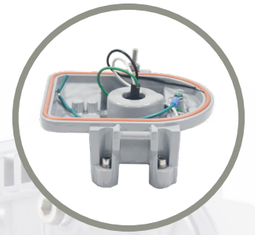
PRODUCT PORTFOLIO Area Light Accessories

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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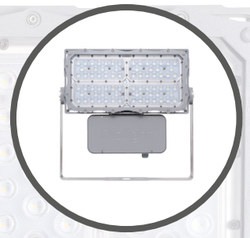
PRODUCT PORTFOLIO Floodlights



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:

- PAPER MACHINE ROOMS
- PULP MILLS
- TURBINE DECKS
- WOOD YARDS
- ROADWAYS/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:

- PAPER MACHINE ROOMS
- PULP MILLS
- TURBINE DECKS
- WOOD YARDS
- 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
StreetSense® Street Light							
SL3C5SLGG	UL 1598, CSA	20,250	252	80	5000K (cool white)	Tempered Glass	Type III

For Hazardous Location part numbers please refer to Product Specification Sheet.

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

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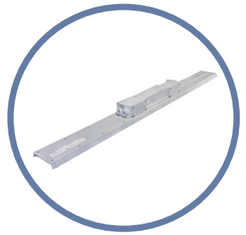
PRODUCT PORTFOLIO Linear Lights

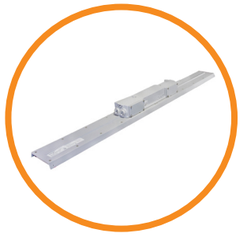


VIGILANT® LP/TC LINEAR

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:

- TASK LIGHTING
- PROCESS & INSPECTION AREAS
- MAINTENANCE AREAS
- SWITCHGEAR ROOMS
- STORAGE & GENERAL AREAS
- BASEMENTS



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:

- PROCESS AREAS
- MAINTENANCE AREAS
- CHEMICAL STORAGE

Part Number	Certification	Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution
DuroSite® Linear							
LPM3C4D2P	UL 1598, CSA	3,600	33	109	5000K (cool white)	Clear Polycarbonate	Medium
LPM3C4M2P	UL 1598, CSA	7,250	66	110	5000K (cool white)	Clear Polycarbonate	Medium
LPM3C4B2W	UL 1598, CSA	3,300	33	100	5000K (cool white)	Diffused Polycarbonate	Medium
LPM3C4H2W	UL 1598, CSA	6,700	66	102	5000K (cool white)	Diffused Polycarbonate	Medium
Vigilant® Linear							
LJU4MC25DNNNGN	UL 1598, CSA	4,750	37	128	5000K (cool white)	Clear Polycarbonate	Medium
LKU4MC27DNNNGN	UL 1598, CSA	7,250	52	139	5000K (cool white)	Clear Polycarbonate	Medium
LJU5MC25DNNNGN	UL 1598, CSA	4,450	37	120	5000K (cool white)	Diffused Polycarbonate	Medium
LKU5MC27DNNNGN	UL 1598, CSA	6,550	52	126	5000K (cool white)	Diffused Polycarbonate	Medium

For Hazardous Location part numbers please refer to Product Specification Sheet.

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

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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 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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